

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT
 UNIT COST
 DEMOLITION
 UNIT COST

23 09 23 12-0004	EA	8" x 12" Volume Control Damper (Ruskin CD36)	217.01	49.76
23 09 23 12-0005	EA	8" x 16" Volume Control Damper (Ruskin CD36)	234.76	49.76
23 09 23 12-0006	EA	8" x 20" Volume Control Damper (Ruskin CD36)	308.94	66.34
23 09 23 12-0007	EA	8" x 24" Volume Control Damper (Ruskin CD36)	335.26	66.34
23 09 23 12-0008	EA	8" x 28" Volume Control Damper (Ruskin CD36)	349.95	66.34
23 09 23 12-0009	EA	8" x 32" Volume Control Damper (Ruskin CD36)	388.50	66.34
23 09 23 12-0010	EA	8" x 36" Volume Control Damper (Ruskin CD36)	459.62	82.93
23 09 23 12-0011	EA	12" x 8" Volume Control Damper (Ruskin CD36)	217.01	49.76
23 09 23 12-0012	EA	12" x 12" Volume Control Damper (Ruskin CD36)	225.58	49.76
23 09 23 12-0013	EA	12" x 16" Volume Control Damper (Ruskin CD36)	276.50	66.34
23 09 23 12-0014	EA	12" x 20" Volume Control Damper (Ruskin CD36)	317.51	66.34
23 09 23 12-0015	EA	12" x 24" Volume Control Damper (Ruskin CD36)	377.61	82.93
23 09 23 12-0016	EA	12" x 28" Volume Control Damper (Ruskin CD36)	392.30	82.93
23 09 23 12-0017	EA	12" x 32" Volume Control Damper (Ruskin CD36)	430.24	82.93
23 09 23 12-0018	EA	12" x 36" Volume Control Damper (Ruskin CD36)	501.36	99.50
23 09 23 12-0019	EA	16" x 8" Volume Control Damper (Ruskin CD36)	234.76	49.76
23 09 23 12-0020	EA	16" x 12" Volume Control Damper (Ruskin CD36)	288.13	66.34
23 09 23 12-0021	EA	16" x 16" Volume Control Damper (Ruskin CD36)	297.92	66.34
23 09 23 12-0022	EA	16" x 20" Volume Control Damper (Ruskin CD36)	359.86	82.93
23 09 23 12-0023	EA	16" x 24" Volume Control Damper (Ruskin CD36)	389.24	82.93
23 09 23 12-0024	EA	16" x 28" Volume Control Damper (Ruskin CD36)	442.60	99.50
23 09 23 12-0025	EA	16" x 32" Volume Control Damper (Ruskin CD36)	475.04	99.50
23 09 23 12-0026	EA	16" x 36" Volume Control Damper (Ruskin CD36)	510.54	99.50
23 09 23 12-0027	EA	20" x 8" Volume Control Damper (Ruskin CD36)	308.94	66.34
23 09 23 12-0028	EA	20" x 12" Volume Control Damper (Ruskin CD36)	270.99	66.34
23 09 23 12-0029	EA	20" x 16" Volume Control Damper (Ruskin CD36)	330.48	82.93
23 09 23 12-0030	EA	20" x 20" Volume Control Damper (Ruskin CD36)	368.43	82.93
23 09 23 12-0031	EA	20" x 24" Volume Control Damper (Ruskin CD36)	425.47	99.50
23 09 23 12-0032	EA	20" x 28" Volume Control Damper (Ruskin CD36)	460.35	99.50
23 09 23 12-0033	EA	20" x 32" Volume Control Damper (Ruskin CD36)	523.51	116.09
23 09 23 12-0034	EA	20" x 36" Volume Control Damper (Ruskin CD36)	555.34	116.09
23 09 23 12-0035	EA	24" x 8" Volume Control Damper (Ruskin CD36)	270.99	66.34
23 09 23 12-0036	EA	24" x 12" Volume Control Damper (Ruskin CD36)	312.73	82.93
23 09 23 12-0037	EA	24" x 16" Volume Control Damper (Ruskin CD36)	339.05	82.93
23 09 23 12-0038	EA	24" x 20" Volume Control Damper (Ruskin CD36)	413.23	99.50
23 09 23 12-0039	EA	24" x 24" Volume Control Damper (Ruskin CD36)	440.16	99.50
23 09 23 12-0040	EA	24" x 28" Volume Control Damper (Ruskin CD36)	505.15	116.09
23 09 23 12-0041	EA	24" x 32" Volume Control Damper (Ruskin CD36)	543.71	116.09
23 09 23 12-0042	EA	24" x 36" Volume Control Damper (Ruskin CD36)	573.09	116.09
23 09 23 12-0043	EA	28" x 8" Volume Control Damper (Ruskin CD36)	276.50	66.34
23 09 23 12-0044	EA	28" x 12" Volume Control Damper (Ruskin CD36)	318.85	82.93
23 09 23 12-0045	EA	28" x 16" Volume Control Damper (Ruskin CD36)	375.28	99.50
23 09 23 12-0046	EA	28" x 20" Volume Control Damper (Ruskin CD36)	422.41	99.50
23 09 23 12-0047	EA	28" x 24" Volume Control Damper (Ruskin CD36)	478.83	116.09
23 09 23 12-0048	EA	28" x 28" Volume Control Damper (Ruskin CD36)	514.33	116.09
23 09 23 12-0049	EA	28" x 32" Volume Control Damper (Ruskin CD36)	546.77	116.09
23 09 23 12-0050	EA	28" x 36" Volume Control Damper (Ruskin CD36)	590.84	116.09
23 09 23 12-0051	EA	32" x 8" Volume Control Damper (Ruskin CD36)	279.56	66.34
23 09 23 12-0052	EA	32" x 12" Volume Control Damper (Ruskin CD36)	321.30	82.93
23 09 23 12-0053	EA	32" x 16" Volume Control Damper (Ruskin CD36)	383.85	99.50
23 09 23 12-0054	EA	32" x 20" Volume Control Damper (Ruskin CD36)	458.64	116.09
23 09 23 12-0055	EA	32" x 24" Volume Control Damper (Ruskin CD36)	493.52	116.09
23 09 23 12-0056	EA	32" x 28" Volume Control Damper (Ruskin CD36)	525.96	116.09
23 09 23 12-0057	EA	32" x 32" Volume Control Damper (Ruskin CD36)	561.46	116.09
23 09 23 12-0058	EA	32" x 36" Volume Control Damper (Ruskin CD36)	635.63	132.67
23 09 23 12-0059	EA	36" x 8" Volume Control Damper (Ruskin CD36)	324.36	82.93
23 09 23 12-0060	EA	36" x 12" Volume Control Damper (Ruskin CD36)	366.71	99.50
23 09 23 12-0061	EA	36" x 16" Volume Control Damper (Ruskin CD36)	393.03	99.50
23 09 23 12-0062	EA	36" x 20" Volume Control Damper (Ruskin CD36)	467.21	116.09
23 09 23 12-0063	EA	36" x 24" Volume Control Damper (Ruskin CD36)	505.15	116.09
23 09 23 12-0064	EA	36" x 28" Volume Control Damper (Ruskin CD36)	543.71	116.09
23 09 23 12-0065	EA	36" x 32" Volume Control Damper (Ruskin CD36)	606.25	132.67
23 09 23 12-0066	EA	36" x 36" Volume Control Damper (Ruskin CD36)	647.26	132.67
23 09 23 12-0067	EA	36" x 40" Volume Control Damper (Ruskin CD36)	682.75	132.67
23 09 23 12-0068	EA	36" x 44" Volume Control Damper (Ruskin CD36)	720.70	132.67
23 09 23 12-0069	EA	36" x 48" Volume Control Damper (Ruskin CD36)	753.14	132.67
23 09 23 12-0070	EA	36" x 52" Volume Control Damper (Ruskin CD36)	791.09	132.67
23 09 23 12-0071	EA	36" x 56" Volume Control Damper (Ruskin CD36)	829.65	132.67
23 09 23 12-0072	EA	36" x 60" Volume Control Damper (Ruskin CD36)	861.47	132.67
23 09 23 12-0073	EA	36" x 64" Volume Control Damper (Ruskin CD36)	905.54	132.67
23 09 23 12-0074	EA	36" x 68" Volume Control Damper (Ruskin CD36)	974.21	149.26
23 09 23 12-0075	EA	36" x 72" Volume Control Damper (Ruskin CD36)	1,039.08	149.26
23 09 23 12-0076	EA	36" x 76" Volume Control Damper (Ruskin CD36)	1,237.39	149.26
23 09 23 12-0077	EA	36" x 80" Volume Control Damper (Ruskin CD36)	1,237.39	149.26
23 09 23 12-0078	EA	36" x 84" Volume Control Damper (Ruskin CD36)	1,323.07	149.26
23 09 23 12-0079	EA	40" x 40" Volume Control Damper (Ruskin CD36)	697.44	132.67
23 09 23 12-0080	EA	40" x 44" Volume Control Damper (Ruskin CD36)	735.39	132.67
23 09 23 12-0081	EA	40" x 48" Volume Control Damper (Ruskin CD36)	773.34	132.67
23 09 23 12-0082	EA	40" x 52" Volume Control Damper (Ruskin CD36)	814.96	132.67
23 09 23 12-0083	EA	40" x 56" Volume Control Damper (Ruskin CD36)	849.84	132.67
23 09 23 12-0084	EA	40" x 60" Volume Control Damper (Ruskin CD36)	915.45	149.26

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Instrumentation and Control for HVAC 23 09

Direct-Digital Control System for HVAC 23 09 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 12-0085 EA 40" x 64" Volume Control Damper (Ruskin CD36).....	959.52	149.26
23 09 23 12-0086 EA 40" x 68" Volume Control Damper (Ruskin CD36).....	1,000.53	149.26
23 09 23 12-0087 EA 40" x 72" Volume Control Damper (Ruskin CD36).....	1,062.34	149.26
23 09 23 12-0088 EA 40" x 76" Volume Control Damper (Ruskin CD36).....	1,270.44	149.26
23 09 23 12-0089 EA 40" x 80" Volume Control Damper (Ruskin CD36).....	1,270.44	149.26
23 09 23 12-0090 EA 40" x 84" Volume Control Damper (Ruskin CD36).....	1,356.12	149.26
23 09 23 12-0091 EA 44" x 40" Volume Control Damper (Ruskin CD36).....	714.58	132.67
23 09 23 12-0092 EA 44" x 44" Volume Control Damper (Ruskin CD36).....	753.14	132.67
23 09 23 12-0093 EA 44" x 48" Volume Control Damper (Ruskin CD36).....	791.09	132.67
23 09 23 12-0094 EA 44" x 52" Volume Control Damper (Ruskin CD36).....	832.09	132.67
23 09 23 12-0095 EA 44" x 56" Volume Control Damper (Ruskin CD36).....	900.76	149.26
23 09 23 12-0096 EA 44" x 60" Volume Control Damper (Ruskin CD36).....	941.77	149.26
23 09 23 12-0097 EA 44" x 64" Volume Control Damper (Ruskin CD36).....	980.33	149.26
23 09 23 12-0098 EA 44" x 68" Volume Control Damper (Ruskin CD36).....	1,026.84	149.26
23 09 23 12-0099 EA 44" x 72" Volume Control Damper (Ruskin CD36).....	1,088.66	149.26
23 09 23 12-0100 EA 44" x 76" Volume Control Damper (Ruskin CD36).....	1,309.61	149.26
23 09 23 12-0101 EA 44" x 80" Volume Control Damper (Ruskin CD36).....	1,309.61	149.26
23 09 23 12-0102 EA 44" x 84" Volume Control Damper (Ruskin CD36).....	1,429.09	165.84
23 09 23 12-0103 EA 40" x 40" Volume Control Damper (Ruskin CD36).....	697.44	132.67
23 09 23 12-0104 EA 40" x 44" Volume Control Damper (Ruskin CD36).....	735.39	132.67
23 09 23 12-0105 EA 40" x 48" Volume Control Damper (Ruskin CD36).....	773.34	132.67
23 09 23 12-0106 EA 40" x 52" Volume Control Damper (Ruskin CD36).....	814.96	132.67
23 09 23 12-0107 EA 40" x 56" Volume Control Damper (Ruskin CD36).....	849.84	132.67
23 09 23 12-0108 EA 40" x 60" Volume Control Damper (Ruskin CD36).....	915.45	149.26
23 09 23 12-0109 EA 40" x 64" Volume Control Damper (Ruskin CD36).....	959.52	149.26
23 09 23 12-0110 EA 40" x 68" Volume Control Damper (Ruskin CD36).....	1,000.53	149.26
23 09 23 12-0111 EA 40" x 72" Volume Control Damper (Ruskin CD36).....	1,062.34	149.26
23 09 23 12-0112 EA 40" x 76" Volume Control Damper (Ruskin CD36).....	1,270.44	149.26
23 09 23 12-0113 EA 40" x 80" Volume Control Damper (Ruskin CD36).....	1,270.44	149.26
23 09 23 12-0114 EA 40" x 84" Volume Control Damper (Ruskin CD36).....	1,356.12	149.26
23 09 23 12-0115 EA 44" x 40" Volume Control Damper (Ruskin CD36).....	714.58	132.67
23 09 23 12-0116 EA 44" x 44" Volume Control Damper (Ruskin CD36).....	753.14	132.67
23 09 23 12-0117 EA 44" x 48" Volume Control Damper (Ruskin CD36).....	791.09	132.67
23 09 23 12-0118 EA 44" x 52" Volume Control Damper (Ruskin CD36).....	832.09	132.67
23 09 23 12-0119 EA 44" x 56" Volume Control Damper (Ruskin CD36).....	900.76	149.26
23 09 23 12-0120 EA 44" x 60" Volume Control Damper (Ruskin CD36).....	941.77	149.26
23 09 23 12-0121 EA 44" x 64" Volume Control Damper (Ruskin CD36).....	980.33	149.26
23 09 23 12-0122 EA 44" x 68" Volume Control Damper (Ruskin CD36).....	1,026.84	149.26
23 09 23 12-0123 EA 44" x 72" Volume Control Damper (Ruskin CD36).....	1,088.66	149.26
23 09 23 12-0124 EA 44" x 76" Volume Control Damper (Ruskin CD36).....	1,309.61	149.26
23 09 23 12-0125 EA 44" x 80" Volume Control Damper (Ruskin CD36).....	1,309.61	149.26
23 09 23 12-0126 EA 44" x 84" Volume Control Damper (Ruskin CD36).....	1,429.09	165.84
23 09 23 12-0127 EA 48" x 40" Volume Control Damper (Ruskin CD36).....	732.33	132.67
23 09 23 12-0128 EA 48" x 44" Volume Control Damper (Ruskin CD36).....	770.89	132.67
23 09 23 12-0129 EA 48" x 48" Volume Control Damper (Ruskin CD36).....	811.90	132.67
23 09 23 12-0130 EA 48" x 52" Volume Control Damper (Ruskin CD36).....	886.07	149.26
23 09 23 12-0131 EA 48" x 56" Volume Control Damper (Ruskin CD36).....	924.02	149.26
23 09 23 12-0132 EA 48" x 60" Volume Control Damper (Ruskin CD36).....	959.52	149.26
23 09 23 12-0133 EA 48" x 64" Volume Control Damper (Ruskin CD36).....	1,003.59	149.26
23 09 23 12-0134 EA 48" x 68" Volume Control Damper (Ruskin CD36).....	1,047.65	149.26
23 09 23 12-0135 EA 48" x 72" Volume Control Damper (Ruskin CD36).....	1,118.04	149.26
23 09 23 12-0136 EA 48" x 76" Volume Control Damper (Ruskin CD36).....	1,382.57	165.84
23 09 23 12-0137 EA 48" x 80" Volume Control Damper (Ruskin CD36).....	1,382.57	165.84
23 09 23 12-0138 EA 48" x 84" Volume Control Damper (Ruskin CD36).....	1,468.87	165.84
23 09 23 12-0139 EA 52" x 40" Volume Control Damper (Ruskin CD36).....	1,146.68	132.67
23 09 23 12-0140 EA 52" x 44" Volume Control Damper (Ruskin CD36).....	1,205.44	132.67
23 09 23 12-0141 EA 52" x 48" Volume Control Damper (Ruskin CD36).....	1,329.81	149.26
23 09 23 12-0142 EA 52" x 52" Volume Control Damper (Ruskin CD36).....	1,411.82	149.26
23 09 23 12-0143 EA 52" x 56" Volume Control Damper (Ruskin CD36).....	1,470.58	149.26
23 09 23 12-0144 EA 52" x 60" Volume Control Damper (Ruskin CD36).....	1,538.51	149.26
23 09 23 12-0145 EA 52" x 64" Volume Control Damper (Ruskin CD36).....	1,626.65	149.26
23 09 23 12-0146 EA 52" x 68" Volume Control Damper (Ruskin CD36).....	1,720.29	149.26
23 09 23 12-0147 EA 52" x 72" Volume Control Damper (Ruskin CD36).....	1,865.47	165.84
23 09 23 12-0148 EA 52" x 76" Volume Control Damper (Ruskin CD36).....	2,076.63	165.84
23 09 23 12-0149 EA 52" x 80" Volume Control Damper (Ruskin CD36).....	2,077.24	165.84
23 09 23 12-0150 EA 52" x 84" Volume Control Damper (Ruskin CD36).....	2,208.83	165.84
23 09 23 12-0151 EA 56" x 40" Volume Control Damper (Ruskin CD36).....	1,158.31	132.67
23 09 23 12-0152 EA 56" x 44" Volume Control Damper (Ruskin CD36).....	1,259.42	149.26
23 09 23 12-0153 EA 56" x 48" Volume Control Damper (Ruskin CD36).....	1,347.56	149.26
23 09 23 12-0154 EA 56" x 52" Volume Control Damper (Ruskin CD36).....	1,421.00	149.26
23 09 23 12-0155 EA 56" x 56" Volume Control Damper (Ruskin CD36).....	1,488.33	149.26
23 09 23 12-0156 EA 56" x 60" Volume Control Damper (Ruskin CD36).....	1,564.83	149.26
23 09 23 12-0157 EA 56" x 64" Volume Control Damper (Ruskin CD36).....	1,649.91	149.26
23 09 23 12-0158 EA 56" x 68" Volume Control Damper (Ruskin CD36).....	1,788.97	165.84
23 09 23 12-0159 EA 56" x 72" Volume Control Damper (Ruskin CD36).....	1,906.48	165.84
23 09 23 12-0160 EA 56" x 76" Volume Control Damper (Ruskin CD36).....	2,076.63	165.84
23 09 23 12-0161 EA 56" x 80" Volume Control Damper (Ruskin CD36).....	2,076.63	165.84
23 09 23 12-0162 EA 56" x 84" Volume Control Damper (Ruskin CD36).....	2,208.83	165.84
23 09 23 12-0163 EA 60" x 40" Volume Control Damper (Ruskin CD36).....	1,209.23	149.26
23 09 23 12-0164 EA 60" x 44" Volume Control Damper (Ruskin CD36).....	1,285.74	149.26
23 09 23 12-0165 EA 60" x 48" Volume Control Damper (Ruskin CD36).....	1,370.81	149.26

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT
 UNIT COST
 DEMOLITION
 UNIT COST

23 09 23 12-0166	EA	60" x 52" Volume Control Damper (Ruskin CD36).....	1,447.32	149.26
23 09 23 12-0167	EA	60" x 56" Volume Control Damper (Ruskin CD36).....	1,529.33	149.26
23 09 23 12-0168	EA	60" x 60" Volume Control Damper (Ruskin CD36).....	1,591.15	149.26
23 09 23 12-0169	EA	60" x 64" Volume Control Damper (Ruskin CD36).....	1,709.40	165.84
23 09 23 12-0170	EA	60" x 68" Volume Control Damper (Ruskin CD36).....	1,812.23	165.84
23 09 23 12-0171	EA	60" x 72" Volume Control Damper (Ruskin CD36).....	1,947.49	165.84
23 09 23 12-0172	EA	60" x 76" Volume Control Damper (Ruskin CD36).....	2,142.73	165.84
23 09 23 12-0173	EA	60" x 80" Volume Control Damper (Ruskin CD36).....	2,142.73	165.84
23 09 23 12-0174	EA	60" x 84" Volume Control Damper (Ruskin CD36).....	2,314.72	165.84
23 09 23 12-0175	EA	64" x 40" Volume Control Damper (Ruskin CD36).....	1,226.98	149.26
23 09 23 12-0176	EA	64" x 44" Volume Control Damper (Ruskin CD36).....	1,312.06	149.26
23 09 23 12-0177	EA	64" x 48" Volume Control Damper (Ruskin CD36).....	1,394.07	149.26
23 09 23 12-0178	EA	64" x 52" Volume Control Damper (Ruskin CD36).....	1,467.52	149.26
23 09 23 12-0179	EA	64" x 56" Volume Control Damper (Ruskin CD36).....	1,550.14	149.26
23 09 23 12-0180	EA	64" x 60" Volume Control Damper (Ruskin CD36).....	1,650.65	165.84
23 09 23 12-0181	EA	64" x 64" Volume Control Damper (Ruskin CD36).....	1,733.27	165.84
23 09 23 12-0182	EA	64" x 68" Volume Control Damper (Ruskin CD36).....	1,833.04	165.84
23 09 23 12-0183	EA	64" x 72" Volume Control Damper (Ruskin CD36).....	1,988.50	165.84
23 09 23 12-0184	EA	64" x 76" Volume Control Damper (Ruskin CD36).....	2,142.73	165.84
23 09 23 12-0185	EA	64" x 80" Volume Control Damper (Ruskin CD36).....	2,142.73	165.84
23 09 23 12-0186	EA	64" x 84" Volume Control Damper (Ruskin CD36).....	2,347.89	182.43
23 09 23 12-0187	EA	66" x 40" Volume Control Damper (Ruskin CD36).....	1,241.67	149.26
23 09 23 12-0188	EA	66" x 44" Volume Control Damper (Ruskin CD36).....	1,329.81	149.26
23 09 23 12-0189	EA	66" x 48" Volume Control Damper (Ruskin CD36).....	1,408.76	149.26
23 09 23 12-0190	EA	66" x 52" Volume Control Damper (Ruskin CD36).....	1,488.33	149.26
23 09 23 12-0191	EA	66" x 56" Volume Control Damper (Ruskin CD36).....	1,606.58	165.84
23 09 23 12-0192	EA	66" x 60" Volume Control Damper (Ruskin CD36).....	1,676.96	165.84
23 09 23 12-0193	EA	66" x 64" Volume Control Damper (Ruskin CD36).....	1,768.16	165.84
23 09 23 12-0194	EA	66" x 68" Volume Control Damper (Ruskin CD36).....	1,859.35	165.84
23 09 23 12-0195	EA	66" x 72" Volume Control Damper (Ruskin CD36).....	2,012.37	165.84
23 09 23 12-0196	EA	66" x 76" Volume Control Damper (Ruskin CD36).....	2,208.83	165.84
23 09 23 12-0197	EA	66" x 80" Volume Control Damper (Ruskin CD36).....	2,242.00	182.43
23 09 23 12-0198	EA	66" x 84" Volume Control Damper (Ruskin CD36).....	2,413.99	182.43
23 09 23 12-0199	EA	72" x 40" Volume Control Damper (Ruskin CD36).....	1,258.81	149.26
23 09 23 12-0200	EA	72" x 44" Volume Control Damper (Ruskin CD36).....	1,347.56	149.26
23 09 23 12-0201	EA	72" x 48" Volume Control Damper (Ruskin CD36).....	1,421.00	149.26
23 09 23 12-0202	EA	72" x 52" Volume Control Damper (Ruskin CD36).....	1,542.31	165.84
23 09 23 12-0203	EA	72" x 56" Volume Control Damper (Ruskin CD36).....	1,630.45	165.84
23 09 23 12-0204	EA	72" x 60" Volume Control Damper (Ruskin CD36).....	1,703.89	165.84
23 09 23 12-0205	EA	72" x 64" Volume Control Damper (Ruskin CD36).....	1,806.72	165.84
23 09 23 12-0206	EA	72" x 68" Volume Control Damper (Ruskin CD36).....	1,885.67	165.84
23 09 23 12-0207	EA	72" x 72" Volume Control Damper (Ruskin CD36).....	2,035.62	165.84
23 09 23 12-0208	EA	72" x 76" Volume Control Damper (Ruskin CD36).....	2,242.00	182.43
23 09 23 12-0209	EA	72" x 80" Volume Control Damper (Ruskin CD36).....	2,242.00	182.43
23 09 23 12-0210	EA	72" x 84" Volume Control Damper (Ruskin CD36).....	2,413.99	182.43
23 09 23 12-0211	EA	76" x 40" Volume Control Damper (Ruskin CD36).....	1,276.56	149.26
23 09 23 12-0212	EA	76" x 44" Volume Control Damper (Ruskin CD36).....	1,362.24	149.26
23 09 23 12-0213	EA	76" x 48" Volume Control Damper (Ruskin CD36).....	1,477.44	165.84
23 09 23 12-0214	EA	76" x 52" Volume Control Damper (Ruskin CD36).....	1,565.57	165.84
23 09 23 12-0215	EA	76" x 56" Volume Control Damper (Ruskin CD36).....	1,653.71	165.84
23 09 23 12-0216	EA	76" x 60" Volume Control Damper (Ruskin CD36).....	1,727.15	165.84
23 09 23 12-0217	EA	76" x 64" Volume Control Damper (Ruskin CD36).....	1,829.98	165.84
23 09 23 12-0218	EA	76" x 68" Volume Control Damper (Ruskin CD36).....	1,929.74	165.84
23 09 23 12-0219	EA	76" x 72" Volume Control Damper (Ruskin CD36).....	2,095.11	182.43
23 09 23 12-0220	EA	76" x 76" Volume Control Damper (Ruskin CD36).....	2,308.10	182.43
23 09 23 12-0221	EA	76" x 80" Volume Control Damper (Ruskin CD36).....	2,308.10	182.43
23 09 23 12-0222	EA	76" x 84" Volume Control Damper (Ruskin CD36).....	2,480.09	182.43
23 09 23 12-0223	EA	80" x 40" Volume Control Damper (Ruskin CD36).....	1,294.31	149.26
23 09 23 12-0224	EA	80" x 44" Volume Control Damper (Ruskin CD36).....	1,379.38	149.26
23 09 23 12-0225	EA	80" x 48" Volume Control Damper (Ruskin CD36).....	1,500.70	165.84
23 09 23 12-0226	EA	80" x 52" Volume Control Damper (Ruskin CD36).....	1,598.01	165.84
23 09 23 12-0227	EA	80" x 56" Volume Control Damper (Ruskin CD36).....	1,676.96	165.84
23 09 23 12-0228	EA	80" x 60" Volume Control Damper (Ruskin CD36).....	1,750.41	165.84
23 09 23 12-0229	EA	80" x 64" Volume Control Damper (Ruskin CD36).....	1,853.23	165.84
23 09 23 12-0230	EA	80" x 68" Volume Control Damper (Ruskin CD36).....	1,980.66	182.43
23 09 23 12-0231	EA	80" x 72" Volume Control Damper (Ruskin CD36).....	2,121.43	182.43
23 09 23 12-0232	EA	80" x 76" Volume Control Damper (Ruskin CD36).....	2,308.10	182.43
23 09 23 12-0233	EA	80" x 80" Volume Control Damper (Ruskin CD36).....	2,308.10	182.43
23 09 23 12-0234	EA	80" x 84" Volume Control Damper (Ruskin CD36).....	2,480.09	182.43
23 09 23 12-0235	EA	84" x 40" Volume Control Damper (Ruskin CD36).....	1,305.94	149.26
23 09 23 12-0236	EA	84" x 44" Volume Control Damper (Ruskin CD36).....	1,427.25	165.84
23 09 23 12-0237	EA	84" x 48" Volume Control Damper (Ruskin CD36).....	1,524.57	165.84
23 09 23 12-0238	EA	84" x 52" Volume Control Damper (Ruskin CD36).....	1,630.45	165.84
23 09 23 12-0239	EA	84" x 56" Volume Control Damper (Ruskin CD36).....	1,694.71	165.84
23 09 23 12-0240	EA	84" x 60" Volume Control Damper (Ruskin CD36).....	1,774.28	165.84
23 09 23 12-0241	EA	84" x 64" Volume Control Damper (Ruskin CD36).....	1,910.27	182.43
23 09 23 12-0242	EA	84" x 68" Volume Control Damper (Ruskin CD36).....	2,013.10	182.43
23 09 23 12-0243	EA	84" x 72" Volume Control Damper (Ruskin CD36).....	2,148.36	182.43
23 09 23 12-0244	EA	84" x 76" Volume Control Damper (Ruskin CD36).....	2,387.67	182.43
23 09 23 12-0245	EA	84" x 80" Volume Control Damper (Ruskin CD36).....	2,387.67	182.43
23 09 23 12-0246	EA	84" x 84" Volume Control Damper (Ruskin CD36).....	2,559.65	182.43

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Instrumentation and Control for HVAC 23 09

Direct-Digital Control System for HVAC 23 09 23

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
23 09 23 12-0247 Low Leakage Rectangular Volume Control Dampers (Ruskin CD50) (23 09 23 12-0001)					
23 09 23 12-0248	EA 8" x 8" Low Leakage Volume Control Damper (Ruskin CD50)	348.05		49.76	
23 09 23 12-0249	EA 8" x 12" Low Leakage Volume Control Damper (Ruskin CD50)	435.95		49.76	
23 09 23 12-0250	EA 8" x 16" Low Leakage Volume Control Damper (Ruskin CD50)	496.57		49.76	
23 09 23 12-0251	EA 8" x 20" Low Leakage Volume Control Damper (Ruskin CD50)	538.83		66.34	
23 09 23 12-0252	EA 8" x 24" Low Leakage Volume Control Damper (Ruskin CD50)	602.49		66.34	
23 09 23 12-0253	EA 8" x 28" Low Leakage Volume Control Damper (Ruskin CD50)	660.08		66.34	
23 09 23 12-0254	EA 8" x 32" Low Leakage Volume Control Damper (Ruskin CD50)	669.17		66.34	
23 09 23 12-0255	EA 8" x 36" Low Leakage Volume Control Damper (Ruskin CD50)	762.96		82.93	
23 09 23 12-0256	EA 12" x 8" Low Leakage Volume Control Damper (Ruskin CD50)	348.05		49.76	
23 09 23 12-0257	EA 12" x 12" Low Leakage Volume Control Damper (Ruskin CD50)	435.95		49.76	
23 09 23 12-0258	EA 12" x 16" Low Leakage Volume Control Damper (Ruskin CD50)	529.74		66.34	
23 09 23 12-0259	EA 12" x 20" Low Leakage Volume Control Damper (Ruskin CD50)	538.83		66.34	
23 09 23 12-0260	EA 12" x 24" Low Leakage Volume Control Damper (Ruskin CD50)	635.66		82.93	
23 09 23 12-0261	EA 12" x 28" Low Leakage Volume Control Damper (Ruskin CD50)	693.25		82.93	
23 09 23 12-0262	EA 12" x 32" Low Leakage Volume Control Damper (Ruskin CD50)	702.34		82.93	
23 09 23 12-0263	EA 12" x 36" Low Leakage Volume Control Damper (Ruskin CD50)	796.13		99.50	
23 09 23 12-0264	EA 16" x 8" Low Leakage Volume Control Damper (Ruskin CD50)	360.17		49.76	
23 09 23 12-0265	EA 16" x 12" Low Leakage Volume Control Damper (Ruskin CD50)	490.34		66.34	
23 09 23 12-0266	EA 16" x 16" Low Leakage Volume Control Damper (Ruskin CD50)	560.05		66.34	
23 09 23 12-0267	EA 16" x 20" Low Leakage Volume Control Damper (Ruskin CD50)	599.28		82.93	
23 09 23 12-0268	EA 16" x 24" Low Leakage Volume Control Damper (Ruskin CD50)	669.00		82.93	
23 09 23 12-0269	EA 16" x 28" Low Leakage Volume Control Damper (Ruskin CD50)	762.79		99.50	
23 09 23 12-0270	EA 16" x 32" Low Leakage Volume Control Damper (Ruskin CD50)	771.88		99.50	
23 09 23 12-0271	EA 16" x 36" Low Leakage Volume Control Damper (Ruskin CD50)	847.66		99.50	
23 09 23 12-0272	EA 20" x 8" Low Leakage Volume Control Damper (Ruskin CD50)	417.59		66.34	
23 09 23 12-0273	EA 20" x 12" Low Leakage Volume Control Damper (Ruskin CD50)	529.74		66.34	
23 09 23 12-0274	EA 20" x 16" Low Leakage Volume Control Damper (Ruskin CD50)	635.66		82.93	
23 09 23 12-0275	EA 20" x 20" Low Leakage Volume Control Damper (Ruskin CD50)	644.75		82.93	
23 09 23 12-0276	EA 20" x 24" Low Leakage Volume Control Damper (Ruskin CD50)	738.54		99.50	
23 09 23 12-0277	EA 20" x 28" Low Leakage Volume Control Damper (Ruskin CD50)	817.35		99.50	
23 09 23 12-0278	EA 20" x 32" Low Leakage Volume Control Damper (Ruskin CD50)	871.74		116.09	
23 09 23 12-0279	EA 20" x 36" Low Leakage Volume Control Damper (Ruskin CD50)	932.36		116.09	
23 09 23 12-0280	EA 24" x 8" Low Leakage Volume Control Damper (Ruskin CD50)	441.84		66.34	
23 09 23 12-0281	EA 24" x 12" Low Leakage Volume Control Damper (Ruskin CD50)	587.16		82.93	
23 09 23 12-0282	EA 24" x 16" Low Leakage Volume Control Damper (Ruskin CD50)	659.91		82.93	
23 09 23 12-0283	EA 24" x 20" Low Leakage Volume Control Damper (Ruskin CD50)	705.20		99.50	
23 09 23 12-0284	EA 24" x 24" Low Leakage Volume Control Damper (Ruskin CD50)	787.04		99.50	
23 09 23 12-0285	EA 24" x 28" Low Leakage Volume Control Damper (Ruskin CD50)	895.99		116.09	
23 09 23 12-0286	EA 24" x 32" Low Leakage Volume Control Damper (Ruskin CD50)	911.14		116.09	
23 09 23 12-0287	EA 24" x 36" Low Leakage Volume Control Damper (Ruskin CD50)	986.92		116.09	
23 09 23 12-0288	EA 28" x 8" Low Leakage Volume Control Damper (Ruskin CD50)	453.96		66.34	
23 09 23 12-0289	EA 28" x 12" Low Leakage Volume Control Damper (Ruskin CD50)	608.38		82.93	
23 09 23 12-0290	EA 28" x 16" Low Leakage Volume Control Damper (Ruskin CD50)	720.36		99.50	
23 09 23 12-0291	EA 28" x 20" Low Leakage Volume Control Damper (Ruskin CD50)	735.51		99.50	
23 09 23 12-0292	EA 28" x 24" Low Leakage Volume Control Damper (Ruskin CD50)	856.58		116.09	
23 09 23 12-0293	EA 28" x 28" Low Leakage Volume Control Damper (Ruskin CD50)	935.39		116.09	
23 09 23 12-0294	EA 28" x 32" Low Leakage Volume Control Damper (Ruskin CD50)	941.45		116.09	
23 09 23 12-0295	EA 28" x 36" Low Leakage Volume Control Damper (Ruskin CD50)	1,038.45		116.09	
23 09 23 12-0296	EA 32" x 8" Low Leakage Volume Control Damper (Ruskin CD50)	481.24		66.34	
23 09 23 12-0297	EA 32" x 12" Low Leakage Volume Control Damper (Ruskin CD50)	641.72		82.93	
23 09 23 12-0298	EA 32" x 16" Low Leakage Volume Control Damper (Ruskin CD50)	771.88		99.50	
23 09 23 12-0299	EA 32" x 20" Low Leakage Volume Control Damper (Ruskin CD50)	814.15		116.09	
23 09 23 12-0300	EA 32" x 24" Low Leakage Volume Control Damper (Ruskin CD50)	911.14		116.09	
23 09 23 12-0301	EA 32" x 28" Low Leakage Volume Control Damper (Ruskin CD50)	983.89		116.09	
23 09 23 12-0302	EA 32" x 32" Low Leakage Volume Control Damper (Ruskin CD50)	1,002.07		116.09	
23 09 23 12-0303	EA 32" x 36" Low Leakage Volume Control Damper (Ruskin CD50)	1,123.14		132.67	
23 09 23 12-0304	EA 36" x 8" Low Leakage Volume Control Damper (Ruskin CD50)	541.69		82.93	
23 09 23 12-0305	EA 36" x 12" Low Leakage Volume Control Damper (Ruskin CD50)	702.17		99.50	
23 09 23 12-0306	EA 36" x 16" Low Leakage Volume Control Damper (Ruskin CD50)	796.13		99.50	
23 09 23 12-0307	EA 36" x 20" Low Leakage Volume Control Damper (Ruskin CD50)	838.40		116.09	
23 09 23 12-0308	EA 36" x 24" Low Leakage Volume Control Damper (Ruskin CD50)	941.45		116.09	
23 09 23 12-0309	EA 36" x 28" Low Leakage Volume Control Damper (Ruskin CD50)	1,041.48		116.09	
23 09 23 12-0310	EA 36" x 32" Low Leakage Volume Control Damper (Ruskin CD50)	1,080.70		132.67	
23 09 23 12-0311	EA 36" x 36" Low Leakage Volume Control Damper (Ruskin CD50)	1,180.73		132.67	
23 09 23 12-0312	EA 36" x 40" Low Leakage Volume Control Damper (Ruskin CD50)	1,268.63		132.67	
23 09 23 12-0313	EA 36" x 44" Low Leakage Volume Control Damper (Ruskin CD50)	1,289.84		132.67	
23 09 23 12-0314	EA 36" x 48" Low Leakage Volume Control Damper (Ruskin CD50)	1,392.90		132.67	
23 09 23 12-0315	EA 36" x 52" Low Leakage Volume Control Damper (Ruskin CD50)	1,486.87		132.67	
23 09 23 12-0316	EA 36" x 56" Low Leakage Volume Control Damper (Ruskin CD50)	1,508.08		132.67	
23 09 23 12-0317	EA 36" x 60" Low Leakage Volume Control Damper (Ruskin CD50)	1,595.98		132.67	
23 09 23 12-0318	EA 36" x 64" Low Leakage Volume Control Damper (Ruskin CD50)	1,686.92		132.67	
23 09 23 12-0319	EA 36" x 68" Low Leakage Volume Control Damper (Ruskin CD50)	1,738.27		149.26	
23 09 23 12-0320	EA 36" x 72" Low Leakage Volume Control Damper (Ruskin CD50)	1,832.24		149.26	
23 09 23 12-0321	EA 36" x 76" Low Leakage Volume Control Damper (Ruskin CD50)	2,505.89		149.26	
23 09 23 12-0322	EA 36" x 80" Low Leakage Volume Control Damper (Ruskin CD50)	2,505.89		149.26	
23 09 23 12-0323	EA 36" x 84" Low Leakage Volume Control Damper (Ruskin CD50)	2,552.12		149.26	
23 09 23 12-0324	EA 40" x 40" Low Leakage Volume Control Damper (Ruskin CD50)	1,332.28		132.67	
23 09 23 12-0325	EA 40" x 44" Low Leakage Volume Control Damper (Ruskin CD50)	1,350.47		132.67	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 12-0326 EA 40" x 48" Low Leakage Volume Control Damper (Ruskin CD50)	1,450.49	132.67
23 09 23 12-0327 EA 40" x 52" Low Leakage Volume Control Damper (Ruskin CD50)	1,559.61	132.67
23 09 23 12-0328 EA 40" x 56" Low Leakage Volume Control Damper (Ruskin CD50)	1,568.70	132.67
23 09 23 12-0329 EA 40" x 60" Low Leakage Volume Control Damper (Ruskin CD50)	1,701.90	149.26
23 09 23 12-0330 EA 40" x 64" Low Leakage Volume Control Damper (Ruskin CD50)	1,804.96	149.26
23 09 23 12-0331 EA 40" x 68" Low Leakage Volume Control Damper (Ruskin CD50)	1,832.24	149.26
23 09 23 12-0332 EA 40" x 72" Low Leakage Volume Control Damper (Ruskin CD50)	1,935.29	149.26
23 09 23 12-0333 EA 40" x 76" Low Leakage Volume Control Damper (Ruskin CD50)	2,646.08	149.26
23 09 23 12-0334 EA 40" x 80" Low Leakage Volume Control Damper (Ruskin CD50)	2,646.08	149.26
23 09 23 12-0335 EA 40" x 84" Low Leakage Volume Control Damper (Ruskin CD50)	2,685.49	149.26
23 09 23 12-0336 EA 44" x 40" Low Leakage Volume Control Damper (Ruskin CD50)	1,383.81	132.67
23 09 23 12-0337 EA 44" x 44" Low Leakage Volume Control Damper (Ruskin CD50)	1,411.09	132.67
23 09 23 12-0338 EA 44" x 48" Low Leakage Volume Control Damper (Ruskin CD50)	1,514.14	132.67
23 09 23 12-0339 EA 44" x 52" Low Leakage Volume Control Damper (Ruskin CD50)	1,635.39	132.67
23 09 23 12-0340 EA 44" x 56" Low Leakage Volume Control Damper (Ruskin CD50)	1,677.65	149.26
23 09 23 12-0341 EA 44" x 60" Low Leakage Volume Control Damper (Ruskin CD50)	1,780.71	149.26
23 09 23 12-0342 EA 44" x 64" Low Leakage Volume Control Damper (Ruskin CD50)	1,895.89	149.26
23 09 23 12-0343 EA 44" x 68" Low Leakage Volume Control Damper (Ruskin CD50)	1,923.17	149.26
23 09 23 12-0344 EA 44" x 72" Low Leakage Volume Control Damper (Ruskin CD50)	2,023.19	149.26
23 09 23 12-0345 EA 44" x 76" Low Leakage Volume Control Damper (Ruskin CD50)	2,758.99	149.26
23 09 23 12-0346 EA 44" x 80" Low Leakage Volume Control Damper (Ruskin CD50)	2,758.99	149.26
23 09 23 12-0347 EA 44" x 84" Low Leakage Volume Control Damper (Ruskin CD50)	2,852.03	165.84
23 09 23 12-0348 EA 40" x 40" Low Leakage Volume Control Damper (Ruskin CD50)	1,332.28	132.67
23 09 23 12-0349 EA 40" x 44" Low Leakage Volume Control Damper (Ruskin CD50)	1,350.47	132.67
23 09 23 12-0350 EA 40" x 48" Low Leakage Volume Control Damper (Ruskin CD50)	1,450.49	132.67
23 09 23 12-0351 EA 40" x 52" Low Leakage Volume Control Damper (Ruskin CD50)	1,559.61	132.67
23 09 23 12-0352 EA 40" x 56" Low Leakage Volume Control Damper (Ruskin CD50)	1,568.70	132.67
23 09 23 12-0353 EA 40" x 60" Low Leakage Volume Control Damper (Ruskin CD50)	1,701.90	149.26
23 09 23 12-0354 EA 40" x 64" Low Leakage Volume Control Damper (Ruskin CD50)	1,804.96	149.26
23 09 23 12-0355 EA 40" x 68" Low Leakage Volume Control Damper (Ruskin CD50)	1,832.24	149.26
23 09 23 12-0356 EA 40" x 72" Low Leakage Volume Control Damper (Ruskin CD50)	1,935.29	149.26
23 09 23 12-0357 EA 40" x 76" Low Leakage Volume Control Damper (Ruskin CD50)	2,646.08	149.26
23 09 23 12-0358 EA 40" x 80" Low Leakage Volume Control Damper (Ruskin CD50)	2,646.08	149.26
23 09 23 12-0359 EA 40" x 84" Low Leakage Volume Control Damper (Ruskin CD50)	2,685.49	149.26
23 09 23 12-0360 EA 44" x 40" Low Leakage Volume Control Damper (Ruskin CD50)	1,383.81	132.67
23 09 23 12-0361 EA 44" x 44" Low Leakage Volume Control Damper (Ruskin CD50)	1,411.09	132.67
23 09 23 12-0362 EA 44" x 48" Low Leakage Volume Control Damper (Ruskin CD50)	1,450.49	132.67
23 09 23 12-0363 EA 44" x 52" Low Leakage Volume Control Damper (Ruskin CD50)	1,559.61	132.67
23 09 23 12-0364 EA 44" x 56" Low Leakage Volume Control Damper (Ruskin CD50)	1,677.65	149.26
23 09 23 12-0365 EA 44" x 60" Low Leakage Volume Control Damper (Ruskin CD50)	1,780.71	149.26
23 09 23 12-0366 EA 44" x 64" Low Leakage Volume Control Damper (Ruskin CD50)	1,895.89	149.26
23 09 23 12-0367 EA 44" x 68" Low Leakage Volume Control Damper (Ruskin CD50)	1,923.17	149.26
23 09 23 12-0368 EA 44" x 72" Low Leakage Volume Control Damper (Ruskin CD50)	2,023.19	149.26
23 09 23 12-0369 EA 44" x 76" Low Leakage Volume Control Damper (Ruskin CD50)	2,758.99	149.26
23 09 23 12-0370 EA 44" x 80" Low Leakage Volume Control Damper (Ruskin CD50)	2,758.99	149.26
23 09 23 12-0371 EA 44" x 84" Low Leakage Volume Control Damper (Ruskin CD50)	2,852.03	165.84
23 09 23 12-0372 EA 48" x 40" Low Leakage Volume Control Damper (Ruskin CD50)	1,441.40	132.67
23 09 23 12-0373 EA 48" x 44" Low Leakage Volume Control Damper (Ruskin CD50)	1,465.65	132.67
23 09 23 12-0374 EA 48" x 48" Low Leakage Volume Control Damper (Ruskin CD50)	1,583.86	132.67
23 09 23 12-0375 EA 48" x 52" Low Leakage Volume Control Damper (Ruskin CD50)	1,738.27	149.26
23 09 23 12-0376 EA 48" x 56" Low Leakage Volume Control Damper (Ruskin CD50)	1,762.52	149.26
23 09 23 12-0377 EA 48" x 60" Low Leakage Volume Control Damper (Ruskin CD50)	1,862.55	149.26
23 09 23 12-0378 EA 48" x 64" Low Leakage Volume Control Damper (Ruskin CD50)	1,977.73	149.26
23 09 23 12-0379 EA 48" x 68" Low Leakage Volume Control Damper (Ruskin CD50)	1,998.95	149.26
23 09 23 12-0380 EA 48" x 72" Low Leakage Volume Control Damper (Ruskin CD50)	2,111.10	149.26
23 09 23 12-0381 EA 48" x 76" Low Leakage Volume Control Damper (Ruskin CD50)	2,918.72	165.84
23 09 23 12-0382 EA 48" x 80" Low Leakage Volume Control Damper (Ruskin CD50)	2,918.72	165.84
23 09 23 12-0383 EA 48" x 84" Low Leakage Volume Control Damper (Ruskin CD50)	2,972.52	165.84
23 09 23 12-0384 EA 52" x 40" Low Leakage Volume Control Damper (Ruskin CD50)	1,623.26	132.67
23 09 23 12-0385 EA 52" x 44" Low Leakage Volume Control Damper (Ruskin CD50)	1,647.51	132.67
23 09 23 12-0386 EA 52" x 48" Low Leakage Volume Control Damper (Ruskin CD50)	1,811.02	149.26
23 09 23 12-0387 EA 52" x 52" Low Leakage Volume Control Damper (Ruskin CD50)	1,956.51	149.26
23 09 23 12-0388 EA 52" x 56" Low Leakage Volume Control Damper (Ruskin CD50)	1,980.76	149.26
23 09 23 12-0389 EA 52" x 60" Low Leakage Volume Control Damper (Ruskin CD50)	2,095.94	149.26
23 09 23 12-0390 EA 52" x 64" Low Leakage Volume Control Damper (Ruskin CD50)	2,220.21	149.26
23 09 23 12-0391 EA 52" x 68" Low Leakage Volume Control Damper (Ruskin CD50)	2,268.71	149.26
23 09 23 12-0392 EA 52" x 72" Low Leakage Volume Control Damper (Ruskin CD50)	2,456.48	165.84
23 09 23 12-0393 EA 52" x 76" Low Leakage Volume Control Damper (Ruskin CD50)	4,199.35	165.84
23 09 23 12-0394 EA 52" x 80" Low Leakage Volume Control Damper (Ruskin CD50)	4,199.35	165.84
23 09 23 12-0395 EA 52" x 84" Low Leakage Volume Control Damper (Ruskin CD50)	4,359.24	165.84
23 09 23 12-0396 EA 56" x 40" Low Leakage Volume Control Damper (Ruskin CD50)	1,686.92	132.67
23 09 23 12-0397 EA 56" x 44" Low Leakage Volume Control Damper (Ruskin CD50)	1,750.40	149.26
23 09 23 12-0398 EA 56" x 48" Low Leakage Volume Control Damper (Ruskin CD50)	1,880.73	149.26
23 09 23 12-0399 EA 56" x 52" Low Leakage Volume Control Damper (Ruskin CD50)	2,047.44	149.26
23 09 23 12-0400 EA 56" x 56" Low Leakage Volume Control Damper (Ruskin CD50)	2,074.72	149.26
23 09 23 12-0401 EA 56" x 60" Low Leakage Volume Control Damper (Ruskin CD50)	2,199.00	149.26
23 09 23 12-0402 EA 56" x 64" Low Leakage Volume Control Damper (Ruskin CD50)	2,329.33	149.26
23 09 23 12-0403 EA 56" x 68" Low Leakage Volume Control Damper (Ruskin CD50)	2,407.98	165.84
23 09 23 12-0404 EA 56" x 72" Low Leakage Volume Control Damper (Ruskin CD50)	2,535.29	165.84
23 09 23 12-0405 EA 56" x 76" Low Leakage Volume Control Damper (Ruskin CD50)	4,199.35	165.84
23 09 23 12-0406 EA 56" x 80" Low Leakage Volume Control Damper (Ruskin CD50)	4,199.35	165.84

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Instrumentation and Control for HVAC 23 09

Direct-Digital Control System for HVAC 23 09 23

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MINOR			DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM				
23 09 23 12-0407	EA	56" x 84"	Low Leakage Volume Control Damper (Ruskin CD50)	4,359.24	165.84
23 09 23 12-0408	EA	60" x 40"	Low Leakage Volume Control Damper (Ruskin CD50)	1,786.77	149.26
23 09 23 12-0409	EA	60" x 44"	Low Leakage Volume Control Damper (Ruskin CD50)	1,811.02	149.26
23 09 23 12-0410	EA	60" x 48"	Low Leakage Volume Control Damper (Ruskin CD50)	1,965.60	149.26
23 09 23 12-0411	EA	60" x 52"	Low Leakage Volume Control Damper (Ruskin CD50)	2,120.19	149.26
23 09 23 12-0412	EA	60" x 56"	Low Leakage Volume Control Damper (Ruskin CD50)	2,150.50	149.26
23 09 23 12-0413	EA	60" x 60"	Low Leakage Volume Control Damper (Ruskin CD50)	2,280.84	149.26
23 09 23 12-0414	EA	60" x 64"	Low Leakage Volume Control Damper (Ruskin CD50)	2,456.48	165.84
23 09 23 12-0415	EA	60" x 68"	Low Leakage Volume Control Damper (Ruskin CD50)	2,486.79	165.84
23 09 23 12-0416	EA	60" x 72"	Low Leakage Volume Control Damper (Ruskin CD50)	2,641.37	165.84
23 09 23 12-0417	EA	60" x 76"	Low Leakage Volume Control Damper (Ruskin CD50)	4,532.77	165.84
23 09 23 12-0418	EA	60" x 80"	Low Leakage Volume Control Damper (Ruskin CD50)	4,532.77	165.84
23 09 23 12-0419	EA	60" x 84"	Low Leakage Volume Control Damper (Ruskin CD50)	4,585.81	165.84
23 09 23 12-0420	EA	64" x 40"	Low Leakage Volume Control Damper (Ruskin CD50)	2,402.08	149.26
23 09 23 12-0421	EA	64" x 44"	Low Leakage Volume Control Damper (Ruskin CD50)	2,429.36	149.26
23 09 23 12-0422	EA	64" x 48"	Low Leakage Volume Control Damper (Ruskin CD50)	2,674.88	149.26
23 09 23 12-0423	EA	64" x 52"	Low Leakage Volume Control Damper (Ruskin CD50)	2,832.49	149.26
23 09 23 12-0424	EA	64" x 56"	Low Leakage Volume Control Damper (Ruskin CD50)	2,887.05	149.26
23 09 23 12-0425	EA	64" x 60"	Low Leakage Volume Control Damper (Ruskin CD50)	3,096.03	165.84
23 09 23 12-0426	EA	64" x 64"	Low Leakage Volume Control Damper (Ruskin CD50)	3,290.02	165.84
23 09 23 12-0427	EA	64" x 68"	Low Leakage Volume Control Damper (Ruskin CD50)	3,338.52	165.84
23 09 23 12-0428	EA	64" x 72"	Low Leakage Volume Control Damper (Ruskin CD50)	3,499.17	165.84
23 09 23 12-0429	EA	64" x 76"	Low Leakage Volume Control Damper (Ruskin CD50)	4,532.77	165.84
23 09 23 12-0430	EA	64" x 80"	Low Leakage Volume Control Damper (Ruskin CD50)	4,532.77	165.84
23 09 23 12-0431	EA	64" x 84"	Low Leakage Volume Control Damper (Ruskin CD50)	4,618.98	182.43
23 09 23 12-0432	EA	66" x 40"	Low Leakage Volume Control Damper (Ruskin CD50)	2,459.67	149.26
23 09 23 12-0433	EA	66" x 44"	Low Leakage Volume Control Damper (Ruskin CD50)	2,489.98	149.26
23 09 23 12-0434	EA	66" x 48"	Low Leakage Volume Control Damper (Ruskin CD50)	2,723.37	149.26
23 09 23 12-0435	EA	66" x 52"	Low Leakage Volume Control Damper (Ruskin CD50)	2,911.30	149.26
23 09 23 12-0436	EA	66" x 56"	Low Leakage Volume Control Damper (Ruskin CD50)	2,989.95	165.84
23 09 23 12-0437	EA	66" x 60"	Low Leakage Volume Control Damper (Ruskin CD50)	3,174.84	165.84
23 09 23 12-0438	EA	66" x 64"	Low Leakage Volume Control Damper (Ruskin CD50)	3,374.89	165.84
23 09 23 12-0439	EA	66" x 68"	Low Leakage Volume Control Damper (Ruskin CD50)	3,420.36	165.84
23 09 23 12-0440	EA	66" x 72"	Low Leakage Volume Control Damper (Ruskin CD50)	3,623.44	165.84
23 09 23 12-0441	EA	66" x 76"	Low Leakage Volume Control Damper (Ruskin CD50)	4,746.46	165.84
23 09 23 12-0442	EA	66" x 80"	Low Leakage Volume Control Damper (Ruskin CD50)	4,779.63	182.43
23 09 23 12-0443	EA	66" x 84"	Low Leakage Volume Control Damper (Ruskin CD50)	4,872.83	182.43
23 09 23 12-0444	EA	72" x 40"	Low Leakage Volume Control Damper (Ruskin CD50)	2,511.20	149.26
23 09 23 12-0445	EA	72" x 44"	Low Leakage Volume Control Damper (Ruskin CD50)	2,550.60	149.26
23 09 23 12-0446	EA	72" x 48"	Low Leakage Volume Control Damper (Ruskin CD50)	2,777.93	149.26
23 09 23 12-0447	EA	72" x 52"	Low Leakage Volume Control Damper (Ruskin CD50)	3,020.26	165.84
23 09 23 12-0448	EA	72" x 56"	Low Leakage Volume Control Damper (Ruskin CD50)	3,062.69	165.84
23 09 23 12-0449	EA	72" x 60"	Low Leakage Volume Control Damper (Ruskin CD50)	3,256.68	165.84
23 09 23 12-0450	EA	72" x 64"	Low Leakage Volume Control Damper (Ruskin CD50)	3,459.76	165.84
23 09 23 12-0451	EA	72" x 68"	Low Leakage Volume Control Damper (Ruskin CD50)	3,499.17	165.84
23 09 23 12-0452	EA	72" x 72"	Low Leakage Volume Control Damper (Ruskin CD50)	3,711.34	165.84
23 09 23 12-0453	EA	72" x 76"	Low Leakage Volume Control Damper (Ruskin CD50)	4,779.63	182.43
23 09 23 12-0454	EA	72" x 80"	Low Leakage Volume Control Damper (Ruskin CD50)	4,779.63	182.43
23 09 23 12-0455	EA	72" x 84"	Low Leakage Volume Control Damper (Ruskin CD50)	4,872.83	182.43
23 09 23 12-0456	EA	76" x 40"	Low Leakage Volume Control Damper (Ruskin CD50)	2,574.85	149.26
23 09 23 12-0457	EA	76" x 44"	Low Leakage Volume Control Damper (Ruskin CD50)	2,617.29	149.26
23 09 23 12-0458	EA	76" x 48"	Low Leakage Volume Control Damper (Ruskin CD50)	2,877.80	165.84
23 09 23 12-0459	EA	76" x 52"	Low Leakage Volume Control Damper (Ruskin CD50)	3,099.07	165.84
23 09 23 12-0460	EA	76" x 56"	Low Leakage Volume Control Damper (Ruskin CD50)	3,126.35	165.84
23 09 23 12-0461	EA	76" x 60"	Low Leakage Volume Control Damper (Ruskin CD50)	3,338.52	165.84
23 09 23 12-0462	EA	76" x 64"	Low Leakage Volume Control Damper (Ruskin CD50)	3,553.73	165.84
23 09 23 12-0463	EA	76" x 68"	Low Leakage Volume Control Damper (Ruskin CD50)	3,605.26	165.84
23 09 23 12-0464	EA	76" x 72"	Low Leakage Volume Control Damper (Ruskin CD50)	3,853.63	182.43
23 09 23 12-0465	EA	76" x 76"	Low Leakage Volume Control Damper (Ruskin CD50)	5,059.25	182.43
23 09 23 12-0466	EA	76" x 80"	Low Leakage Volume Control Damper (Ruskin CD50)	5,059.25	182.43
23 09 23 12-0467	EA	76" x 84"	Low Leakage Volume Control Damper (Ruskin CD50)	5,139.57	182.43
23 09 23 12-0468	EA	80" x 40"	Low Leakage Volume Control Damper (Ruskin CD50)	2,644.57	149.26
23 09 23 12-0469	EA	80" x 44"	Low Leakage Volume Control Damper (Ruskin CD50)	2,683.97	149.26
23 09 23 12-0470	EA	80" x 48"	Low Leakage Volume Control Damper (Ruskin CD50)	2,941.45	165.84
23 09 23 12-0471	EA	80" x 52"	Low Leakage Volume Control Damper (Ruskin CD50)	3,174.84	165.84
23 09 23 12-0472	EA	80" x 56"	Low Leakage Volume Control Damper (Ruskin CD50)	3,196.06	165.84
23 09 23 12-0473	EA	80" x 60"	Low Leakage Volume Control Damper (Ruskin CD50)	3,420.36	165.84
23 09 23 12-0474	EA	80" x 64"	Low Leakage Volume Control Damper (Ruskin CD50)	3,647.69	165.84
23 09 23 12-0475	EA	80" x 68"	Low Leakage Volume Control Damper (Ruskin CD50)	3,744.51	182.43
23 09 23 12-0476	EA	80" x 72"	Low Leakage Volume Control Damper (Ruskin CD50)	3,965.78	182.43
23 09 23 12-0477	EA	80" x 76"	Low Leakage Volume Control Damper (Ruskin CD50)	5,059.25	182.43
23 09 23 12-0478	EA	80" x 80"	Low Leakage Volume Control Damper (Ruskin CD50)	5,059.25	182.43
23 09 23 12-0479	EA	80" x 84"	Low Leakage Volume Control Damper (Ruskin CD50)	5,139.57	182.43
23 09 23 12-0480	EA	84" x 40"	Low Leakage Volume Control Damper (Ruskin CD50)	2,702.16	149.26
23 09 23 12-0481	EA	84" x 44"	Low Leakage Volume Control Damper (Ruskin CD50)	2,762.62	165.84
23 09 23 12-0482	EA	84" x 48"	Low Leakage Volume Control Damper (Ruskin CD50)	2,992.98	165.84
23 09 23 12-0483	EA	84" x 52"	Low Leakage Volume Control Damper (Ruskin CD50)	3,253.65	165.84
23 09 23 12-0484	EA	84" x 56"	Low Leakage Volume Control Damper (Ruskin CD50)	3,265.78	165.84
23 09 23 12-0485	EA	84" x 60"	Low Leakage Volume Control Damper (Ruskin CD50)	3,477.95	165.84
23 09 23 12-0486	EA	84" x 64"	Low Leakage Volume Control Damper (Ruskin CD50)	3,753.61	182.43
23 09 23 12-0487	EA	84" x 68"	Low Leakage Volume Control Damper (Ruskin CD50)	3,820.29	182.43

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 12-0488	EA	84" x 72" Low Leakage Volume Control Damper (Ruskin CD50)	.....	4,044.59	182.43
23 09 23 12-0489	EA	84" x 76" Low Leakage Volume Control Damper (Ruskin CD50)	.....	5,285.82	182.43
23 09 23 12-0490	EA	84" x 80" Low Leakage Volume Control Damper (Ruskin CD50)	.....	5,285.82	182.43
23 09 23 12-0491	EA	84" x 84" Low Leakage Volume Control Damper (Ruskin CD50)	.....	5,406.30	182.43
23 09 23 12-0492 Rectangular Volume Control Dampers (TAMCO) (23 09 23 12)					
Note: Excludes actuators.					
23 09 23 12-0493 Air-Foil Control Damper (TAMCO Series 1000) (23 09 23 12-0492)					
23 09 23 12-0494	EA	12" x 12" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	245.77	49.76
23 09 23 12-0495	EA	12" x 16" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	295.89	66.34
23 09 23 12-0496	EA	12" x 20" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	312.87	66.34
23 09 23 12-0497	EA	12" x 24" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	382.07	82.93
23 09 23 12-0498	EA	12" x 28" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	392.39	82.93
23 09 23 12-0499	EA	12" x 32" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	402.71	82.93
23 09 23 12-0500	EA	12" x 36" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	452.79	99.50
23 09 23 12-0501	EA	16" x 12" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	281.00	66.34
23 09 23 12-0502	EA	16" x 16" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	283.06	66.34
23 09 23 12-0503	EA	16" x 20" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	353.82	82.93
23 09 23 12-0504	EA	16" x 24" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	391.42	82.93
23 09 23 12-0505	EA	16" x 28" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	439.36	99.50
23 09 23 12-0506	EA	16" x 32" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	473.68	99.50
23 09 23 12-0507	EA	16" x 36" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	508.03	99.50
23 09 23 12-0508	EA	20" x 12" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	318.08	66.34
23 09 23 12-0509	EA	20" x 16" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	353.82	82.93
23 09 23 12-0510	EA	20" x 20" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	380.44	82.93
23 09 23 12-0511	EA	20" x 24" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	456.52	99.50
23 09 23 12-0512	EA	20" x 28" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	499.43	99.50
23 09 23 12-0513	EA	20" x 32" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	575.54	116.09
23 09 23 12-0514	EA	20" x 36" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	618.45	116.09
23 09 23 12-0515	EA	24" x 12" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	320.35	82.93
23 09 23 12-0516	EA	24" x 16" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	371.85	82.93
23 09 23 12-0517	EA	24" x 20" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	441.07	99.50
23 09 23 12-0518	EA	24" x 24" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	489.48	99.50
23 09 23 12-0519	EA	24" x 28" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	571.07	116.09
23 09 23 12-0520	EA	24" x 32" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	619.48	116.09
23 09 23 12-0521	EA	24" x 36" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	667.89	116.09
23 09 23 12-0522	EA	28" x 12" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	352.24	82.93
23 09 23 12-0523	EA	28" x 16" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	436.23	99.50
23 09 23 12-0524	EA	28" x 20" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	481.41	99.50
23 09 23 12-0525	EA	28" x 24" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	571.07	116.09
23 09 23 12-0526	EA	28" x 28" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	627.55	116.09
23 09 23 12-0527	EA	28" x 32" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	684.02	116.09
23 09 23 12-0528	EA	28" x 36" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	740.51	116.09
23 09 23 12-0529	EA	32" x 12" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	379.35	82.93
23 09 23 12-0530	EA	32" x 16" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	470.76	99.50
23 09 23 12-0531	EA	32" x 20" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	555.70	116.09
23 09 23 12-0532	EA	32" x 24" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	620.39	116.09
23 09 23 12-0533	EA	32" x 28" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	685.09	116.09
23 09 23 12-0534	EA	32" x 32" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	749.80	116.09
23 09 23 12-0535	EA	32" x 36" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	847.67	132.67
23 09 23 12-0536	EA	36" x 12" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	417.38	99.50
23 09 23 12-0537	EA	36" x 16" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	490.16	99.50
23 09 23 12-0538	EA	36" x 20" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	596.14	116.09
23 09 23 12-0539	EA	36" x 24" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	637.34	116.09
23 09 23 12-0540	EA	36" x 28" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	704.85	116.09
23 09 23 12-0541	EA	36" x 32" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	805.54	132.67
23 09 23 12-0542	EA	36" x 36" Aluminum, Air-Foil Control Damper (TAMCO Series 1000)	.....	873.07	132.67
23 09 23 12-0543 Ultra Low Leakage, Air-Foil Control Damper (TAMCO Series 1500) (23 09 23 12-0492)					
23 09 23 12-0544	EA	12" x 12" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	251.95	49.76
23 09 23 12-0545	EA	12" x 16" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	302.75	66.34
23 09 23 12-0546	EA	12" x 20" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	320.41	66.34
23 09 23 12-0547	EA	12" x 24" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	391.11	82.93
23 09 23 12-0548	EA	12" x 28" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	401.78	82.93
23 09 23 12-0549	EA	12" x 32" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	412.43	82.93
23 09 23 12-0550	EA	12" x 36" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	463.22	99.50
23 09 23 12-0551	EA	16" x 12" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	287.18	66.34
23 09 23 12-0552	EA	16" x 16" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	289.24	66.34
23 09 23 12-0553	EA	16" x 20" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	361.55	82.93
23 09 23 12-0554	EA	16" x 24" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	400.69	82.93
23 09 23 12-0555	EA	16" x 28" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	448.96	99.50
23 09 23 12-0556	EA	16" x 32" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	484.68	99.50
23 09 23 12-0557	EA	16" x 36" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	520.39	99.50
23 09 23 12-0558	EA	20" x 12" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	325.80	66.34
23 09 23 12-0559	EA	20" x 16" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	361.55	82.93
23 09 23 12-0560	EA	20" x 20" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	389.01	82.93
23 09 23 12-0561	EA	20" x 24" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	.....	466.82	99.50
23 09 23 12-0562	EA	20" x 28" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)		511.47	99.50



Heating, Ventilating, and Air-Conditioning (HVAC)

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Instrumentation and Control for HVAC 23 09

Direct-Digital Control System for HVAC 23 09 23

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 12-0563	EA	20" x 32" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	589.26	116.09	
23 09 23 12-0564	EA	20" x 36" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	633.90	116.09	
23 09 23 12-0565	EA	24" x 12" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	326.53	82.93	
23 09 23 12-0566	EA	24" x 16" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	380.09	82.93	
23 09 23 12-0567	EA	24" x 20" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	453.08	99.50	
23 09 23 12-0568	EA	24" x 24" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	503.90	99.50	
23 09 23 12-0569	EA	24" x 28" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	587.90	116.09	
23 09 23 12-0570	EA	24" x 32" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	638.70	116.09	
23 09 23 12-0571	EA	24" x 36" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	689.52	116.09	
23 09 23 12-0572	EA	28" x 12" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	361.49	82.93	
23 09 23 12-0573	EA	28" x 16" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	448.01	99.50	
23 09 23 12-0574	EA	28" x 20" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	495.44	99.50	
23 09 23 12-0575	EA	28" x 24" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	587.90	116.09	
23 09 23 12-0576	EA	28" x 28" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	647.17	116.09	
23 09 23 12-0577	EA	28" x 32" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	706.46	116.09	
23 09 23 12-0578	EA	28" x 36" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	765.75	116.09	
23 09 23 12-0579	EA	32" x 12" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	389.42	82.93	
23 09 23 12-0580	EA	32" x 16" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	483.57	99.50	
23 09 23 12-0581	EA	32" x 20" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	570.94	116.09	
23 09 23 12-0582	EA	32" x 24" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	638.70	116.09	
23 09 23 12-0583	EA	32" x 28" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	706.46	116.09	
23 09 23 12-0584	EA	32" x 32" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	774.21	116.09	
23 09 23 12-0585	EA	32" x 36" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	875.13	132.67	
23 09 23 12-0586	EA	36" x 12" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	427.68	99.50	
23 09 23 12-0587	EA	36" x 16" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	503.90	99.50	
23 09 23 12-0588	EA	36" x 20" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	613.30	116.09	
23 09 23 12-0589	EA	36" x 24" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	689.52	116.09	
23 09 23 12-0590	EA	36" x 28" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	765.75	116.09	
23 09 23 12-0591	EA	36" x 32" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	875.13	132.67	
23 09 23 12-0592	EA	36" x 36" Ultra Low Leakage, Aluminum, Air-Foil Control Damper (TAMCO Series 1500)	951.35	132.67	
23 09 23 12-0593 Thermally Insulated Damper (TAMCO Series 9000) (23 09 23 12-0492)					
23 09 23 12-0594	EA	12" x 12" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	293.15	49.76	
23 09 23 12-0595	EA	12" x 16" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	348.47	66.34	
23 09 23 12-0596	EA	12" x 20" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	370.61	66.34	
23 09 23 12-0597	EA	12" x 24" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	451.37	82.93	
23 09 23 12-0598	EA	12" x 28" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	464.35	82.93	
23 09 23 12-0599	EA	12" x 32" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	477.33	82.93	
23 09 23 12-0600	EA	12" x 36" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	532.75	99.50	
23 09 23 12-0601	EA	16" x 12" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	328.38	66.34	
23 09 23 12-0602	EA	16" x 16" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	330.44	66.34	
23 09 23 12-0603	EA	16" x 20" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	413.05	82.93	
23 09 23 12-0604	EA	16" x 24" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	462.49	82.93	
23 09 23 12-0605	EA	16" x 28" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	513.05	99.50	
23 09 23 12-0606	EA	16" x 32" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	557.92	99.50	
23 09 23 12-0607	EA	16" x 36" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	602.79	99.50	
23 09 23 12-0608	EA	20" x 12" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	377.31	66.34	
23 09 23 12-0609	EA	20" x 16" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	413.05	82.93	
23 09 23 12-0610	EA	20" x 20" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	446.24	82.93	
23 09 23 12-0611	EA	20" x 24" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	535.49	99.50	
23 09 23 12-0612	EA	20" x 28" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	591.58	99.50	
23 09 23 12-0613	EA	20" x 32" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	680.83	116.09	
23 09 23 12-0614	EA	20" x 36" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	736.90	116.09	
23 09 23 12-0615	EA	24" x 12" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	367.73	82.93	
23 09 23 12-0616	EA	24" x 16" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	435.03	82.93	
23 09 23 12-0617	EA	24" x 20" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	521.77	99.50	
23 09 23 12-0618	EA	24" x 24" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	586.31	99.50	
23 09 23 12-0619	EA	24" x 28" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	684.02	116.09	
23 09 23 12-0620	EA	24" x 32" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	748.59	116.09	
23 09 23 12-0621	EA	24" x 36" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	813.13	116.09	
23 09 23 12-0622	EA	28" x 12" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	414.35	82.93	
23 09 23 12-0623	EA	28" x 16" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	515.30	99.50	
23 09 23 12-0624	EA	28" x 20" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	575.56	99.50	
23 09 23 12-0625	EA	28" x 24" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	684.02	116.09	
23 09 23 12-0626	EA	28" x 28" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	759.34	116.09	
23 09 23 12-0627	EA	28" x 32" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	834.64	116.09	
23 09 23 12-0628	EA	28" x 36" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	909.95	116.09	
23 09 23 12-0629	EA	32" x 12" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	449.87	82.93	
23 09 23 12-0630	EA	32" x 16" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	560.50	99.50	
23 09 23 12-0631	EA	32" x 20" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	662.51	116.09	
23 09 23 12-0632	EA	32" x 24" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	748.59	116.09	
23 09 23 12-0633	EA	32" x 28" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	834.64	116.09	
23 09 23 12-0634	EA	32" x 32" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	920.71	116.09	
23 09 23 12-0635	EA	32" x 36" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	1,039.94	132.67	
23 09 23 12-0636	EA	36" x 12" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	489.48	99.50	
23 09 23 12-0637	EA	36" x 16" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	586.31	99.50	
23 09 23 12-0638	EA	36" x 20" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	716.30	116.09	
23 09 23 12-0639	EA	36" x 24" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	811.75	116.09	
23 09 23 12-0640	EA	36" x 28" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	908.35	116.09	
23 09 23 12-0641	EA	36" x 32" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	1,038.10	132.67	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 12-0642	EA	36" x 36" Aluminum, Thermally Insulated Damper (TAMCO Series 9000)	.....	1,134.70	132.67
23 09 23 12-0643 Thermally Broken Frame Damper (TAMCO Series 9000 BF) (23 09 23 12-0492)					
23 09 23 12-0644	EA	12" x 12" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	328.17	49.76
23 09 23 12-0645	EA	12" x 16" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	387.32	66.34
23 09 23 12-0646	EA	12" x 20" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	413.30	66.34
23 09 23 12-0647	EA	12" x 24" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	502.58	82.93
23 09 23 12-0648	EA	12" x 28" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	517.54	82.93
23 09 23 12-0649	EA	12" x 32" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	532.50	82.93
23 09 23 12-0650	EA	12" x 36" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	591.85	99.50
23 09 23 12-0651	EA	16" x 12" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	363.40	66.34
23 09 23 12-0652	EA	16" x 16" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	365.46	66.34
23 09 23 12-0653	EA	16" x 20" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	456.83	82.93
23 09 23 12-0654	EA	16" x 24" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	515.03	82.93
23 09 23 12-0655	EA	16" x 28" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	567.54	99.50
23 09 23 12-0656	EA	16" x 32" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	620.18	99.50
23 09 23 12-0657	EA	16" x 36" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	672.83	99.50
23 09 23 12-0658	EA	20" x 12" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	421.08	66.34
23 09 23 12-0659	EA	20" x 16" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	456.83	82.93
23 09 23 12-0660	EA	20" x 20" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	494.88	82.93
23 09 23 12-0661	EA	20" x 24" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	593.87	99.50
23 09 23 12-0662	EA	20" x 28" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	659.67	99.50
23 09 23 12-0663	EA	20" x 32" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	758.66	116.09
23 09 23 12-0664	EA	20" x 36" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	824.46	116.09
23 09 23 12-0665	EA	24" x 12" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	402.75	82.93
23 09 23 12-0666	EA	24" x 16" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	481.72	82.93
23 09 23 12-0667	EA	24" x 20" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	562.97	99.50
23 09 23 12-0668	EA	24" x 24" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	635.75	99.50
23 09 23 12-0669	EA	24" x 28" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	741.70	116.09
23 09 23 12-0670	EA	24" x 32" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	814.51	116.09
23 09 23 12-0671	EA	24" x 36" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	887.29	116.09
23 09 23 12-0672	EA	28" x 12" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	446.08	82.93
23 09 23 12-0673	EA	28" x 16" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	555.68	99.50
23 09 23 12-0674	EA	28" x 20" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	623.62	99.50
23 09 23 12-0675	EA	28" x 24" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	741.70	116.09
23 09 23 12-0676	EA	28" x 28" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	826.64	116.09
23 09 23 12-0677	EA	28" x 32" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	911.56	116.09
23 09 23 12-0678	EA	28" x 36" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	996.48	116.09
23 09 23 12-0679	EA	32" x 12" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	486.12	82.93
23 09 23 12-0680	EA	32" x 16" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	606.64	99.50
23 09 23 12-0681	EA	32" x 20" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	717.46	116.09
23 09 23 12-0682	EA	32" x 24" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	814.51	116.09
23 09 23 12-0683	EA	32" x 28" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	911.56	116.09
23 09 23 12-0684	EA	32" x 32" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	1,008.61	116.09
23 09 23 12-0685	EA	32" x 36" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	1,138.82	132.67
23 09 23 12-0686	EA	36" x 12" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	526.57	99.50
23 09 23 12-0687	EA	36" x 16" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	635.75	99.50
23 09 23 12-0688	EA	36" x 20" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	778.11	116.09
23 09 23 12-0689	EA	36" x 24" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	885.91	116.09
23 09 23 12-0690	EA	36" x 28" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	994.87	116.09
23 09 23 12-0691	EA	36" x 32" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	1,136.99	132.67
23 09 23 12-0692	EA	36" x 36" Aluminum, Thermally Broken Frame Damper (TAMCO Series 9000 BF)	.....	1,245.95	132.67
23 09 23 12-0693 Rectangular Galvanized Volume Control Dampers (23 09 23 12)					
Note: Excludes actuators.					
23 09 23 12-0694	EA	8" x 8" Low Leakage Volume Control Damper (Johnson Controls VOPSN-008X008)	.....	224.94	41.13
23 09 23 12-0695	EA	10" x 10" Low Leakage Volume Control Damper (Johnson Controls VOPSN-010X010)	.....	253.73	45.11
23 09 23 12-0696	EA	12" x 12" Low Leakage Volume Control Damper (Johnson Controls VOPSN-012X012)	.....	283.80	49.76
23 09 23 12-0697	EA	14" x 14" Low Leakage Volume Control Damper (Johnson Controls VOPSN-014X014)	.....	328.02	58.38
23 09 23 12-0698	EA	16" x 16" Low Leakage Volume Control Damper (Johnson Controls VOPSN-016X016)	.....	370.89	66.34
23 09 23 12-0699	EA	18" x 18" Low Leakage Volume Control Damper (Johnson Controls VOPSN-018X018)	.....	374.00	74.63
23 09 23 12-0700	EA	20" x 20" Low Leakage Volume Control Damper (Johnson Controls VOPSN-020X020)	.....	460.28	82.93
23 09 23 12-0701	EA	24" x 24" Low Leakage Volume Control Damper (Johnson Controls VOPSN-024X024)	.....	549.62	99.50
23 09 23 12-0702	EA	32" x 32" Low Leakage Volume Control Damper (Johnson Controls VOPSN-032X032)	.....	707.52	116.09
23 09 23 12-0703	EA	48" x 48" Low Leakage Volume Control Damper (Johnson Controls VOPSN-048X048)	.....	1,056.43	132.67
23 09 23 12-0704	EA	60" x 60" Low Leakage Volume Control Damper (Johnson Controls VOPSN-060X060)	.....	1,951.51	149.26
23 09 23 12-0705	EA	72" x 72" Low Leakage Volume Control Damper (Johnson Controls VOPSN-072X072)	.....	2,482.50	165.84
23 09 23 12-0706 Round Galvanized Control Dampers (23 09 23 12)					
Note: Excludes actuators.					
23 09 23 12-0707	EA	6" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG06)	.....	217.60	46.44
23 09 23 12-0708	EA	8" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG08)	.....	224.34	49.76
23 09 23 12-0709	EA	10" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG10)	.....	234.34	49.76
23 09 23 12-0710	EA	12" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG12)	.....	259.98	56.39
23 09 23 12-0711	EA	14" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG14)	.....	297.05	56.39
23 09 23 12-0712	EA	16" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG16)	.....	321.45	66.34
23 09 23 12-0713	EA	18" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG18)	.....	432.16	69.83
23 09 23 12-0714	EA	20" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG20)	.....	451.94	72.38



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 12-0715	EA	22" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG22).....	479.36	78.03
23 09 23 12-0716	EA	24" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG24).....	507.36	83.67
23 09 23 12-0717 Remote Damper Control (23 09 23 12)				
23 09 23 12-0718	EA	Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-275B).....	310.21	
		For Each 10' Flexible Casing And Wire, Add	43.69	
23 09 23 12-0719	EA	Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-301B).....	319.15	
		For Each 10' Flexible Casing And Wire, Add	43.69	
23 09 23 12-0720 Control Damper Actuators (23 09 23 12)				
23 09 23 12-0721	EA	44 IN-Lb., 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo LMB24-SR).....	601.04	109.61
23 09 23 12-0722	EA	90 IN-Lb., 24 Volt AC/DC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo NMB24-SR).....	655.77	109.61
23 09 23 12-0723	EA	90 IN-Lb., 2 Position, 24 To 240 Volt AC Spring Return Direct Coupled Control Damper Actuator (Belimo NFBUP).....	745.43	109.61
23 09 23 12-0724	EA	175 IN-Lb., 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo AMB24-SR).....	788.27	109.61
23 09 23 12-0725	EA	90 IN-Lb., 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Spring Return Direct Coupled Control Damper Actuator (Belimo NFB24-SR).....	813.70	109.61
23 09 23 12-0726	EA	360 IN-Lb., 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo GMB24-SR).....	913.66	109.61
23 09 23 13 Energy Meters (23 09 23)				
23 09 23 13-0001 Surge Protectors (23 09 23 13)				
23 09 23 13-0002	EA	Surge Protector, T100's, Summit, BCU, UPCM, PCM, TCM (Transtector TR2255).....	376.44	11.02
23 09 23 13-0003	EA	Surge Protector, 1AC Outlet (Transtector TR2251).....	284.38	11.02
23 09 23 13-0004	EA	Surge Protector, 2 AC Outlets (Transtector TR2254).....	442.79	11.02
23 09 23 13-0005	EA	Surge Protector, DB-15 Connection (Transtector TR2259-DLP15).....	239.43	11.02
23 09 23 13-0006	EA	Surge Protector, DB-25 Connection (Transtector TR2259-DLP25).....	239.43	11.02
23 09 23 13-0007	EA	Surge Protector, DB-9 Connection (Transtector TR2259-DLP9).....	239.43	11.02
23 09 23 13-0008	EA	Surge Protector, Individual Wire Connection (Transtector TR2258).....	346.48	11.02
23 09 23 13-0009	EA	Surge Protector, Trane Communication Links (Transtector TR2257).....	213.74	11.02
23 09 23 14 Flow Instruments (23 09 23)				
23 09 23 14-0001 Water Flow Meters (23 09 23 14)				
23 09 23 14-0002	EA	Insertion Electromagnetic Water Flow Meter (Onicon F-3500).....	5,596.26	106.62
		Note: Excludes pipe fittings.		
23 09 23 14-0003 Air Flow Monitoring Stations (23 09 23 14)				
23 09 23 14-0004	EA	Analog Transmitter, 2 Point, 3 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	4,407.72	127.37
		Note: 10' cable, 36" x 24" typical duct size.		
23 09 23 14-0005	EA	Analog Transmitter, 3 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	6,330.10	127.37
		Note: 10' cable, 48" x 36" typical duct size.		
23 09 23 14-0006	EA	Analog Transmitter, 4 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	7,878.99	127.37
		Note: 10' cable, 60" x 48" typical duct size.		
23 09 23 16 Gas Instruments (23 09 23)				
23 09 23 16-0001 Gas Sensors (23 09 23 16)				
23 09 23 16-0002	EA	6-1/4" x 6-1/8" CO2 Sensor, 0-2,000 ppm (Kele WCO-1B).....	2,336.52	66.10
23 09 23 16-0003	EA	Wall Mounted CO2 Sensor, 0-2,000 ppm With LCD Display (Kele CD-AW-LCD).....	1,033.10	44.07
23 09 23 16-0004	EA	CO Monitor/Transmitter, 0 To 250 ppm (Kele GMT-CO-S2).....	1,857.85	66.10
		Note: Solid state sensor.		
23 09 23 16-0005	EA	CO2 Transmitter, Duct Mount, No Display, 0-10 Volt DC Out, 24 Volt AC/Volt DC, 0-10 Or 4-20mA, 0-2,000 ppm Range With CD-AD Duct Probe Assembly (CDE CD-AD-LCD; CD-AD).....	1,011.69	79.33
23 09 23 19 Moisture Instruments (23 09 23)				
23 09 23 19-0001 Relative Humidity Sensors (23 09 23 19)				
23 09 23 19-0002	EA	3% Duct Mounted RH Sensor (Kele HD30K).....	632.18	79.33
23 09 23 19-0003	EA	10K Ohm Thermistor 3% Duct Mounted RH Sensor (Kele HD30K-T3).....	649.28	79.33
23 09 23 19-0004	EA	3% RH Outdoor Air Sensor (Kele HO30K).....	736.54	110.18
23 09 23 19-0005	EA	2% Surface Mounted RH Transmitter (Kele HW20K).....	570.16	44.07
23 09 23 21 Motion Instruments (23 09 23)				
23 09 23 21-0001 Peco Motion Sensors (23 09 23 21)				
23 09 23 21-0002	EA	Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SA200-001).....	208.95	30.98
23 09 23 21-0003	EA	Wall/Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SB200-001).....	204.87	30.98
23 09 23 21-0004	EA	Wall/Ceiling Passive Infrared, 24 Volt, Master Motion Sensor (Peco SD200-001).....	273.31	30.98
23 09 23 21-0005	EA	Wall/Ceiling Mount, Passive Infrared, 24 Volt, Master Time Sensor (Peco SD200-002).....	243.10	30.98
23 09 23 21-0006	EA	Door Switch Occupancy Sensor (Peco SE200-001).....	77.14	30.98

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 21-0007 EA Window Switch Occupancy Sensor (Peco SE200-002).....	71.52	30.98
23 09 23 21-0008 EA Power Pack And Controller (Peco SF200-001).....	129.39	30.98
23 09 23 23 Pressure Instruments (23 09 23)		
23 09 23 23-0001 Pressure Sensors (23 09 23 23)		
23 09 23 23-0002 EA 0 To 0.5" W.C., Differential Pressure Transmitters With NEMA 1 Case (Kele T30-005).....	842.22	93.04
23 09 23 23-0003 EA 0 To 5" W.C., Differential Pressure Transmitters With NEMA 1 Case (Kele T30-050).....	750.36	93.04
23 09 23 23-0004 EA 0.05 To 12" W.C., Adjustable Differential Pressure Switches (Kele AFS-222).....	305.88	93.04
23 09 23 23-0005 EA 0.05 To 2" W.C., Adjustable Differential Pressure Switches (Kele AFS-262).....	316.55	93.04
23 09 23 23-0006 EA 0.4 To 2" W.C., Manual Reset Adjustable Differential Pressure Switches (Kele AFS-460).....	337.44	93.04
23 09 23 23-0007 EA 0.05 To 12" W.C., 1/8" NPT, Adjustable Differential Pressure Switches (Kele AFS-145).....	313.46	93.04
23 09 23 23-0008 EA 0 To 100 psid, Bypass Valve Assembly Option, Water Differential Pressure Transmitter (Kele 360C-P210D-BVA).....	3,079.49	93.04
Note: Excludes pipe fittings.		
23 09 23 23-0009 EA 0 To 60 psid, Bypass Valve Assembly Option, Water Differential Pressure Transmitter (Kele 360C-P160D-BVA).....	3,079.49	93.04
Note: Excludes pipe fittings.		
23 09 23 23-0010 EA Magnahelic Gauge.....	818.15	56.88
23 09 23 27 Temperature Instruments (23 09 23)		
23 09 23 27-0001 Air Temperature Sensors (23 09 23 27)		
23 09 23 27-0002 EA 10K Ohm Thermistor Duct Temperature Sensor (Kele ST-D24).....	238.24	79.33
23 09 23 27-0003 EA 10K Ohm Thermistor Duct Temperature Sensor, 1/2" LB Conduit Fitting (Kele ST-D24-XCO).....	330.10	79.33
23 09 23 27-0004 EA 10K Ohm Thermistor Duct Temperature Sensor With Greenfield Fitting (Kele ST-D24-XG).....	248.81	79.33
23 09 23 27-0005 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing (Kele ST-D24-XH).....	259.65	79.33
23 09 23 27-0006 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 18" Probe (Kele ST-D24-XH-XL18).....	263.25	79.33
23 09 23 27-0007 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 6" Probe (Kele ST-D24-XH-XL6).....	259.69	79.33
23 09 23 27-0008 EA 10K Ohm Thermistor Duct Temperature Sensor With Non-Metallic Handibox Housing (Kele ST-D24-XHP).....	261.61	79.33
23 09 23 27-0009 EA 10K Ohm Thermistor Duct Temperature Sensor With 4" Probe (Kele ST-D24-XL4).....	279.86	79.33
23 09 23 27-0010 EA 10K Ohm Thermistor Duct Temperature Sensor With Weatherproof Housing (Kele ST-D24-XW).....	295.80	79.33
23 09 23 27-0011 EA 10K Ohm Thermistor Outdoor Air Temperature Sensor (Kele ST-O24).....	359.90	110.18
23 09 23 27-0012 EA 10K Ohm Thermistor Outdoor Air Temperature Sensor With 25' Lead (Kele ST-O24-XC25).....	372.17	110.18
23 09 23 27-0013 EA Delta Style Surface Mounted 10K Ohm Thermistor Room Temperature Sensor (Kele BA/10K3-R-N-DF).....	162.07	44.07
23 09 23 27-0014 EA Delta Style Surface Mounted AD592 Room Temperature Sensor (Kele BA/592-10K-R).....	166.59	44.07
23 09 23 27-0015 EA Stainless Steel Plate 1K Ohm Room Temperature Sensor (Kele BA/1K8-SP).....	154.73	44.07
23 09 23 27-0016 Water Temperature Sensors (23 09 23 27)		
23 09 23 27-0017 EA 5" Immersion 20K Ohm Water Temp Sensor (Honeywell C7041D2001).....	191.18	85.25
23 09 23 27-0018 EA Strap-On 20K Ohm Water Temp Sensor (Honeywell C7041K2005).....	436.89	85.25
23 09 23 27-0019 Peco Thermostats (23 09 23 27)		
23 09 23 27-0020 EA 3 Heating Stage, 2 Cooling Stage Programmable Thermostat With Humidification/Dehumidification Control (Peco T12532-IAQ).....	438.13	20.66
23 09 23 27-0021 EA 3 Heating Stage, 2 Cooling Stage Programmable Thermostat (Peco T12532-001).....	391.33	20.66
23 09 23 53 Proprietary Control Systems (23 09 23)		
23 09 23 53-0001 EMCS General Costs (23 09 23 53)		
23 09 23 53-0002 EMCS System Design Services (23 09 23 53-0001)		
Note: Hourly labor rates for use with Site Inspection, Project Management, Engineering, Design, Programming, Training and Technical Support.		
23 09 23 53-0003 HR EMCS Site Inspection Of Existing Facilities.....	254.79	
23 09 23 53-0004 HR EMCS Engineering Project Management.....	254.79	
23 09 23 53-0005 HR EMCS System Engineering, Schematic Design And Layout.....	268.56	
23 09 23 53-0006 HR EMCS System Software Programming And Graphics Programming.....	220.36	
23 09 23 53-0007 HR EMCS Graphics Picture Creation.....	230.69	
23 09 23 53-0008 HR EMCS System Controls Training.....	241.02	
23 09 23 53-0009 HR EMCS On Site System Diagnostics Field Technician.....	247.91	
23 09 23 53-0010 HR EMCS Remote Technical Support Using Phone Or Internet.....	213.47	
23 09 23 53-0011 HR EMCS Travel Time (All Personnel).....	206.59	
23 09 23 53-0012 Field Tests, Checkout And Commissioning (23 09 23 53-0001)		
Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.		
23 09 23 53-0013 PNT EMCS Field Test.....	180.83	
Note: Priced per point.		
23 09 23 53-0014 PNT EMCS Field Checkout And Startup.....	180.83	
Note: Priced per point.		
23 09 23 53-0015 PNT EMCS Field Commissioning.....	180.83	
Note: Priced per point.		
23 09 23 53-0016 EA EMCS Field Balance Support.....	154.94	
Note: Priced per controller.		

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Instrumentation and Control for HVAC 23 09

Direct-Digital Control System for HVAC 23 09 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0017	EMCS System Engineering/Submittal Design And Layout (23 09 23 53-0001) Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.	
23 09 23 53-0018	PNT EMCS System Engineering/Submittal Design And Layout	60.32
Note: Priced per point.		
23 09 23 53-0019	Alerton Controls (23 09 23 53)	
23 09 23 53-0020	EA 50 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-SMALL)	15,736.93
23 09 23 53-0021	EA 150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-MEDIUM)	20,803.88
23 09 23 53-0022	EA Dashboard Option, 150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-MEDIUM)	55,800.91
23 09 23 53-0023	EA Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-LARGE)	41,345.62
23 09 23 53-0024	EA Dashboard Option, Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-LARGE)	109,818.03
23 09 23 53-0025	EA Unlimited Devices, SQL Server Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-ENTERPRISE)	86,170.70
23 09 23 53-0026	EA Dashboard Option, Unlimited Devices, SQL Server Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-ENTERPRISE)	132,642.14
23 09 23 53-0027	EA Alerton Building Suite Tech License (Alerton ABS-3-TECH)	3,472.62
23 09 23 53-0028	EA Enterprise Edition With SQL Server Support, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-ENT1)	49,044.95
23 09 23 53-0029	EA Unlimited Controllers, Unlimited Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-LRG)	35,327.64
23 09 23 53-0030	EA 150 Controllers, 3 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-MED)	20,697.39
23 09 23 53-0031	EA 50 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-SM)	12,001.37
23 09 23 53-0032	EA 10 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-XS)	4,399.20
23 09 23 53-0033	EA 1 Ethernet, 1 MS/TP, BACTalk Control Module (Alerton 715000100)	8,652.10
23 09 23 53-0034	EA Foreign Protocol Converter For P1 Systems, BACTalk Control Module (Alerton BCM-FPCS)	12,918.76
23 09 23 53-0035	EA Modbus Gateway, BACTalk Control Module (Alerton BCM-MDBS)	12,733.12
23 09 23 53-0036	EA V.90/56K Modem, BACTalk Control Module (Alerton BCM-MDM)	4,163.33
23 09 23 53-0037	EA 1 MS/TP, BACTalk Control Module (Alerton 715000300)	5,251.30
23 09 23 53-0038	EA Power Supply, BACTalk Control Module (Alerton BCM-PWS)	3,828.57
23 09 23 53-0039	EA 1 TUX Trunk, BACTalk Control Module (Alerton BCM-TUX)	5,001.76
23 09 23 53-0040	EA Web Server And Configurator CD, BACTalk Control Module (Alerton BCM-WEB)	13,171.27
23 09 23 53-0041	EA BACTalk Field Level Gateway For Modbus (Alerton FLG-MODBUS)	5,178.34
23 09 23 53-0042	EA EXP BACnet Controller (Alerton VLX)	11,642.42
23 09 23 53-0043	EA VLX BACnet High Performance Controller (Alerton VLX-PLATINUM)	14,023.77
23 09 23 53-0044	EA Multiple Segment MS/TP Repeater (Alerton MSTP-REP)	1,904.29
23 09 23 53-0045	EA 4 Inputs, 2 Flow Transducers, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD)	3,212.34
23 09 23 53-0046	EA 4 Inputs, 2 Flow Transducers, 3 Binary Triac Outputs, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD7)	3,463.42
23 09 23 53-0047	EA 4 Inputs, 1 Flow Transducers, 3 Hot-Switching Binary Triac Outputs, 2 Ground-Switching Binary Triac Outputs, Single-Duct VAV Controller (Alerton VAV-SD)	2,596.10
23 09 23 53-0048	EA 4 Universal Inputs, 5 Binary Outputs, 2 Analog Outputs, Single-Duct VAV Controller (Alerton VAV-SD2A)	2,946.08
23 09 23 53-0049	EA 5 Universal Inputs, 6 Binary Outputs, Integral Honeywell Actuator, Single-Duct VAV Controller (Alerton VAVIH-SD)	2,930.86
23 09 23 53-0050	EA 11 Inputs, 8 Binary Triac Outputs, 8 Analog Outputs, BACTalk Field Controller For Central Plant Systems (Alerton VLC-1188)	4,939.38
23 09 23 53-0051	EA 16 Inputs, BACTalk Field Controller (Alerton VLC-1600)	3,556.24
23 09 23 53-0052	EA 16 Inputs, 16 Binary Triac Outputs, BACTalk Field Controller (Alerton VLC-16160)	5,505.51
23 09 23 53-0053	EA 4 Universal Inputs, 4 Binary Outputs, 4 Analog Outputs, Field Controller (Alerton VLC-444)	2,360.18
23 09 23 53-0054	EA 5 Inputs, 5 Binary Outputs, BACTalk Field Controller (Alerton VLC-550)	2,259.73
23 09 23 53-0055	EA 6 Inputs, 2 Binary Triac Outputs, 3 Isolated Relay Outputs, BACTalk Field Controller (Alerton VLC-651R)	2,968.88
23 09 23 53-0056	EA 6 Inputs, 3 Binary Triac Outputs, 3 Isolated Relay Outputs, BACTalk Field Controller (Alerton VLC-660R)	2,968.88
23 09 23 53-0057	EA 8 Inputs, 5 Binary Triac Outputs, 3 Analog Outputs, BACTalk Field Controller (Alerton VLC-853)	3,779.80
23 09 23 53-0058	EA 16 Universal Inputs, 8 Binary Outputs, 8 Analog Outputs, Field Controller (Alerton VLCA-1688)	8,169.85
23 09 23 53-0059	EA 2 Fixed Inputs, 3 Universal Inputs, 6 Binary Outputs, 2 Analog Outputs, VisualLogic Display Controller (Alerton VLD-362)	3,113.44
23 09 23 53-0060	EA Wireless Door Contact Sensor (Alerton AL-OC-DS)	242.43
23 09 23 53-0061	EA One-Speed BACTalk Microset Wall Sensor (Alerton MS-1010-BT)	419.55
23 09 23 53-0062	EA One-Speed BACTalk Microset Wall Sensor With RH Sensor (Alerton MS-1010H-BT)	1,137.74
23 09 23 53-0063	EA Three-Speed BACTalk Microset Wall Sensor (Alerton MS-1030-BT)	1,137.74
23 09 23 53-0064	EA Three-Speed BACTalk Microset Wall Sensor With RH Sensor (Alerton MS-1030H-BT)	876.05
23 09 23 53-0065	EA BACnet-Compliant Wall Sensor (Alerton TS-1050-BT)	267.41
23 09 23 53-0066	EA Wireless Temperature And Humidity Sensor (Alerton WTS-1000-KIT)	1,203.19
23 09 23 53-0067	EA Wireless Temperature And Humidity Sensor With Temperature Adjustment Knob And Manual Override (Alerton WTS-1050-KIT)	1,355.37
23 09 23 53-0068	EA 10 12-Bit Inputs, 12 Binary Triac Outputs Expansion Module (Alerton EXP-10-12-0)	4,924.16
23 09 23 53-0069	EA 10 12-Bit Inputs, 4 Binary Triac Outputs Expansion Module (Alerton EXP-10-4-8)	5,298.46
23 09 23 53-0070	EA 22 12-Bit Inputs Expansion Module (Alerton EXP-22-0-0)	4,975.90
23 09 23 53-0071	EA 50 Devices, Ascent Compass 1 Software, Small License (Alerton Compass-1-SM)	11,414.64
23 09 23 53-0072	EA Global Controller Base Unit (Alerton ACM)	6,214.14
23 09 23 53-0073	EA External Battery Pack For ACM (Alerton ACM-BATT)	1,350.36
23 09 23 53-0074	EA Licenses The ACM For Capacity Of 32 Directly Connected Devices (Alerton ACM032)	1,098.62
23 09 23 53-0075	EA Microset 4 Wall Sensor (Alerton MS4-THC)	1,260.88
23 09 23 53-0076	Automated Logic Controls (23 09 23 53)	
23 09 23 53-0077	EA 0 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0100)	5,679.88
23 09 23 53-0078	EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0320)	11,928.23
23 09 23 53-0079	EA 2 Digital Outputs, 2 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M220nx)	3,604.33
23 09 23 53-0080	EA 4 Digital Outputs, 10 Universal Inputs, 6 Analog Outputs Standalone Control Module (Automated Logic M4106nx)	8,399.28

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0081 EA 8 Digital Outputs, 10 Universal Inputs, 2 Analog Outputs Standalone Control Module (Automated Logic M8102nx)	8,244.39	440.72
23 09 23 53-0082 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M16160)	12,771.35	881.43
23 09 23 53-0083 EA 8 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M880nx)	7,237.59	440.72
23 09 23 53-0084 EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX0320)	7,600.54	330.54
23 09 23 53-0085 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX16160)	11,842.00	881.43
23 09 23 53-0086 EA No Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642)	2,100.58	220.36
23 09 23 53-0087 EA With Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642D)	2,241.34	220.36
23 09 23 53-0088 EA 3 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN341+)	4,373.89	220.36
23 09 23 53-0089 EA 1 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN141+)	4,199.64	220.36
23 09 23 53-0090 EA Air Flow Sensor And Damper Actuator Accessory For ZN341V+ Or ZN141V+ (Automated Logic ZASF)	3,201.61	330.54
23 09 23 53-0091 EA Unlimited Points, Front End Software For Building Control (Automated Logic WC)	23,596.23	
23 09 23 53-0092 EA 500 Point, Front End Software For Building Control (Automated Logic WC500)	14,147.82	
23 09 23 53-0093 EA Enterprise Integration Option, Front End Software For Building Control (Automated Logic WC-ENTERPRISE)	20,463.30	

23 09 23 53-0094 Cypress Envirosystems Controls (23 09 23 53)**23 09 23 53-0095 Wireless Pneumatic Thermostat (23 09 23 53-0094)**

Note: Wireless pneumatic thermostats, hub and repeaters must be installed by installers certified by the manufacturer.

23 09 23 53-0096 EA Two-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2DP)	585.04	13.78
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
	-29.98	
For >200, Deduct		
	-59.90	
23 09 23 53-0097 EA Two-Pipe Reverse Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2RP)	585.04	13.78
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
	-29.98	
For >200, Deduct		
	-59.90	
23 09 23 53-0098 EA Single-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T1DP)	585.04	13.78
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
	-29.98	
For >200, Deduct		
	-59.90	
23 09 23 53-0099 EA Single-Pipe Indirect Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T1RP)	585.04	13.78
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
	-29.98	
For >200, Deduct		
	-59.90	
23 09 23 53-0100 EA Two-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2DP- DB)	665.34	13.78
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
	-34.44	
For >200, Deduct		
	-68.82	
23 09 23 53-0101 EA Two-Pipe Reverse Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2RP- DB)	665.34	13.78
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
	-34.44	
For >200, Deduct		
	-68.82	
23 09 23 53-0102 EA Single-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1DP- DB)	665.34	13.78
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
	-34.44	
For >200, Deduct		
	-68.82	
23 09 23 53-0103 EA Single-Pipe Indirect Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa- T1RP-DB)	665.34	13.78
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
	-34.44	
For >200, Deduct		
	-68.82	
23 09 23 53-0104 EA Wireless Pneumatic Thermostat Blank Cover (Cypress Envirosystems WPT-800-MCOV)	48.21	13.78
Note: Optional cover.		
For >50 To 200, Deduct		
	-1.91	
For >200, Deduct		
	-3.83	
23 09 23 53-0105 EA Green Box Controller (Cypress Envirosystems GBC-830-COM)	5,273.59	13.78
Note: One unit for up to 100 thermostats.		
For 2, Deduct		
	-262.58	
For >2, Deduct		
	-524.69	
23 09 23 53-0106 EA WPT USB Hub (Cypress Envirosystems WPT-800-HUSB)	506.52	13.78
Note: One unit for up to 100 thermostats.		
For 2, Deduct		
	-27.40	
For >2, Deduct		
	-54.74	
23 09 23 53-0107 EA WPT Repeater (Cypress Envirosystems WPT-800-RWAL)	882.76	13.78
Note: One unit for up to 15 thermostats.		
For >5 To 10, Deduct		
	-45.25	
For >10, Deduct		
	-90.42	
23 09 23 53-0108 EA 24 Volt, WPT Repeater (Cypress Envirosystems WPT-800-RWAL24V)	1,084.18	13.78
Note: One unit for up to 15 thermostats.		
For >5 To 10, Deduct		
	-52.62	
For >10, Deduct		
	-105.15	

23 09 23 53-0109 Delta Controls (23 09 23 53)**23 09 23 53-0110 Software (23 09 23 53-0109)**

Note: Excludes programming, set-up and commissioning of application.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0111 EA Orca Software Unlimited Points License (Delta Controls DOW333-USB)	2,661.33	
23 09 23 53-0112 EA Orca Graphics Module, Delta Controls Orca View With Graphics Creation Capabilities (Delta Controls DOW333-I-USB)	4,463.82	
23 09 23 53-0113 EA Orca Historical Module, Delta Controls Historian Package With Unlimited Archiving Trend Logs (Delta Controls DHS330-HL-USB)	9,671.61	
23 09 23 53-0114 EA Web Server Unlimited Points License, Delta Controls Web Server Front End (Delta Controls DWS330-L-USB)	15,308.82	
23 09 23 53-0115 EA Web Server Limited Points (Maximum I/O 2500) License, Delta Controls Web Server Front End (Delta Controls DWS330-M-USB)	7,869.12	
23 09 23 53-0116 EA Web Server Limited Points (Maximum I/O 250) License, Delta Controls Web Server Front End (Delta Controls DWS330-S-USB)	2,661.33	
23 09 23 53-0117 EA 100 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.01)	6,381.18	
23 09 23 53-0118 EA 1,000 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.02)	7,869.12	
23 09 23 53-0119 EA KW Meter With H8163-2400-4-3 Series, With 3, 2,400 Amperes CT's And BACnet MS/TP Interface (Delta Controls H8186-CB)	2,797.68	137.73
23 09 23 53-0120 EA Delta Controls Touch Screen (Delta Controls DHMI-7-I)	3,030.97	
23 09 23 53-0121 EMCS Central Equipment And Controllers (23 09 23 53-0109)		
23 09 23 53-0122 EA Fully Programmable, Native BACnet Building Controller (Delta Controls DSC-1616E + DFM1616)	9,737.73	550.89
Note: Includes 32 Universal Inputs/32 Analog Or Binary Outputs HOA's, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), SubLAN (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS, Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup		
23 09 23 53-0123 EA Fully Programmable, Native BACnet Building Controller, 16 Universal Inputs/16 Analog Or Binary Outputs HOA'S, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), Sublan (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS (Maximum 12 Devices On LINKnet, With 2 DFM Devices) Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup (Delta Controls DSC-1616E)	7,357.02	550.89
23 09 23 53-0124 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146)	5,374.34	550.89
23 09 23 53-0125 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 8 Analog Or Binary Outputs (Delta Controls DAC-1180)	5,374.34	550.89
23 09 23 53-0126 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146)	5,374.34	550.89
23 09 23 53-0127 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3)	5,011.77	550.89
23 09 23 53-0128 EA VAV Controllers Are Native BACnet Application Controllers That Are Fully Programmable, Communicate On A RS-485 LAN Using The MS/TP BACnet Protocol, 3 Universal Inputs, 4 Binary Outputs, Actuator Position Feedback, Supports 4 BACstat Network Sensors On LINKnet For Room Sensing And Control Or 2 Delta Field Modules On LINKnet For I/O Expansion (Delta Controls DVC-304AF)	1,760.21	275.45
23 09 23 53-0129 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240)	1,600.26	275.45
23 09 23 53-0130 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3)	1,706.39	275.45
23 09 23 53-0131 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240)	1,600.26	275.45
23 09 23 53-0132 EA Remotely Expandable I/O To Delta's BACnet Controllers, 16 Universal Inputs, 16 Analog Outputs (Delta Controls DFM-1616)	3,757.94	344.31
23 09 23 53-0133 EA Remotely Expandable I/O To Delta's BACnet Controllers, 4 Universal Inputs, 4 Analog Outputs (Delta Controls DFM-440)	940.92	137.73
23 09 23 53-0134 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 4 Universal Inputs, 4 Binary Triac Outputs (Delta Controls DFM-404)	1,008.36	137.73
23 09 23 53-0135 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 16 Universal Inputs (Delta Controls DFM-1600)	1,183.26	137.73
23 09 23 53-0136 Network, VAV And Special Sensors (23 09 23 53-0109)		
23 09 23 53-0137 EA BACnet MS/TP VAV Network Room Temperature Sensor With LCD Display (Delta Controls DNS-24)	310.95	44.07
23 09 23 53-0138 EA BACnet MS/TP VAV Network Temperature And Humidity Sensor With LCD Display (Delta Controls DNS-H24)	421.54	49.58
23 09 23 53-0139 EA Programmable BACnet MS/TP Thermostat With 8 Button Keypad And LCD Display For DX Unit, Fan Coils And RTU (Delta Controls DAC-T305-G2B)	827.37	20.66
23 09 23 53-0140 Honeywell Controls (23 09 23 53)		
23 09 23 53-0141 EMCS Central Equipment And Controllers (23 09 23 53-0140)		
23 09 23 53-0142 EMCS Network Area Controllers (BACnet Or Lon) (23 09 23 53-0141)		
Note: Includes loading software, software license, loading data base and mounting on wall.		
23 09 23 53-0143 EA Network Area Java Controller Supporting 126 Devices (Honeywell WC2003B2004)	13,351.94	671.41
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 minimum RS-232 serial ports, 1 minimum RS-485 electrically isolated ports, 1 LonWorks port (supports 126 devices), and web user interface software.		
23 09 23 53-0144 EA Network Area Java Controller Supporting 27 Devices (Honeywell WC2003B1022)	9,157.11	671.41
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-232 port, 1 RS-485 port, 1 LonWorks port with driver, Lon tunnel service, BACnet driver, wind river VxWorks OS with Jeode java virtual machine, Niagara control engine and web user interface software (supports 27 device).		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0145	EA	Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201).....	7,030.57	671.41	
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Supports up to 10 devices.					
23 09 23 53-0146	EA	Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-EZ).....	8,722.80	671.41	
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Includes WEB user interface and Enterprise connectivity pack.					
23 09 23 53-0147	EA	Niagara Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LN).....	6,972.30	671.41	
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485 communications. Includes Niagara network ethernet communication between stations.					
23 09 23 53-0148	EA	Web UI Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LU).....	6,972.30	671.41	
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485.					
23 09 23 53-0149	EA	16 Point BACnet IP Network Area Java Controller (Honeywell WEB-216-B).....	7,557.57	671.41	
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.					
23 09 23 53-0150	EA	16 Point Web UI And BACnet IP Network Area Java Controller (Honeywell WEB-216-BU).....	8,171.96	671.41	
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.					
23 09 23 53-0151	EA	16 Point Niagara Network Area Java Controller (Honeywell WEB-216-N).....	7,557.57	671.41	
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.					
23 09 23 53-0152	EA	16 Point Web UI And Niagara Network Area Java Controller (Honeywell WEB-216-NU).....	8,171.96	671.41	
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.					
23 09 23 53-0153	EA	34 Point BACnet IP Network Area Java Controller (Honeywell WEB-234-B).....	8,177.26	671.41	
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.					
23 09 23 53-0154	EA	34 Point Web UI and BACnet IP Network Area Java Controller (Honeywell WEB-234-BU).....	8,791.65	671.41	
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.					
23 09 23 53-0155	EA	34 Point Niagara Network Area Java Controller (Honeywell WEB-216-N).....	8,177.26	671.41	
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.					
23 09 23 53-0156	EA	34 Point Web UI and Niagara Network Area Java Controller (Honeywell WEB-216-NU).....	8,791.65	671.41	
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.					
23 09 23 53-0157	EA	Network Area Java Controller Supporting 27 Devices (Controller Only) (Honeywell WEB-403-AX).....	8,693.67	671.41	
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.					
23 09 23 53-0158	EA	Unrestricted Network Area Java Controller Supporting 27 Devices (Controller Only).....	10,746.06	671.41	
Note: Unrestricted limit on connected devices. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. Honeywell WEB-403-EXP-AX. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.					
23 09 23 53-0159	EA	Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EZ).....	11,378.99	671.41	
Note: Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.					
23 09 23 53-0160	EA	Expanded Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EXP-EZ).....	13,431.39	671.41	
Note: Unrestricted limit on connected devices. Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.					
23 09 23 53-0161	EA	Network Area Java Controller Supporting 124 Devices (Controller Only) (Honeywell WEB-545-AX).....	11,408.12	671.41	
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other WEBs controllers, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Excludes UI service and Enterprise connectivity service.					
23 09 23 53-0162	EA	Easy Pack Network Area Java Controller Supporting 124 Devices (Honeywell WEB-545-EZ).....	15,319.59	671.41	
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other JACES, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Includes WEB-545-AX plus User Interface Station Pack (UI-SP-5XX) and Enterprise Connectivity Station Pack (EC-SP-5XX) bundled as an "easy-order" bundle.					
23 09 23 53-0163		EMCS Network Interfaces (23 09 23 53-0141)			
Note: Includes installation, start-up and tech labor.					
23 09 23 53-0164	EA	Serial LonTalk Adapter For LonWorks Bus And A PC (Honeywell Q7760A2001).....	1,918.11	185.93	
Note: For desktop computer.					
23 09 23 53-0165	EA	Serial LonTalk Card For LonWorks Bus And A PC (Honeywell Q7752B2009).....	1,633.42	123.95	
Note: For laptop computer.					



Heating, Ventilating, and Air-Conditioning (HVAC)

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Instrumentation and Control for HVAC 23 09

Direct-Digital Control System for HVAC 23 09 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0166 EA FTT-10 To FTT-10 Router (Honeywell Q7751A2010)	2,086.28	232.48
23 09 23 53-0167 EA 4FTT-10 To TP/FTT-1250 Multi Port Router (Honeywell Q7751J2002)	3,186.63	335.78
23 09 23 53-0168 EA Two Way Lon Repeater (Honeywell Q7740A1008)	1,653.29	335.78
23 09 23 53-0169 EA FTT Termination Module For Network Bus (Honeywell 209541B)	121.24	41.32
23 09 23 53-0170 DDC Application Specific Controller Assemblies (23 09 23 53-0141)		
Note: Includes submittal generation, installation, field test, checkout and start-up. Includes control enclosure, transformer, terminal strip and ancillary devices. (For example, fan coil unit include valves, actuators with controller and thermostat; VAVs include controller, thermostat and hot water valve if VAV has reheat coil). Excludes graphics and database generation. Excludes discharge air sensor.		
23 09 23 53-0171 EA Up To 10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies	3,083.07	759.25
23 09 23 53-0172 EA >10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies	2,566.60	449.37
23 09 23 53-0173 EA Up To 10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies	3,299.99	889.40
23 09 23 53-0174 EA >10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies	2,783.53	579.52
23 09 23 53-0175 EA Up To 10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies	3,644.06	929.73
23 09 23 53-0176 EA >10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies	3,256.64	696.61
23 09 23 53-0177 EA Up To 10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies	3,876.44	1,069.17
23 09 23 53-0178 EA >10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies	3,457.99	818.22
23 09 23 53-0179 EA Up To 10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	2,733.99	759.14
23 09 23 53-0180 EA >10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	2,217.52	449.37
23 09 23 53-0181 EA Up To 10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	3,018.12	929.73
23 09 23 53-0182 EA >10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	2,501.52	619.76
23 09 23 53-0183 EA Up To 10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies	3,635.79	771.64
23 09 23 53-0184 EA >10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies	3,109.00	630.77
23 09 23 53-0185 EA Up To 10 Field Installed Application Specific Fan Coil Unit Controller Assemblies	3,919.91	1,069.16
23 09 23 53-0186 EA >10 Field Installed Application Specific Fan Coil Unit Controller Assemblies	3,392.98	710.65
23 09 23 53-0187 EA Up To 10 Factory Installed Application Specific Unit Ventilator Controller Assemblies	4,582.91	1,069.16
23 09 23 53-0188 EA >10 Factory Installed Application Specific Unit Ventilator Controller Assemblies	4,113.00	683.11
23 09 23 53-0189 EA Up To 10 Field Installed Application Specific Unit Ventilator Controller Assemblies	5,151.18	1,069.16
23 09 23 53-0190 EA >10 Field Installed Application Specific Unit Ventilator Controller Assemblies	4,681.12	800.18
23 09 23 53-0191 DDC Programmable Controller Assemblies (23 09 23 53-0141)		
Note: Includes installation, field test, checkout and start-up. Includes control enclosure, transformer and terminal strip only. Excludes ancillary devices. Excludes submittal generation/system engineering and database generation. See CSI section 23 09 23 53-0198 for additional components.		
23 09 23 53-0192 EA 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies	3,139.68	821.25
23 09 23 53-0193 EA Oversized Enclosure 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies	3,641.82	821.25
23 09 23 53-0194 EA 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies	4,874.33	965.86
23 09 23 53-0195 EA Oversized Enclosure 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies	5,376.46	965.86
23 09 23 53-0196 EA 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies	8,866.47	1,131.13
23 09 23 53-0197 EA Oversized Enclosure 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies	9,446.91	1,131.13
23 09 23 53-0198 EMCS Optional DDC Controller Hardware (23 09 23 53-0141)		
Note: Used to expand the capacity of DDC programmable controller assemblies.		
23 09 23 53-0199 EA 6 DO (Repay), 3 AI, 3 DI AHU Controller (Honeywell W7750A2005)	603.80	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0200 EA 6 AI, 5 DI, 8 DO (Triac) AHU Controller (Honeywell W7750B2011)	697.81	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0201 EA 3 AO, 6 AI, 5 DI, 5 DO (Triac) AHU Controller (Honeywell W7750C2001)	730.92	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0202 EA VAV Controller Compatible Printed Wiring Board (Honeywell W7751B2010)	689.87	
23 09 23 53-0203 EA VAV Controller With Internally Wired Subbase (Honeywell W7751D2016)	700.46	
23 09 23 53-0204 EA VAV Controller With Externally Wired Subbase (Honeywell W7751F2011)	684.57	
23 09 23 53-0205 EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751H2025)	589.24	
23 09 23 53-0206 EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751J2004)	512.44	
23 09 23 53-0207 EA Fan Coil Unit Controller With Electric Reheat Relay (Honeywell W7752F2002)	750.78	
23 09 23 53-0208 EA Fan Coil Unit Controller Without Electric Reheat Relay (Honeywell W7752G2000)	671.33	
23 09 23 53-0209 EA Unit Ventilator Controller With Heating, Cooling, Actuator And Fan Control (Honeywell W7753A2002)	741.51	
23 09 23 53-0210 EA Building Manager, Monitor And Control HVAC Equipment (Honeywell W7760A2011)	1,574.38	
23 09 23 53-0211 EA Plant Controller, Monitor And Control HVAC Equipment (Honeywell W7760C2017)	1,958.38	
23 09 23 53-0212 EA Remote IO Device For Ancillary Point Monitoring And Control (Honeywell W7761A2002)	978.53	
23 09 23 53-0213 EA Remote IO, UUKL-UL 864 Approved (Honeywell W7761A2010)	963.96	
23 09 23 53-0214 EA Hydronic Controller Without Wall Module (Honeywell W7762B1027)	472.71	
23 09 23 53-0215 EA Hydronic Controller With Built-in Wall Module (Honeywell W7763C1016)	537.59	
23 09 23 53-0216 EA IO Module, 24 Volt AC Without Overrides (Honeywell XFC3A06001)	993.09	
23 09 23 53-0217 EA IO Module, 24 Volt AC With Overrides (Honeywell XFC3D06001)	1,061.95	
23 09 23 53-0218 EA AI Module (Honeywell XFL521B)	664.71	
23 09 23 53-0219 EA AO Module (Honeywell XFL522B)	664.71	
23 09 23 53-0220 EA DI Module (Honeywell XFL523B)	664.71	
23 09 23 53-0221 EA DO Module (Honeywell XFL524B)	664.71	
23 09 23 53-0222 EA Distributed IO, Lonwork Bus Connector Module With Endplate (Honeywell XSL511)	117.85	
23 09 23 53-0223 EA Distributed IO, Terminal Block For AI, AO And DI Modules (Honeywell XSL513)	222.45	
23 09 23 53-0224 EA Distributed IO, Terminal Block For DO Modules (Honeywell XSL514)	218.48	
23 09 23 53-0225 EA Lon Analog IO Module, 24 Volt AC/DC, 10 Digital Inputs (Honeywell XIO-10DI)	668.68	
23 09 23 53-0226 EA Lon Hub (Honeywell XIO-HUB)	99.31	
23 09 23 53-0227 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Outputs (Honeywell XIO-4AO)	668.68	
23 09 23 53-0228 EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Inputs (Honeywell XIO-4DI)	615.72	
23 09 23 53-0229 EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Outputs (Honeywell XIO-4DO)	615.72	
23 09 23 53-0230 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Inputs (Honeywell XIO-4NTC)	648.82	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0231	EA	Lon Analog IO, 24 Volt AC/DC, 4 Analog PT1000 Inputs (Honeywell XIO-4PT1000).....	648.82	
23 09 23 53-0232	EA	Lon Analog IO, 24 Volt AC/DC, 8 Analog Inputs (Honeywell XIO-8AI)	933.51	
23 09 23 53-0233	EA	16 Point IO Module For Network Area Controllers (Honeywell WEB-IO-16)..... Note: Includes 8 universal inputs, 4 relay outputs, and 4 analog outputs.	1,101.67	
23 09 23 53-0234	EA	34 Point IO Module For Network Area Controllers (Honeywell W7750A2005)	2,341.05	
		Note: Includes 16 universal inputs, 10 relay outputs, and 8 analog outputs.		
23 09 23 53-0235		EMCS Software (23 09 23 53-0140)		
23 09 23 53-0236		Software Packages And License (23 09 23 53-0235) Note: Includes installation on equipment.		
23 09 23 53-0237	EA	On Board Programming Tool For Network Area Controllers (Honeywell WP-AX-WEB)..... Note: Requires UI services to be installed on NAC.	746.81	
23 09 23 53-0238	EA	Software Upgrade To Provide Unrestricted Connected Device Limit (Honeywell WEB-403-EXUP-AX)..... Note: Upgrade existing network area controller. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.	2,851.62	
23 09 23 53-0239	EA	WEBStation-AX Software For Windows (Honeywell WEB-S-AX)	8,341.99	
		Note: Includes Archon database. WEBs controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes one copy of WP-AX (WEBPro-AX).		
23 09 23 53-0240	EA	Small Building WEBStation-AX Based Software (Honeywell WEB-S-AX-SBS)	4,965.47	
		Note: For up to 3 NAC controllers. NAC controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes Archon database.		
23 09 23 53-0241	EA	Upgrade Small Building To Large Building Software	5,632.28	
		Note: Upgrade WEB-S-AX-SBS to WEB-S-AX.		
23 09 23 53-0242	EA	Additional Copy Of WEBPro-AX (Honeywell WEB-S-AX-W)	3,948.00	
		Note: One copy is included with WEB-S-AX and WEBStation-AX.		
23 09 23 53-0243	EA	WEBs Energy Suite (WES) Base Software (Honeywell WES-BASE-AX)	7,053.07	
		Note: Includes license for 10 points of E ² Profiler and 2 licensed meters of Cost Profiler. Limit of one WES-BASE per WEBStation-AX Supervisor. Additional E ² Profiler point requirements or Cost Profiler meter requirements may use one or any combination of point/meter bundles. One WES-BASE required per WES project.		
23 09 23 53-0244	EA	Perpetual License One Meter Point Bundle Of A Cost Profiler Meter And Two E ² Profiler Points (Honeywell WES-CP-AX)	902.51	
		Note: Can be combined with the required single instance of WES-BASE as well as with any combination of other EP points and CP meters.		
23 09 23 53-0245	EA	Perpetual License For One Point Of E ² Profiler (Honeywell WES-E2-AX)	591.34	
		Note: Can be combined with the required single instance of WES-BASE as well as with any number of other EP Points and Cost Profiler meters.		
23 09 23 53-0246	EA	Perpetual License For An Unlimited Bundle Of E2 Points And CP Meters	38,307.72	
		Note: Sold on a per server basis. Purchase of this product must be accompanied by VES-M1-ENT-AX maintenance. The first year price of maintenance is included with VES-ENT-AX.		
23 09 23 53-0247	EA	Annual Maintenance For Enterprise WEBs-AX Energy Suite (Honeywell WES-M1-ENT-AX)	34,943.72	
		Note: The first year cost of VES-M1-ENT-AX is included with VES-ENT-AX. After the first year VES-M1-ENT-AX maintenance fee will be invoiced annually.		
23 09 23 53-0248	EA	Standard WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX)	13,302.16	
23 09 23 53-0249	EA	Small WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX-SBS)	9,925.64	
23 09 23 53-0250	EA	Add 500 Modbus TCP Points To WEBStation With WS-OSD Option (Honeywell WS-MTCP-500)	2,869.38	
23 09 23 53-0251	EA	Add 500 OPC Points To WEBStation With WS-OSD Option (Honeywell WS-OPC-500)	2,869.38	
23 09 23 53-0252	EA	Vykon Oracle Driver For Support Of Oracle Database (Honeywell WS-ORCL)	19,861.88	
		Note: Excludes Oracle.		
23 09 23 53-0253	EA	Open System Driver Option (Honeywell WS-SNMP-500)	2,648.25	
		Note: Adds 25 points each of BACnet IP, OPC (client), Modbus TCP and SNMP to a standard WEBStation. Can be purchase with the WS or added later. Web Supervisor required to purchase this option.		
23 09 23 53-0254	EA	Add 500 SNMP Points To WEBStation With WS-OSD Option (Honeywell WS-SNMP-500)	2,869.38	
23 09 23 53-0255	EA	WEBStation Software WS-1 And First Copy Of WEBPro Software (Honeywell ZW2000A1003)	7,503.82	
		Note: For a single Honeywell WEB NP controller. Excludes software keys for the additional nodes.		
23 09 23 53-0256	EA	WEBStation Additional Node (Honeywell ZW2000B1002)	2,869.38	
23 09 23 53-0257	EA	WEBStation Software And 20 Pack Of Node Software Keys (Honeywell ZW2000C1001)	48,110.76	
23 09 23 53-0258	EA	WEBStation Software And 50 Pack Of Node Software Keys (Honeywell ZW2000D1000)	88,275.44	
23 09 23 53-0259	EA	WEBStation Software And 100 Pack Of Node Software Keys (Honeywell ZW2000E1009)	154,481.69	
23 09 23 53-0260	EA	Master WEBStation Software For Monitoring Multiple WEBStations (Honeywell ZW2000F1008)	7,944.75	
23 09 23 53-0261	EA	Additional Master WEBStation Software Licenses (Honeywell ZW200G1007)	3,972.38	
23 09 23 53-0262	EA	Additional Copies Of Workplace Pro WP-1 (Web Pro) (Honeywell ZW2001A1001)	3,132.34	
23 09 23 53-0263	EA	Upgrade Existing NAC To Provide Unrestricted Connected Device Limit (Honeywell WC2003B1055)	3,447.47	
		Note: As with other WEBs, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0264		Initial Database Generation (23 09 23 53-0235)		
23 09 23 53-0265	PNT	Database Generation For Central Plant	92.41	
23 09 23 53-0266	PNT	Database Generation For Programmable Controller	92.41	
		Note: For VAV AHU, large CV AHU, or heat exchanger, etc.		
23 09 23 53-0267	EA	Database Generation For Application Specific Controller	92.41	
		Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.		
23 09 23 53-0268	EA	Replication Of Database Generation For Application Specific Controller	64.32	
		Note: Price per copy made.		
23 09 23 53-0269	EA	Database Generation For Remote IO Modules, Sensors, etc.	64.32	
23 09 23 53-0270		Application Software Programs (23 09 23 53-0235)		
23 09 23 53-0271	EA	Optimum Start/Stop Program	128.91	
		Note: Priced per controller requiring optimum start programming.		
23 09 23 53-0272	EA	Duty Cycling Program	60.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0273 EA Demand Limiting Program Note: Priced per controller requiring optimum start programming.	113.07	
23 09 23 53-0274 Color Graphics Generation (23 09 23 53-0235) Note: Priced per page.		
23 09 23 53-0275 EA Single Site Home Page Graphics Page With HTML Navigation Code	2,310.75	
23 09 23 53-0276 EA Multi Site Home Page Graphics Page With HTML Navigation Code	4,102.65	
23 09 23 53-0277 EA Color Graphics Page For Central Plant	1,049.87	
23 09 23 53-0278 EA Color Graphics Page For Building Floor Plan	969.44	
23 09 23 53-0279 EA Replication Of Color Graphics Page For Central Plant	526.66	
23 09 23 53-0280 EA Color Graphics Page For Programmable Controller	1,181.13	
Note: For VAV AHU, large CV AHU, or heat exchanger, etc.		
23 09 23 53-0281 EA Replication Of Color Graphics Page For Programmable Controller	252.58	
Note: Priced per copy made.		
23 09 23 53-0282 EA Color Graphics Page For Application Specific Controller	1,092.43	
Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.		
23 09 23 53-0283 EA Replication Of Color Graphics Page For Application Specific Cont	109.22	
Note: Priced per copy made.		
23 09 23 53-0284 Sensors, Actuators And Control Devices (23 09 23 53-0140) Note: Includes installation, startup, checkout and miscellaneous parts for installation. Excludes conduit, wire and cable. Excludes engineering and programming labor. Each device is considered one control point. No engineering or programming time required for replacement parts.		
23 09 23 53-0285 Special Sensors (23 09 23 53-0284)		
23 09 23 53-0286 EA Dewpoint Sensor (Honeywell C7232B1014)	2,387.81	85.25
23 09 23 53-0287 EA Enthalpy Sensor -25 To 125 F	2,491.55	85.25
23 09 23 53-0288 EA Outdoor Mounted Temperature And Humidity Transmitter (Honeywell H7635C1002)	1,128.30	170.51
23 09 23 53-0289 EA Freezestat (Honeywell L482A1004)	777.02	284.12
23 09 23 53-0290 EA Wall Mounted Occupancy Sensor	557.94	85.25
23 09 23 53-0291 EA Ceiling Mounted Occupancy Sensor	443.58	85.25
23 09 23 53-0292 EA I/P Positioner With Gauge	522.40	85.25
23 09 23 53-0293 EA Non-Communicating Duct Mounted Smoke Detector With Sampling Tube	625.43	85.25
23 09 23 53-0294 EA EP Transducer	522.40	56.88
23 09 23 53-0295 EA Electric Heat Sequencer	829.18	113.62
23 09 23 53-0296 Meters (23 09 23 53-0284)		
23 09 23 53-0297 EA 208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer	5,327.98	681.74
23 09 23 53-0298 EA 208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer With LON interface	7,733.05	795.36
23 09 23 53-0299 EA 1 To 300 Amperes, Current Transformer For KW Meter	1,856.68	284.12
23 09 23 53-0300 EA 300 To 800 Amperes, Current Transformer For KW Meter	2,123.96	284.12
23 09 23 53-0301 EA 800 To 2,400 Amperes, Current Transformer For KW Meter	2,636.55	284.12
23 09 23 53-0302 Direct Coupled Actuators (23 09 23 53-0284)		
23 09 23 53-0303 EA 44 IN-Lb., 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4105A1002)	712.04	109.45
23 09 23 53-0304 EA 88 IN-Lb., 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4110A1200)	787.34	109.45
23 09 23 53-0305 EA 175 IN-Lb., 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4120A1209)	916.81	109.45
23 09 23 53-0306 EA 44 IN-Lb., 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8105A1008)	667.98	109.45
23 09 23 53-0307 EA 88 IN-Lb., 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8110A1206)	748.96	109.45
23 09 23 53-0308 EA 175 IN-Lb., 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8120A1205)	829.15	109.45
23 09 23 53-0309 EA 44 IN-Lb., 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator	753.39	109.45
23 09 23 53-0310 EA 88 IN-Lb., 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7510A2206)	868.86	109.45
23 09 23 53-0311 EA 175 IN-Lb., 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7520A2205)	993.49	109.45
23 09 23 53-0312 EA 44 IN-Lb., 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7505A2209)	607.90	109.45
23 09 23 53-0313 EA 88 IN-Lb., 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7510A2209)	669.39	109.45
23 09 23 53-0314 EA 175 IN-Lb., 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6120A1200)	792.91	109.45
23 09 23 53-0315 EA 175 IN-Lb., 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7220A2007)	851.05	109.45
23 09 23 53-0316 EA 300 IN-Lb., 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6134A10030)	850.33	109.45
23 09 23 53-0317 EA 300 IN-Lb., 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7234A2008)	1,009.78	109.45
23 09 23 53-0318 EA Pneumatic Spring Return Damper Actuator Without Positive Positioner (Honeywell MP909E1018)	633.10	109.45
23 09 23 53-0319 EA Pneumatic Spring Return Damper Actuator With Positive Positioner (Honeywell MP909H1368)	1,116.12	109.45
23 09 23 53-0320 EA Foot Mount Kit With Damper Linkage And Connectors For Direct Coupled Actuator	474.29	109.45
23 09 23 53-0321 EA Direct Coupled Damper Actuator Enclosure For Outdoor Use	726.35	109.45
23 09 23 53-0322 Thermostats (23 09 23 53-0140)		
23 09 23 53-0323 Electric And Electronic Thermostats (23 09 23 53-0322) Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as one control point.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0324 EA Line Voltage 120 Volt, Heat/Cool Thermostat (Honeywell T651A3018)	245.75	20.66
23 09 23 53-0325 EA Electronic Non-Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell TH5320)	264.83	20.66
23 09 23 53-0326 EA Electronic Programmable Heating/Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6110)	243.63	20.66
23 09 23 53-0327 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6220)	272.67	20.66
23 09 23 53-0328 EA Electronic Programmable Three Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6320)	294.51	20.66
23 09 23 53-0329 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH8321)	434.44	20.66
23 09 23 53-0330 EA Humidity Control Electronic Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7351F)	633.73	20.66
23 09 23 53-0331 EA Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350H)	1,027.80	20.66
23 09 23 53-0332 EA Modulating Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350M)	1,096.27	20.66
23 09 23 53-0333 Pneumatic Thermostats (23 09 23 53-0322) Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as two control point.		
23 09 23 53-0334 EA Pneumatic Thermostat (Honeywell TP970B2182)	341.22	20.66
23 09 23 53-0335 Thermostats Guards (23 09 23 53-0322)		
23 09 23 53-0336 EA 9-3/4" x 7-1/4" x 3-3/8" Universal Thermostat Guard (Honeywell TG512A1009)	82.56	20.66
23 09 23 53-0337 EA 7-1/2" x 6-1/2" x 2-15/16" Universal Thermostat Guard (Honeywell TG511)	98.46	20.66
23 09 23 53-0338 EA 5-7/8" x 5-7/8" x 2-1/2" Deep Universal Thermostat Guard (Honeywell TG510)	92.73	20.66
23 09 23 53-0339 Johnson Controls (23 09 23 53)		
23 09 23 53-0340 Software (23 09 23 53-0339) Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0341 EA 5 Concurrent User Application And Data Server (Johnson Controls MS-ADS05U-0)	21,579.14	
23 09 23 53-0342 EA 10 Concurrent User External Application And Data Server (Johnson Controls MS-ADX10U-0)	25,519.94	
23 09 23 53-0343 EA N2 Controllers Commissioning And Download Software (Johnson Controls MW-MTOOL-0)	1,262.62	
23 09 23 53-0344 EA N2 Controllers Download Cable Kit (Johnson Controls AS-CBLPRO-2)	1,912.08	
23 09 23 53-0345 EA BACnet FEU Controllers Commissioning And Download Software (Johnson Controls MS-CCTSWO-0)	3,385.36	
23 09 23 53-0346 EA BACnet Controllers Download Bluetooth Converter (Johnson Controls MS-BTCVT-0)	1,273.62	
23 09 23 53-0347 EA New User FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-0)	1,266.24	
23 09 23 53-0348 EA Upgrade FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-6)	462.92	
23 09 23 53-0349 Supervisory Controllers (23 09 23 53-0339)		
23 09 23 53-0350 EA NAE With 1 RS-485, Support For 50 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE3510-2)	9,490.92	550.89
23 09 23 53-0351 EA NAE With 1 RS-485, Support For 100 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE4511-2)	14,688.15	550.89
23 09 23 53-0352 EA NAE With 2 RS-485, Support For 200 Devices (N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE5511-1)	19,896.90	550.89
23 09 23 53-0353 EA NCE, 33 Points, Network Control Engine, 32 N2 Device Support Supervisory Controllers (Johnson Controls MS-NCE2510-0)	7,488.97	550.89
23 09 23 53-0354 Controllers (23 09 23 53-0339)		
23 09 23 53-0355 EA 10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-FEU1610-0)	1,103.18	137.73
23 09 23 53-0356 EA 10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus, Mounting Base And Integral Display (Johnson Controls MS-FEU1620-0)	1,449.72	275.45
23 09 23 53-0357 EA 17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Mounting Base (Johnson Controls MS-FEU2610-0)	1,897.11	275.45
23 09 23 53-0358 EA 17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Integral Display (Johnson Controls MS-FEU2620-0)	2,243.65	275.45
23 09 23 53-0359 EA BACnet MS/TP 4-Point I/O Module With 4 BI, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM1710-0)	904.36	137.73
23 09 23 53-0360 EA BACnet MS/TP 6 Point I/O Module With 2 UI, 2 UO, 2 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM2710-0)	992.73	137.73
23 09 23 53-0361 EA BACnet MS/TP 12 Point I/O Module With 4 UI, 4 UO, 4 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM3710-0)	1,125.28	137.73
23 09 23 53-0362 EA 17 Point I/O Module With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-IQU4710-0)	1,142.94	137.73
23 09 23 53-0363 EA BACnet MS/TP Rooftop Controller For Stand-Alone And Networked Zoning Systems (Johnson Controls TEC2664Z-2)	2,333.82	275.45
23 09 23 53-0364 EA 32-bit, Integrated VAV Controller/Actuator/DPT, 3 UI, 3 BO, and 2 CO; 24 Volt AC; Field Controller Bus And Sensor Actuator Bus (Johnson Controls MS-VMA1630-0)	1,119.27	137.73
23 09 23 53-0365 EA 32-bit, Integrated VAV Controller/Actuator/Pressure Sensor - DPT, 3 UI and 3 BO, 2 CO, 24 Volt AC, and Sensor Actuator Bus (Johnson Controls MS-VMA1930-0)	1,623.24	137.73
Note: Includes 6-pin Sensor Port for use with TE-7xx Series Non-Communicating Sensors and two Ethernet Ports for BACnet/IP Communications		

**Heating, Ventilating, and Air-Conditioning (HVAC)****23****Instrumentation and Control for HVAC 23 09****Direct-Digital Control System for HVAC 23 09 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0366 Master FX Controllers (23 09 23 53-0339)		
23 09 23 53-0367 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X00-000C).....	2,941.71	275.45
23 09 23 53-0368 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X01-000C).....	3,151.11	275.45
23 09 23 53-0369 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X02-000C).....	3,255.17	275.45
23 09 23 53-0370 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X03-000C).....	3,191.93	275.45
23 09 23 53-0371 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X04-000C).....	3,093.10	275.45
23 09 23 53-0372 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X11-000C).....	3,108.95	275.45
23 09 23 53-0373 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X14-000C).....	3,093.10	275.45
23 09 23 53-0374 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X50-000C).....	3,151.34	275.45
23 09 23 53-0375 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X51-000C).....	3,332.19	275.45
23 09 23 53-0376 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X52-000C).....	3,452.75	275.45
23 09 23 53-0377 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X53-000C).....	3,392.46	275.45
23 09 23 53-0378 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X54-000C).....	3,269.06	275.45
23 09 23 53-0379 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X60-000C).....	3,151.34	275.45
23 09 23 53-0380 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X61-000C).....	3,332.19	275.45
23 09 23 53-0381 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X62-000C).....	3,452.75	275.45
23 09 23 53-0382 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X63-000C).....	3,392.46	275.45
23 09 23 53-0383 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X64-000C).....	3,269.06	275.45
23 09 23 53-0384 EA N2 Open Communication Card For FX16 (Johnson Controls LP-NET151-010C).....	351.33	68.86
23 09 23 53-0385 EA LON Communication Card For FX15 and FX16 (Johnson Controls LP-NET152-010C).....	499.69	68.86
23 09 23 53-0386 EA RS-232 Communication Card For FX16 (Johnson Controls LP-NET163-000C).....	392.97	68.86
23 09 23 53-0387 EA BACnet Communications Card For FX16 (Johnson Controls LP-NET164-000C).....	351.33	68.86
23 09 23 53-0388 EA Remote Medium User Interface For FX16 (Johnson Controls LP-DIS60P20-0C).....	971.76	68.86
23 09 23 53-0389 EA Facility Explorer Extension I/O Module (Johnson Controls LP-XT91D00-000C).....	895.45	68.86
23 09 23 53-0390 EA 5 UI, 4 BI, 3 AO, 6 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X01-000C).....	913.32	68.86
23 09 23 53-0391 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X11-000C).....	913.32	68.86
23 09 23 53-0392 EA 5 UI, 4 BI, 3 AO, 6 Relay DO (Manual Overrides For 2 AO And 4 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X51-000C).....	1,002.58	68.86
23 09 23 53-0393 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO (Manual Overrides For 2 AO, 2 Triac DO, And 2 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X61-000C).....	1,002.58	68.86
23 09 23 53-0394 EA 6 UI, 12 BI, 4 AO, 9 Relay DO Expansion I/O Module (Johnson Controls LP-XM14X01-000C).....	1,259.19	68.86
23 09 23 53-0395 EA 6 UI, 12 BI, 4 AO, 4 Triac DO Expansion I/O Module (Johnson Controls LP-XM14X11-000C).....	1,259.19	68.86
23 09 23 53-0396 EA 6 UI, 12 BI, 4 AO, 9 Relay DO (Manual Overrides For 3 AO And 7 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X51-000C).....	1,404.23	68.86
23 09 23 53-0397 EA 6 UI, 12 BI, 4 AO, 4 Triac DO, 5 Relay DO (Manual Overrides For 3 AO, 2 Triac DO, And 5 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X61-000C).....	1,404.23	68.86
23 09 23 53-0398 VAV, Network And Special Sensors (23 09 23 53-0339)		
23 09 23 53-0399 EA 3" x 4-1/2", Surface Or Box Mounted, LCD RH Display, 3% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHR7001-0).....	660.88	44.07
23 09 23 53-0400 EA 3" x 4-1/2", Surface Or Box Mounted, Addressing Switch BACnet Temperature Sensor (Johnson Controls NS-BTN7003-0).....	222.69	44.07
23 09 23 53-0401 EA 3" x 4-1/2", Surface Or Box Mounted, 3% RH Accuracy, BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHN7001-0).....	512.01	44.07
23 09 23 53-0402 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, 2% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint Addressing Switch BACnet Temperature And Humidity Sensor (Johnson Controls NS-BPB7003-0).....	764.70	44.07
23 09 23 53-0403 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, Occupancy Override, Adjustable Temperature Setpoint, BACnet Temperature Sensor (Johnson Controls NS-BTB7001-0).....	255.50	44.07
23 09 23 53-0404 EA 3" x 4-1/2", Surface Or Box Mounted CO2 Sensor, 0 To 2,000 ppm (Johnson Controls NS-BCN7004-0).....	693.45	44.07
23 09 23 53-0405 Sensors - Hard Wired Type (23 09 23 53-0339)		
23 09 23 53-0406 EA Duct Mount Temperature Sensor, Platinum RT, With Handi-Box (Johnson Controls TFDCR00).....	218.11	79.33
23 09 23 53-0407 EA Well Insertion Temperature Sensor, With Stainless 4-1/2" Well (Johnson Controls TIGB1C0).....	185.17	44.07
23 09 23 53-0408 EA BACnet MS/TP Networked, Single Stage Thermostat (Johnson Controls TEC2601-2).....	514.92	20.66
Note: For fan coil units, unit heaters and single stage packaged heating/cooling equipment.		
23 09 23 53-0409 EA BACnet MS/TP Networked Two Outputs, Dehumidification Capability And Three Speed Fan Control Thermostat (Johnson Controls TEC2616-2).....	696.28	20.66
Note: For two or four pipe fan coils, cabinet unit heaters or other equipment using on/off, floating, or proportional 0 to 10 Volt DC control input, three speeds of fan control, and dehumidification capability.		
23 09 23 53-0410 EA BACnet MS/TP Networked Thermostats With Two Outputs (Johnson Controls TEC2627VVT-2).....	515.92	20.66
Note: For VVT systems.		
23 09 23 53-0411 EA BACnet MS/TP Zone Controller For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2).....	677.27	44.07

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0412 EA BACnet Zone Controller With Occupancy Sensor For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2+PIR)	834.22	44.07
23 09 23 53-0413 Melink Intelli-Hood IH3 Controls (23 09 23 53)		
23 09 23 53-0414 Kitchen Ventilation Controllers (23 09 23 53-0413)		
23 09 23 53-0415 EA Fully Programmable Kitchen Ventilation Controller (Melink Intelli-Hood 2SYS-3001).....	11,008.01	550.89
Note: RS-485 communication protocol supports up to 39 Hood Controllers, 10 graphical user interface devices, 10 auxiliary power supplies, and 10 auxiliary light controllers. Modbus VFD communications interface for support of up to 64 variable frequency drives, programmable I/O points. Includes 3 digital inputs, 4 digital outputs, 1 analog output, and 1 analog input. BACnet over TCP/IP Interface, Real-Time Clock with battery back-up.		
23 09 23 53-0416 EA Graphical User Interface (Melink Intelli-Hood 2KPD-3001).....	2,073.99	113.62
Note: Full color 2.5" display and programming interface device. RS-485 communication protocol for interface with main controller.		
23 09 23 53-0417 EA Hood Controller (Melink Intelli-Hood 2SEN-3001)	3,404.33	458.62
Note: 6 point field I/O device, RS-485 communication protocol, supports up to 4 field temperature sensors and 1 optic sensor system.		
23 09 23 53-0418 Kitchen Ventilation Sensors (23 09 23 53-0413)		
23 09 23 53-0419 EA Duct Mount Stainless Steel RTD (Melink Intelli-Hood 2SEN-3005-Q)	614.33	79.33
Note: Includes UL listed mounting compression fitting, stainless steel probe protection sleeve, RJ-45 communication connector.		
23 09 23 53-0420 EA Optic Sensor System For Detection Of Cooking Effluent (Melink Intelli-Hood 2SEN-3004-28)	5,261.34	440.72
Note: Includes air purge unit, infrared emitter/receiver with stainless steel housings. Auto-calibration, 0.2 second response time, conformal-coated circuit boards, purge pipe assembly complete with UL listed compression fittings, communication interface cables and blower box assembly.		
23 09 23 53-0421 Siemens Controls (23 09 23 53)		
23 09 23 53-0422 EA Concealed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1083)	496.57	20.66
23 09 23 53-0423 EA Exposed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1085)	351.29	20.66
23 09 23 53-0424 EA SPST/Manual Reset, 1" To 12" Set Point Range, Differential Static Pressure Airflow Switch (Siemens 141-0575).....	365.51	93.04
23 09 23 53-0425 EA -0.5" To 0.5" WG, Low Differential Pressure Transmitter (Siemens 141-0591)	551.29	93.04
23 09 23 53-0426 EA Spring Clip Mounting Kit For Thermostat (Siemens 182-685).....	83.93	13.78
23 09 23 53-0427 EA Two Position, Pneumatic Circuit, RL243 Switching Relay (Siemens 243-0001)	281.01	137.73
23 09 23 53-0428 EA 3/4" Two Way, Normally Closed, 6.3 Cv, Fx/F, Brass Trim, Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 260-02012)	449.87	20.99
23 09 23 53-0429 EA 1" Three Way, 10 Cv, Fx/F, Stainless Steel Trim. Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 266-02079).....	793.20	38.10
23 09 23 53-0430 EA 1" Three Way, 10 Cv, Fx/F, Brass Trim, 0 To 10 Volt DC, 4 To 20 mA Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 274-03203)	1,607.86	38.10
23 09 23 53-0431 EA 1-1/4" Two Way, 16 Cv, Fx/F, Stainless Steel Trim, 0 To 10 Volt DC Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 298-03006)	1,355.35	48.27
23 09 23 53-0432 EA 36" Rigid Probe, 4 To 20 mA, 20 To 120 Degree F Range, Duct Averaging Sensor (Siemens 535-490-36).....	365.07	79.33
23 09 23 53-0433 EA -58 To 122 Degree F Range, Outside Air Temperature Sensor (Siemens 536-768)	305.26	44.07
23 09 23 53-0434 EA Unit Conditioner Controller With Secure Mode (Siemens 540-110C)	663.63	65.01
23 09 23 53-0435 EA 9-Pin, Female To RJ-11 Cable (Siemens 540-143)	120.87	6.88
23 09 23 53-0436 EA Terminal Box Controller, Electronic Output, For Trane (Siemens 540-800).....	1,075.50	132.22
23 09 23 53-0437 EA MMI Extension Cable (Siemens 545-712)	314.34	6.88
23 09 23 53-0438 EA Remote Pressure Transmitter (Siemens 547-003)	1,588.21	44.07
23 09 23 53-0439 EA Cooling Only, GDE, BACnet Actuating Terminal Equipment Controller (Siemens 550-400).....	977.64	33.05
23 09 23 53-0440 EA BACnet Unit Conditioner Fan Coil Controller (Siemens 550-433).....	851.09	88.15
23 09 23 53-0441 EA Door Lock And Key Assembly (Siemens 567-225)	47.47	27.54
23 09 23 53-0442 EA Insight Advanced Software Package (Siemens 571-010-381-USB)	16,089.31	
Note: Includes one user license and one sentinel key.		
23 09 23 53-0443 EA BACnet Client Option For Insight Advanced Software Package (Siemens 571-188).....	585.84	
23 09 23 53-0444 EA Soft Controller Option For Insight Advanced Software Package (Siemens 571-620)	3,555.73	
23 09 23 53-0445 EA 1" Steam, Normally Open, 10 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03059).....	528.18	12.67
23 09 23 53-0446 EA 2" Steam, Normally Open, 40 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03062)	1,114.32	21.96
23 09 23 53-0447 EA Firefinder XLS Driver, Modular Equipment Controller With RS-485 BLN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, HOA-Ready (Siemens 986-83481C).....	10,559.39	55.09
23 09 23 53-0448 EA SiPass Driver, Modular Equipment Controller With RS-485 ALN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, Modem With HOA (Siemens 986-83482F)	12,440.13	55.09
23 09 23 53-0449 EA 7" x 13-7/16" x 3-3/4" Weather Shield (Siemens ASK75.3U).....	194.90	20.66
23 09 23 53-0450 EA Two Position, 24 Volt AC/Volt DC, Standard Cabling, Dual Auxiliary Switches, Electronic Damper Actuator With Spring Return (Siemens GMA126.1U).....	482.03	53.07
23 09 23 53-0451 EA Modulating, 0 To 10 Volt DC, 24 Volt AC/Volt DC, Standard Cabling, Electronic Damper Actuator With Spring Return (Siemens GMA161.1U)	514.64	53.07
23 09 23 53-0452 EA License To Enable 4 TX-I/O Modules On The Island Bus And FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-36.A)	4,668.72	
23 09 23 53-0453 EA License To Enable FLN Support On PXC-16 or PXC-24 "F" Models (Siemens LSM-FLN)	942.74	
23 09 23 53-0454 EA License To Enable FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-FLN36.A)	3,034.12	
23 09 23 53-0455 EA License To Enable BACnet Field Panel Web Server (PXC-36) Or Web Services (PXC-16/24) (Siemens LSM-FPWEB).....	2,172.01	
23 09 23 53-0456 EA License To Enable 4 TX-I/O Modules On The Island Bus On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-IB36.A)	1,867.16	
23 09 23 53-0457 EA License To Enable SNMP Agent License To Enable SNMP Agent (Siemens LSM-SNMP)	5,520.18	
23 09 23 53-0458 EA 16-Switch HOA Upgrade Kit (Siemens PXA16-M).....	879.22	2.76
23 09 23 53-0459 EA 16-Switch HOA Upgrade Kit (Extended Temp, UL 916) With HMI Cable (Siemens PXA16-MR)	981.08	11.02



Heating, Ventilating, and Air-Conditioning (HVAC)

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0460 EA 8-Switch HOA Upgrade Kit (Siemens PXA8-M).....	497.78	2.76
23 09 23 53-0461 EA 18" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC18).....	498.79	77.12
23 09 23 53-0462 EA 19" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC19).....	864.90	77.12
23 09 23 53-0463 EA 34" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC34).....	1,211.19	88.15
23 09 23 53-0464 EA Serial Cable Required For HOA Or PXM10T/S Connection To Non-Rooftop Variants Of The 16-Point And 24- Point Compact Series (Siemens PXA-HMI.CABLEP5).....	45.19	13.78
23 09 23 53-0465 EA 115 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB115V192VA).....	868.53	34.43
23 09 23 53-0466 EA 115 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB115V384VA).....	1,392.43	34.43
23 09 23 53-0467 EA 230 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB230V192VA).....	1,061.55	34.43
23 09 23 53-0468 EA 230 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB230V384VA).....	1,613.04	34.43
23 09 23 53-0469 EA PXC Modular, BACnet/IP Or MS/TP ALN, P1 Or MS/TP FLN, PXX-485.3 Is Also Required As The Connection To The FLN Devices (Siemens PXC00-E96.A).....	4,717.78	68.86
23 09 23 53-0470 EA PXC Modular Series For BACnet Networks, TX-I/O Module, 96 Node (Siemens PXC100-E96.A).....	6,100.78	68.86
23 09 23 53-0471 EA Peer To Peer, TX-I/O, 96 Node, APOGEE Automation System, Programmable Controller - Modular (Siemens PXC100-PE96.A).....	6,949.87	68.86
23 09 23 53-0472 EA 16 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC16.2-E.A).....	1,915.04	68.86
23 09 23 53-0473 EA 16 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC16.2-EF.A).....	2,289.05	68.86
23 09 23 53-0474 EA 16 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC16.2-M.A).....	2,041.24	68.86
23 09 23 53-0475 EA 24 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC24.2-E.A).....	2,790.47	68.86
23 09 23 53-0476 EA 24 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2-EF.A).....	3,048.71	68.86
23 09 23 53-0477 EA 24 Point, BACnet/IP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-ER.A).....	2,984.65	68.86
23 09 23 53-0478 EA 24 Point, BACnet/IP ALN, Rooftop, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2- ERF.A).....	3,216.03	68.86
23 09 23 53-0479 EA 24 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC24.2-M.A).....	2,978.81	68.86
23 09 23 53-0480 EA 24 Point, MS/TP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-MR.A).....	3,214.45	68.86
23 09 23 53-0481 EA 36 Point, BACnet/IP Or MS/TP ALN Compact Programmable Controller (Siemens PXC36-E.A).....	4,142.06	68.86
23 09 23 53-0482 EA 36 Point, BACnet/IP Or MS/TP ALN, Island Bus, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC36-EF.A).....	8,260.78	68.86
23 09 23 53-0483 EA License To Enable The Island Bus On PXC00-E96.A And PXC00-PE96.A (Siemens PXF-TXIO.A).....	1,400.65	
23 09 23 53-0484 EA Controller Mounted Operator Display Module With Point Monitor And Optional Blue Backlight (Siemens PXM10S).....	560.40	34.43
23 09 23 53-0485 EA Controller Mounted Operator Display Module (Siemens PXM10T).....	409.16	34.43
23 09 23 53-0486 EA Provides FLN Support For The PXC Modular (Siemens PXX-485.3).....	931.39	27.54
Note: Includes Three RS-485 P1 FLN Connections Or One MS/TP FLN Connection, Maximum Of 96 Devices Supported		
23 09 23 53-0487 EA Full Feature With Display, Override And Temperature Setpoint Adjustment, Room Temperature Sensor, 10K Ohm Type III Thermistor (Siemens QAA22SS.FWSN).....	316.72	34.43
23 09 23 53-0488 EA Digital Temperature Room Unit for TEC, Sensing, Setpoint, Override, Display, No Logo (Siemens QAA2280.FWNC).....	310.82	44.07
23 09 23 53-0489 EA 4" Platinum, 1,000 Ohm, 385 Alpha Probe, Immersion Temperature Sensor (Siemens QAE2012.010).....	155.38	34.43
23 09 23 53-0490 EA 8" Platinum, 1,000 Ohm, 385 Alpha Probe, Duct Temperature Sensor (Siemens QAM2012.020).....	116.70	34.43
23 09 23 53-0491 EA 24" Flexible Averaging Probe (Siemens QAM2012.750).....	341.32	68.86
23 09 23 53-0492 EA 2 Meter Flexible Duct Temperature Sensor With Four Mounting Clamps (Siemens QAM2120.200).....	218.90	51.64
23 09 23 53-0493 EA 10 HP, 240 Volt, NEMA 2 Variable Frequency Drive (Siemens SED2-7.5/22X).....	3,795.64	443.75
23 09 23 53-0494 EA Two Sets, Address Keys 1 - 12, Accessory For TX-I/O Module (Siemens TXA1.K12).....	41.23	13.78
23 09 23 53-0495 EA Labels For HOA And TX-I/O Modules (Siemens TXA1.LLT-P100).....	0.92	
23 09 23 53-0496 EA 16 Digital Input Module (Siemens TXM1.16D).....	695.67	13.78
23 09 23 53-0497 EA 6 Digital Output Relay Points, Manual Override, Digital Output Module (Siemens TXM1.6R-M).....	1,052.50	13.78
23 09 23 53-0498 EA 8 Universal Points, Local Override/Identification, Digital Output Module (Siemens TXM1.8X-ML).....	1,689.30	27.54
23 09 23 53-0499 EA 1.2 A, 4A Fuse, Power Supply (Siemens TXXS1.12F4).....	516.49	8.27
23 09 23 53-0500 Trane Controls (23 09 23 53)		
23 09 23 53-0501 Software (23 09 23 53-0500)		
Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0502 EA Summit + Building Management Package (Trane 40201152).....	7,999.26	
23 09 23 53-0503 EA Summit Current Version Software (Trane 40201111).....	4,525.33	
23 09 23 53-0504 EA Summit Customer Upgrade Package, Currently V10-V16 To V17 (Trane 40201113).....	1,088.90	
23 09 23 53-0505 EA Rover Service Software And Hardware, Complete Kit (Trane X1365150001).....	4,498.12	
23 09 23 53-0506 EA Tracer SC With -X1365152401 - BACnet (2 Pack) (Trane BMSC000AAA011000).....	12,399.57	
23 09 23 53-0507 EMCS Central Equipment And Controllers (23 09 23 53-0500)		
23 09 23 53-0508 EA Summit BTMX Operator Display Upgrade (Trane 40201224).....	7,085.05	550.89
23 09 23 53-0509 EA Summit BTMX Retrofit Kit For BMTS And BMTW BCU (Trane 49500531).....	15,922.39	550.89
23 09 23 53-0510 EA Summit BTMX Retrofit Kit For Tracer 100 (Trane 49500532).....	15,922.39	550.89
23 09 23 53-0511 EA Summit BTMX, 120 Volt, (Trane BMTX-001-A-A-B0-00).....	14,003.49	550.89
23 09 23 53-0512 EA Summit BTMX, 120 Volt, With Display (Trane BMTX-001-A-A-B0-10).....	16,234.57	550.89
23 09 23 53-0513 EA Summit CCP Upgrade ROM Kit (Trane 40201095).....	248.81	34.43
23 09 23 53-0514 EA Summit Comm5 Repeater (Trane 49500457).....	1,920.68	275.45
23 09 23 53-0515 EA AHU Controller MP580/581 E Board Only (Trane 40201157).....	3,247.93	344.31
23 09 23 53-0516 EA AHU Controller MP581 120 Volt AC With Enclosure And Display (Trane BMTM000AAC01).....	4,163.85	413.18
23 09 23 53-0517 EA AHU Controller MP581 120 Volt AC With Enclosure, No Display (Trane BMTM000AAC00).....	3,277.15	413.18
23 09 23 53-0518 EA AHU Controller MP581 Operator Door Display (Trane 40201156).....	2,776.89	413.18
23 09 23 53-0519 EA AHU Controller MP581 Portable, Rugged, With Case (Trane 49500491).....	2,774.10	413.18
23 09 23 53-0520 EA Controller MP503 I/O Module With Metal Enclosure (Trane 49500590).....	1,245.52	137.73
23 09 23 53-0521 EA Controller MP503 I/O Module With Plastic Cover (Trane 49500490).....	1,135.30	137.73
23 09 23 53-0522 EA Controller MP581 EX2 Expansion Module With Metal Enclosure (Trane 49500500).....	2,050.27	275.45
23 09 23 53-0523 EA Controller MP581 EX2 Expansion Module With Plastic Cover (Trane 49500499).....	1,958.87	275.45
23 09 23 53-0524 EA 2 Position, FCU Controller ZN511 Zone With Metal Enclosure (Trane 49500569).....	1,094.92	137.73
23 09 23 53-0525 EA 2 Position, FCU Controller ZN511 Zone With Plastic Cover (Trane 4950-0469).....	962.20	137.73
23 09 23 53-0526 EA 4 Position, FCU Controller ZN517 Zone With Metal Enclosure (Trane 49500596).....	1,421.51	137.73

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0527 EA 4 Position, FCU Controller ZN517 Zone With Plastic Cover (Trane 49500496).....	1,289.51	137.73
23 09 23 53-0528 EA Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 4950049).....	1,106.74	137.73
23 09 23 53-0529 EA Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 49500496).....	1,056.05	137.73
23 09 23 53-0530 EA Modulating Tri ST FCU Controller ZN521 Zone With Metal Cover (Trane 49500570).....	1,211.69	137.73
23 09 23 53-0531 EA Modulating Tri ST FCU Controller ZN521 Zone With Plastic Cover (Trane 49500470).....	1,106.74	137.73
23 09 23 53-0532 EA DDC VAV Retrofit Kit (Trane VRTODD01).....	1,550.84	275.45
23 09 23 53-0533 EA DDC VAV Retrofit Kit With Belimo Actuator (Trane VRTODD01BLMO).....	1,681.37	275.45
23 09 23 53-0534 Network, VAV And Special Sensors (23 09 23 53-0500)		
23 09 23 53-0535 EA Digital Display Zone Sensor (Trane X13790464010).....	260.57	44.07
23 09 23 53-0536 EA Single Setpoint Wall Mounted Zone Temperature Sensor (Trane X13511529010).....	175.07	44.07
23 09 23 53-0537 EA Wall Mounted Zone Temperature-Only Sensor (Trane X13511528010).....	160.65	44.07
23 09 23 53-0538 EA Ceiling Mount Zone Occupancy Sensor (Trane X13790421-01).....	320.69	49.58
23 09 23 53-0539 EA Zone LCD O/C Setpoint, 3 Speed Fan (Trane 41901121).....	194.78	44.07
23 09 23 53-0540 EA Zone Sensor LCD O/C Setpoint (Trane 41901120).....	194.78	44.07
23 09 23 53-0541 EA Duct CO2 Sensor, 0 To 2,000 ppm (Trane X13790423010).....	673.17	79.33
23 09 23 53-0542 EA Room CO2 Sensor, 0 To 2,000 ppm (Trane X13790422010).....	613.87	44.07
23 09 23 53-0543 EA Transformer 120/24 40 VA (Trane X13550284010).....	153.44	44.07
23 09 23 53-0544 EA Transformer 24 Volt AC Wall Plug-In (Trane 35803005).....	148.29	44.07
23 09 23 53-0545 EA Transformer UL Listed 120 Volt AC, 40 VA (Trane 35812022).....	140.05	44.07
23 09 23 53-0546 EA Controller UC400 VAV Kit With Enclosure, And Belimo (Trane 5189454010).....	1,734.26	275.45
23 09 23 53-0547 EA Controller UC400 VAV Kit With Enclosure, No Actuator (Trane 5189456010).....	1,663.84	275.45
23 09 23 53-0548 EA Controller UC400 XM32 Module (4 Relay) (Trane X13651563010).....	1,516.89	275.45
23 09 23 53-0549 EA Controller UC400 XM70 (8UI,6UI/AO,4R,1P) (Trane X13651568010).....	2,694.40	413.18
23 09 23 53-0550 EA Controller UC400 XM30 I/O Module (4 UI/AO) (Trane X13651537010).....	1,516.89	275.45
23 09 23 53-0551 EA Controller UC210 VAV With Belimo Actuator (Trane BMUC210AAA0B00011).....	1,591.43	275.45
23 09 23 53-0552 EA Controller UC210 VAV Without Actuator (Trane BMUC210AAA0100011).....	1,597.23	275.45
23 09 23 53-0553 EA Controller Optional Metal Enclosure, UC210 (Trane 501898).....	584.36	274.28
23 09 23 53-0554 EA Controller UC400 PM014 24 Volt AC To 1.4 Amperes, 24 Volt DC (Trane X1365153801).....	832.43	274.28
23 09 23 53-0555 EA Controller Tracer UC600 Controller (Trane BMUC600AAA0100011).....	3,006.51	413.18
23 09 23 53-0556 EA Controller UC600 Tracer TD7 Display (Trane X13651571010).....	2,893.20	413.18
23 09 23 53-0557 EA Controller UC600 TD7 Mounting Bracket (Trane X05010511010).....	179.19	54.89
23 09 23 53-0558 EA Controller UC400 13" DIN Rail Enclosure, 120 Volt (Trane X13651559010).....	637.81	54.89
23 09 23 53-0559 EA SC 24" DIN Rail Enclosure, 120 Volt (Trane X13651552010).....	3,076.55	413.18
23 09 23 53-0560 EA BACnet Term (2 Pack) (Trane X1365152401).....	285.53	98.74
23 09 23 53-0561 EA Tracer ES Add License (Trane X40250125010).....	3,701.29	
23 09 23 53-0562 EA Kit - Tracer TU For Controls (Trane X4509151201).....	5,606.89	550.89
23 09 23 53-0563 EA Kit - Tracer TU Complete (Trane X4509151301).....	7,333.25	550.89
23 09 23 53-0564 EA Tracer TU Adapter Wired/Wireless (Trane X13651529010).....	722.28	98.74
23 09 23 53-0565 EA Sensor Wireless Zone Sensor, Fahrenheit (Trane X13790492010).....	418.41	98.74
23 09 23 53-0566 EA Sensor Wireless Display Sensor (Trane X13790822010).....	471.97	98.74
23 09 23 53-0567 EA Sensor Wireless Receiver, 100mW (Trane X13790854010).....	423.56	98.74
23 09 23 53-0568 EA Sensor Wireless Comm Interface (WCI) Indoor, 100mW (Trane X13790901010).....	571.74	98.74
23 09 23 53-0569 EA Sensor Wireless Comm Interface (WCI) Outdoor, 100mW (Trane X13790941010).....	622.20	98.74
23 09 23 53-0570 Control Sensors, Meters, Relays, Power Supplies, Valves, Dampers And Actuators (23 09 23 53)		
23 09 23 53-0571 Room Pressure Monitoring (23 09 23 53-0570)		
23 09 23 53-0572 EA Hospital Room Pressure Monitor With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8640-PM).....	3,643.09	66.34
23 09 23 53-0573 EA Hospital Room Pressure Controller With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8630-PC).....	5,879.07	66.34
Note: Excludes dampers and actuators.		
23 09 23 53-0574 EA Hospital Room Pressure Status Remote Visual Display (TSI 8694-4).....	460.20	39.80
23 09 23 53-0575 EA Hospital Room Pressure Status Remote Negative/Neutral Key Switch (TSI 8694-7).....	531.56	39.80
23 09 23 53-0576 Current Switches And Current Sensors (23 09 23 53-0570)		
23 09 23 53-0577 EA Up To 20 Amperes, 0 To 5 Volt DC, Current Sensor (Senva C-1203).....	163.74	44.07
23 09 23 53-0578 EA Up To 20 Amperes, 4-20mA, Current Sensor (Senva C-1205).....	169.92	44.07
23 09 23 53-0579 EA 0.5 To 135 Amperes Range, Split Core, VFD Current Switch (Senva C-2350VFD-L).....	260.57	44.07
23 09 23 53-0580 EA 0.15 To 100 Amperes Range, Split Core, Current Switch With NC Command Relay (Senva C-2300 And CR4-24).....	155.50	44.07
23 09 23 53-0581 EA 0 To 50/100/200 Amperes (Selectable), 4-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970HCA).....	470.70	44.07
23 09 23 53-0582 EA 0 To 20/40/80 Amperes (Selectable), 0-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970LCC).....	301.50	44.07
23 09 23 53-0583 EA 1 To 135 Amperes, N.O. Contact, 1 Ampere At 110 Volt, Current Switch (Veris H709).....	230.88	44.07
23 09 23 53-0584 EA 0 To 10/20/40 Amperes, 4-20mA Analog Output, Solid Core, Loop Powered, Current Switch (Veris H721).....	230.88	44.07
23 09 23 53-0585 EA Energy Meter H8163 Series, With BACnet Output (Veris H8186-CB-BAC).....	6,116.07	220.36
23 09 23 53-0586 EA 100 Amperes, Modbus RTU, Power Transducer (Veris H8035-0100-2).....	1,553.69	44.07
Note: 3 phase networked transducer.		
23 09 23 53-0587 EA 2,400 Amperes, Three Current Switches, Pulse Output, Phase Loss Alarm Output, Energy Meter (Veris H8163- 2400-4-3).....	2,359.81	44.07
23 09 23 53-0588 EA Up To 20 Amperes, 0-5 Volt DC, Current Transducer (Kele 4CTV).....	247.47	44.07
23 09 23 53-0589 EA Solid Core Fixed Setpoint Digital Output Current Switch (Veris H-800).....	373.89	117.07
23 09 23 53-0590 EA Split Core Fixed Setpoint Digital Output Current Switch (Veris H-900).....	374.38	117.07
23 09 23 53-0591 EA Solid Core Adjustable Setpoint Digital Output Current Sensor (Veris H-708).....	399.11	117.07
23 09 23 53-0592 EA Split Core Adjustable Setpoint Digital Output Current Sensor (Veris H-908).....	405.29	117.07
23 09 23 53-0593 EA Solid And Split Core Adjustable Setpoint Digital Output VFD Current Switch (Veris H-904).....	440.31	117.07
23 09 23 53-0594 EA Toggle Switch.....	153.40	55.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0595 EA Maintained Pushbutton Switch.....	163.49	55.09
23 09 23 53-0596 EA Manual Time Switch	258.63	55.09
23 09 23 53-0597 EA Emergency Stop Switch.....	428.77	55.09
23 09 23 53-0598 EA Float Switch	418.74	55.09
23 09 23 53-0599 EA Break Glass Switch.....	1,353.58	55.09
23 09 23 53-0600 EA Boiler E-Stop Switch	841.93	55.09
23 09 23 53-0601 Relays (23 09 23 53-0570)		
23 09 23 53-0602 EA DPDT, 24 Volt AC, Blade, Standard Relay (Kele RH2B-UAC24V).....	135.93	44.07
23 09 23 53-0603 EA SPDT, 24 Volt AC/Volt DC, 120 Volt AC Multi-Voltage Relay Module (Kele PAM-1).....	148.60	44.07
23 09 23 53-0604 EA SPDT, 24 Volt AC/Volt DC, 120 Volt AC Power Relay (Kele RIB2401B).....	209.55	55.09
Note: Box type.		
23 09 23 53-0605 EA Motor Starter Interface, 300msec Pulse (Kele PIL-2)	262.26	44.07
23 09 23 53-0606 EA DP Relay Socket, DIN Rail Mounted (Kele SH2B-05)	126.74	44.07
23 09 23 53-0607 EA SP Relay Socket, DIN Rail Mounted (Kele SH1B-05).....	124.89	44.07
23 09 23 53-0608 EA SPDT, 24 Volt AC, Blade, Standard Relay (Kele RH1B-UAC24V)	135.93	44.07
23 09 23 53-0609 EA DPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH2B-ULAC24V).....	141.72	44.07
23 09 23 53-0610 EA SPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH1B-ULAC24V)	143.31	44.07
23 09 23 53-0611 EA SPDT Pilot Relay, Universal (Kele RIBU1C)	156.17	55.09
Note: Box type.		
23 09 23 53-0612 EA SPST Pilot Relay With HOA Switch (Kele RIBU1S)	207.88	55.09
Note: Box type.		
23 09 23 53-0613 EA SPDT 3 Phase Line Voltage Monitor, .1-5 Minute Delay On Break Timer (ICM400)	367.35	55.09
23 09 23 53-0614 EA SPDT 3-Phase Line Voltage Monitor, 0-10 Minute Delay On Break Timer (ICM450).....	365.06	55.09
23 09 23 53-0615 Transformers (23 09 23 53-0570)		
23 09 23 53-0616 EA 50 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X050CBA).....	162.38	44.07
23 09 23 53-0617 EA 75 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X075CAB).....	176.76	44.07
23 09 23 53-0618 EA 75 VA, 120/208/240/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X075CBA).....	176.76	44.07
23 09 23 53-0619 EA 100 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X100CAB)	189.78	44.07
23 09 23 53-0620 EA 100 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X100CBA).....	197.80	44.07
23 09 23 53-0621 Power Supplies (23 09 23 53-0570)		
23 09 23 53-0622 EA Solid Core Current Operated Switch, Terminals, Adjustable Trip, 0.5-150A, SPST (Kele RIBXKTA).....	243.28	44.07
23 09 23 53-0623 EA AC/DC Power Supply, 1.2 Amperes At 24 Volt Output (Kele DCPA-1.2)	283.19	44.07
23 09 23 53-0624 EA DC Power Supply, 5 Volt DC And 24 Volt DC Output (Kele DCP-524).....	265.20	44.07
23 09 23 53-0625 EA DC Power Supply, 24 Volt DC, DIN Rail Mounted (Kele DCP-250-D).....	273.71	44.07
23 09 23 53-0626 EA DC Power Supply, 24 Volt DC, Hub Mounted (Kele DCP-250-H).....	266.13	44.07
23 09 23 53-0627 EA DC Power Supply, 24 Volt DC, Panel Mounted (Kele DCP-250-P)	278.82	44.07
23 09 23 53-0628 EA DC Power Supply, 24 Volt AC In To Custom DC Out, At 1.5 Amperes (Kele DCP-1.5-W-C).....	208.98	44.07
23 09 23 53-0629 Carrier Sensors And Controls (23 09 23 53)		
23 09 23 53-0630 EA Touch Screen Controller, Supports 512 ID Units (Carrier BMS-CT5120UL)	6,473.89	183.45
23 09 23 53-0631 EA Wired Remote Controller (Carrier RBC-AMS54E-UL)	409.92	44.07
23 09 23 53-0632 EA Remote Sensor (Carrier TCB-TC41UL).....	354.75	44.07
23 09 23 53-0633 EA VRF Start-up Assistance (Carrier VRFSA)	2,507.55	
23 09 23 53-0634 EA 2 Speed VFD Display Kit (Carrier CRDISKIT001A00).....	564.35	68.86
23 09 43 Pneumatic Control System For HVAC (23 09)		
23 09 43 00-0001 Pneumatic Tubing For HVAC Instrumentation and Control Devices (23 09 43)		
23 09 43 00-0002 Polyurethane Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0003 LF 1/4" Outside Diameter x 1/32" Thick Wall Polyurethane Pneumatic Tubing	2.58	1.00
23 09 43 00-0004 LF 5/32" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	3.31	1.03
23 09 43 00-0005 LF 3/8" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	4.35	1.06
23 09 43 00-0006 LF 1/2" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	5.54	1.09
23 09 43 00-0007 Fire Resistant Polyethylene Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0008 LF 1/4" Outside Diameter x .040" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....	2.30	1.00
23 09 43 00-0009 LF 5/32" Outside Diameter x .030" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	2.47	1.03
23 09 43 00-0010 LF 3/8" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....	2.84	1.06
23 09 43 00-0011 LF 1/2" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....	3.56	1.09
23 09 43 00-0012 Nylon Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0013 LF 1/8" Outside Diameter x .016" Thick Wall Nylon Pneumatic Tubing	2.74	0.97
23 09 43 00-0014 LF 1/4" Outside Diameter x .035" Thick Wall Nylon Pneumatic Tubing	3.66	1.00
23 09 43 00-0015 LF 3/8" Outside Diameter x .050" Thick Wall Nylon Pneumatic Tubing	5.57	1.06
23 09 43 00-0016 LF 1/2" Outside Diameter x .062" Thick Wall Nylon Pneumatic Tubing	7.18	1.09
23 09 43 00-0017 Flexible Vinyl Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0018 LF 1/4" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	2.67	1.00

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 43 Pneumatic Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 43 00-0019 LF 3/8" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	4.38	1.06
23 09 43 00-0020 LF 1/2" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	5.30	1.09
23 09 43 00-0021 LF 5/8" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	6.48	1.12
23 09 43 00-0022 LF 3/4" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	7.34	1.15
23 09 43 00-0023 LF 1" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	10.10	1.18
23 09 43 00-0024 Braided Vinyl Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0025 LF 5/8" Outside Diameter Braided Vinyl Pneumatic Tubing.....	3.65	1.12
23 09 43 00-0026 LF 3/4" Outside Diameter Braided Vinyl Pneumatic Tubing.....	4.26	1.15
23 09 43 00-0027 LF 1" Outside Diameter Braided Vinyl Pneumatic Tubing.....	5.35	1.18
23 09 43 00-0028 Copper Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0029 LF 1/4" Outside Diameter Copper Pneumatic Tubing.....	5.68	2.15
23 09 43 00-0030 LF 3/8" Outside Diameter Copper Pneumatic Tubing.....	6.95	2.48
23 09 43 00-0031 LF 1/2" Outside Diameter Copper Pneumatic Tubing.....	8.09	2.85
23 09 43 00-0032 LF 5/8" Outside Diameter Copper Pneumatic Tubing.....	10.05	3.28
23 09 43 00-0033 LF 3/4" Outside Diameter Copper Pneumatic Tubing.....	11.42	3.77
23 09 43 00-0034 Brass Couplings (23 09 43 00-0001)		
23 09 43 00-0035 Straight Brass Couplings (23 09 43 00-0034)		
Note: Barb x Barb		
23 09 43 00-0036 EA 1/4" x 1/4" Straight Brass Coupling.....	11.71	5.43
23 09 43 00-0037 EA 3/8" x 1/4" Straight Brass Coupling.....	11.85	5.43
23 09 43 00-0038 EA 3/8" x 3/8" Straight Brass Coupling.....	11.99	5.43
23 09 43 00-0039 Elbow Brass Couplings (23 09 43 00-0034)		
Note: Barb x Barb		
23 09 43 00-0040 EA 1/4" x 1/4" Elbow Brass Coupling.....	12.49	5.43
23 09 43 00-0041 EA 3/8" x 3/8" Elbow Brass Coupling.....	12.96	5.43
23 09 43 00-0042 Tee Brass Couplings (23 09 43 00-0034)		
Note: Barb x Barb		
23 09 43 00-0043 EA 1/4" x 1/4" x 1/4" Tee Brass Coupling.....	19.06	8.45
23 09 43 00-0044 EA 3/8" x 3/8" x 1/4" Tee Brass Coupling.....	21.96	9.05
23 09 43 00-0045 EA 3/8" x 3/8" x 3/8" Tee Brass Coupling.....	21.46	9.05

23 10 Facility Fuel Systems (23)**23 11 Facility Fuel Piping (23 10)****23 11 23 Facility Natural-Gas Piping (23 11)**

See CSI section 23 21 13 23-0001 for threaded black steel pipe, 33 52 16 00-0000 for underground MDPE and HDPE pipe.

23 11 23 00-0001 Corrugated Stainless Steel Tubing (CSST), Flexible Gas Piping (23 11 23)		
23 11 23 00-0002 Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001)		
Note: Includes UV resistant polyethylene jacket. Excludes fittings and pipe hangers.		
23 11 23 00-0003 LF 3/8" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	6.43	2.12
23 11 23 00-0004 LF 1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	7.07	2.29
23 11 23 00-0005 LF 3/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	8.47	2.48
23 11 23 00-0006 LF 1" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	10.67	2.62
23 11 23 00-0007 LF 1-1/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	12.57	2.76
23 11 23 00-0008 LF 1-1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	19.07	2.87
23 11 23 00-0009 LF 2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	25.81	3.05
23 11 23 00-0010 Fittings And Accessories For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001)		
23 11 23 00-0011 Male Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0012 EA 3/8" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	30.70	
23 11 23 00-0013 EA 3/8" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	30.70	
23 11 23 00-0014 EA 1/2" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	32.91	
23 11 23 00-0015 EA 1/2" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	32.91	
23 11 23 00-0016 EA 3/4" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	39.52	
23 11 23 00-0017 EA 1" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	54.26	
23 11 23 00-0018 EA 1" x 1", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	54.26	
23 11 23 00-0019 EA 1-1/4" x 1-1/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	91.90	
23 11 23 00-0020 EA 1-1/2" x 1-1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	167.85	
23 11 23 00-0021 EA 2" x 2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	271.51	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Facility Fuel Systems			23 10	
Facility Fuel Piping			23 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0022 Female Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0023 EA 3/8" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	29.74	
23 11 23 00-0024 EA 1/2" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	32.91	
23 11 23 00-0025 EA 1/2" x 3/8", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	32.91	
23 11 23 00-0026 EA 3/4" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	39.52	
23 11 23 00-0027 EA 3/4" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	39.52	
23 11 23 00-0028 EA 1" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	51.90	
23 11 23 00-0029 EA 1" x 1", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	51.90	
23 11 23 00-0030 Reducing Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0031 EA 3/4" x 1/2", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	40.09	
23 11 23 00-0032 EA 1" x 3/4", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	52.76	
23 11 23 00-0033 Couplings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0034 EA 3/8" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	41.15	
23 11 23 00-0035 EA 1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	45.64	
23 11 23 00-0036 EA 3/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	57.23	
23 11 23 00-0037 EA 1" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	81.88	
23 11 23 00-0038 EA 1-1/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	152.96	
23 11 23 00-0039 EA 1-1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	298.18	
23 11 23 00-0040 EA 2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	494.84	
23 11 23 00-0041 Tees For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0042 EA 1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	56.91	
23 11 23 00-0043 EA 3/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	91.37	
23 11 23 00-0044 EA 1" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	144.50	
23 11 23 00-0045 EA 1-1/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	248.31	
23 11 23 00-0046 EA 1-1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	266.96	
23 11 23 00-0047 EA 2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	306.47	
23 11 23 00-0048 Indoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0049 EA 3/8" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	36.97	
23 11 23 00-0050 EA 1/2" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	38.23	
23 11 23 00-0051 EA 3/4" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	41.58	
23 11 23 00-0052 EA 1" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	55.83	
23 11 23 00-0053 EA 1" x 1", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	56.64	
23 11 23 00-0054 Outdoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0055 EA 3/8" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	40.71	
23 11 23 00-0056 EA 1/2" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	41.82	
23 11 23 00-0057 EA 3/4" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	49.20	
23 11 23 00-0058 EA 1" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	57.96	
23 11 23 00-0059 EA 1" x 1", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	57.96	
23 11 23 00-0060 Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0061 EA 3/8" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	64.02	
23 11 23 00-0062 EA 1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	65.65	
23 11 23 00-0063 EA 3/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	68.85	
23 11 23 00-0064 EA 1" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	109.16	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0065	EA	1-1/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	113.32		
23 11 23 00-0066	EA	1-1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	163.25		
23 11 23 00-0067	EA	2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	202.92		
23 11 23 00-0068 Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)					
23 11 23 00-0069	EA	3/8" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	67.65		
23 11 23 00-0070	EA	1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	69.22		
23 11 23 00-0071	EA	3/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	76.33		
23 11 23 00-0072	EA	1" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	137.75		
23 11 23 00-0073	EA	1-1/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	142.14		
23 11 23 00-0074	EA	1-1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	195.39		
23 11 23 00-0075	EA	2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	246.45		
23 11 23 00-0076 Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)					
23 11 23 00-0077	EA	1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	39.18		
23 11 23 00-0078	EA	3/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	42.30		
23 11 23 00-0079	EA	1" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	64.16		
23 11 23 00-0080	EA	1-1/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	98.61		
23 11 23 00-0081	EA	1-1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	191.26		
23 11 23 00-0082	EA	2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	304.32		
23 11 23 00-0083 Stub-Outs For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)					
Note: Includes mounting plate.					
23 11 23 00-0084	EA	1/2" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	33.81		
23 11 23 00-0085	EA	3/4" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	36.85		
23 11 23 00-0086	EA	1/2" Fireplace Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	33.85		
23 11 23 00-0087	EA	1/2" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	33.96		
23 11 23 00-0088	EA	3/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	35.40		
23 11 23 00-0089	EA	1" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	42.06		
23 11 23 00-0090	EA	1-1/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	50.58		
23 11 23 00-0091 Flush Mount Gas Valve Kits For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)					
Note: Includes flush fitting plastic valve box and 90 degree brass shut-off valve.					
23 11 23 00-0092	EA	1/2" x 1/2", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	95.47	22.22	
23 11 23 00-0093	EA	3/4" x 3/4", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	107.85	23.32	
23 11 23 00-0094 Shut-Off Valves For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)					
23 11 23 00-0095	EA	3/8" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	68.51	19.44	
23 11 23 00-0096	EA	1/2" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	79.71	23.10	
23 11 23 00-0097	EA	3/4" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	97.81	27.77	
23 11 23 00-0098	EA	1" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	122.37	37.09	
23 11 23 00-0099 Manifolds For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)					
Note: Includes mounting hardware.					
23 11 23 00-0100	EA	1/2" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	84.14	23.10	
23 11 23 00-0101	EA	3/4" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	95.49	27.77	
23 11 23 00-0102	EA	1/2" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	90.12	23.10	
23 11 23 00-0103	EA	3/4" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	99.37	27.77	
23 11 23 00-0104	EA	2" x 1-1/2" Inlet, Four 1" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	189.55	69.42	
23 11 23 00-0105 Pressure Regulators For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)					
23 11 23 00-0106	EA	1/2" Port, 250 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	88.97	23.10	
23 11 23 00-0107	EA	1/2" Port, 355 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	88.97	23.10	
23 11 23 00-0108	EA	1/2" Port, 425 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	124.75	23.10	
23 11 23 00-0109	EA	3/4" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	134.00	27.77	
23 11 23 00-0110	EA	3/4" Port, 810 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	134.00	27.77	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Facility Fuel Systems			23 10	
Facility Fuel Piping			23 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0111 EA 1" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	152.51	37.09
23 11 23 00-0112 EA 1-1/4" Port, 1,000 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	228.05	41.65
23 11 23 00-0113 EA 1/2" Port, 200 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	118.42	23.10
23 11 23 00-0114 EA 3/4" Port, 425 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	296.01	27.77
23 11 23 00-0115 EA 1-1/4" Port, 900 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	719.77	41.65
23 11 23 00-0116 Polymer Coated Stainless Steel, Flexible Gas Appliance Connectors (Brass Craft) (23 11 23)		
23 11 23 00-0117 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0118 EA 12" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-12).....	46.00	16.66
23 11 23 00-0119 EA 18" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-18).....	50.16	17.77
23 11 23 00-0120 EA 24" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-24).....	54.15	17.77
23 11 23 00-0121 EA 30" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-30).....	56.73	18.88
23 11 23 00-0122 EA 36" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-36).....	59.97	18.88
23 11 23 00-0123 EA 48" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-48).....	67.04	19.99
23 11 23 00-0124 EA 60" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-60).....	73.47	19.99
23 11 23 00-0125 EA 72" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-72).....	79.83	21.10
23 11 23 00-0126 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0127 EA 12" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-12).....	46.00	16.66
23 11 23 00-0128 EA 18" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-18).....	50.16	17.77
23 11 23 00-0129 EA 24" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-24).....	54.15	17.77
23 11 23 00-0130 EA 30" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-30).....	56.73	18.88
23 11 23 00-0131 EA 36" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-36).....	59.97	18.88
23 11 23 00-0132 EA 48" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-48).....	67.04	19.99
23 11 23 00-0133 EA 60" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-60).....	73.47	19.99
23 11 23 00-0134 EA 72" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-72).....	79.83	21.10
23 11 23 00-0135 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0136 EA 12" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-12).....	46.00	16.66
23 11 23 00-0137 EA 18" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-18).....	50.16	17.77
23 11 23 00-0138 EA 24" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-24).....	54.15	17.77
23 11 23 00-0139 EA 30" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-30).....	56.73	18.88
23 11 23 00-0140 EA 36" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-36).....	59.97	18.88
23 11 23 00-0141 EA 48" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-48).....	67.04	19.99
23 11 23 00-0142 EA 60" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-60).....	73.47	19.99
23 11 23 00-0143 EA 72" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-72).....	79.83	21.10
23 11 23 00-0144 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0145 EA 12" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-12).....	46.00	16.66
23 11 23 00-0146 EA 18" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-18).....	50.16	17.77
23 11 23 00-0147 EA 24" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-24).....	63.79	17.77

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0148	EA	30" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-30).....	56.73	18.88
23 11 23 00-0149	EA	36" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-36).....	59.97	18.88
23 11 23 00-0150	EA	48" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-48).....	67.04	19.99
23 11 23 00-0151	EA	60" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-60).....	73.47	19.99
23 11 23 00-0152	EA	72" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-72).....	79.83	21.10
23 11 23 00-0153 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)				
23 11 23 00-0154	EA	12" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-12).....	49.72	16.66
23 11 23 00-0155	EA	18" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-18).....	54.77	17.77
23 11 23 00-0156	EA	24" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-24).....	54.15	17.77
23 11 23 00-0157	EA	30" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-30).....	62.61	18.88
23 11 23 00-0158	EA	36" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-36).....	59.97	18.88
23 11 23 00-0159	EA	48" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-48).....	67.04	19.99
23 11 23 00-0160	EA	60" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-60).....	73.47	19.99
23 11 23 00-0161	EA	72" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-72).....	79.83	21.10
23 11 23 00-0162 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)				
23 11 23 00-0163	EA	12" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-12).....	46.00	16.66
23 11 23 00-0164	EA	24" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-24).....	59.61	17.77
23 11 23 00-0165	EA	30" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-30).....	56.73	18.88
23 11 23 00-0166	EA	36" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-36).....	59.97	18.88
23 11 23 00-0167	EA	48" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-48).....	67.04	19.99
23 11 23 00-0168	EA	60" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-60).....	83.29	19.99
23 11 23 00-0169	EA	72" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-72).....	79.83	21.10
23 11 23 00-0170 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)				
23 11 23 00-0171	EA	12" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-12).....	46.00	16.66
23 11 23 00-0172	EA	18" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-18).....	50.16	17.77
23 11 23 00-0173	EA	24" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-24).....	54.15	17.77
23 11 23 00-0174	EA	30" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-30).....	56.73	18.88
23 11 23 00-0175	EA	36" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-36).....	59.97	18.88
23 11 23 00-0176	EA	48" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-48).....	67.04	19.99
23 11 23 00-0177	EA	60" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-60).....	73.47	19.99
23 11 23 00-0178	EA	72" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-72).....	79.83	21.10
23 11 23 00-0179 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)				
23 11 23 00-0180	EA	12" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-12).....	46.00	16.66
23 11 23 00-0181	EA	18" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-18).....	50.16	17.77
23 11 23 00-0182	EA	24" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-24).....	54.15	17.77
23 11 23 00-0183	EA	30" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-30).....	56.73	18.88
23 11 23 00-0184	EA	36" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-36).....	59.97	18.88

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Facility Fuel Systems

23 10

Facility Fuel Piping

23 11**23**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0185	EA	48" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-48).....	67.04	19.99
23 11 23 00-0186	EA	60" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-60).....	73.47	19.99
23 11 23 00-0187	EA	72" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-72).....	79.83	21.10
23 11 23 00-0188		3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0189	EA	18" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-18).....	54.77	17.77
23 11 23 00-0190	EA	24" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-24).....	54.15	17.77
23 11 23 00-0191	EA	30" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-30).....	62.61	18.88
23 11 23 00-0192	EA	36" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-36).....	66.48	18.88
23 11 23 00-0193	EA	48" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-48).....	75.30	19.99
23 11 23 00-0194		1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0195	EA	12" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-12).....	46.00	16.66
23 11 23 00-0196	EA	18" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-18).....	50.16	17.77
23 11 23 00-0197	EA	24" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-24).....	50.30	17.77
23 11 23 00-0198	EA	30" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-30).....	56.73	18.88
23 11 23 00-0199	EA	36" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-36).....	55.36	18.88
23 11 23 00-0200	EA	48" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-48).....	68.44	19.99
23 11 23 00-0201	EA	60" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-60).....	73.47	19.99
23 11 23 00-0202	EA	72" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-72).....	79.83	21.10
23 11 23 00-0203		1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0204	EA	12" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-12).....	46.00	16.66
23 11 23 00-0205	EA	18" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-18).....	47.02	17.77
23 11 23 00-0206	EA	24" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-24).....	48.17	17.77
23 11 23 00-0207	EA	30" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-30).....	56.73	18.88
23 11 23 00-0208	EA	36" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-36).....	59.97	18.88
23 11 23 00-0209	EA	48" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-48).....	61.02	19.99
23 11 23 00-0210	EA	60" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-60).....	73.47	19.99
23 11 23 00-0211	EA	72" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-72).....	79.83	21.10
23 11 23 00-0212		1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0213	EA	12" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-12).....	46.00	16.66
23 11 23 00-0214	EA	18" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-18).....	50.16	17.77
23 11 23 00-0215	EA	24" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-24).....	54.15	17.77
23 11 23 00-0216	EA	30" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-30).....	56.73	18.88
23 11 23 00-0217	EA	36" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-36).....	52.16	18.88
23 11 23 00-0218	EA	48" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-48).....	67.04	19.99
23 11 23 00-0219	EA	60" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-60).....	73.47	19.99
23 11 23 00-0220	EA	72" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-72).....	79.83	21.10

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0221			3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0222	EA	12" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-12)	59.23	16.66	
23 11 23 00-0223	EA	18" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-18)	63.36	17.77	
23 11 23 00-0224	EA	24" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-24)	67.35	17.77	
23 11 23 00-0225	EA	30" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-30)	69.91	18.88	
23 11 23 00-0226	EA	36" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-36)	73.28	18.88	
23 11 23 00-0227	EA	48" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-48)	79.93	19.99	
23 11 23 00-0228	EA	60" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-60)	86.90	19.99	
23 11 23 00-0229	EA	72" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-72)	93.28	21.10	
23 11 23 00-0230			3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0231	EA	12" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-12)	70.33	22.22	
23 11 23 00-0232	EA	18" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-18)	74.47	23.32	
23 11 23 00-0233	EA	24" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-24)	78.46	23.32	
23 11 23 00-0234	EA	30" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-30)	81.02	24.43	
23 11 23 00-0235	EA	36" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-36)	84.37	24.43	
23 11 23 00-0236	EA	48" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-48)	91.04	25.55	
23 11 23 00-0237	EA	60" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-60)	98.01	25.55	
23 11 23 00-0238	EA	72" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-72)	104.39	26.66	
23 11 23 00-0239			3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0240	EA	12" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12)	70.33	22.22	
23 11 23 00-0241	EA	18" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18)	74.47	23.32	
23 11 23 00-0242	EA	24" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24)	78.46	23.32	
23 11 23 00-0243	EA	30" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30)	81.02	24.43	
23 11 23 00-0244	EA	36" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36)	84.37	24.43	
23 11 23 00-0245	EA	48" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48)	91.04	25.55	
23 11 23 00-0246	EA	60" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60)	98.01	25.55	
23 11 23 00-0247	EA	72" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-72)	104.39	26.66	
23 11 23 00-0248			3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0249	EA	12" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12)	81.08	22.22	
23 11 23 00-0250	EA	18" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18)	85.22	23.32	
23 11 23 00-0251	EA	24" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24)	89.21	23.32	
23 11 23 00-0252	EA	30" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30)	91.77	24.43	
23 11 23 00-0253	EA	36" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36)	95.14	24.43	
23 11 23 00-0254	EA	48" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48)	101.80	25.55	
23 11 23 00-0255	EA	60" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60)	108.77	25.55	
23 11 23 00-0256			3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Facility Fuel Systems

23 10

Facility Fuel Piping

23 11**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0257 EA 12" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-12).....	81.08	22.22
23 11 23 00-0258 EA 18" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-18).....	85.22	23.32
23 11 23 00-0259 EA 24" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-24).....	89.21	23.32
23 11 23 00-0260 EA 36" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-36).....	95.14	24.43
23 11 23 00-0261 EA 48" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-48).....	101.80	25.55
23 11 23 00-0262 EA 60" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-60).....	108.77	25.55
23 11 23 00-0263 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0264 EA 12" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-12).....	81.08	22.22
23 11 23 00-0265 EA 18" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-18).....	85.22	23.32
23 11 23 00-0266 EA 24" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-24).....	89.21	23.32
23 11 23 00-0267 EA 30" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-30).....	91.77	24.43
23 11 23 00-0268 EA 36" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-36).....	95.14	24.43
23 11 23 00-0269 EA 48" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-48).....	101.80	25.55
23 11 23 00-0270 EA 60" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-60).....	108.77	25.55
23 11 23 00-0271 EA 72" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-72).....	115.14	26.66
23 11 23 00-0272 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0273 EA 12" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-12).....	67.49	22.22
23 11 23 00-0274 EA 18" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-18).....	71.65	23.32
23 11 23 00-0275 EA 24" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-24).....	75.66	23.32
23 11 23 00-0276 EA 30" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-30).....	78.19	24.43
23 11 23 00-0277 EA 36" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-36).....	81.55	24.43
23 11 23 00-0278 EA 48" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-48).....	88.20	25.55
23 11 23 00-0279 EA 72" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-72).....	101.53	26.66
23 11 23 00-0280 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0281 EA 18" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-18).....	79.30	23.32
23 11 23 00-0282 EA 24" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-24).....	84.15	23.32
23 11 23 00-0283 Quarter-Turn, Gas Ball Valve (23 11 23)		
23 11 23 00-0284 EA 3/8" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top™ T-3000 102-102).....	42.97	11.82
23 11 23 00-0285 EA 1/2" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-103).....	43.50	12.06
23 11 23 00-0286 EA 3/4" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-104).....	62.00	13.27
23 11 23 00-0287 EA 3/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-112).....	42.65	11.82
23 11 23 00-0288 EA 1/2" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-113).....	45.05	12.06
23 11 23 00-0289 EA 1/2" Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-118).....	49.60	12.06
23 11 23 00-0290 EA 5/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-121).....	54.39	12.66
23 11 23 00-0291 EA 5/8" (7/8" -14) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-114).....	56.71	12.66
23 11 23 00-0292 EA 5/8" (15/16" -16) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-115).....	56.71	12.66
23 11 23 00-0293 EA 3/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-312).....	44.38	11.82
23 11 23 00-0294 EA 1/2" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-313).....	46.78	12.06
23 11 23 00-0295 EA 5/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-314).....	57.93	12.66
23 11 23 00-0296 EA 1/2" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-413).....	47.00	12.06
23 11 23 00-0297 EA 3/4" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-414).....	63.30	13.27
23 11 23 00-0298 EA 3/8" (9/16" -24) Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-119).....	44.29	11.82
23 11 23 00-0299 EA 3/8" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-612).....	42.42	11.82

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0300 EA 1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-613).....	43.49	12.06
23 11 23 00-0301 EA 3/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-614).....	59.50	13.27
23 11 23 00-0302 EA 1" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-615).....	79.69	15.08
23 11 23 00-0303 EA 1-1/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-616).....	112.42	15.68
23 11 23 00-0304 EA 1-1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-617).....	133.08	18.09
23 11 23 00-0305 EA 2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-618).....	163.48	21.71
23 11 23 00-0306 EA 1/2" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-713).....	44.49	12.06
23 11 23 00-0307 EA 3/4" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-714).....	59.19	13.27
23 11 23 00-0308 Gas Stops (23 11 23)		
23 11 23 00-0309 Brass/Bronze Gas Stops (23 11 23 00-0308)		
Note: Flat or square head		
23 11 23 00-0310 EA 3/8" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	56.71	12.06
23 11 23 00-0311 EA 1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	56.57	12.06
23 11 23 00-0312 EA 3/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	74.12	13.27
23 11 23 00-0313 EA 1" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	105.24	15.08
23 11 23 00-0314 EA 1-1/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	140.41	16.05
23 11 23 00-0315 EA 1-1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	177.76	18.57
23 11 23 00-0316 EA 2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	248.45	21.95
23 11 23 00-0317 Iron Body Gas Stops (23 11 23 00-0308)		
23 11 23 00-0318 EA 1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	77.61	12.06
23 11 23 00-0319 EA 3/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	94.82	13.27
23 11 23 00-0320 EA 1" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	117.72	15.08
23 11 23 00-0321 EA 1-1/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	152.53	16.05
23 11 23 00-0322 EA 1-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	192.99	18.57
23 11 23 00-0323 EA 2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	251.91	21.95
23 11 23 00-0324 EA 2-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	495.22	29.66
23 11 23 00-0325 EA 3" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	667.44	34.43
23 11 23 00-0326 Bronze Body Solenoid Valves, 150 PSI Gas (23 11 23)		
23 11 23 00-0327 EA 1/4" Solenoid Valve, Bronze, 150 PSI, Gas.....	205.20	12.06
23 11 23 00-0328 EA 1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....	239.45	12.06
23 11 23 00-0329 EA 3/4" Solenoid Valve, Bronze, 150 PSI, Gas.....	304.63	13.27
23 11 23 00-0330 EA 1" Solenoid Valve, Bronze, 150 PSI, Gas.....	458.47	15.08
23 11 23 00-0331 EA 1-1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....	822.00	18.57
23 11 23 00-0332 EA 2" Solenoid Valve, Bronze, 150 PSI, Gas.....	1,403.89	21.95
23 11 23 00-0333 EA 2-1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....	1,738.03	29.66
23 11 23 00-0334 EA 3" Solenoid Valve, Bronze, 150 PSI, Gas.....	2,624.12	34.43
23 11 26 Facility Liquefied-Petroleum Gas Piping (23 11)		
23 11 26 00-0001 Fiberglass Reinforced Plastic Pipe And Fittings (23 11 26)		
23 11 26 00-0002 Fiberglass Reinforced Plastic Pipe (23 11 26 00-0001)		
Note: For double containment fiberglass pipe, select both outer containment pipe size and inner containment pipe size (add modifier for use as inner pipe).		
23 11 26 00-0003 LF 2" Fiberglass Reinforced Plastic Pipe.....	23.16	8.00
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-8.96	
23 11 26 00-0004 LF 3" Fiberglass Reinforced Plastic Pipe.....	27.76	9.55
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-10.75	
23 11 26 00-0005 LF 4" Fiberglass Reinforced Plastic Pipe.....	36.53	14.11
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-15.83	
23 11 26 00-0006 LF 5" Fiberglass Reinforced Plastic Pipe.....	43.01	16.21
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-17.83	
23 11 26 00-0007 LF 6" Fiberglass Reinforced Plastic Pipe.....	50.25	18.11
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-20.40	
23 11 26 00-0008 LF 8" Fiberglass Reinforced Plastic Pipe.....	69.78	21.98
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-24.68	
23 11 26 00-0009 LF 10" Fiberglass Reinforced Plastic Pipe.....	93.06	26.13
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-29.44	
23 11 26 00-0010 LF 12" Fiberglass Reinforced Plastic Pipe.....	212.79	32.91
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-37.04	
23 11 26 00-0011 Fiberglass Reinforced Plastic Fittings (23 11 26 00-0001)		
23 11 26 00-0012 Fiberglass Reinforced Plastic Flanged 90 Degree Elbows (23 11 26 00-0011)		
23 11 26 00-0013 EA 2" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	175.23	79.63
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-89.57	
23 11 26 00-0014 EA 3" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	206.56	95.62
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-107.48	
23 11 26 00-0015 EA 4" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	247.83	111.06
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-124.86	
23 11 26 00-0016 EA 5" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	309.49	130.00
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-143.40	
23 11 26 00-0017 EA 6" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	373.88	145.85
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-164.00	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Facility Fuel Systems			23 10	
Facility Fuel Piping			23 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0018 EA 8" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	538.90 -205.00	182.26
23 11 26 00-0019 EA 10" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	694.27 -246.88	219.54
23 11 26 00-0020 EA 12" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	1,573.72 -306.13	272.23
23 11 26 00-0021 Fiberglass Reinforced Plastic Flanged 45 Degree Elbows (23 11 26 00-0011)		
23 11 26 00-0022 EA 2" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	175.65 -89.57	79.63
23 11 26 00-0023 EA 3" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	206.69 -107.48	95.62
23 11 26 00-0024 EA 4" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	248.22 -124.95	111.17
23 11 26 00-0025 EA 5" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	312.70 -145.77	132.06
23 11 26 00-0026 EA 6" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	373.72 -164.00	145.85
23 11 26 00-0027 EA 8" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	538.90 -205.00	182.26
23 11 26 00-0028 EA 10" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	1,192.11 -246.88	219.54
23 11 26 00-0029 EA 12" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	1,573.72 -306.13	272.23
23 11 26 00-0030 Fiberglass Reinforced Plastic Flanged Tees (23 11 26 00-0011)		
23 11 26 00-0031 EA 2" Fiberglass Reinforced Plastic Flanged Tee..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	358.52 -134.36	119.51
23 11 26 00-0032 EA 3" Fiberglass Reinforced Plastic Flanged Tee..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	444.00 -161.81	143.94
23 11 26 00-0033 EA 4" Fiberglass Reinforced Plastic Flanged Tee..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	504.96 -187.44	166.71
23 11 26 00-0034 EA 5" Fiberglass Reinforced Plastic Flanged Tee..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	642.93 -218.75	198.03
23 11 26 00-0035 EA 6" Fiberglass Reinforced Plastic Flanged Tee..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	776.58 -246.88	219.54
23 11 26 00-0036 EA 8" Fiberglass Reinforced Plastic Flanged Tee..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	977.20 -306.13	272.23
23 11 26 00-0037 EA 10" Fiberglass Reinforced Plastic Flanged Tee..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	1,572.79 -370.32	329.31
23 11 26 00-0038 EA 12" Fiberglass Reinforced Plastic Flanged Tee..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	2,105.70 -450.19	400.38
23 11 26 00-0039 Fiberglass Reinforced Plastic Flanged Wyes (23 11 26 00-0011)		
23 11 26 00-0040 EA 2" Fiberglass Reinforced Plastic Flanged Wye..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	479.95 -134.36	119.51
23 11 26 00-0041 EA 3" Fiberglass Reinforced Plastic Flanged Wye..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	617.51 -161.60	143.72
23 11 26 00-0042 EA 4" Fiberglass Reinforced Plastic Flanged Wye..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	725.69 -187.43	166.71
23 11 26 00-0043 EA 5" Fiberglass Reinforced Plastic Flanged Wye..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	830.88 -218.75	198.03
23 11 26 00-0044 EA 6" Fiberglass Reinforced Plastic Flanged Wye..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	931.78 -246.88	219.54
23 11 26 00-0045 EA 8" Fiberglass Reinforced Plastic Flanged Wye..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	1,222.65 -306.13	272.23
23 11 26 00-0046 EA 10" Fiberglass Reinforced Plastic Flanged Wye..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	1,882.37 -370.32	329.31
23 11 26 00-0047 EA 12" Fiberglass Reinforced Plastic Flanged Wye..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	2,443.17 -450.19	400.38
23 11 26 00-0048 Fiberglass Reinforced Plastic Flanged Concentric Reducers (23 11 26 00-0011)		
23 11 26 00-0049 EA 2" Fiberglass Reinforced Plastic Flanged Concentric Reducer..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	271.42 -89.57	79.63
23 11 26 00-0050 EA 3" Fiberglass Reinforced Plastic Flanged Concentric Reducer..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	352.88 -107.48	95.62
23 11 26 00-0051 EA 4" Fiberglass Reinforced Plastic Flanged Concentric Reducer..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	386.06 -124.95	111.17
23 11 26 00-0052 EA 5" Fiberglass Reinforced Plastic Flanged Concentric Reducer..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	447.97 -145.77	132.06
23 11 26 00-0053 EA 6" Fiberglass Reinforced Plastic Flanged Concentric Reducer..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	506.38 -164.00	145.85
23 11 26 00-0054 EA 8" Fiberglass Reinforced Plastic Flanged Concentric Reducer..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	674.37 -205.00	182.26
23 11 26 00-0055 EA 10" Fiberglass Reinforced Plastic Flanged Concentric Reducer..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	863.03 -246.88	219.54
23 11 26 00-0056 EA 12" Fiberglass Reinforced Plastic Flanged Concentric Reducer..... For Use As Inner Pipe In Double Wall Pipe System, Deduct	1,181.57 -306.13	272.23

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0057			Fiberglass Reinforced Plastic Bell x Male Or Female Adapters (23 11 26 00-0011)		
23 11 26 00-0058	EA		2" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter	217.16	79.63
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-89.57	
23 11 26 00-0059	EA		3" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter	249.24	95.62
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-107.48	
23 11 26 00-0060	EA		4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter	282.53	111.17
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-124.95	
23 11 26 00-0061	EA		4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter	346.56	132.06
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-145.77	
23 11 26 00-0062	EA		6" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter	407.14	145.85
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-164.00	
23 11 26 00-0063	EA		8" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter	400.95	182.26
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-205.00	
23 11 26 00-0064	EA		10" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter	512.55	219.54
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-246.88	
23 11 26 00-0065	EA		12" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter	806.91	272.23
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-306.13	
23 11 26 00-0066			Fiberglass Reinforced Plastic Nipples (23 11 26 00-0011)		
23 11 26 00-0067	EA		2" x 6" Fiberglass Reinforced Plastic Nipple	41.31	9.55
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-10.75	
23 11 26 00-0068	EA		2" x 12" Fiberglass Reinforced Plastic Nipple	82.56	19.10
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-21.44	
23 11 26 00-0069	EA		3" x 8" Fiberglass Reinforced Plastic Nipple	139.91	14.66
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-16.49	
23 11 26 00-0070	EA		3" x 12" Fiberglass Reinforced Plastic Nipple	162.57	20.45
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-22.99	
23 11 26 00-0071	EA		4" x 8" Fiberglass Reinforced Plastic Nipple	151.79	14.54
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-16.40	
23 11 26 00-0072	EA		4" x 12" Fiberglass Reinforced Plastic Nipple	182.69	21.87
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-24.59	
23 11 26 00-0073	EA		6" x 12" Fiberglass Reinforced Plastic Nipple	226.99	24.49
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-27.06	
23 11 26 00-0074	EA		6" x 12" Fiberglass Reinforced Plastic Nipple	271.25	26.24
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-29.55	
23 11 26 00-0075	EA		8" x 18" Fiberglass Reinforced Plastic Nipple	143.06	30.62
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-34.44	
23 11 26 00-0076	EA		8" x 24" Fiberglass Reinforced Plastic Nipple	195.07	43.74
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-49.16	
23 11 26 00-0077	EA		10" x 18" Fiberglass Reinforced Plastic Nipple	240.65	31.16
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-35.00	
23 11 26 00-0078	EA		10" x 24" Fiberglass Reinforced Plastic Nipple	361.21	46.58
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-52.43	
23 11 26 00-0079	EA		12" x 18" Fiberglass Reinforced Plastic Nipple	281.08	32.15
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-36.10	
23 11 26 00-0080	EA		12" x 24" Fiberglass Reinforced Plastic Nipple	367.72	48.11
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-54.16	
23 11 26 00-0081			Fiberglass Reinforced Plastic Sleeve Couplings (23 11 26 00-0011)		
23 11 26 00-0082	EA		2" Fiberglass Reinforced Plastic Sleeve Coupling	144.20	79.63
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-89.57	
23 11 26 00-0083	EA		3" Fiberglass Reinforced Plastic Sleeve Coupling	173.49	95.62
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-107.48	
23 11 26 00-0084	EA		4" Fiberglass Reinforced Plastic Sleeve Coupling	200.58	111.17
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-124.95	
23 11 26 00-0085	EA		5" Fiberglass Reinforced Plastic Sleeve Coupling	241.34	132.06
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-145.77	
23 11 26 00-0086	EA		6" Fiberglass Reinforced Plastic Sleeve Coupling	278.62	145.85
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-164.00	
23 11 26 00-0087	EA		8" Fiberglass Reinforced Plastic Sleeve Coupling	361.27	182.26
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-205.00	
23 11 26 00-0088	EA		10" Fiberglass Reinforced Plastic Sleeve Coupling	463.08	219.54
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-246.88	
23 11 26 00-0089	EA		12" Fiberglass Reinforced Plastic Sleeve Coupling	566.07	272.23
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-306.13	
23 11 26 00-0090			Fiberglass Reinforced Plastic Flanges (23 11 26 00-0011)		
23 11 26 00-0091	EA		2" Fiberglass Reinforced Plastic Flange	147.30	79.63
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-89.57	
23 11 26 00-0092	EA		3" Fiberglass Reinforced Plastic Flange	177.59	95.62
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-107.48	
23 11 26 00-0093	EA		4" Fiberglass Reinforced Plastic Flange	210.08	109.22
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-122.78	
23 11 26 00-0094	EA		5" Fiberglass Reinforced Plastic Flange	253.50	130.00
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-143.50	
23 11 26 00-0095	EA		6" Fiberglass Reinforced Plastic Flange	296.61	145.85
			<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-164.00	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Facility Fuel Systems			23 10	
Facility Fuel Piping			23 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0096 EA 8" Fiberglass Reinforced Plastic Flange For Use As Inner Pipe In Double Wall Pipe System, Deduct	367.58 -196.24	174.49
23 11 26 00-0097 EA 10" Fiberglass Reinforced Plastic Flange For Use As Inner Pipe In Double Wall Pipe System, Deduct	491.07 -246.88	219.54
23 11 26 00-0098 EA 12" Fiberglass Reinforced Plastic Flange For Use As Inner Pipe In Double Wall Pipe System, Deduct	678.00 -306.13	272.23
23 11 26 00-0099 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing And Fittings (23 11 26)		
23 11 26 00-0100 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing (23 11 26 00-0099)		
23 11 26 00-0101 LF 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	129.05	34.32
23 11 26 00-0102 LF 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	153.82	40.65
23 11 26 00-0103 LF 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	196.71	59.97
23 11 26 00-0104 LF 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	276.08	77.75
23 11 26 00-0105 LF 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	396.16	94.02
23 11 26 00-0106 LF 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	539.54	111.52
23 11 26 00-0107 LF 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	689.31	140.71
23 11 26 00-0108 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Fittings (23 11 26 00-0099)		
23 11 26 00-0109 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbows (23 11 26 00-0108)		
23 11 26 00-0110 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	2,283.46	424.71
23 11 26 00-0111 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	2,630.61	509.78
23 11 26 00-0112 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	3,288.53	592.41
23 11 26 00-0113 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	5,745.72	777.68
23 11 26 00-0114 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	9,293.66	972.28
23 11 26 00-0115 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	12,526.36	1,169.74
23 11 26 00-0116 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	16,721.98	1,448.53
23 11 26 00-0117 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbows (23 11 26 00-0108)		
23 11 26 00-0118 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	2,287.04	424.71
23 11 26 00-0119 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	2,624.33	509.78
23 11 26 00-0120 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	3,283.60	592.41
23 11 26 00-0121 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	5,716.69	777.68
23 11 26 00-0122 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	9,251.64	972.28
23 11 26 00-0123 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	12,469.39	1,170.29
23 11 26 00-0124 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	16,648.90	1,451.82
23 11 26 00-0125 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tees (23 11 26 00-0108)		
23 11 26 00-0126 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	3,182.49	637.07
23 11 26 00-0127 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	3,985.31	767.79
23 11 26 00-0128 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	4,499.68	889.07
23 11 26 00-0129 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	7,310.68	1,170.83
23 11 26 00-0130 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	9,242.17	1,451.82
23 11 26 00-0131 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	16,027.86	1,754.22
23 11 26 00-0132 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	21,881.50	2,126.94
23 11 26 00-0133 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wyes (23 11 26 00-0108)		
23 11 26 00-0134 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	4,690.15	637.07
23 11 26 00-0135 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	6,141.74	766.90
23 11 26 00-0136 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	7,240.75	889.07
23 11 26 00-0137 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	9,237.74	1,170.83
23 11 26 00-0138 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	12,289.74	1,451.82
23 11 26 00-0139 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	19,871.82	1,754.22

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0140	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	26,071.64	2,126.94
23 11 26 00-0141		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducers (23 11 26 00-0108)		
23 11 26 00-0142	EA	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer	2,524.05	424.71
23 11 26 00-0143	EA	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer	3,366.37	509.78
23 11 26 00-0144	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer	3,613.17	592.41
23 11 26 00-0145	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer	4,738.39	777.68
23 11 26 00-0146	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer	6,437.36	972.28
23 11 26 00-0147	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer	8,382.43	1,169.74
23 11 26 00-0148	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer	11,774.79	1,448.53
23 11 26 00-0149		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapters (23 11 26 00-0108)		
23 11 26 00-0150	EA	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter	1,850.26	424.71
23 11 26 00-0151	EA	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter	2,079.59	509.78
23 11 26 00-0152	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter	2,327.63	592.41
23 11 26 00-0153	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter	3,506.21	777.68
23 11 26 00-0154	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter	3,042.35	972.28
23 11 26 00-0155	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter	4,030.71	1,169.74
23 11 26 00-0156	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter	7,122.79	1,448.53
23 11 26 00-0157		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipples (23 11 26 00-0108)		
23 11 26 00-0158	EA	2" x 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	411.46	50.98
23 11 26 00-0159	EA	2" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	822.54	101.73
23 11 26 00-0160	EA	3" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	1,581.51	78.19
23 11 26 00-0161	EA	3" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	1,801.37	109.01
23 11 26 00-0162	EA	4" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	1,729.76	77.74
23 11 26 00-0163	EA	4" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	2,036.19	116.66
23 11 26 00-0164	EA	6" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	3,088.94	140.17
23 11 26 00-0165	EA	8" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	1,451.04	163.35
23 11 26 00-0166	EA	8" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	1,957.78	233.20
23 11 26 00-0167	EA	10" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	2,657.41	165.97
23 11 26 00-0168	EA	10" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	3,989.79	248.62
23 11 26 00-0169	EA	12" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	3,149.10	171.22
23 11 26 00-0170	EA	12" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple	4,054.35	256.82
23 11 26 00-0171		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanges (23 11 26 00-0108)		
23 11 26 00-0172	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange	1,448.82	582.30
23 11 26 00-0173	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange	2,133.82	777.68
23 11 26 00-0174	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange	2,710.88	930.86
23 11 26 00-0175	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange	3,763.94	1,169.74
23 11 26 00-0176	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange	5,522.09	1,448.53
23 12 Facility Fuel Pumps (23 10)				
23 12 13 Facility Fuel-Oil Pumps (23 12)				
23 12 13 00-0001		Cast Iron Internal Gear Rotary Pump (23 12 13)		
		Note: Heavy-duty type with relief valve, 1150 RPM drip-proof motor, common base plate. For viscosity to 20 centipoise, diesel oil, and light oil.		
23 12 13 00-0002		10 GPM 1" Discharge (23 12 13 00-0001)		
23 12 13 00-0003	EA	10 GPM Cast Iron Rotary Pump, 20 PSI 1/2 HP With 1" Discharge	1,532.34	322.25
23 12 13 00-0004	EA	10 GPM Cast Iron Rotary Pump, 40 PSI 3/4 HP With 1" Discharge	1,611.10	390.04
23 12 13 00-0005	EA	10 GPM Cast Iron Rotary Pump, 60 PSI 1 HP With 1" Discharge	1,766.29	463.38
23 12 13 00-0006		25 GPM 1-1/4" Discharge (23 12 13 00-0001)		
23 12 13 00-0007	EA	25 GPM Cast Iron Rotary Pump, 20 PSI 1 HP With 1-1/4" Discharge	1,659.30	322.25

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Facility Fuel Systems

23 10

Facility Fuel Pumps

23 12**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 12 13 00-0008 EA 25 GPM Cast Iron Rotary Pump, 40 PSI 1.5 HP With 1-1/4" Discharge	1,748.72	390.04
23 12 13 00-0009 EA 25 GPM Cast Iron Rotary Pump, 60 PSI 2 HP With 1-1/4" Discharge	1,837.94	463.38
23 12 13 00-0010 Pump, Fuel Oil, 2 Stage 3450 RPM 100 PSI (23 12 13)		
23 12 13 00-0011 EA 1/4 HP Pump Fuel Oil/Diesel	1,155.18	180.57
23 12 13 00-0012 EA 1/3 HP Pump Fuel Oil/Diesel	1,356.11	202.25
23 12 13 00-0013 EA 1/2 HP Pump Fuel Oil/Diesel	1,483.84	226.69
23 12 13 00-0014 EA 3/4 HP Pump Fuel Oil/Diesel	1,620.47	255.58
23 12 13 00-0015 EA 1 HP Pump Fuel Oil/Diesel	2,264.12	284.48
23 12 13 00-0016 EA 1-1/2 HP Pump Fuel Oil/Diesel	2,763.15	318.36
23 12 13 00-0017 EA 2 HP Pump Fuel Oil/Diesel	3,062.92	356.70
23 12 13 00-0018 EA 3 HP Pump Fuel Oil/Diesel	3,727.26	398.93
23 12 13 00-0019 EA 5 HP Pump Fuel Oil/Diesel	4,388.93	447.27
23 12 13 00-0020 EA 7.5 HP Pump Fuel Oil/Diesel	4,914.20	501.72
23 12 13 00-0021 EA 10 HP Pump Fuel Oil/Diesel	5,509.63	562.39
23 12 23 Facility Natural-Gas Pumps (23 12)		
23 12 23 00-0001 Natural Gas Booster Pump (23 12 23)		
23 12 23 00-0002 EA Natural Gas Booster Pump, 3/4" Outlet Size	1,271.13	166.69
23 12 23 00-0003 EA Natural Gas Booster Pump, 1" Outlet Size	1,509.89	186.13
23 12 23 00-0004 EA Natural Gas Booster Pump, 1-1/4" Outlet Size	1,685.63	194.47
23 12 23 00-0005 EA Natural Gas Booster Pump, 1-1/2" Outlet Size	1,927.49	202.80
23 12 23 00-0006 EA Natural Gas Booster Pump, 2" Outlet Size	2,184.59	208.35
23 13 Facility Fuel-Storage Tanks (23 10)		
23 13 13 Facility Underground Fuel-Oil, Storage Tanks (23 13)		
23 13 13 13 Double-Wall Steel, Underground Fuel-Oil, Storage Tanks (23 13 13)		
23 13 13 13-0001 Coated Underground Double Wall Storage Tanks (23 13 13 13)		
Note: Includes setting in place with hold down bars and manway and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes excavation, pad, plastic lining, pumps and piping.		
23 13 13 13-0002 EA 250 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	17,560.21	783.00
23 13 13 13-0003 EA 550 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	18,978.26	783.00
23 13 13 13-0004 EA 1,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	27,439.49	978.68
23 13 13 13-0005 EA 2,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	37,522.45	1,911.60
23 13 13 13-0006 EA 3,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	59,803.35	2,457.64
23 13 13 13-0007 EA 4,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	66,614.46	2,822.68
23 13 13 13-0008 EA 5,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	71,842.35	3,732.18
23 13 13 13-0009 EA 6,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	74,276.44	4,007.13
23 13 13 13-0010 EA 8,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	90,667.82	4,733.92
23 13 13 13-0011 EA 10,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	105,008.22	5,460.23
23 13 13 13-0012 EA 12,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	134,425.44	6,004.56
23 13 13 13-0013 EA 14,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	159,341.46	7,290.50
23 13 13 13-0014 EA 15,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	164,568.52	7,737.12
23 13 13 13-0015 EA 20,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	201,651.72	12,272.69
23 13 13 13-0016 EA 25,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	247,739.43	15,914.66
23 13 13 13-0017 EA 30,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	291,947.29	18,209.26
23 13 13 13-0018 EA 40,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	375,864.91	19,574.97
23 13 13 13-0019 EA 48,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	509,834.78	20,076.93
23 13 13 23 Glass-Fiber-Reinforced-Plastic, Underground Fuel-Oil, Storage Tanks (23 13 13)		
23 13 13 23-0001 Underground Fiberglass Storage Tanks (23 13 13 23)		
23 13 13 23-0002 Single Wall Fiberglass Underground Storage Tanks (23 13 13 23-0001)		
Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.		
23 13 13 23-0003 EA 550 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	4,667.39	783.00
23 13 13 23-0004 EA 1,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	5,863.60	978.68
23 13 13 23-0005 EA 2,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	7,623.72	1,210.92
23 13 13 23-0006 EA 2,500 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	8,645.08	1,474.95
23 13 13 23-0007 EA 3,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	9,662.93	1,729.88
23 13 13 23-0008 EA 4,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	11,733.54	2,276.16
23 13 13 23-0009 EA 5,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	13,891.53	3,459.76
23 13 13 23-0010 EA 6,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	15,653.78	4,370.23
23 13 13 23-0011 EA 8,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	18,821.46	4,916.50
23 13 13 23-0012 EA 10,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	21,145.81	5,826.96
23 13 13 23-0013 EA 12,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	27,323.45	6,919.52
23 13 13 23-0014 EA 15,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	33,564.49	8,649.40
23 13 13 23-0015 EA 20,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	42,301.67	11,562.88
23 13 13 23-0016 EA 25,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	63,558.35	14,385.32
23 13 13 23-0017 EA 30,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	77,969.54	17,298.80
23 13 13 23-0018 EA 40,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	111,223.29	25,037.74
23 13 13 23-0019 EA 50,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	158,845.98	31,866.21

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**23 13 13 23-0020****Double Wall Fiberglass Underground Storage Tanks** (23 13 13 23-0001)

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

23 13 13 23-0021	EA	550 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	9,087.88	783.00
23 13 13 23-0022	EA	1,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	11,984.49	978.68
23 13 13 23-0023	EA	2,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	14,367.96	1,183.61
23 13 13 23-0024	EA	3,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	18,657.67	1,730.00
23 13 13 23-0025	EA	4,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	20,915.67	2,276.16
23 13 13 23-0026	EA	5,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	23,985.63	3,459.76
23 13 13 23-0027	EA	6,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	26,647.35	4,370.23
23 13 13 23-0028	EA	8,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	32,813.29	4,916.50
23 13 13 23-0029	EA	10,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	35,137.63	5,826.96
23 13 13 23-0030	EA	12,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	42,564.55	6,919.52
23 13 13 23-0031	EA	15,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	58,612.35	8,649.40
23 13 13 23-0032	EA	20,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	72,534.00	11,562.88
23 13 13 23-0033	EA	30,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	112,199.54	17,298.80

23 13 13 23-0034**Underground Storage Tank Pump Enclosures** (23 13 13 23)

23 13 13 23-0035	EA	Secondary Containment Collar	3,294.80	
23 13 13 23-0036	EA	Turbine Enclosure With Lid 4' Long x 42" Diameter	3,294.80	
23 13 13 23-0037	EA	Fitting Kit For Turbine Enclosure x x x	658.96	
23 13 13 23-0038	EA	Grommet Kits For Plumbing And Electrical	1,317.92	
23 13 13 23-0039	EA	Turbine Electrical Coupling Kit	1,647.40	

23 13 23 Facility Aboveground Fuel-Oil, Storage Tanks (23 13)**23 13 23 13 Vertical, Steel, Aboveground Fuel-Oil, Storage Tanks** (23 13 23)**23 13 23 13-0001 Vertical Rectangular Double Wall Steel Fuel Day Tank** (23 13 23 13)

Note: Includes day tank with standard equipment, pump, pump control, level control, backup level control, level alarms, alarm outputs.

23 13 23 13-0002	EA	10 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,194.52	144.80
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0003	EA	15 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,282.43	152.04
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0004	EA	25 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,391.88	162.89
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0005	EA	50 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,597.85	173.75
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0006	EA	60 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,780.57	180.99
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0007	EA	75 Gallon Double Wall Steel Day Tank (Tramont TRX)	2,099.45	217.19
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0008	EA	100 Gallon Double Wall Steel Day Tank (Tramont TRX)	2,821.68	253.39
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0009	EA	150 Gallon Double Wall Steel Day Tank (Tramont TRX)	3,568.04	289.58
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0010	EA	200 Gallon Double Wall Steel Day Tank (Tramont TRX)	4,572.93	325.78
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0011	EA	275 Gallon Double Wall Steel Day Tank (Tramont TRX)	5,096.93	361.98
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0012	EA	300 Gallon Double Wall Steel Day Tank (Tramont TRX)	5,834.67	434.38
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0013	EA	350 Gallon Double Wall Steel Day Tank (Tramont TRX)	6,537.94	506.77
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0014	EA	400 Gallon Double Wall Steel Day Tank (Tramont TRX)	7,261.88	579.17
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0015	EA	450 Gallon Double Wall Steel Day Tank (Tramont TRX)	8,056.50	615.37
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0016	EA	500 Gallon Double Wall Steel Day Tank (Tramont TRX)	8,856.29	651.57
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0017	EA	550 Gallon Double Wall Steel Day Tank (Tramont TRX)	9,764.68	687.76
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0018	EA	600 Gallon Double Wall Steel Day Tank (Tramont TRX)	10,559.30	723.96
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0019	EA	700 Gallon Double Wall Steel Day Tank (Tramont TRX)	11,765.88	868.76
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0020	EA	800 Gallon Double Wall Steel Day Tank (Tramont TRX)	12,691.49	941.15
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0021	EA	900 Gallon Double Wall Steel Day Tank (Tramont TRX)	13,934.27	1,085.94
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0022	EA	1,000 Gallon Double Wall Steel Day Tank (Tramont TRX)	15,182.22	1,230.74
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0023	EA	10 Gallon Double Wall Steel Day Tank (Tramont UTRX)	1,446.17	144.80
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0024	EA	15 Gallon Double Wall Steel Day Tank (Tramont UTRX)	1,535.81	152.04
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0025	EA	25 Gallon Double Wall Steel Day Tank (Tramont UTRX)	1,645.26	162.89
		Note: Includes rust-inhibitor coated interior and gray painted exterior.		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0026	EA	50 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	1,849.51	173.75
23 13 23 13-0027	EA	60 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	2,032.22	180.99
23 13 23 13-0028	EA	75 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	2,352.83	217.19
23 13 23 13-0029	EA	100 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	3,099.20	253.39
23 13 23 13-0030	EA	150 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	3,845.55	289.58
23 13 23 13-0031	EA	200 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	4,850.45	325.78
23 13 23 13-0032	EA	275 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	5,374.45	361.98
23 13 23 13-0033	EA	300 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	6,112.18	434.38
23 13 23 13-0034	EA	350 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	6,815.45	506.77
23 13 23 13-0035	EA	400 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	7,539.40	579.17
23 13 23 13-0036	EA	450 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	8,334.01	615.37
23 13 23 13-0037	EA	500 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	9,133.80	651.57
23 13 23 13-0038	EA	550 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	10,043.92	687.76
23 13 23 13-0039	EA	600 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	10,838.53	723.96
23 13 23 13-0040	EA	700 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	12,043.39	868.76
23 13 23 13-0041	EA	800 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	12,969.00	941.15
23 13 23 13-0042	EA	900 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	14,211.78	1,085.94
23 13 23 13-0043	EA	1,000 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	15,459.74	1,230.74
23 13 23 13-0044	EA	10 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,399.37	144.80
23 13 23 13-0045	EA	15 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,478.66	152.04
23 13 23 13-0046	EA	25 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,550.19	162.89
23 13 23 13-0047	EA	50 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,823.39	173.75
23 13 23 13-0048	EA	60 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,926.81	180.99
23 13 23 13-0049	EA	75 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,235.35	217.19
23 13 23 13-0050	EA	100 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,893.81	253.39
23 13 23 13-0051	EA	150 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,912.51	289.58
23 13 23 13-0052	EA	200 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,524.41	325.78
23 13 23 13-0053	EA	275 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	7,217.06	361.98
23 13 23 13-0054	EA	300 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,158.19	434.38
23 13 23 13-0055	EA	350 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,727.01	506.77
23 13 23 13-0056	EA	400 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,499.22	579.17
23 13 23 13-0057	EA	450 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,257.64	615.37
23 13 23 13-0058	EA	500 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,257.38	651.57
23 13 23 13-0059	EA	550 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,674.52	687.76
23 13 23 13-0060	EA	600 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,048.56	723.96
23 13 23 13-0061	EA	700 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	13,784.31	868.76
23 13 23 13-0062	EA	800 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	15,463.16	941.15
23 13 23 13-0063	EA	900 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	17,302.34	1,085.94
23 13 23 13-0064	EA	1,000 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	19,170.82	1,230.74
23 13 23 13-0065	EA	10 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,537.00	144.80
23 13 23 13-0066	EA	15 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,616.29	152.04
23 13 23 13-0067	EA	25 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,687.82	162.89

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23	EA	50 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	3,961.02	173.75
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	60 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	4,064.44	180.99
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	75 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	4,372.98	217.19
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	100 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	5,031.44	253.39
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	150 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	6,050.14	289.58
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	200 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	6,737.88	325.78
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	275 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	7,958.24	361.98
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	300 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	8,899.37	434.38
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	350 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	9,469.91	506.77
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	400 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	10,240.40	579.17
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	450 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	11,000.55	615.37
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	500 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	11,998.56	651.57
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	550 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	12,415.70	687.76
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	600 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	12,789.74	723.96
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	700 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	14,525.49	868.76
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	800 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	16,206.07	941.15
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	900 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	18,043.52	1,085.94
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	1,000 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE).....	19,912.00	1,230.74
		Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	10 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	4,173.03	144.80
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	15 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	4,260.95	152.04
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	25 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	4,334.20	162.89
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	50 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	4,616.02	173.75
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	60 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	4,767.70	180.99
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	75 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	5,048.67	217.19
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	100 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	5,732.98	253.39
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	150 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	6,799.94	289.58
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	200 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	7,434.24	325.78
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	275 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	9,192.40	361.98
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	300 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	10,181.79	434.38
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	350 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	10,697.17	506.77
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	400 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	11,572.81	579.17
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	450 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	12,489.81	615.37
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	500 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	13,411.98	651.57
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		
23 13 23	EA	550 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS).....	13,879.10	687.76
		Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.		



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Facility Fuel Systems			23 10	
Facility Fuel-Storage Tanks			23 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23	13-0102	EA	600 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,227.29	723.96
23 13 23	13-0103	EA	700 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	16,040.60	868.76
23 13 23	13-0104	EA	800 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	17,800.47	941.15
23 13 23	13-0105	EA	900 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	19,720.66	1,085.94
23 13 23	13-0106	EA	1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	21,666.71	1,230.74
23 13 23	13-0107	EA	10 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,310.66	144.80
23 13 23	13-0108	EA	15 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,398.57	152.04
23 13 23	13-0109	EA	25 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,471.83	162.89
23 13 23	13-0110	EA	50 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,753.65	173.75
23 13 23	13-0111	EA	60 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,905.33	180.99
23 13 23	13-0112	EA	75 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,182.85	217.19
23 13 23	13-0113	EA	100 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,870.61	253.39
23 13 23	13-0114	EA	150 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	7,937.57	289.58
23 13 23	13-0115	EA	200 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	8,571.87	325.78
23 13 23	13-0116	EA	275 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	9,933.58	361.98
23 13 23	13-0117	EA	300 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,922.97	434.38
23 13 23	13-0118	EA	350 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	11,610.73	506.77
23 13 23	13-0119	EA	400 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	12,313.99	579.17
23 13 23	13-0120	EA	450 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,230.99	615.37
23 13 23	13-0121	EA	500 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,153.16	651.57
23 13 23	13-0122	EA	550 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,620.29	687.76
23 13 23	13-0123	EA	600 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,970.19	723.96
23 13 23	13-0124	EA	700 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	16,781.79	868.76
23 13 23	13-0125	EA	800 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	18,541.66	941.15
23 13 23	13-0126	EA	900 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	20,461.84	1,085.94
23 13 23	13-0127	EA	1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	22,407.89	1,230.74
23 13 23	13-0128	EA	150% Containment Double Wall Open Top Basin For 10 Gallon Tank.....	1,183.28	144.80
23 13 23	13-0129	EA	150% Containment Double Wall Open Top Basin For 15 Gallon Tank.....	1,281.81	152.04
23 13 23	13-0130	EA	150% Containment Double Wall Open Top Basin For 25 Gallon Tank.....	1,390.92	162.89
23 13 23	13-0131	EA	150% Containment Double Wall Open Top Basin For 50 Gallon Tank.....	1,588.75	173.75
23 13 23	13-0132	EA	150% Containment Double Wall Open Top Basin For 60 Gallon Tank.....	2,108.20	180.99
23 13 23	13-0133	EA	150% Containment Double Wall Open Top Basin For 75 Gallon Tank.....	2,168.53	217.19
23 13 23	13-0134	EA	150% Containment Double Wall Open Top Basin For 100 Gallon Tank.....	2,724.88	253.39

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0135 EA 150% Containment Double Wall Open Top Basin For 150 Gallon Tank.....	3,369.95	289.58
23 13 23 13-0136 EA 150% Containment Double Wall Open Top Basin For 200 Gallon Tank.....	4,422.28	325.78
23 13 23 13-0137 EA 150% Containment Double Wall Open Top Basin For 275 Gallon Tank.....	5,551.99	361.98
23 13 23 13-0138 EA 150% Containment Double Wall Open Top Basin For 300 Gallon Tank.....	6,664.66	434.38
23 13 23 13-0139 EA 150% Containment Double Wall Open Top Basin For 350 Gallon Tank.....	7,165.29	506.77
23 13 23 13-0140 EA 150% Containment Double Wall Open Top Basin For 400 Gallon Tank.....	7,668.19	579.17
23 13 23 13-0141 EA 150% Containment Double Wall Open Top Basin For 450 Gallon Tank.....	8,417.92	615.37
23 13 23 13-0142 EA 150% Containment Double Wall Open Top Basin For 500 Gallon Tank.....	9,169.93	651.57
23 13 23 13-0143 EA 150% Containment Double Wall Open Top Basin For 550 Gallon Tank.....	9,824.13	687.76
23 13 23 13-0144 EA 150% Containment Double Wall Open Top Basin For 600 Gallon Tank.....	10,485.11	723.96
23 13 23 13-0145 EA 150% Containment Double Wall Open Top Basin For 700 Gallon Tank.....	11,868.61	868.76
23 13 23 13-0146 EA 150% Containment Double Wall Open Top Basin For 800 Gallon Tank.....	13,172.39	941.15
23 13 23 13-0147 EA 150% Containment Double Wall Open Top Basin For 900 Gallon Tank.....	14,633.25	1,085.94
23 13 23 13-0148 EA 150% Containment Double Wall Open Top Basin For 1,000 Gallon Tank.....	16,044.06	1,230.74
23 13 23 13-0149 EA 200% Containment Double Wall Open Top Basin For 10 Gallon Tank.....	1,247.68	152.04
23 13 23 13-0150 EA 200% Containment Double Wall Open Top Basin For 15 Gallon Tank.....	1,357.04	162.89
23 13 23 13-0151 EA 200% Containment Double Wall Open Top Basin For 25 Gallon Tank.....	1,471.20	173.75
23 13 23 13-0152 EA 200% Containment Double Wall Open Top Basin For 50 Gallon Tank.....	1,673.00	180.99
23 13 23 13-0153 EA 200% Containment Double Wall Open Top Basin For 60 Gallon Tank.....	2,268.90	217.19
23 13 23 13-0154 EA 200% Containment Double Wall Open Top Basin For 75 Gallon Tank.....	2,329.24	253.39
23 13 23 13-0155 EA 200% Containment Double Wall Open Top Basin For 100 Gallon Tank.....	2,913.13	289.58
23 13 23 13-0156 EA 200% Containment Double Wall Open Top Basin For 150 Gallon Tank.....	3,590.68	325.78
23 13 23 13-0157 EA 200% Containment Double Wall Open Top Basin For 200 Gallon Tank.....	4,698.13	361.98
23 13 23 13-0158 EA 200% Containment Double Wall Open Top Basin For 275 Gallon Tank.....	5,887.24	398.18
23 13 23 13-0159 EA 200% Containment Double Wall Open Top Basin For 300 Gallon Tank.....	7,055.03	470.57
23 13 23 13-0160 EA 200% Containment Double Wall Open Top Basin For 350 Gallon Tank.....	7,576.76	542.97
23 13 23 13-0161 EA 200% Containment Double Wall Open Top Basin For 400 Gallon Tank.....	8,100.90	615.37
23 13 23 13-0162 EA 200% Containment Double Wall Open Top Basin For 450 Gallon Tank.....	8,888.94	651.57
23 13 23 13-0163 EA 200% Containment Double Wall Open Top Basin For 500 Gallon Tank.....	9,679.38	687.76
23 13 23 13-0164 EA 200% Containment Double Wall Open Top Basin For 550 Gallon Tank.....	10,366.56	723.96
23 13 23 13-0165 EA 200% Containment Double Wall Open Top Basin For 600 Gallon Tank.....	11,121.24	796.36
23 13 23 13-0166 EA 200% Containment Double Wall Open Top Basin For 700 Gallon Tank.....	12,568.19	941.15
23 13 23 13-0167 EA 200% Containment Double Wall Open Top Basin For 800 Gallon Tank.....	14,058.37	1,085.94
23 13 23 13-0168 EA 200% Containment Double Wall Open Top Basin For 900 Gallon Tank.....	15,586.99	1,230.74
23 13 23 13-0169 EA 200% Containment Double Wall Open Top Basin For 1,000 Gallon Tank.....	17,062.76	1,375.53
23 13 23 13-0170 EA 150% Containment Double Wall Sealed Top Basin For 10 Gallon Tank.....	1,363.02	144.80
23 13 23 13-0171 EA 150% Containment Double Wall Sealed Top Basin For 15 Gallon Tank.....	1,484.30	152.04
23 13 23 13-0172 EA 150% Containment Double Wall Sealed Top Basin For 25 Gallon Tank.....	1,607.07	162.89
23 13 23 13-0173 EA 150% Containment Double Wall Sealed Top Basin For 50 Gallon Tank.....	1,850.41	173.75
23 13 23 13-0174 EA 150% Containment Double Wall Sealed Top Basin For 60 Gallon Tank.....	2,467.70	180.99
23 13 23 13-0175 EA 150% Containment Double Wall Sealed Top Basin For 75 Gallon Tank.....	2,528.03	217.19
23 13 23 13-0176 EA 150% Containment Double Wall Sealed Top Basin For 100 Gallon Tank.....	3,166.28	253.39
23 13 23 13-0177 EA 150% Containment Double Wall Sealed Top Basin For 150 Gallon Tank.....	3,918.29	289.58
23 13 23 13-0178 EA 150% Containment Double Wall Sealed Top Basin For 200 Gallon Tank.....	5,156.57	325.78
23 13 23 13-0179 EA 150% Containment Double Wall Sealed Top Basin For 275 Gallon Tank.....	6,544.00	361.98
23 13 23 13-0180 EA 150% Containment Double Wall Sealed Top Basin For 300 Gallon Tank.....	7,859.17	434.38
23 13 23 13-0181 EA 150% Containment Double Wall Sealed Top Basin For 350 Gallon Tank.....	8,430.33	506.77
23 13 23 13-0182 EA 150% Containment Double Wall Sealed Top Basin For 400 Gallon Tank.....	9,006.04	579.17
23 13 23 13-0183 EA 150% Containment Double Wall Sealed Top Basin For 450 Gallon Tank.....	9,899.11	615.37
23 13 23 13-0184 EA 150% Containment Double Wall Sealed Top Basin For 500 Gallon Tank.....	10,794.46	651.57
23 13 23 13-0185 EA 150% Containment Double Wall Sealed Top Basin For 550 Gallon Tank.....	11,555.58	687.76
23 13 23 13-0186 EA 150% Containment Double Wall Sealed Top Basin For 600 Gallon Tank.....	12,334.89	723.96
23 13 23 13-0187 EA 150% Containment Double Wall Sealed Top Basin For 700 Gallon Tank.....	13,957.30	868.76
23 13 23 13-0188 EA 150% Containment Double Wall Sealed Top Basin For 800 Gallon Tank.....	15,502.26	941.15
23 13 23 13-0189 EA 150% Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....	17,202.02	1,085.94
23 13 23 13-0190 EA 150% Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank.....	18,851.73	1,230.74
23 13 23 13-0191 EA 200% Containment Double Wall Sealed Top Basin For 10 Gallon Tank.....	1,437.41	152.04
23 13 23 13-0192 EA 200% Containment Double Wall Sealed Top Basin For 15 Gallon Tank.....	1,570.79	162.89
23 13 23 13-0193 EA 200% Containment Double Wall Sealed Top Basin For 25 Gallon Tank.....	1,699.35	173.75
23 13 23 13-0194 EA 200% Containment Double Wall Sealed Top Basin For 50 Gallon Tank.....	1,949.19	180.99
23 13 23 13-0195 EA 200% Containment Double Wall Sealed Top Basin For 60 Gallon Tank.....	2,648.36	217.19
23 13 23 13-0196 EA 200% Containment Double Wall Sealed Top Basin For 75 Gallon Tank.....	2,708.70	253.39
23 13 23 13-0197 EA 200% Containment Double Wall Sealed Top Basin For 100 Gallon Tank.....	3,379.05	289.58
23 13 23 13-0198 EA 200% Containment Double Wall Sealed Top Basin For 150 Gallon Tank.....	4,169.48	325.78
23 13 23 13-0199 EA 200% Containment Double Wall Sealed Top Basin For 200 Gallon Tank.....	5,473.21	361.98
23 13 23 13-0200 EA 200% Containment Double Wall Sealed Top Basin For 275 Gallon Tank.....	6,934.37	398.18
23 13 23 13-0201 EA 200% Containment Double Wall Sealed Top Basin For 300 Gallon Tank.....	8,315.90	470.57
23 13 23 13-0202 EA 200% Containment Double Wall Sealed Top Basin For 350 Gallon Tank.....	8,912.09	542.97
23 13 23 13-0203 EA 200% Containment Double Wall Sealed Top Basin For 400 Gallon Tank.....	9,513.08	615.37
23 13 23 13-0204 EA 200% Containment Double Wall Sealed Top Basin For 450 Gallon Tank.....	10,452.42	651.57
23 13 23 13-0205 EA 200% Containment Double Wall Sealed Top Basin For 500 Gallon Tank.....	11,394.17	687.76
23 13 23 13-0206 EA 200% Containment Double Wall Sealed Top Basin For 550 Gallon Tank.....	12,194.21	723.96
23 13 23 13-0207 EA 200% Containment Double Wall Sealed Top Basin For 600 Gallon Tank.....	13,073.79	796.36
23 13 23 13-0208 EA 200% Containment Double Wall Sealed Top Basin For 700 Gallon Tank.....	14,772.91	941.15
23 13 23 13-0209 EA 200% Containment Double Wall Sealed Top Basin For 800 Gallon Tank.....	16,517.67	1,085.94
23 13 23 13-0210 EA 200% Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....	18,298.47	1,230.74
23 13 23 13-0211 EA 200% Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank.....	20,026.41	1,375.53

23 13 23 16 Horizontal, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Facility Fuel Systems			23 10	
Facility Fuel-Storage Tanks			23 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 16-0001 Single Wall Aboveground Storage Tanks (23 13 23 16)		
Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes pumps, piping, pad, foundation excavation and backfill.		
23 13 23 16-0002 EA 300 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	5,320.68	786.95
23 13 23 16-0003 EA 550 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	6,395.86	952.61
23 13 23 16-0004 EA 1,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	8,655.16	1,333.59
23 13 23 16-0005 EA 1,500 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	11,192.70	1,666.98
23 13 23 16-0006 EA 2,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	13,415.81	2,237.19
23 13 23 16-0007 EA 3,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	20,306.83	2,302.99
23 13 23 16-0008 EA 5,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	29,558.97	2,847.33
23 13 23 16-0009 EA 8,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	40,638.44	3,262.50
23 13 23 16-0010 EA 10,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	48,459.45	3,559.06
23 13 23 16-0011 EA 12,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	56,268.26	3,914.99
23 13 23 16-0012 EA 15,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	62,288.15	4,349.95
23 13 23 16-0013 EA 20,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	77,792.07	5,592.80
23 13 23 16-0014 EA 30,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	106,347.27	6,524.99
23 13 23 16-0015 Double Wall Aboveground Storage Tanks (23 13 23 16)		
Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes pumps, piping, pad, foundation excavation and backfill.		
23 13 23 16-0016 EA 300 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	8,462.17	981.94
23 13 23 16-0017 EA 550 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	10,167.80	1,188.26
23 13 23 16-0018 EA 1,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	13,566.81	1,666.98
23 13 23 16-0019 EA 1,500 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	17,799.44	2,083.73
23 13 23 16-0020 EA 2,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	22,864.37	2,796.45
23 13 23 16-0021 EA 2,500 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	27,695.38	2,796.45
For 1/4" Thick Shell, Add	6,646.89	
For Fireguard® Tanks, Add	4,044.88	
23 13 23 16-0022 EA 3,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	32,641.15	2,878.65
23 13 23 16-0023 EA 4,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	40,217.71	3,212.48
For 1/4" Thick Shell, Add	9,652.25	
For Fireguard® Tanks, Add	6,074.98	
23 13 23 16-0024 EA 5,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	47,794.16	3,546.20
23 13 23 16-0025 EA 6,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	53,363.53	3,685.56
For 1/4" Thick Shell, Add	12,807.25	
For Fireguard® Tanks, Add	8,197.40	
23 13 23 16-0026 EA 8,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	66,119.69	4,078.15
23 13 23 16-0027 EA 10,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	79,040.90	4,448.89
23 13 23 16-0028 EA 12,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	91,906.56	4,893.68
23 13 23 16-0029 EA 15,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	101,729.68	5,437.53
23 13 23 16-0030 EA 20,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	126,956.00	6,991.02
23 13 23 16-0031 EA 25,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	150,588.91	7,573.60
For Fireguard® Tanks, Add	23,803.58	
23 13 23 16-0032 EA 30,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	174,221.84	8,156.17
23 13 23 16-0033 Horizontal Rectangular Double Wall Aboveground Fuel Day Tanks (23 13 23 16)		
Note: Includes solenoid valve. Excludes piping and concrete pad.		
23 13 23 16-0034 EA 550 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank	16,517.60	1,188.26
23 13 23 16-0035 EA 750 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank	17,477.38	1,375.26
23 13 23 16-0036 EA 1,000 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank	19,634.09	1,666.98
23 13 23 16-0037 EA 1,500 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank	23,488.12	2,083.73
23 13 23 16-0038 EA 2,000 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank	30,051.09	2,796.45
Note: Includes 2" solenoid valve.		
23 13 23 19 Containment-Dike, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)		
23 13 23 19-0001 Secondary Containment For Above Ground Tanks (23 13 23 19)		
23 13 23 19-0002 EA Steel Dike For 550 Gallon Tank, Uncoated	5,291.56	
23 13 23 19-0003 EA Steel Dike For 1,000 Gallon Tank, Uncoated	6,394.49	
23 13 23 19-0004 EA Steel Dike For 2,000 Gallon Tank, Uncoated	13,949.25	
23 13 23 19-0005 EA Steel Dike For 3,000 Gallon Tank, Uncoated	15,275.33	
23 13 23 19-0006 EA Steel Dike For 5,000 Gallon Tank, Uncoated	21,698.92	
23 13 23 19-0007 EA Steel Dike For 6,000 Gallon Tank, Uncoated	24,310.08	
23 13 23 19-0008 EA Steel Dike For 8,000 Gallon Tank, Uncoated	32,087.95	
23 13 23 19-0009 EA Steel Dike For 10,000 Gallon Tank, Uncoated	37,659.19	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 19-0010	EA	Steel Dike For 12,000 Gallon Tank, Uncoated.....		42,783.99	
23 13 23 19-0011	EA	Steel Dike For 15,000 Gallon Tank, Uncoated.....		52,097.45	
23 13 23 19-0012	EA	Steel Dike For 20,000 Gallon Tank, Uncoated.....		66,689.80	
23 13 23 26 Concrete-Vaulted, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)					
23 13 23 26-0001		Aboveground Concrete Vaulted Storage Tanks (23 13 23 26)			
Note: Includes setting in place with stand, NPT openings for an emergency vent, regular vent, gauge, fill with an internal 5 gallon minimum overfill containment, supply and return and leak detection. All tanks that are 2000 gallon and larger shall have a ladder for access. Excludes excavation, pad, pumps and piping.					
23 13 23 26-0002	EA	500 Gallon Concrete Vaulted Storage Tank	29,456.85		1,693.34
		For Low Profile Tanks, Add	10,837.62		
23 13 23 26-0003	EA	1,000 Gallon Concrete Vaulted Storage Tank	37,086.26		1,911.60
		For Low Profile Tanks, Add	13,767.56		
23 13 23 26-0004	EA	2,000 Gallon Concrete Vaulted Storage Tank	65,733.10		2,276.16
		For Low Profile Tanks, Add	25,022.82		
23 13 23 26-0005	EA	4,000 Gallon Concrete Vaulted Storage Tank	104,232.17		5,006.46
23 13 23 26-0006	EA	5,000 Gallon Concrete Vaulted Storage Tank	119,061.22		5,467.88
23 13 23 26-0007	EA	6,000 Gallon Concrete Vaulted Storage Tank	133,987.50		5,904.90
23 13 23 26-0008	EA	8,000 Gallon Concrete Vaulted Storage Tank	148,888.45		6,407.60
23 13 23 26-0009	EA	10,000 Gallon Concrete Vaulted Storage Tank	163,781.42		6,820.59
23 13 33 Facility Fuel-Oil, Storage Tank Accessories (23 13)					
23 13 33 00-0001		EPA Requirements (23 13 33)			
23 13 33 00-0002	EA	Fill Pipe Spill Containment Manhole (5 Gallon).....	808.89		
23 13 33 00-0003	EA	Over-Fill Prevention Valve	1,487.84		
23 13 33 00-0004	EA	Tank Manway With Cover, Fiberglass	4,815.65		
23 13 33 00-0005	EA	Tank Manway With Cover, Steel.....	3,464.86		
23 13 33 00-0006	EA	Vent Fill Alarm (Whistle Vent)	153.62		
23 13 33 00-0007	EA	Reservoir Sensor, Liquid Level	430.42		
23 13 33 00-0008	EA	Manhole Spill Containment	1,284.97		281.56
23 13 33 00-0009	EA	Fill Adapter, 4"	349.55		187.74
23 13 33 00-0010	EA	Fill Cap, 4"	237.24		70.39
23 13 33 00-0011	EA	2" Vent Cap.....	142.83		46.97
23 13 33 00-0012	EA	4" x 2" Extractor Fitting	478.00		70.39
23 13 33 00-0013	EA	Float Vent Valve	428.48		140.78
23 13 33 00-0014	EA	Vapor Hose Adapter	459.39		93.82
23 13 33 00-0015	EA	Dust Cap.....	198.85		51.24
23 13 33 00-0016	EA	1" Double Poppet Foot Valve.....	489.21		80.41
23 13 33 00-0017	EA	10' Wood Gage Stick	38.68		
23 13 33 00-0018	EA	1-1/4" Tank Filled Breather, NPT	168.15		
23 13 33 00-0019	EA	1-1/2" Tank Filled Breather, Bayonet.....	227.64		
23 13 33 00-0020	EA	2" Cast Iron Combination Fill Cap And Vent.....	81.80		
23 13 33 00-0021	EA	3" Cast Iron Combination Fill Cap And Vent.....	109.19		
23 13 33 00-0022	EA	4" Cast Iron Combination Fill Cap And Vent.....	169.26		
23 13 33 00-0023	EA	Pressure And Vacuum Control Vent	1,018.26		
23 13 33 00-0024	EA	1/4 HP Fuel/Diesel Pump Set	1,990.96		
23 13 33 00-0025	EA	1/3 HP Fuel/Diesel Pump Set	2,358.52		
23 13 33 00-0026	EA	1/2 HP Fuel/Diesel Pump Set	2,568.79		
23 13 33 00-0027	EA	3/4 HP Fuel/Diesel Pump Set	2,814.33		
23 13 33 00-0028	EA	1 HP Fuel/Diesel Pump Set	4,050.17		
23 13 33 00-0029	EA	1-1/2 HP Fuel/Diesel Pump Set	5,010.51		
23 13 33 00-0030	EA	2 HP Fuel/Diesel Pump Set	5,545.95		
23 13 33 00-0031	EA	3 HP Fuel/Diesel Pump Set	6,827.31		
23 13 33 00-0032	EA	5 HP Fuel/Diesel Pump Set	8,089.25		
23 13 33 00-0033	EA	7.5 HP Fuel/Diesel Pump Set	9,054.76		
23 13 33 00-0034	EA	10 HP Fuel/Diesel Pump Set	10,463.01		
23 13 33 00-0035		Tank Bulkhead Fittings (23 13 33)			
23 13 33 00-0036		Tank Bulkhead Fittings (23 13 33 00-0035)			
23 13 33 00-0037		Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)			
23 13 33 00-0038	EA	1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	47.81		
23 13 33 00-0039	EA	3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	53.41		
23 13 33 00-0040	EA	1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	58.71		
23 13 33 00-0041	EA	1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	70.70		
23 13 33 00-0042	EA	1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	73.10		
23 13 33 00-0043	EA	2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	95.50		
23 13 33 00-0044	EA	3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	150.06		
23 13 33 00-0045	EA	4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	260.83		
23 13 33 00-0046		Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Thread x Threaded Connection (23 13 33 00-0036)			
23 13 33 00-0047	EA	1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	55.36		
23 13 33 00-0048	EA	3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	60.93		



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Facility Fuel Systems			23 10	
Facility Fuel-Storage Tanks			23 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 33 00-0049 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	66.53	
23 13 33 00-0050 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	82.86	
23 13 33 00-0051 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	88.45	
23 13 33 00-0052 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	109.41	
23 13 33 00-0053 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	168.60	
23 13 33 00-0054 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	287.16	
23 13 33 00-0055 Chlorinated Polyvinyl Chloride (CPVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0056 EA 1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	57.08	
23 13 33 00-0057 EA 3/4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	65.87	
23 13 33 00-0058 EA 1" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	74.36	
23 13 33 00-0059 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	95.97	
23 13 33 00-0060 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	125.03	
23 13 33 00-0061 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	193.79	
23 13 33 00-0062 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	302.82	
23 13 33 00-0063 Polypropylene Tank Bulkhead Fitting Thread x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0064 EA 1/2" Polypropylene Bulkhead Fitting, Thread x Thread	66.65	
23 13 33 00-0065 EA 3/4" Polypropylene Bulkhead Fitting, Thread x Thread	78.61	
23 13 33 00-0066 EA 1" Polypropylene Bulkhead Fitting, Thread x Thread	96.64	
23 13 33 00-0067 EA 1-1/4" Polypropylene Bulkhead Fitting, Thread x Thread	117.60	
23 13 33 00-0068 EA 1-1/2" Polypropylene Bulkhead Fitting, Thread x Thread	120.00	
23 13 33 00-0069 EA 2" Polypropylene Bulkhead Fitting, Thread x Thread	171.06	
23 13 33 00-0070 EA 3" Polypropylene Bulkhead Fitting, Thread x Thread	304.96	
23 13 33 00-0071 EA 4" Polypropylene Bulkhead Fitting, Thread x Thread	543.13	
23 13 33 00-0072 Polyethylene Tank Bulkhead Fittings Thread x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0073 EA 3/4" Polyethylene Bulkhead Fitting, Thread x Thread	58.91	
23 13 33 00-0074 EA 1" Polyethylene Bulkhead Fitting, Thread x Thread	75.71	
23 13 33 00-0075 EA 1-1/4" Polyethylene Bulkhead Fitting, Thread x Thread	78.13	
23 13 33 00-0076 EA 1-1/2" Polyethylene Bulkhead Fitting, Thread x Thread	80.53	
23 13 33 00-0077 EA 2" Polyethylene Bulkhead Fitting, Thread x Thread	111.71	
23 13 33 00-0078 EA 3" Polyethylene Bulkhead Fitting, Thread x Thread	140.88	
23 13 33 00-0079 TFE Teflon Tank Bulkhead Fittings, Thread x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0080 EA 1/8" TFE Teflon Bulkhead Fitting, Thread x Thread	248.03	
23 13 33 00-0081 EA 1/4" TFE Teflon Bulkhead Fitting, Thread x Thread	283.52	
23 13 33 00-0082 EA 3/8" TFE Teflon Bulkhead Fitting, Thread x Thread	348.39	
23 13 33 00-0083 EA 1/2" TFE Teflon Bulkhead Fitting, Thread x Thread	401.62	
23 13 33 00-0084 EA 3/4" TFE Teflon Bulkhead Fitting, Thread x Thread	462.68	
23 13 33 00-0085 EA 1" TFE Teflon Bulkhead Fitting, Thread x Thread	582.57	
23 13 33 00-0086 EA 1-1/2" TFE Teflon Bulkhead Fitting, Thread x Thread	756.56	
23 13 33 00-0087 EA 2" TFE Teflon Bulkhead Fitting, Thread x Thread	835.83	
23 13 33 00-0088 Self-Aligning Bulkhead Fittings (23 13 33 00-0035)		
23 13 33 00-0089 EA 3/4" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	254.41	
23 13 33 00-0090 EA 1" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	254.88	
23 13 33 00-0091 EA 1-1/2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	371.51	
23 13 33 00-0092 EA 2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	379.36	
23 13 33 00-0093 EA 3" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	511.21	

23 20 HVAC Piping and Pumps (23)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 Hydronic Piping and Pumps (23 20)

23 21 13 Hydronic Piping (23 21)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 13 23 Aboveground Hydronic Piping (23 21 13)

See CSI section 22 11 16 00-0000 for additional galvanized or copper piping, 40 05 23 23-0000 for stainless steel pipe and fittings.

23 21 13 23-0001 Threaded Black Steel Pipe (23 21 13 23)

23 21 13 23-0002 Threaded Black Steel Pipe Assemblies (23 21 13 23-0001)

Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. Includes cutting and threading to length where necessary.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0003	LF	1/2" Schedule 40 Threaded Black Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.00 5.11 4.59	4.44
23 21 13 23-0004	LF	3/4" Schedule 40 Threaded Black Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.93 5.70 4.80	4.77
23 21 13 23-0005	LF	1" Schedule 40 Threaded Black Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.37 6.43 5.06	5.22
23 21 13 23-0006	LF	1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	30.25 7.98 5.46	5.44
23 21 13 23-0007	LF	1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	32.15 8.62 5.54	6.45
23 21 13 23-0008	LF	2" Schedule 40 Threaded Black Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	38.21 10.43 6.24	7.77
23 21 13 23-0009	LF	2-1/2" Schedule 40 Threaded Black Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	54.43 15.47 7.74	9.21
23 21 13 23-0010	LF	3" Schedule 40 Threaded Black Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.10 19.82 9.48	12.33
23 21 13 23-0011	LF	4" Schedule 40 Threaded Black Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	95.14 28.65 10.50	14.54
23 21 13 23-0012	LF	5" Schedule 40 Threaded Black Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.96 44.43 12.52	18.58
23 21 13 23-0013	LF	6" Schedule 40 Threaded Black Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	171.28 54.10 14.18	21.98
23 21 13 23-0014		Threaded Black Steel Pipe And Fittings (23 21 13 23-0001) Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
23 21 13 23-0015		Threaded And Coupled, Black Steel Piping (23 21 13 23-0014) Note: ASTM A-53. Includes coupling. Includes cutting and threading to length where necessary.		
23 21 13 23-0016	LF	3/8" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	7.80 1.55 1.68	2.78
23 21 13 23-0017	LF	1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.39 2.32 2.02	4.44
23 21 13 23-0018	LF	3/4" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.91 2.85 2.15	4.77
23 21 13 23-0019	LF	1" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.08 3.62 2.33	5.22
23 21 13 23-0020	LF	1-1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.68 4.63 2.47	5.44
23 21 13 23-0021	LF	1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.77 5.52 2.90	6.45
23 21 13 23-0022	LF	2" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.93 7.13 3.51	7.77



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0023	LF	2-1/2"	Schedule 40, Threaded And Coupled, Black Steel Pipe	34.81	9.21
			For Schedule 80 Pipe, Add	10.80	
			For Work In Restricted Working Space, Add	4.17	
23 21 13 23-0024	LF	3"	Schedule 40, Threaded And Coupled, Black Steel Pipe.....	45.91	12.33
			For Schedule 80 Pipe, Add	14.18	
			For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0025	LF	4"	Schedule 40, Threaded And Coupled, Black Steel Pipe.....	62.82	14.54
			For Schedule 80 Pipe, Add	20.61	
			For Work In Restricted Working Space, Add	6.56	
23 21 13 23-0026	LF	5"	Schedule 40, Threaded And Coupled, Black Steel Pipe.....	82.25	18.58
			For Schedule 80 Pipe, Add	27.27	
			For Work In Restricted Working Space, Add	8.35	
23 21 13 23-0027	LF	6"	Schedule 40, Threaded And Coupled, Black Steel Pipe.....	104.68	21.98
			For Schedule 80 Pipe, Add	35.59	
			For Work In Restricted Working Space, Add	9.87	
23 21 13 23-0028	LF	8"	Schedule 40, Threaded And Coupled, Black Steel Pipe.....	146.21	26.56
			For Schedule 80 Pipe, Add	51.88	
			For Work In Restricted Working Space, Add	11.93	
23 21 13 23-0029	LF	10"	Schedule 40, Threaded And Coupled, Black Steel Pipe.....	199.26	32.36
			For Schedule 80 Pipe, Add	72.66	
			For Work In Restricted Working Space, Add	14.58	
23 21 13 23-0030	LF	12"	Schedule 40, Threaded And Coupled, Black Steel Pipe.....	266.36	42.53
			For Schedule 80 Pipe, Add	97.54	
			For Work In Restricted Working Space, Add	19.13	
23 21 13 23-0031 Black Malleable Iron 90 Degree Elbows (23 21 13 23-0014)					
23 21 13 23-0032	EA	3/8", 150 Lb., Black Malleable Iron 90 Degree Elbow	29.07	16.44	
		For 300 Lb. Rating, Add	12.02		
		For Standard Weight Cast Iron Fittings, Add	0.07		
		For Work In Restricted Working Space, Add	7.40		
23 21 13 23-0033	EA	1/2", 150 Lb., Black Malleable Iron 90 Degree Elbow	32.66	19.77	
		For 300 Lb. Rating, Add	9.07		
		For Standard Weight Cast Iron Fittings, Add	0.05		
		For Work In Restricted Working Space, Add	8.89		
23 21 13 23-0034	EA	3/4", 150 Lb., Black Malleable Iron 90 Degree Elbow	36.82	22.11	
		For 300 Lb. Rating, Add	10.80		
		For Standard Weight Cast Iron Fittings, Add	0.06		
		For Work In Restricted Working Space, Add	9.95		
23 21 13 23-0035	EA	1", 150 Lb., Black Malleable Iron 90 Degree Elbow	43.39	24.65	
		For 300 Lb. Rating, Add	17.51		
		For Standard Weight Cast Iron Fittings, Add	0.10		
		For Work In Restricted Working Space, Add	11.11		
23 21 13 23-0036	EA	1-1/4", 150 Lb., Black Malleable Iron 90 Degree Elbow	52.41	27.99	
		For 300 Lb. Rating, Add	27.71		
		For Standard Weight Cast Iron Fittings, Add	0.17		
		For Work In Restricted Working Space, Add	12.57		
23 21 13 23-0037	EA	1-1/2", 150 Lb., Black Malleable Iron 90 Degree Elbow	61.08	31.54	
		For 300 Lb. Rating, Add	36.00		
		For Standard Weight Cast Iron Fittings, Add	0.22		
		For Work In Restricted Working Space, Add	14.18		
23 21 13 23-0038	EA	2", 150 Lb., Black Malleable Iron 90 Degree Elbow	83.87	40.09	
		For 300 Lb. Rating, Add	60.82		
		For Standard Weight Cast Iron Fittings, Add	0.38		
		For Work In Restricted Working Space, Add	18.01		
23 21 13 23-0039	EA	2-1/2", 150 Lb., Black Malleable Iron 90 Degree Elbow	141.94	59.31	
		For 300 Lb. Rating, Add	132.75		
		For Standard Weight Cast Iron Fittings, Add	0.85		
		For Work In Restricted Working Space, Add	26.66		
23 21 13 23-0040	EA	3", 150 Lb., Black Malleable Iron 90 Degree Elbow	194.60	77.97	
		For 300 Lb. Rating, Add	193.47		
		For Standard Weight Cast Iron Fittings, Add	1.24		
		For Work In Restricted Working Space, Add	35.07		
23 21 13 23-0041	EA	4", 150 Lb., Black Malleable Iron 90 Degree Elbow	294.43	85.06	
		For 300 Lb. Rating, Add	408.17		
		For Standard Weight Cast Iron Fittings, Add	2.67		
		For Work In Restricted Working Space, Add	38.27		
23 21 13 23-0042	EA	5", 150 Lb., Black Malleable Iron 90 Degree Elbow	620.74	88.77	
		For 300 Lb. Rating, Add	1,178.32		
		For Standard Weight Cast Iron Fittings, Add	7.80		
		For Work In Restricted Working Space, Add	39.93		
23 21 13 23-0043	EA	6", 150 Lb., Black Malleable Iron 90 Degree Elbow	702.45	92.82	
		For 300 Lb. Rating, Add	1,360.27		
		For Standard Weight Cast Iron Fittings, Add	9.01		
		For Work In Restricted Working Space, Add	41.75		
23 21 13 23-0044 Black Malleable Iron Reducing 90 Degree Elbows (23 21 13 23-0014)					
23 21 13 23-0045	EA	1/2" x 3/8", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	32.93	18.11	
		For 300 Lb. Rating, Add	15.52		
		For Standard Weight Cast Iron Fittings, Add	0.09		
		For Work In Restricted Working Space, Add	8.14		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0046	EA	3/4" x 1/2", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	37.35	20.88
		For 300 Lb. Rating, Add	16.19	
		For Standard Weight Cast Iron Fittings, Add	0.10	
		For Work In Restricted Working Space, Add	9.42	
23 21 13 23-0047	EA	3/4" x 3/8", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	37.25	19.33
		For 300 Lb. Rating, Add	21.73	
		For Standard Weight Cast Iron Fittings, Add	0.13	
		For Work In Restricted Working Space, Add	8.68	
23 21 13 23-0048	EA	1" x 3/4", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	42.75	23.43
		For 300 Lb. Rating, Add	20.49	
		For Standard Weight Cast Iron Fittings, Add	0.12	
		For Work In Restricted Working Space, Add	10.53	
23 21 13 23-0049	EA	1" x 1/2", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	41.58	22.22
		For 300 Lb. Rating, Add	21.82	
		For Standard Weight Cast Iron Fittings, Add	0.13	
		For Work In Restricted Working Space, Add	10.00	
23 21 13 23-0050	EA	1" x 3/8", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	47.12	20.54
		For 300 Lb. Rating, Add	40.88	
		For Standard Weight Cast Iron Fittings, Add	0.26	
		For Work In Restricted Working Space, Add	9.26	
23 21 13 23-0051	EA	1-1/4" x 1", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	52.32	26.32
		For 300 Lb. Rating, Add	33.23	
		For Standard Weight Cast Iron Fittings, Add	0.21	
		For Work In Restricted Working Space, Add	11.84	
23 21 13 23-0052	EA	1-1/4" x 3/4", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	51.88	24.99
		For 300 Lb. Rating, Add	36.72	
		For Standard Weight Cast Iron Fittings, Add	0.23	
		For Work In Restricted Working Space, Add	11.26	
23 21 13 23-0053	EA	1-1/4" x 1/2", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	52.53	23.88
		For 300 Lb. Rating, Add	42.39	
		For Standard Weight Cast Iron Fittings, Add	0.27	
		For Work In Restricted Working Space, Add	10.73	
23 21 13 23-0054	EA	1-1/2" x 1-1/4", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	62.73	29.77
		For 300 Lb. Rating, Add	46.23	
		For Standard Weight Cast Iron Fittings, Add	0.29	
		For Work In Restricted Working Space, Add	13.37	
23 21 13 23-0055	EA	1-1/2" x 1", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	60.29	28.10
		For 300 Lb. Rating, Add	46.09	
		For Standard Weight Cast Iron Fittings, Add	0.29	
		For Work In Restricted Working Space, Add	12.64	
23 21 13 23-0056	EA	1-1/2" x 3/4", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	60.97	26.77
		For 300 Lb. Rating, Add	52.26	
		For Standard Weight Cast Iron Fittings, Add	0.33	
		For Work In Restricted Working Space, Add	12.06	
23 21 13 23-0057	EA	2" x 1-1/2", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	79.95	35.76
		For 300 Lb. Rating, Add	66.34	
		For Standard Weight Cast Iron Fittings, Add	0.42	
		For Work In Restricted Working Space, Add	16.10	
23 21 13 23-0058	EA	2" x 1-1/4", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	80.86	33.99
		For 300 Lb. Rating, Add	74.79	
		For Standard Weight Cast Iron Fittings, Add	0.48	
		For Work In Restricted Working Space, Add	15.29	
23 21 13 23-0059	EA	2" x 1", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	78.41	32.32
		For 300 Lb. Rating, Add	74.65	
		For Standard Weight Cast Iron Fittings, Add	0.48	
		For Work In Restricted Working Space, Add	14.56	
23 21 13 23-0060	EA	2" x 3/4", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	78.28	31.10
		For 300 Lb. Rating, Add	78.85	
		For Standard Weight Cast Iron Fittings, Add	0.51	
		For Work In Restricted Working Space, Add	13.98	
23 21 13 23-0061	EA	2-1/2" x 2", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	146.61	49.65
		For 300 Lb. Rating, Add	177.67	
		For Standard Weight Cast Iron Fittings, Add	1.15	
		For Work In Restricted Working Space, Add	22.33	
23 21 13 23-0062	EA	2-1/2" x 1-1/2", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	144.48	45.43
		For 300 Lb. Rating, Add	187.49	
		For Standard Weight Cast Iron Fittings, Add	1.22	
		For Work In Restricted Working Space, Add	20.42	
23 21 13 23-0063	EA	3" x 2-1/2", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	237.94	68.64
		For 300 Lb. Rating, Add	330.32	
		For Standard Weight Cast Iron Fittings, Add	2.16	
		For Work In Restricted Working Space, Add	30.86	
23 21 13 23-0064	EA	3" x 2", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	205.14	58.97
		For 300 Lb. Rating, Add	285.32	
		For Standard Weight Cast Iron Fittings, Add	1.87	
		For Work In Restricted Working Space, Add	26.54	
23 21 13 23-0065	EA	4" x 3", 150 Lb., Black Malleable Iron Reducing 90 Degree Elbow	352.14	80.90
		For 300 Lb. Rating, Add	561.25	
		For Standard Weight Cast Iron Fittings, Add	3.69	
		For Work In Restricted Working Space, Add	36.40	

23 21 13 23-0066 Black Malleable Iron 45 Degree Elbows (23 21 13 23-0014)



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Piping and Pumps			23 20
Hydronic Piping and Pumps			23 21

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0067	EA	3/8", 150 Lb., Black Malleable Iron 45 Degree Elbow		31.29	16.44
		For 300 Lb. Rating, Add	.....	17.34	
		For Standard Weight Cast Iron Fittings, Add	.....	0.11	
		For Work In Restricted Working Space, Add	.....	7.40	
23 21 13 23-0068	EA	1/2", 150 Lb., Black Malleable Iron 45 Degree Elbow	.....	34.64	19.77
		For 300 Lb. Rating, Add	.....	13.83	
		For Standard Weight Cast Iron Fittings, Add	.....	0.08	
		For Work In Restricted Working Space, Add	.....	8.89	
23 21 13 23-0069	EA	3/4", 150 Lb., Black Malleable Iron 45 Degree Elbow	.....	39.36	22.11
		For 300 Lb. Rating, Add	.....	16.89	
		For Standard Weight Cast Iron Fittings, Add	.....	0.10	
		For Work In Restricted Working Space, Add	.....	9.95	
23 21 13 23-0070	EA	1", 150 Lb., Black Malleable Iron 45 Degree Elbow	.....	44.84	24.65
		For 300 Lb. Rating, Add	.....	20.99	
		For Standard Weight Cast Iron Fittings, Add	.....	0.13	
		For Work In Restricted Working Space, Add	.....	11.11	
23 21 13 23-0071	EA	1-1/4", 150 Lb., Black Malleable Iron 45 Degree Elbow	.....	55.74	27.99
		For 300 Lb. Rating, Add	.....	35.71	
		For Standard Weight Cast Iron Fittings, Add	.....	0.22	
		For Work In Restricted Working Space, Add	.....	12.57	
23 21 13 23-0072	EA	1-1/2", 150 Lb., Black Malleable Iron 45 Degree Elbow	.....	64.37	31.54
		For 300 Lb. Rating, Add	.....	43.90	
		For Standard Weight Cast Iron Fittings, Add	.....	0.27	
		For Work In Restricted Working Space, Add	.....	14.18	
23 21 13 23-0073	EA	2", 150 Lb., Black Malleable Iron 45 Degree Elbow	.....	85.90	40.09
		For 300 Lb. Rating, Add	.....	65.69	
		For Standard Weight Cast Iron Fittings, Add	.....	0.41	
		For Work In Restricted Working Space, Add	.....	18.01	
23 21 13 23-0074	EA	2-1/2", 150 Lb., Black Malleable Iron 45 Degree Elbow	.....	163.72	59.31
		For 300 Lb. Rating, Add	.....	185.02	
		For Standard Weight Cast Iron Fittings, Add	.....	1.20	
		For Work In Restricted Working Space, Add	.....	26.66	
23 21 13 23-0075	EA	3", 150 Lb., Black Malleable Iron 45 Degree Elbow	.....	214.15	77.97
		For 300 Lb. Rating, Add	.....	240.39	
		For Standard Weight Cast Iron Fittings, Add	.....	1.56	
		For Work In Restricted Working Space, Add	.....	35.07	
23 21 13 23-0076	EA	4", 150 Lb., Black Malleable Iron 45 Degree Elbow	.....	318.24	85.06
		For 300 Lb. Rating, Add	.....	465.31	
		For Standard Weight Cast Iron Fittings, Add	.....	3.05	
		For Work In Restricted Working Space, Add	.....	38.27	
23 21 13 23-0077	EA	5", 150 Lb., Black Malleable Iron 45 Degree Elbow	.....	886.35	88.77
		For 300 Lb. Rating, Add	.....	1,815.79	
		For Standard Weight Cast Iron Fittings, Add	.....	12.05	
		For Work In Restricted Working Space, Add	.....	39.93	
23 21 13 23-0078	EA	6", 150 Lb., Black Malleable Iron 45 Degree Elbow	.....	909.81	92.82
		For 300 Lb. Rating, Add	.....	1,857.93	
		For Standard Weight Cast Iron Fittings, Add	.....	12.33	
		For Work In Restricted Working Space, Add	.....	41.75	
23 21 13 23-0079		Black Malleable Iron Tees (23 21 13 23-0014)	.....		
23 21 13 23-0080	EA	3/8", 150 Lb., Black Malleable Iron Tee	.....	37.22	20.32
		For 300 Lb. Rating, Add	.....	17.14	
		For Standard Weight Cast Iron Fittings, Add	.....	0.10	
		For Work In Restricted Working Space, Add	.....	9.26	
23 21 13 23-0081	EA	1/2", 150 Lb., Black Malleable Iron Tee	.....	41.09	24.65
		For 300 Lb. Rating, Add	.....	11.99	
		For Standard Weight Cast Iron Fittings, Add	.....	0.07	
		For Work In Restricted Working Space, Add	.....	11.11	
23 21 13 23-0082	EA	3/4", 150 Lb., Black Malleable Iron Tee	.....	48.55	28.54
		For 300 Lb. Rating, Add	.....	16.56	
		For Standard Weight Cast Iron Fittings, Add	.....	0.09	
		For Work In Restricted Working Space, Add	.....	12.82	
23 21 13 23-0083	EA	1", 150 Lb., Black Malleable Iron Tee	.....	60.47	33.66
		For 300 Lb. Rating, Add	.....	27.00	
		For Standard Weight Cast Iron Fittings, Add	.....	0.16	
		For Work In Restricted Working Space, Add	.....	15.14	
23 21 13 23-0084	EA	1-1/4", 150 Lb., Black Malleable Iron Tee	.....	76.21	40.09
		For 300 Lb. Rating, Add	.....	42.43	
		For Standard Weight Cast Iron Fittings, Add	.....	0.26	
		For Work In Restricted Working Space, Add	.....	18.01	
23 21 13 23-0085	EA	1-1/2", 150 Lb., Black Malleable Iron Tee	.....	91.77	47.76
		For 300 Lb. Rating, Add	.....	52.59	
		For Standard Weight Cast Iron Fittings, Add	.....	0.32	
		For Work In Restricted Working Space, Add	.....	21.50	
23 21 13 23-0086	EA	2", 150 Lb., Black Malleable Iron Tee	.....	123.14	59.31
		For 300 Lb. Rating, Add	.....	87.63	
		For Standard Weight Cast Iron Fittings, Add	.....	0.55	
		For Work In Restricted Working Space, Add	.....	26.66	
23 21 13 23-0087	EA	2-1/2", 150 Lb., Black Malleable Iron Tee	.....	190.84	77.97
		For 300 Lb. Rating, Add	.....	184.45	
		For Standard Weight Cast Iron Fittings, Add	.....	1.18	
		For Work In Restricted Working Space, Add	.....	35.07	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 21 13 23-0088	EA	3", 150 Lb., Black Malleable Iron Tee	247.73		92.63
		For 300 Lb. Rating, Add	269.69		
		For Standard Weight Cast Iron Fittings, Add	1.74		
		For Work In Restricted Working Space, Add	41.65		
23 21 13 23-0089	EA	4", 150 Lb., Black Malleable Iron Tee	424.33		107.48
		For 300 Lb. Rating, Add	641.37		
		For Standard Weight Cast Iron Fittings, Add	4.21		
		For Work In Restricted Working Space, Add	48.34		
23 21 13 23-0090	EA	5", 150 Lb., Black Malleable Iron Tee	988.96		127.59
		For 300 Lb. Rating, Add	1,925.79		
		For Standard Weight Cast Iron Fittings, Add	12.76		
		For Work In Restricted Working Space, Add	57.40		
23 21 13 23-0091	EA	6", 150 Lb., Black Malleable Iron Tee	1,074.66		145.85
		For 300 Lb. Rating, Add	2,067.52		
		For Standard Weight Cast Iron Fittings, Add	13.70		
		For Work In Restricted Working Space, Add	65.60		
23 21 13 23-0092 Black Malleable Iron Reducing Tees (23 21 13 23-0014)					
23 21 13 23-0093	EA	1/2", 150 Lb., Black Malleable Iron Reducing Tee	43.94		24.65
		For 300 Lb. Rating, Add	18.83		
		For Standard Weight Cast Iron Fittings, Add	0.11		
		For Work In Restricted Working Space, Add	11.11		
23 21 13 23-0094	EA	3/4", 150 Lb., Black Malleable Iron Reducing Tee	51.74		28.54
		For 300 Lb. Rating, Add	24.21		
		For Standard Weight Cast Iron Fittings, Add	0.14		
		For Work In Restricted Working Space, Add	12.82		
23 21 13 23-0095	EA	1", 150 Lb., Black Malleable Iron Reducing Tee	61.86		33.66
		For 300 Lb. Rating, Add	30.34		
		For Standard Weight Cast Iron Fittings, Add	0.18		
		For Work In Restricted Working Space, Add	15.14		
23 21 13 23-0096	EA	1-1/4", 150 Lb., Black Malleable Iron Reducing Tee	82.41		40.09
		For 300 Lb. Rating, Add	57.31		
		For Standard Weight Cast Iron Fittings, Add	0.36		
		For Work In Restricted Working Space, Add	18.01		
23 21 13 23-0097	EA	1-1/2", 150 Lb., Black Malleable Iron Reducing Tee	96.44		47.76
		For 300 Lb. Rating, Add	63.80		
		For Standard Weight Cast Iron Fittings, Add	0.40		
		For Work In Restricted Working Space, Add	21.50		
23 21 13 23-0098	EA	2", 150 Lb., Black Malleable Iron Reducing Tee	124.84		59.31
		For 300 Lb. Rating, Add	91.71		
		For Standard Weight Cast Iron Fittings, Add	0.58		
		For Work In Restricted Working Space, Add	26.66		
23 21 13 23-0099	EA	2-1/2", 150 Lb., Black Malleable Iron Reducing Tee	229.06		77.97
		For 300 Lb. Rating, Add	276.17		
		For Standard Weight Cast Iron Fittings, Add	1.79		
		For Work In Restricted Working Space, Add	35.07		
23 21 13 23-0100	EA	3", 150 Lb., Black Malleable Iron Reducing Tee	267.28		92.63
		For 300 Lb. Rating, Add	316.61		
		For Standard Weight Cast Iron Fittings, Add	2.06		
		For Work In Restricted Working Space, Add	41.65		
23 21 13 23-0101	EA	4", 150 Lb., Black Malleable Iron Reducing Tee	472.64		107.48
		For 300 Lb. Rating, Add	757.32		
		For Standard Weight Cast Iron Fittings, Add	4.98		
		For Work In Restricted Working Space, Add	48.34		
23 21 13 23-0102	EA	5", 150 Lb., Black Malleable Iron Reducing Tee	913.90		127.59
		For 300 Lb. Rating, Add	1,745.65		
		For Standard Weight Cast Iron Fittings, Add	11.56		
		For Work In Restricted Working Space, Add	57.40		
23 21 13 23-0103	EA	6", 150 Lb., Black Malleable Iron Reducing Tee	1,038.22		145.85
		For 300 Lb. Rating, Add	1,980.06		
		For Standard Weight Cast Iron Fittings, Add	13.11		
		For Work In Restricted Working Space, Add	65.60		
23 21 13 23-0104 Black Malleable Iron Couplings (23 21 13 23-0014)					
23 21 13 23-0105	EA	3/8", 150 Lb., Black Malleable Iron Coupling	30.14		16.44
		For 300 Lb. Rating, Add	14.58		
		For Standard Weight Cast Iron Fittings, Add	0.09		
		For Work In Restricted Working Space, Add	7.40		
23 21 13 23-0106	EA	1/2", 150 Lb., Black Malleable Iron Coupling	33.82		19.77
		For 300 Lb. Rating, Add	11.86		
		For Standard Weight Cast Iron Fittings, Add	0.07		
		For Work In Restricted Working Space, Add	8.89		
23 21 13 23-0107	EA	3/4", 150 Lb., Black Malleable Iron Coupling	38.07		22.11
		For 300 Lb. Rating, Add	13.80		
		For Standard Weight Cast Iron Fittings, Add	0.08		
		For Work In Restricted Working Space, Add	9.95		
23 21 13 23-0108	EA	1", 150 Lb., Black Malleable Iron Coupling	44.39		24.65
		For 300 Lb. Rating, Add	19.91		
		For Standard Weight Cast Iron Fittings, Add	0.12		
		For Work In Restricted Working Space, Add	11.11		

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0109 EA 1-1/4", 150 Lb., Black Malleable Iron Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	51.46 25.43 0.15 12.57	27.99
23 21 13 23-0110 EA 1-1/2", 150 Lb., Black Malleable Iron Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	60.16 33.80 0.21 14.18	31.54
23 21 13 23-0111 EA 2", 150 Lb., Black Malleable Iron Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	79.15 49.49 0.31 18.01	40.09
23 21 13 23-0112 EA 2-1/2", 150 Lb., Black Malleable Iron Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	141.60 131.93 0.84 26.66	59.31
23 21 13 23-0113 EA 3", 150 Lb., Black Malleable Iron Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	188.23 178.18 1.14 35.07	77.97
23 21 13 23-0114 EA 4", 150 Lb., Black Malleable Iron Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	271.19 352.39 2.30 38.27	85.06
23 21 13 23-0115 EA 5", 150 Lb., Black Malleable Iron Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	537.56 978.69 6.47 39.93	88.77
23 21 13 23-0116 EA 6", 150 Lb., Black Malleable Iron Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	599.93 1,114.22 7.37 41.75	92.82
23 21 13 23-0117 Black Malleable Iron Reducing Couplings (23 21 13 23-0014)		
23 21 13 23-0118 EA 1/2", 150 Lb., Black Malleable Iron Reducing Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	34.84 14.31 0.08 8.89	19.77
23 21 13 23-0119 EA 3/4", 150 Lb., Black Malleable Iron Reducing Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	38.68 15.26 0.09 9.95	22.11
23 21 13 23-0120 EA 1", 150 Lb., Black Malleable Iron Reducing Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	45.62 22.86 0.14 11.11	24.65
23 21 13 23-0121 EA 1-1/4", 150 Lb., Black Malleable Iron Reducing Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	52.97 29.06 0.18 12.57	27.99
23 21 13 23-0122 EA 1-1/2", 150 Lb., Black Malleable Iron Reducing Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	61.24 36.39 0.22 14.18	31.54
23 21 13 23-0123 EA 2", 150 Lb., Black Malleable Iron Reducing Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	80.29 52.23 0.32 18.01	40.09
23 21 13 23-0124 EA 2-1/2", 150 Lb., Black Malleable Iron Reducing Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	148.72 149.02 0.96 26.66	59.31
23 21 13 23-0125 EA 3", 150 Lb., Black Malleable Iron Reducing Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	189.69 181.69 1.16 35.07	77.97
23 21 13 23-0126 EA 4", 150 Lb., Black Malleable Iron Reducing Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	273.43 357.77 2.33 38.27	85.06
23 21 13 23-0127 EA 5", 150 Lb., Black Malleable Iron Reducing Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	461.00 794.95 5.25 39.93	88.77
23 21 13 23-0128 EA 6", 150 Lb., Black Malleable Iron Reducing Coupling For 300 Lb. Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	560.30 1,019.11 6.74 41.75	92.82

23 21 13 23-0129 Black Malleable Iron Caps (23 21 13 23-0014)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0130	EA	1/2", 150 Lb., Black Malleable Iron Cap	.....	16.40	8.77
		For 300 Lb. Rating, Add	.....	8.19	
		For Standard Weight Cast Iron Fittings, Add	.....	0.05	
		For Work In Restricted Working Space, Add	.....	4.00	
23 21 13 23-0131	EA	3/4", 150 Lb., Black Malleable Iron Cap	.....	19.07	9.89
		For 300 Lb. Rating, Add	.....	10.88	
		For Standard Weight Cast Iron Fittings, Add	.....	0.07	
		For Work In Restricted Working Space, Add	.....	4.47	
23 21 13 23-0132	EA	1", 150 Lb., Black Malleable Iron Cap	.....	21.70	11.00
		For 300 Lb. Rating, Add	.....	13.10	
		For Standard Weight Cast Iron Fittings, Add	.....	0.08	
		For Work In Restricted Working Space, Add	.....	5.00	
23 21 13 23-0133	EA	1-1/4", 150 Lb., Black Malleable Iron Cap	.....	25.49	12.44
		For 300 Lb. Rating, Add	.....	17.04	
		For Standard Weight Cast Iron Fittings, Add	.....	0.11	
		For Work In Restricted Working Space, Add	.....	5.66	
23 21 13 23-0134	EA	1-1/2", 150 Lb., Black Malleable Iron Cap	.....	30.38	14.00
		For 300 Lb. Rating, Add	.....	23.14	
		For Standard Weight Cast Iron Fittings, Add	.....	0.15	
		For Work In Restricted Working Space, Add	.....	6.38	
23 21 13 23-0135	EA	2", 150 Lb., Black Malleable Iron Cap	.....	40.32	17.89
		For 300 Lb. Rating, Add	.....	33.56	
		For Standard Weight Cast Iron Fittings, Add	.....	0.21	
		For Work In Restricted Working Space, Add	.....	8.10	
23 21 13 23-0136	EA	2-1/2", 150 Lb., Black Malleable Iron Cap	.....	70.51	26.44
		For 300 Lb. Rating, Add	.....	75.67	
		For Standard Weight Cast Iron Fittings, Add	.....	0.49	
		For Work In Restricted Working Space, Add	.....	11.99	
23 21 13 23-0137	EA	3", 150 Lb., Black Malleable Iron Cap	.....	97.64	34.76
		For 300 Lb. Rating, Add	.....	111.23	
		For Standard Weight Cast Iron Fittings, Add	.....	0.72	
		For Work In Restricted Working Space, Add	.....	15.78	
23 21 13 23-0138	EA	4", 150 Lb., Black Malleable Iron Cap	.....	134.61	37.94
		For 300 Lb. Rating, Add	.....	188.75	
		For Standard Weight Cast Iron Fittings, Add	.....	1.24	
		For Work In Restricted Working Space, Add	.....	17.22	
23 21 13 23-0139	EA	5", 150 Lb., Black Malleable Iron Cap	.....	243.92	39.57
		For 300 Lb. Rating, Add	.....	445.27	
		For Standard Weight Cast Iron Fittings, Add	.....	2.94	
		For Work In Restricted Working Space, Add	.....	17.97	
23 21 13 23-0140	EA	6", 150 Lb., Black Malleable Iron Cap	.....	399.95	41.33
		For 300 Lb. Rating, Add	.....	813.37	
		For Standard Weight Cast Iron Fittings, Add	.....	5.40	
		For Work In Restricted Working Space, Add	.....	18.78	
23 21 13 23-0141 Black Malleable Iron Unions (23 21 13 23-0014)					
23 21 13 23-0142	EA	3/8", 150 Lb., Black Malleable Iron Union	.....	39.42	16.44
		For Work In Restricted Working Space, Add	.....	7.40	
23 21 13 23-0143	EA	1/2", 150 Lb., Black Malleable Iron Union	.....	50.36	24.65
		For Work In Restricted Working Space, Add	.....	11.11	
23 21 13 23-0144	EA	3/4", 150 Lb., Black Malleable Iron Union	.....	58.06	28.54
		For Work In Restricted Working Space, Add	.....	12.82	
23 21 13 23-0145	EA	1", 150 Lb., Black Malleable Iron Union	.....	70.48	33.66
		For Work In Restricted Working Space, Add	.....	15.14	
23 21 13 23-0146	EA	1-1/4", 150 Lb., Black Malleable Iron Union	.....	88.71	40.09
		For Work In Restricted Working Space, Add	.....	18.01	
23 21 13 23-0147	EA	1-1/2", 150 Lb., Black Malleable Iron Union	.....	107.40	47.76
		For Work In Restricted Working Space, Add	.....	21.50	
23 21 13 23-0148	EA	2", 150 Lb., Black Malleable Iron Union	.....	130.43	59.31
		For Work In Restricted Working Space, Add	.....	26.66	
23 21 13 23-0149	EA	2-1/2", 150 Lb., Black Malleable Iron Union	.....	255.02	87.40
		For Work In Restricted Working Space, Add	.....	39.35	
23 21 13 23-0150	EA	3", 150 Lb., Black Malleable Iron Union	.....	321.69	114.95
		For Work In Restricted Working Space, Add	.....	51.77	
23 21 13 23-0151	EA	3/8", 250 Lb., Black Malleable Iron Union	.....	44.16	16.44
		For Work In Restricted Working Space, Add	.....	7.40	
23 21 13 23-0152	EA	1/2", 250 Lb., Black Malleable Iron Union	.....	59.37	24.65
		For Work In Restricted Working Space, Add	.....	11.11	
23 21 13 23-0153	EA	3/4", 250 Lb., Black Malleable Iron Union	.....	64.71	28.54
		For Work In Restricted Working Space, Add	.....	12.82	
23 21 13 23-0154	EA	1", 250 Lb., Black Malleable Iron Union	.....	77.45	33.66
		For Work In Restricted Working Space, Add	.....	15.14	
23 21 13 23-0155	EA	1-1/4", 250 Lb., Black Malleable Iron Union	.....	105.30	40.09
		For Work In Restricted Working Space, Add	.....	18.01	
23 21 13 23-0156	EA	1-1/2", 250 Lb., Black Malleable Iron Union	.....	123.77	47.76
		For Work In Restricted Working Space, Add	.....	21.50	
23 21 13 23-0157	EA	2", 250 Lb., Black Malleable Iron Union	.....	155.71	59.31
		For Work In Restricted Working Space, Add	.....	26.66	
23 21 13 23-0158	EA	2-1/2", 250 Lb., Black Malleable Iron Union	.....	340.73	87.40
		For Work In Restricted Working Space, Add	.....	39.35	
23 21 13 23-0159	EA	3", 250 Lb., Black Malleable Iron Union	.....	417.84	114.95
		For Work In Restricted Working Space, Add	.....	51.77	
23 21 13 23-0160	EA	4", 250 Lb., Black Malleable Iron Union	.....	623.01	125.51
		For Work In Restricted Working Space, Add	.....	56.49	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
23 21 13 23-0161	EA	3/8", 300 Lb., Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	56.30 7.40	16.44
23 21 13 23-0162	EA	1/2", 300 Lb., Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	62.60 11.11	24.65
23 21 13 23-0163	EA	3/4", 300 Lb., Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	71.04 12.82	28.54
23 21 13 23-0164	EA	1", 300 Lb., Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	87.45 15.14	33.66
23 21 13 23-0165	EA	1-1/4", 300 Lb., Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	120.35 18.01	40.09
23 21 13 23-0166	EA	1-1/2", 300 Lb., Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	134.83 21.50	47.76
23 21 13 23-0167	EA	2", 300 Lb., Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	167.09 26.66	59.31
23 21 13 23-0168	EA	2-1/2", 300 Lb., Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	383.42 39.35	87.40
23 21 13 23-0169	EA	3", 300 Lb., Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	498.91 51.77	114.95
23 21 13 23-0170	EA	4", 300 Lb., Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	1,224.04 56.49	125.51
23 21 13 23-0171 Black Steel Nipples (23 21 13 23-0014)				
23 21 13 23-0172	EA	3/8" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.89 1.52 4.76	10.55
23 21 13 23-0173	EA	1/2" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.42 1.28 4.76	10.55
23 21 13 23-0174	EA	3/4" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.80 1.47 4.76	10.55
23 21 13 23-0175	EA	1" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.35 2.13 5.13	11.44
23 21 13 23-0176	EA	1-1/4" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.91 2.70 5.55	12.33
23 21 13 23-0177	EA	1-1/2" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.24 3.37 5.55	12.33
23 21 13 23-0178	EA	2" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.05 4.58 7.17	15.88
23 21 13 23-0179	EA	2-1/2" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.30 14.34 8.89	19.77
23 21 13 23-0180	EA	3" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.91 17.04 10.75	23.88
23 21 13 23-0181	EA	4" x Close, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	95.06 25.66 13.12	29.19
23 21 13 23-0182	EA	3/8" x 1-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.30 1.72 4.76	10.55
23 21 13 23-0183	EA	1/2" x 1-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.42 1.28 4.76	10.55
23 21 13 23-0184	EA	3/4" x 1-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.02 1.58 4.76	10.55
23 21 13 23-0185	EA	3/8" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.30 1.72 4.76	10.55
23 21 13 23-0186	EA	1/2" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.42 1.28 4.76	10.55
23 21 13 23-0187	EA	3/4" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.02 1.58 4.76	10.55
23 21 13 23-0188	EA	1" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.76 2.34 5.13	11.44
23 21 13 23-0189	EA	1-1/4" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.64 3.07 5.55	12.33
23 21 13 23-0190	EA	1-1/2" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.77 3.63 5.55	12.33
23 21 13 23-0191	EA	3/8" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.28 2.21 4.76	10.55

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0192	EA	1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....	18.89	10.55
		For Schedule 80 Nipples, Add	1.52	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0193	EA	3/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....	19.43	10.55
		For Schedule 80 Nipples, Add	1.79	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0194	EA	1" x 2-1/2" Long, Schedule 40 Black Steel Nipple	22.05	11.44
		For Schedule 80 Nipples, Add	2.48	
		For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0195	EA	1-1/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple	25.02	12.33
		For Schedule 80 Nipples, Add	3.26	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0196	EA	1-1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	26.63	12.33
		For Schedule 80 Nipples, Add	4.06	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0197	EA	2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	34.41	15.88
		For Schedule 80 Nipples, Add	5.26	
		For Work In Restricted Working Space, Add	7.17	
23 21 13 23-0198	EA	3/8" x 3" Long, Schedule 40 Black Steel Nipple.....	20.28	10.55
		For Schedule 80 Nipples, Add	2.21	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0199	EA	1/2" x 3" Long, Schedule 40 Black Steel Nipple.....	18.89	10.55
		For Schedule 80 Nipples, Add	1.52	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0200	EA	3/4" x 3" Long, Schedule 40 Black Steel Nipple.....	19.43	10.55
		For Schedule 80 Nipples, Add	1.79	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0201	EA	1" x 3" Long, Schedule 40 Black Steel Nipple.....	22.05	11.44
		For Schedule 80 Nipples, Add	2.48	
		For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0202	EA	1-1/4" x 3" Long, Schedule 40 Black Steel Nipple	25.02	12.33
		For Schedule 80 Nipples, Add	3.26	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0203	EA	1-1/2" x 3" Long, Schedule 40 Black Steel Nipple	26.63	12.33
		For Schedule 80 Nipples, Add	4.06	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0204	EA	2" x 3" Long, Schedule 40 Black Steel Nipple.....	34.41	15.88
		For Schedule 80 Nipples, Add	5.26	
		For Work In Restricted Working Space, Add	7.17	
23 21 13 23-0205	EA	2-1/2" x 3" Long, Schedule 40 Black Steel Nipple	59.05	19.77
		For Schedule 80 Nipples, Add	14.72	
		For Work In Restricted Working Space, Add	8.89	
23 21 13 23-0206	EA	3" x 3" Long, Schedule 40 Black Steel Nipple.....	72.88	23.88
		For Schedule 80 Nipples, Add	18.53	
		For Work In Restricted Working Space, Add	10.75	
23 21 13 23-0207	EA	3/8" x 3-1/2" Long, Schedule 40 Black Steel Nipple	21.07	10.55
		For Schedule 80 Nipples, Add	2.61	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0208	EA	1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	19.49	10.55
		For Schedule 80 Nipples, Add	1.82	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0209	EA	3/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	20.28	10.55
		For Schedule 80 Nipples, Add	2.21	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0210	EA	1" x 3-1/2" Long, Schedule 40 Black Steel Nipple	23.22	11.44
		For Schedule 80 Nipples, Add	3.07	
		For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0211	EA	1-1/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple	26.22	12.33
		For Schedule 80 Nipples, Add	3.86	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0212	EA	1-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	27.61	12.33
		For Schedule 80 Nipples, Add	4.55	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0213	EA	2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	36.62	15.88
		For Schedule 80 Nipples, Add	6.37	
		For Work In Restricted Working Space, Add	7.17	
23 21 13 23-0214	EA	2-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	64.23	19.77
		For Schedule 80 Nipples, Add	17.31	
		For Work In Restricted Working Space, Add	8.89	
23 21 13 23-0215	EA	3" x 3-1/2" Long, Schedule 40 Black Steel Nipple	79.70	23.88
		For Schedule 80 Nipples, Add	21.94	
		For Work In Restricted Working Space, Add	10.75	
23 21 13 23-0216	EA	3/8" x 4" Long, Schedule 40 Black Steel Nipple.....	21.07	10.55
		For Schedule 80 Nipples, Add	2.61	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0217	EA	1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	19.49	10.55
		For Schedule 80 Nipples, Add	1.82	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0218	EA	3/4" x 4" Long, Schedule 40 Black Steel Nipple.....	20.28	10.55
		For Schedule 80 Nipples, Add	2.21	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0219	EA	1" x 4" Long, Schedule 40 Black Steel Nipple.....	23.22	11.44
		For Schedule 80 Nipples, Add	3.07	
		For Work In Restricted Working Space, Add	5.13	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0220	EA	1-1/4" x 4" Long, Schedule 40 Black Steel Nipple	.....	26.22	12.33
		For Schedule 80 Nipples, Add	.....	3.86	
		For Work In Restricted Working Space, Add	.....	5.55	
23 21 13 23-0221	EA	1-1/2" x 4" Long, Schedule 40 Black Steel Nipple	.....	27.61	12.33
		For Schedule 80 Nipples, Add	.....	4.55	
		For Work In Restricted Working Space, Add	.....	5.55	
23 21 13 23-0222	EA	2" x 4" Long, Schedule 40 Black Steel Nipple	.....	36.62	15.88
		For Schedule 80 Nipples, Add	.....	6.37	
		For Work In Restricted Working Space, Add	.....	7.17	
23 21 13 23-0223	EA	2-1/2" x 4" Long, Schedule 40 Black Steel Nipple	.....	64.23	19.77
		For Schedule 80 Nipples, Add	.....	17.31	
		For Work In Restricted Working Space, Add	.....	8.89	
23 21 13 23-0224	EA	3" x 4" Long, Schedule 40 Black Steel Nipple	.....	79.70	23.88
		For Schedule 80 Nipples, Add	.....	21.94	
		For Work In Restricted Working Space, Add	.....	10.75	
23 21 13 23-0225	EA	4" x 4" Long, Schedule 40 Black Steel Nipple	.....	103.11	29.19
		For Schedule 80 Nipples, Add	.....	29.69	
		For Work In Restricted Working Space, Add	.....	13.12	
23 21 13 23-0226	EA	3/8" x 4-1/2" Long, Schedule 40 Black Steel Nipple	.....	23.38	10.55
		For Schedule 80 Nipples, Add	.....	3.76	
		For Work In Restricted Working Space, Add	.....	4.76	
23 21 13 23-0227	EA	1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	.....	20.12	10.55
		For Schedule 80 Nipples, Add	.....	2.13	
		For Work In Restricted Working Space, Add	.....	4.76	
23 21 13 23-0228	EA	3/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	.....	21.42	10.55
		For Schedule 80 Nipples, Add	.....	2.78	
		For Work In Restricted Working Space, Add	.....	4.76	
23 21 13 23-0229	EA	1" x 4-1/2" Long, Schedule 40 Black Steel Nipple	.....	24.35	11.44
		For Schedule 80 Nipples, Add	.....	3.63	
		For Work In Restricted Working Space, Add	.....	5.13	
23 21 13 23-0230	EA	1-1/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	.....	27.73	12.33
		For Schedule 80 Nipples, Add	.....	4.61	
		For Work In Restricted Working Space, Add	.....	5.55	
23 21 13 23-0231	EA	1-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	.....	29.63	12.33
		For Schedule 80 Nipples, Add	.....	5.56	
		For Work In Restricted Working Space, Add	.....	5.55	
23 21 13 23-0232	EA	2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	.....	38.54	15.88
		For Schedule 80 Nipples, Add	.....	7.33	
		For Work In Restricted Working Space, Add	.....	7.17	
23 21 13 23-0233	EA	2-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	.....	67.64	19.77
		For Schedule 80 Nipples, Add	.....	19.01	
		For Work In Restricted Working Space, Add	.....	8.89	
23 21 13 23-0234	EA	3" x 4-1/2" Long, Schedule 40 Black Steel Nipple	.....	84.21	23.88
		For Schedule 80 Nipples, Add	.....	24.19	
		For Work In Restricted Working Space, Add	.....	10.75	
23 21 13 23-0235	EA	4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	.....	111.58	29.19
		For Schedule 80 Nipples, Add	.....	33.92	
		For Work In Restricted Working Space, Add	.....	13.12	
23 21 13 23-0236	EA	3/8" x 5" Long, Schedule 40 Black Steel Nipple	.....	23.38	10.55
		For Schedule 80 Nipples, Add	.....	3.76	
		For Work In Restricted Working Space, Add	.....	4.76	
23 21 13 23-0237	EA	1/2" x 5" Long, Schedule 40 Black Steel Nipple	.....	20.12	10.55
		For Schedule 80 Nipples, Add	.....	2.13	
		For Work In Restricted Working Space, Add	.....	4.76	
23 21 13 23-0238	EA	3/4" x 5" Long, Schedule 40 Black Steel Nipple	.....	21.42	10.55
		For Schedule 80 Nipples, Add	.....	2.78	
		For Work In Restricted Working Space, Add	.....	4.76	
23 21 13 23-0239	EA	1" x 5" Long, Schedule 40 Black Steel Nipple	.....	24.35	11.44
		For Schedule 80 Nipples, Add	.....	3.63	
		For Work In Restricted Working Space, Add	.....	5.13	
23 21 13 23-0240	EA	1-1/4" x 5" Long, Schedule 40 Black Steel Nipple	.....	27.73	12.33
		For Schedule 80 Nipples, Add	.....	4.61	
		For Work In Restricted Working Space, Add	.....	5.55	
23 21 13 23-0241	EA	1-1/2" x 5" Long, Schedule 40 Black Steel Nipple	.....	29.63	12.33
		For Schedule 80 Nipples, Add	.....	5.56	
		For Work In Restricted Working Space, Add	.....	5.55	
23 21 13 23-0242	EA	2" x 5" Long, Schedule 40 Black Steel Nipple	.....	38.54	15.88
		For Schedule 80 Nipples, Add	.....	7.33	
		For Work In Restricted Working Space, Add	.....	7.17	
23 21 13 23-0243	EA	2-1/2" x 5" Long, Schedule 40 Black Steel Nipple	.....	67.64	19.77
		For Schedule 80 Nipples, Add	.....	19.01	
		For Work In Restricted Working Space, Add	.....	8.89	
23 21 13 23-0244	EA	3" x 5" Long, Schedule 40 Black Steel Nipple	.....	84.21	23.88
		For Schedule 80 Nipples, Add	.....	24.19	
		For Work In Restricted Working Space, Add	.....	10.75	
23 21 13 23-0245	EA	4" x 5" Long, Schedule 40 Black Steel Nipple	.....	111.58	29.19
		For Schedule 80 Nipples, Add	.....	33.92	
		For Work In Restricted Working Space, Add	.....	13.12	
23 21 13 23-0246	EA	3/8" x 6" Long, Schedule 40 Black Steel Nipple	.....	24.23	10.55
		For Schedule 80 Nipples, Add	.....	4.19	
		For Work In Restricted Working Space, Add	.....	4.76	
23 21 13 23-0247	EA	1/2" x 6" Long, Schedule 40 Black Steel Nipple	.....	20.63	10.55
		For Schedule 80 Nipples, Add	.....	2.39	
		For Work In Restricted Working Space, Add	.....	4.76	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0248	EA	3/4" x 6" Long, Schedule 40 Black Steel Nipple.....	22.18	10.55
		For Schedule 80 Nipples, Add	3.16	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0249	EA	1" x 6" Long, Schedule 40 Black Steel Nipple.....	25.68	11.44
		For Schedule 80 Nipples, Add	4.30	
		For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0250	EA	1-1/4" x 6" Long, Schedule 40 Black Steel Nipple.....	29.44	12.33
		For Schedule 80 Nipples, Add	5.47	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0251	EA	1-1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	31.27	12.33
		For Schedule 80 Nipples, Add	6.38	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0252	EA	2" x 6" Long, Schedule 40 Black Steel Nipple.....	41.07	15.88
		For Schedule 80 Nipples, Add	8.59	
		For Work In Restricted Working Space, Add	7.17	
23 21 13 23-0253	EA	2-1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	69.26	19.77
		For Schedule 80 Nipples, Add	19.82	
		For Work In Restricted Working Space, Add	8.89	
23 21 13 23-0254	EA	3" x 6" Long, Schedule 40 Black Steel Nipple.....	88.41	23.88
		For Schedule 80 Nipples, Add	26.29	
		For Work In Restricted Working Space, Add	10.75	
23 21 13 23-0255	EA	4" x 6" Long, Schedule 40 Black Steel Nipple.....	116.25	29.19
		For Schedule 80 Nipples, Add	36.26	
		For Work In Restricted Working Space, Add	13.12	
23 21 13 23-0256	EA	3/8" x 8" Long, Schedule 40 Black Steel Nipple.....	30.55	10.55
		For Schedule 80 Nipples, Add	7.35	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0257	EA	1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	24.45	10.55
		For Schedule 80 Nipples, Add	4.30	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0258	EA	3/4" x 8" Long, Schedule 40 Black Steel Nipple.....	26.38	10.55
		For Schedule 80 Nipples, Add	5.26	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0259	EA	1" x 8" Long, Schedule 40 Black Steel Nipple.....	31.14	11.44
		For Schedule 80 Nipples, Add	7.03	
		For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0260	EA	1-1/4" x 8" Long, Schedule 40 Black Steel Nipple.....	36.16	12.33
		For Schedule 80 Nipples, Add	8.83	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0261	EA	1-1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	38.75	12.33
		For Schedule 80 Nipples, Add	10.12	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0262	EA	2" x 8" Long, Schedule 40 Black Steel Nipple.....	52.69	15.88
		For Schedule 80 Nipples, Add	14.40	
		For Work In Restricted Working Space, Add	7.17	
23 21 13 23-0263	EA	2-1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	80.06	19.77
		For Schedule 80 Nipples, Add	25.22	
		For Work In Restricted Working Space, Add	8.89	
23 21 13 23-0264	EA	3" x 8" Long, Schedule 40 Black Steel Nipple.....	106.76	23.88
		For Schedule 80 Nipples, Add	35.47	
		For Work In Restricted Working Space, Add	10.75	
23 21 13 23-0265	EA	4" x 8" Long, Schedule 40 Black Steel Nipple.....	127.43	29.19
		For Schedule 80 Nipples, Add	41.85	
		For Work In Restricted Working Space, Add	13.12	
23 21 13 23-0266	EA	3/8" x 10" Long, Schedule 40 Black Steel Nipple.....	32.35	10.55
		For Schedule 80 Nipples, Add	8.25	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0267	EA	1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	26.19	10.55
		For Schedule 80 Nipples, Add	5.17	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0268	EA	3/4" x 10" Long, Schedule 40 Black Steel Nipple.....	28.08	10.55
		For Schedule 80 Nipples, Add	6.11	
		For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0269	EA	1" x 10" Long, Schedule 40 Black Steel Nipple.....	33.51	11.44
		For Schedule 80 Nipples, Add	8.21	
		For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0270	EA	1-1/4" x 10" Long, Schedule 40 Black Steel Nipple.....	39.67	12.33
		For Schedule 80 Nipples, Add	10.58	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0271	EA	1-1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	42.20	12.33
		For Schedule 80 Nipples, Add	11.85	
		For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0272	EA	2" x 10" Long, Schedule 40 Black Steel Nipple.....	57.75	15.88
		For Schedule 80 Nipples, Add	16.93	
		For Work In Restricted Working Space, Add	7.17	
23 21 13 23-0273	EA	2-1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	86.28	19.77
		For Schedule 80 Nipples, Add	28.33	
		For Work In Restricted Working Space, Add	8.89	
23 21 13 23-0274	EA	3" x 10" Long, Schedule 40 Black Steel Nipple.....	115.51	23.88
		For Schedule 80 Nipples, Add	39.84	
		For Work In Restricted Working Space, Add	10.75	
23 21 13 23-0275	EA	4" x 10" Long, Schedule 40 Black Steel Nipple.....	139.06	29.19
		For Schedule 80 Nipples, Add	47.66	
		For Work In Restricted Working Space, Add	13.12	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0276	EA		3/8" x 12" Long, Schedule 40 Black Steel Nipple.....	34.62	10.55
			For Schedule 80 Nipples, Add	9.38	
			For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0277	EA		1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	28.11	10.55
			For Schedule 80 Nipples, Add	6.13	
			For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0278	EA		3/4" x 12" Long, Schedule 40 Black Steel Nipple.....	29.44	10.55
			For Schedule 80 Nipples, Add	6.79	
			For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0279	EA		1" x 12" Long, Schedule 40 Black Steel Nipple.....	35.94	11.44
			For Schedule 80 Nipples, Add	9.43	
			For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0280	EA		1-1/4" x 12" Long, Schedule 40 Black Steel Nipple	42.51	12.33
			For Schedule 80 Nipples, Add	12.00	
			For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0281	EA		1-1/2" x 12" Long, Schedule 40 Black Steel Nipple	45.80	12.33
			For Schedule 80 Nipples, Add	13.65	
			For Work In Restricted Working Space, Add	5.55	
23 21 13 23-0282	EA		2" x 12" Long, Schedule 40 Black Steel Nipple.....	62.86	15.88
			For Schedule 80 Nipples, Add	19.49	
			For Work In Restricted Working Space, Add	7.17	
23 21 13 23-0283	EA		2-1/2" x 12" Long, Schedule 40 Black Steel Nipple	92.66	19.77
			For Schedule 80 Nipples, Add	31.52	
			For Work In Restricted Working Space, Add	8.89	
23 21 13 23-0284	EA		3" x 12" Long, Schedule 40 Black Steel Nipple.....	124.26	23.88
			For Schedule 80 Nipples, Add	44.22	
			For Work In Restricted Working Space, Add	10.75	
23 21 13 23-0285	EA		4" x 12" Long, Schedule 40 Black Steel Nipple.....	155.48	29.19
			For Schedule 80 Nipples, Add	55.87	
			For Work In Restricted Working Space, Add	13.12	
23 21 13 23-0286 Black Malleable Iron Bushing (23 21 13 23-0014)					
23 21 13 23-0287	EA		1/2" x 3/8", 150 Lb., Black Malleable Iron Bushing	31.81	18.11
			For Work In Restricted Working Space, Add	8.14	
23 21 13 23-0288	EA		3/4" x 3/8", 150 Lb., Black Malleable Iron Bushing	35.89	19.44
			For Work In Restricted Working Space, Add	8.75	
23 21 13 23-0289	EA		3/4" x 1/2", 150 Lb., Black Malleable Iron Bushing	38.12	20.88
			For Work In Restricted Working Space, Add	9.42	
23 21 13 23-0290	EA		1" x 3/8", 150 Lb., Black Malleable Iron Bushing	40.39	20.77
			For Work In Restricted Working Space, Add	9.33	
23 21 13 23-0291	EA		1" x 1/2", 150 Lb., Black Malleable Iron Bushing	40.26	22.22
			For Work In Restricted Working Space, Add	10.00	
23 21 13 23-0292	EA		1" x 3/4", 150 Lb., Black Malleable Iron Bushing	42.03	23.43
			For Work In Restricted Working Space, Add	10.53	
23 21 13 23-0293	EA		1-1/4" x 3/8", 150 Lb., Black Malleable Iron Bushing	43.96	22.33
			For Work In Restricted Working Space, Add	10.07	
23 21 13 23-0294	EA		1-1/4" x 1/2", 150 Lb., Black Malleable Iron Bushing	45.71	23.88
			For Work In Restricted Working Space, Add	10.73	
23 21 13 23-0295	EA		1-1/4" x 3/4", 150 Lb., Black Malleable Iron Bushing	46.48	24.99
			For Work In Restricted Working Space, Add	11.26	
23 21 13 23-0296	EA		1-1/4" x 1", 150 Lb., Black Malleable Iron Bushing	48.42	26.32
			For Work In Restricted Working Space, Add	11.84	
23 21 13 23-0297	EA		1-1/2" x 3/8", 150 Lb., Black Malleable Iron Bushing	49.95	24.21
			For Work In Restricted Working Space, Add	10.86	
23 21 13 23-0298	EA		1-1/2" x 1/2", 150 Lb., Black Malleable Iron Bushing	49.77	25.66
			For Work In Restricted Working Space, Add	11.53	
23 21 13 23-0299	EA		1-1/2" x 3/4", 150 Lb., Black Malleable Iron Bushing	51.53	26.77
			For Work In Restricted Working Space, Add	12.06	
23 21 13 23-0300	EA		1-1/2" x 1", 150 Lb., Black Malleable Iron Bushing	52.09	28.10
			For Work In Restricted Working Space, Add	12.64	
23 21 13 23-0301	EA		1-1/2" x 1-1/4", 150 Lb., Black Malleable Iron Bushing	55.94	29.77
			For Work In Restricted Working Space, Add	13.37	
23 21 13 23-0302	EA		2" x 3/8", 150 Lb., Black Malleable Iron Bushing	62.00	28.43
			For Work In Restricted Working Space, Add	12.78	
23 21 13 23-0303	EA		2" x 1/2", 150 Lb., Black Malleable Iron Bushing	61.93	29.88
			For Work In Restricted Working Space, Add	13.45	
23 21 13 23-0304	EA		2" x 3/4", 150 Lb., Black Malleable Iron Bushing	61.06	31.10
			For Work In Restricted Working Space, Add	13.98	
23 21 13 23-0305	EA		2" x 1", 150 Lb., Black Malleable Iron Bushing	62.08	32.32
			For Work In Restricted Working Space, Add	14.56	
23 21 13 23-0306	EA		2" x 1-1/4", 150 Lb., Black Malleable Iron Bushing	64.53	33.99
			For Work In Restricted Working Space, Add	15.29	
23 21 13 23-0307	EA		2" x 1-1/2", 150 Lb., Black Malleable Iron Bushing	68.74	35.76
			For Work In Restricted Working Space, Add	16.10	
23 21 13 23-0308	EA		2-1/2" x 3/4", 150 Lb., Black Malleable Iron Bushing	85.64	40.65
			For Work In Restricted Working Space, Add	18.30	
23 21 13 23-0309	EA		2-1/2" x 1", 150 Lb., Black Malleable Iron Bushing	87.57	41.99
			For Work In Restricted Working Space, Add	18.88	
23 21 13 23-0310	EA		2-1/2" x 1-1/4", 150 Lb., Black Malleable Iron Bushing	90.01	43.54
			For Work In Restricted Working Space, Add	19.61	
23 21 13 23-0311	EA		2-1/2" x 1-1/2", 150 Lb., Black Malleable Iron Bushing	91.01	45.43
			For Work In Restricted Working Space, Add	20.42	
23 21 13 23-0312	EA		2-1/2" x 2", 150 Lb., Black Malleable Iron Bushing	97.20	49.65
			For Work In Restricted Working Space, Add	22.33	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0313 EA 3" x 3/4", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	109.11 22.51	49.98
23 21 13 23-0314 EA 3" x 1", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	111.04 23.09	51.31
23 21 13 23-0315 EA 3" x 1-1/4", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	113.48 23.82	52.98
23 21 13 23-0316 EA 3" x 1-1/2", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	115.50 24.63	54.75
23 21 13 23-0317 EA 3" x 2", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	119.69 26.54	58.97
23 21 13 23-0318 EA 3" x 2-1/2", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	134.57 30.86	68.64
23 21 13 23-0319 EA 4" x 3/4", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	145.44 24.03	53.35
23 21 13 23-0320 EA 4" x 1", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	147.34 24.60	54.67
23 21 13 23-0321 EA 4" x 1-1/4", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	149.75 25.32	56.30
23 21 13 23-0322 EA 4" x 1-1/2", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	152.38 26.11	58.06
23 21 13 23-0323 EA 4" x 2", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	155.16 28.00	62.21
23 21 13 23-0324 EA 4" x 2-1/2", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	169.34 32.25	71.72
23 21 13 23-0325 EA 4" x 3", 150 Lb., Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	183.15 36.40	80.90
23 21 13 23-0326 Black Malleable Iron Square Head Plugs (23 21 13 23-0014)		
23 21 13 23-0327 EA 3/8", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	13.44 2.96	6.56
23 21 13 23-0328 EA 1/2", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	15.66 3.56	7.89
23 21 13 23-0329 EA 3/4", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	17.07 3.98	8.88
23 21 13 23-0330 EA 1", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	19.59 4.44	9.89
23 21 13 23-0331 EA 1-1/4", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	22.79 5.03	11.22
23 21 13 23-0332 EA 1-1/2", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	27.31 5.67	12.55
23 21 13 23-0333 EA 2", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	35.96 7.20	15.99
23 21 13 23-0334 EA 2-1/2", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	57.29 10.66	23.66
23 21 13 23-0335 EA 3", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	76.63 14.03	31.21
23 21 13 23-0336 EA 4", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	113.66 15.31	34.00
23 21 13 23-0337 EA 5", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	187.80 15.98	35.53
23 21 13 23-0338 EA 6", 150 Lb., Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	222.31 16.70	37.06
23 21 13 23-0339 125 Lb., Black Cast Iron Screwed Flanges (23 21 13 23-0014)		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0340 EA 3/4", 125 Lb., Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	134.84 19.99	44.42
23 21 13 23-0341 EA 1", 125 Lb., Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	118.68 22.59	50.20
23 21 13 23-0342 EA 1-1/4", 125 Lb., Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	129.83 23.38	51.98
23 21 13 23-0343 EA 1-1/2", 125 Lb., Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	132.75 25.44	56.53
23 21 13 23-0344 EA 2", 125 Lb., Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	136.35 26.55	58.97
23 21 13 23-0345 EA 2-1/2", 125 Lb., Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	158.34 30.71	68.30
23 21 13 23-0346 EA 3", 125 Lb., Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	202.02 38.97	86.63
23 21 13 23-0347 EA 4", 125 Lb., Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	272.13 52.48	116.66
23 21 13 23-0348 EA 5", 125 Lb., Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	345.55 62.48	138.96
23 21 13 23-0349 EA 6", 125 Lb., Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	394.51 71.75	159.52
23 21 13 23-0350 150 Lb., Black Malleable Iron Flanges (23 21 13 23-0014)		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0351 EA 1/2", 150 Lb., Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	75.94 18.26	40.53

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0352	EA		3/4", 150 Lb., Black Malleable Iron Flange	82.90	44.42
			<i>For Work In Restricted Working Space, Add</i>	19.99	
23 21 13 23-0353	EA		1", 150 Lb., Black Malleable Iron Flange	96.41	50.20
			<i>For Work In Restricted Working Space, Add</i>	22.59	
23 21 13 23-0354	EA		1-1/4", 150 Lb., Black Malleable Iron Flange	100.51	51.98
			<i>For Work In Restricted Working Space, Add</i>	23.38	
23 21 13 23-0355	EA		1-1/2", 150 Lb., Black Malleable Iron Flange	109.42	56.53
			<i>For Work In Restricted Working Space, Add</i>	25.44	
23 21 13 23-0356	EA		2", 150 Lb., Black Malleable Iron Flange	120.61	58.97
			<i>For Work In Restricted Working Space, Add</i>	26.54	
23 21 13 23-0357	EA		2-1/2", 150 Lb., Black Malleable Iron Flange	152.73	68.30
			<i>For Work In Restricted Working Space, Add</i>	30.71	
23 21 13 23-0358	EA		3", 150 Lb., Black Malleable Iron Flange	193.55	86.63
			<i>For Work In Restricted Working Space, Add</i>	38.96	
23 21 13 23-0359	EA		4", 150 Lb., Black Malleable Iron Flange	283.05	116.66
			<i>For Work In Restricted Working Space, Add</i>	52.47	
23 21 13 23-0360 Cut And Thread Existing In-Place Black Steel Pipe (23 21 13 23-0014)					
Note: For use when connecting pipe to an existing in-place system.					
23 21 13 23-0361	EA		1/2", Cut And Thread Existing In Place Black Steel Pipe	36.19	
			<i>For Work In Restricted Working Space, Add</i>	10.86	
23 21 13 23-0362	EA		3/4", Cut And Thread Existing In Place Black Steel Pipe	39.80	
			<i>For Work In Restricted Working Space, Add</i>	11.94	
23 21 13 23-0363	EA		1", Cut And Thread Existing In Place Black Steel Pipe	43.43	
			<i>For Work In Restricted Working Space, Add</i>	13.03	
23 21 13 23-0364	EA		1-1/4", Cut And Thread Existing In Place Black Steel Pipe	47.04	
			<i>For Work In Restricted Working Space, Add</i>	14.11	
23 21 13 23-0365	EA		1-1/2", Cut And Thread Existing In Place Black Steel Pipe	49.45	
			<i>For Work In Restricted Working Space, Add</i>	14.84	
23 21 13 23-0366	EA		2", Cut And Thread Existing In Place Black Steel Pipe	51.86	
			<i>For Work In Restricted Working Space, Add</i>	15.56	
23 21 13 23-0367	EA		2-1/2", Cut And Thread Existing In Place Black Steel Pipe	54.28	
			<i>For Work In Restricted Working Space, Add</i>	16.28	
23 21 13 23-0368	EA		3", Cut And Thread Existing In Place Black Steel Pipe	56.69	
			<i>For Work In Restricted Working Space, Add</i>	17.01	
23 21 13 23-0369	EA		4", Cut And Thread Existing In Place Black Steel Pipe	59.10	
			<i>For Work In Restricted Working Space, Add</i>	17.73	
23 21 13 23-0370	EA		6", Cut And Thread Existing In Place Black Steel Pipe	63.92	
			<i>For Work In Restricted Working Space, Add</i>	19.18	
23 21 13 23-0371	EA		8", Cut And Thread Existing In Place Black Steel Pipe	68.74	
			<i>For Work In Restricted Working Space, Add</i>	20.62	
23 21 13 23-0372	EA		10", Cut And Thread Existing In Place Black Steel Pipe	74.78	
			<i>For Work In Restricted Working Space, Add</i>	22.43	
23 21 13 23-0373	EA		12", Cut And Thread Existing In Place Black Steel Pipe	79.60	
			<i>For Work In Restricted Working Space, Add</i>	23.88	
23 21 13 23-0374 Welded Black Steel Pipe (23 21 13 23)					
23 21 13 23-0375 Welded Plain End Black Steel Pipe Assemblies (23 21 13 23-0374)					
Note: ASTM A-53 pipe and A-234 WPB fittings. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.					
23 21 13 23-0376	LF		3/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly	26.89	8.45
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	6.18	
23 21 13 23-0377	LF		1" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly	30.11	9.01
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	6.92	
23 21 13 23-0378	LF		1-1/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly	36.45	9.57
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	7.94	
23 21 13 23-0379	LF		1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly	39.31	9.57
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	8.30	
23 21 13 23-0380	LF		2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly	45.06	9.57
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	9.61	
23 21 13 23-0381	LF		2-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly	52.15	9.57
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	11.14	
23 21 13 23-0382	LF		3" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly	61.50	9.35
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	11.75	
23 21 13 23-0383	LF		4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly	83.32	11.97
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	14.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0384	LF	6" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	113.30 17.11	17.86
23 21 13 23-0385	LF	8" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	170.99 25.39	22.18
23 21 13 23-0386	LF	10" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	226.97 30.28	27.72
23 21 13 23-0387	LF	12" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	284.95 34.98	33.49
23 21 13 23-0388	LF	14" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	306.99 39.03	43.69
23 21 13 23-0389	LF	16" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	353.57 43.62	55.44
23 21 13 23-0390	LF	18" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	447.65 47.86	68.64
23 21 13 23-0391	LF	20" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	559.45 54.78	84.83
23 21 13 23-0392	LF	24" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	688.03 60.23	96.14
23 21 13 23-0393		Welded Black Steel Pipe And Fittings (23 21 13 23-0374) Note: ASTM A-53 pipe and A-234 WPB fittings. Excludes hangers or fittings.		
23 21 13 23-0394		Welded Plain End (A-53) Black Steel Piping (23 21 13 23-0393)		
23 21 13 23-0395	LF	3/4" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.97 1.94 2.70	4.51
23 21 13 23-0396	LF	1" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.21 2.48 3.38	5.63
23 21 13 23-0397	LF	1-1/4" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.30 3.18 4.06	6.76
23 21 13 23-0398	LF	1-1/2" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.45 3.90 4.73	7.89
23 21 13 23-0399	LF	2" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.89 4.64 5.61	9.35
23 21 13 23-0400	LF	2-1/2" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	31.89 7.46 6.35	10.60
23 21 13 23-0401	LF	3" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.76 9.93 6.83	11.38
23 21 13 23-0402	LF	4" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	55.41 14.46 8.45	14.09
23 21 13 23-0403	LF	6" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	80.59 22.09 10.48	22.82
23 21 13 23-0404	LF	8" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule 30 Pipe, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	116.53 32.44 -18.54 14.30	23.84
23 21 13 23-0405	LF	10" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule 30 Pipe, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	154.89 44.16 -25.23 17.23	28.72
23 21 13 23-0406	LF	12" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule 30 Pipe, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	198.28 57.25 -32.72 20.82	34.71
23 21 13 23-0407	LF	14" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule 30 Pipe, Deduct</i> <i>For Schedule 20 Pipe, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	190.70 53.94 -30.82 -55.77 21.96	36.59

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0408 LF 16" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule 30 Pipe, Deduct For Schedule 20 Pipe, Deduct For Work In Restricted Working Space, Add	210.08 59.75 -34.14 -61.72 23.62	39.36
23 21 13 23-0409 LF 18" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule 30 Pipe, Deduct For Schedule 20 Pipe, Deduct For Work In Restricted Working Space, Add	267.20 78.62 -44.92 -80.75 25.55	42.58
23 21 13 23-0410 LF 20" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Work In Restricted Working Space, Add	315.75 92.66 30.60	51.01
23 21 13 23-0411 LF 24" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Work In Restricted Working Space, Add	393.45 117.18 35.20	58.65
23 21 13 23-0412 Welded Plain End (A-106) Seamless Carbon Steel Piping (23 21 13 23-0393)		
23 21 13 23-0413 LF 1/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	11.49 1.89 2.86	3.16
23 21 13 23-0414 LF 1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	11.63 2.06 2.79	3.49
23 21 13 23-0415 LF 3/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	14.68 2.70 3.45	4.51
23 21 13 23-0416 LF 1" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	18.00 3.38 4.18	5.63
23 21 13 23-0417 LF 1-1/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	22.75 4.06 5.44	6.76
23 21 13 23-0418 LF 1-1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	26.57 4.73 6.36	7.89
23 21 13 23-0419 LF 2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	31.57 5.61 7.56	9.35
23 21 13 23-0420 LF 2-1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	41.76 6.35 14.70	10.60
23 21 13 23-0421 LF 3" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	47.95 6.83 17.52	11.38
23 21 13 23-0422 LF 4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	59.59 8.45 21.82	14.09
23 21 13 23-0423 LF 6" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	93.47 10.48 38.02	22.88
23 21 13 23-0424 LF 8" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	135.78 14.30 56.49	23.84
23 21 13 23-0425 LF 10" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	183.09 17.23 78.98	28.72
23 21 13 23-0426 LF 12" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	223.25 20.82 96.56	34.71
23 21 13 23-0427 LF 14" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	262.39 21.96 116.93	36.59
23 21 13 23-0428 LF 16" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	303.27 23.62 137.55	39.36
23 21 13 23-0429 LF 18" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	368.43 25.55 171.41	42.58
23 21 13 23-0430 LF 20" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	444.02 30.60 206.83	51.01
23 21 13 23-0431 LF 24" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe For Work In Restricted Working Space, Add For Schedule 80 (A-106) Carbon Steel Pipe, Add	560.40 35.20 265.72	58.65
23 21 13 23-0432 Welded Plain End Black Steel 90 Degree Elbows (23 21 13 23-0393)		
23 21 13 23-0433 EA 3/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	123.50 25.99 31.61	70.30
23 21 13 23-0434 EA 1" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	129.02 27.06 33.26	73.96

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0435	EA	1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	144.54	84.27
		For Schedule 80 Or Extra Heavy Fittings, Add	30.09	
		For Work In Restricted Working Space, Add	37.92	
23 21 13 23-0436	EA	1-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	154.51	90.93
		For Schedule 80 Or Extra Heavy Fittings, Add	32.04	
		For Work In Restricted Working Space, Add	40.91	
23 21 13 23-0437	EA	2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	195.54	118.31
		For Schedule 80 Or Extra Heavy Fittings, Add	40.04	
		For Work In Restricted Working Space, Add	53.22	
23 21 13 23-0438	EA	2-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	245.93	147.92
		For Schedule 80 Or Extra Heavy Fittings, Add	50.50	
		For Work In Restricted Working Space, Add	66.52	
23 21 13 23-0439	EA	3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	257.24	152.34
		For Schedule 80 Or Extra Heavy Fittings, Add	53.20	
		For Work In Restricted Working Space, Add	68.50	
23 21 13 23-0440	EA	4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	442.48	263.22
		For Schedule 80 Or Extra Heavy Fittings, Add	91.30	
		For Work In Restricted Working Space, Add	118.40	
23 21 13 23-0441	EA	6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	768.95	434.39
		For Schedule 80 Or Extra Heavy Fittings, Add	162.29	
		For Work In Restricted Working Space, Add	195.41	
23 21 13 23-0442	EA	8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,119.19	600.88
		For Schedule 80 Or Extra Heavy Fittings, Add	241.16	
		For Work In Restricted Working Space, Add	270.28	
23 21 13 23-0443	EA	10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,430.37	686.82
		For Schedule 80 Or Extra Heavy Fittings, Add	321.00	
		For Work In Restricted Working Space, Add	308.89	
23 21 13 23-0444	EA	12" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,928.27	898.60
		For Schedule 80 Or Extra Heavy Fittings, Add	437.03	
		For Work In Restricted Working Space, Add	404.16	
23 21 13 23-0445	EA	14" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	2,378.95	1,062.16
		For Schedule 80 Or Extra Heavy Fittings, Add	546.48	
		For Work In Restricted Working Space, Add	477.74	
23 21 13 23-0446	EA	16" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	2,936.04	1,240.35
		For Schedule 80 Or Extra Heavy Fittings, Add	685.56	
		For Work In Restricted Working Space, Add	557.86	
23 21 13 23-0447	EA	18" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	3,459.03	1,383.06
		For Schedule 80 Or Extra Heavy Fittings, Add	819.99	
		For Work In Restricted Working Space, Add	622.05	
23 21 13 23-0448	EA	20" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	4,361.43	1,550.72
		For Schedule 80 Or Extra Heavy Fittings, Add	1,064.30	
		For Work In Restricted Working Space, Add	697.50	
23 21 13 23-0449	EA	24" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	5,063.91	1,602.50
		For Schedule 80 Or Extra Heavy Fittings, Add	1,266.91	
		For Work In Restricted Working Space, Add	720.75	
23 21 13 23-0450 Welded Plain End Black Steel Reducing 90 Degree Elbows (23 21 13 23-0393)				
23 21 13 23-0451	EA	4" x 3" 90 Standard Weight, Welded Plain End Black Steel Reducing 90 Degree Elbow	592.13	263.67
		For Schedule 80 Or Extra Heavy Fittings, Add	136.12	
		For Work In Restricted Working Space, Add	118.61	
23 21 13 23-0452	EA	6" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,028.75	429.43
		For Schedule 80 Or Extra Heavy Fittings, Add	241.02	
		For Work In Restricted Working Space, Add	193.17	
23 21 13 23-0453	EA	6" x 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,094.73	429.43
		For Schedule 80 Or Extra Heavy Fittings, Add	260.81	
		For Work In Restricted Working Space, Add	193.17	
23 21 13 23-0454	EA	8" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,712.76	600.88
		For Schedule 80 Or Extra Heavy Fittings, Add	419.23	
		For Work In Restricted Working Space, Add	270.28	
23 21 13 23-0455	EA	8" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,870.09	600.88
		For Schedule 80 Or Extra Heavy Fittings, Add	466.43	
		For Work In Restricted Working Space, Add	270.28	
23 21 13 23-0456	EA	10" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	2,327.28	686.82
		For Schedule 80 Or Extra Heavy Fittings, Add	590.07	
		For Work In Restricted Working Space, Add	308.89	
23 21 13 23-0457	EA	10" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	2,327.28	686.82
		For Schedule 80 Or Extra Heavy Fittings, Add	590.07	
		For Work In Restricted Working Space, Add	308.89	
23 21 13 23-0458	EA	12" x 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	3,782.11	915.68
		For Schedule 80 Or Extra Heavy Fittings, Add	990.48	
		For Work In Restricted Working Space, Add	411.86	
23 21 13 23-0459	EA	12" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	3,782.11	915.68
		For Schedule 80 Or Extra Heavy Fittings, Add	990.48	
		For Work In Restricted Working Space, Add	411.86	
23 21 13 23-0460	EA	12" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	4,210.06	915.68
		For Schedule 80 Or Extra Heavy Fittings, Add	1,118.87	
		For Work In Restricted Working Space, Add	411.86	
23 21 13 23-0461 Welded Plain End Black Steel 45 Degree Elbows (23 21 13 23-0393)				
23 21 13 23-0462	EA	3/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow	110.19	63.89
		For Schedule 80 Or Extra Heavy Fittings, Add	23.00	
		For Work In Restricted Working Space, Add	28.73	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0463	EA	1" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.57 23.66 29.75	66.15
23 21 13 23-0464	EA	1-1/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.22 26.52 34.14	75.95
23 21 13 23-0465	EA	1-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.23 28.27 36.85	81.92
23 21 13 23-0466	EA	2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	173.29 35.30 47.66	105.92
23 21 13 23-0467	EA	2-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	216.23 43.93 59.84	133.08
23 21 13 23-0468	EA	3" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	249.41 50.85 68.49	152.23
23 21 13 23-0469	EA	4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	429.47 87.41 118.37	263.11
23 21 13 23-0470	EA	6" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	736.45 152.62 195.18	433.94
23 21 13 23-0471	EA	8" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,060.30 223.49 270.28	600.88
23 21 13 23-0472	EA	10" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,322.24 288.56 308.89	686.82
23 21 13 23-0473	EA	12" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,768.95 389.49 403.40	896.94
23 21 13 23-0474	EA	14" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,168.82 483.22 478.37	1,063.61
23 21 13 23-0475	EA	16" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,643.63 598.04 557.28	1,239.02
23 21 13 23-0476	EA	18" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,082.76 707.36 621.34	1,381.40
23 21 13 23-0477	EA	20" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,811.90 899.45 697.50	1,550.72
23 21 13 23-0478	EA	24" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,345.72 1,051.45 720.75	1,602.50
23 21 13 23-0479		Welded Plain End Black Steel Tee (23 21 13 23-0393)		
23 21 13 23-0480	EA	3/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	223.80 48.21 54.09	120.23
23 21 13 23-0481	EA	1" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	223.75 48.20 54.07	120.23
23 21 13 23-0482	EA	1-1/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	252.94 54.83 60.15	133.76
23 21 13 23-0483	EA	1-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	277.81 59.68 67.61	150.32
23 21 13 23-0484	EA	2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	347.27 72.59 90.26	200.69
23 21 13 23-0485	EA	2-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	395.68 83.21 101.42	225.48
23 21 13 23-0486	EA	3" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	473.95 99.12 123.05	273.82
23 21 13 23-0487	EA	4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	681.81 142.27 177.92	395.63
23 21 13 23-0488	EA	6" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,141.37 239.53 293.96	653.56
23 21 13 23-0489	EA	8" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,671.93 357.43 411.86	915.68
23 21 13 23-0490	EA	10" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,103.11 462.76 480.50	1,068.26

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0491	EA	12" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,821.94 630.36 617.78	1,373.53
23 21 13 23-0492	EA	14" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,628.69 836.34 720.75	1,602.50
23 21 13 23-0493	EA	16" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,365.38 1,006.90 864.90	1,922.96
23 21 13 23-0494	EA	18" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,624.77 1,351.08 961.00	2,136.64
23 21 13 23-0495	EA	20" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,342.13 1,824.25 1,081.12	2,403.76
23 21 13 23-0496	EA	24" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,440.80 2,124.74 1,164.29	2,588.66
23 21 13 23-0497 Welded Plain End Black Steel Reducing Tees (23 21 13 23-0393)				
23 21 13 23-0498	EA	3/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	218.17 47.11 52.40	116.51
23 21 13 23-0499	EA	1" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	223.75 48.20 54.07	120.23
23 21 13 23-0500	EA	1-1/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	250.16 54.00 60.15	133.76
23 21 13 23-0501	EA	1-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	275.03 58.85 67.61	150.32
23 21 13 23-0502	EA	2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	353.53 74.46 90.29	200.69
23 21 13 23-0503	EA	2-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	395.81 83.23 101.45	225.59
23 21 13 23-0504	EA	3" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	474.24 99.21 123.05	273.82
23 21 13 23-0505	EA	4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	682.22 142.39 177.92	395.63
23 21 13 23-0506	EA	6" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,142.08 239.74 293.96	653.56
23 21 13 23-0507	EA	8" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,673.28 357.83 411.86	915.68
23 21 13 23-0508	EA	10" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,105.40 463.45 480.50	1,068.26
23 21 13 23-0509	EA	12" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,825.40 631.40 617.78	1,373.53
23 21 13 23-0510	EA	14" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,634.27 838.02 720.75	1,602.50
23 21 13 23-0511	EA	16" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,372.13 1,008.93 864.90	1,922.96
23 21 13 23-0512	EA	18" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,635.80 1,354.39 961.00	2,136.64
23 21 13 23-0513	EA	20" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,449.29 1,856.39 1,081.12	2,403.76
23 21 13 23-0514	EA	24" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,919.45 2,268.33 1,164.29	2,588.66
23 21 13 23-0515 Welded Plain End Black Steel Eccentric Reducers (23 21 13 23-0393)				
23 21 13 23-0516	EA	1" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.46 29.40 32.96	73.28
23 21 13 23-0517	EA	1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	147.15 31.49 36.17	80.41
23 21 13 23-0518	EA	1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	144.35 30.94 35.33	78.54

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13	23-0519	EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	160.10 34.01 40.05	89.06
23 21	13	23-0520	EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	152.21 32.47 37.68	83.79
23 21	13	23-0521	EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	149.41 31.93 36.84	81.92
23 21	13	23-0522	EA 2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	175.53 35.92 47.83	106.32
23 21	13	23-0523	EA 2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	180.45 37.93 46.31	102.95
23 21	13	23-0524	EA 2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	172.56 36.39 43.94	97.70
23 21	13	23-0525	EA 2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	221.49 45.15 60.84	135.26
23 21	13	23-0526	EA 2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	203.86 42.05 54.59	121.36
23 21	13	23-0527	EA 2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	216.51 46.38 53.06	117.98
23 21	13	23-0528	EA 3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	248.11 50.53 68.30	151.78
23 21	13	23-0529	EA 3" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	249.56 50.96 68.30	151.78
23 21	13	23-0530	EA 3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	252.62 51.88 68.30	151.78
23 21	13	23-0531	EA 4" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	422.12 85.12 118.61	263.67
23 21	13	23-0532	EA 4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	423.57 85.56 118.61	263.67
23 21	13	23-0533	EA 4" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	427.92 86.86 118.61	263.67
23 21	13	23-0534	EA 6" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	699.00 142.09 193.17	429.43
23 21	13	23-0535	EA 6" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	730.25 151.46 193.17	429.43
23 21	13	23-0536	EA 8" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,050.10 212.14 293.96	653.56
23 21	13	23-0537	EA 8" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,108.25 229.59 293.96	653.56
23 21	13	23-0538	EA 10" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,218.81 247.33 338.05	751.59
23 21	13	23-0539	EA 10" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,288.73 268.30 338.05	751.59
23 21	13	23-0540	EA 10" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	1,380.71 295.90 -81.24 338.05	751.59
23 21	13	23-0541	EA 12" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,513.77 310.26 411.07	913.91
23 21	13	23-0542	EA 12" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,595.44 334.76 411.07	913.91
23 21	13	23-0543	EA 12" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	1,733.51 376.18 -116.24 411.08	913.91
23 21	13	23-0544	EA 12" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	1,511.46 309.56 -45.19 411.08	913.91
23 21	13	23-0545	EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,853.60 387.91 480.50	1,068.26

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0546	EA	14" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,896.61 400.81 480.50	1,068.26
23 21 13 23-0547	EA	14" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	2,325.42 529.45 480.50	1,068.26
23 21 13 23-0548	EA	16" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	2,187.19 466.96 540.56	1,201.88
23 21 13 23-0549	EA	16" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	2,313.81 504.95 540.56	1,201.88
23 21 13 23-0550	EA	16" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	2,363.10 519.73 -179.59 540.56	1,201.88
23 21 13 23-0551	EA	16" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	2,918.38 686.32 540.56	1,201.88
23 21 13 23-0552	EA	16" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	3,194.69 769.21 540.56	1,201.88
23 21 13 23-0553	EA	18" x 16" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	2,753.41 609.80 617.78	1,373.53
23 21 13 23-0554	EA	18" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	2,183.75 438.90 -39.83 617.78	1,373.53
23 21 13 23-0555	EA	18" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	2,819.94 629.76 -243.41 617.78	1,373.53
23 21 13 23-0556	EA	18" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	2,918.04 659.19 617.78	1,373.53
23 21 13 23-0557	EA	18" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	3,747.40 908.00 617.78	1,373.53
23 21 13 23-0558	EA	20" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	3,196.81 714.92 -278.98 697.50	1,550.72
23 21 13 23-0559	EA	20" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	3,194.56 714.24 -278.26 697.50	1,550.72
23 21 13 23-0560	EA	20" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	4,291.74 1,043.40 -629.36 697.50	1,550.72
23 21 13 23-0561	EA	20" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	4,731.82 1,175.42 697.50	1,550.72
23 21 13 23-0562	EA	20" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	5,391.97 1,373.47 697.50	1,550.72
23 21 13 23-0563	EA	24" x 20" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	3,545.59 811.41 -365.79 720.75	1,602.50
23 21 13 23-0564	EA	24" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	3,678.60 851.32 -408.35 720.75	1,602.50
23 21 13 23-0565	EA	24" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	4,296.58 1,036.71 -606.11 720.75	1,602.50
23 21 13 23-0566	EA	24" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	5,446.59 1,381.71 720.75	1,602.50
23 21 13 23-0567	EA	24" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	6,308.90 1,640.41 720.75	1,602.50
23 21 13 23-0568	Welded Plain End Black Steel Concentric Reducers (23 21 13 23-0393)			
23 21 13 23-0569	EA	1" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	129.49 27.31 32.96	73.28
23 21 13 23-0570	EA	1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	140.18 29.40 36.17	80.41

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0571	EA	1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	137.38 28.85 35.33	78.54
23 21 13 23-0572	EA	1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	153.13 31.92 40.05	89.06
23 21 13 23-0573	EA	1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	145.24 30.38 37.68	83.79
23 21 13 23-0574	EA	1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	142.44 29.84 36.84	81.92
23 21 13 23-0575	EA	2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	171.98 34.85 47.83	106.32
23 21 13 23-0576	EA	2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	166.92 33.87 46.31	102.95
23 21 13 23-0577	EA	2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	163.87 33.78 43.94	97.70
23 21 13 23-0578	EA	2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	218.91 44.38 60.84	135.26
23 21 13 23-0579	EA	2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	202.41 41.62 54.59	121.36
23 21 13 23-0580	EA	2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	204.26 42.71 53.06	117.98
23 21 13 23-0581	EA	3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	240.70 48.31 68.30	151.78
23 21 13 23-0582	EA	3" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	241.67 48.60 68.30	151.78
23 21 13 23-0583	EA	3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	243.76 49.22 68.30	151.78
23 21 13 23-0584	EA	4" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	412.13 82.12 118.61	263.67
23 21 13 23-0585	EA	4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	415.84 83.24 118.61	263.67
23 21 13 23-0586	EA	4" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	415.84 83.24 118.61	263.67
23 21 13 23-0587	EA	6" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	679.03 136.10 193.17	429.43
23 21 13 23-0588	EA	6" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	686.44 138.32 193.17	429.43
23 21 13 23-0589	EA	8" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,025.93 204.89 293.96	653.56
23 21 13 23-0590	EA	8" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,039.14 208.86 293.96	653.56
23 21 13 23-0591	EA	10" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,216.24 246.55 338.05	751.59
23 21 13 23-0592	EA	10" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,210.76 244.91 338.05	751.59
23 21 13 23-0593	EA	10" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,279.71 265.60 338.05	751.59
23 21 13 23-0594	EA	12" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,480.75 300.35 411.07	913.91
23 21 13 23-0595	EA	12" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,497.30 305.31 411.07	913.91
23 21 13 23-0596	EA	12" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,503.30 307.11 411.07	913.91
23 21 13 23-0597	EA	12" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,679.05 359.84 411.07	913.91
23 21 13 23-0598	EA	14" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add	1,767.90 362.20 480.50	1,068.26

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0599	EA	14" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,829.28 380.61 480.50	1,068.26
23 21 13 23-0600	EA	14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,882.60 396.61 480.50	1,068.26
23 21 13 23-0601	EA	14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,088.67 458.43 480.50	1,068.26
23 21 13 23-0602	EA	16" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,092.79 438.64 540.56	1,201.88
23 21 13 23-0603	EA	16" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,092.79 438.64 540.56	1,201.88
23 21 13 23-0604	EA	16" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,123.40 447.82 540.56	1,201.88
23 21 13 23-0605	EA	16" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,225.05 478.32 540.56	1,201.88
23 21 13 23-0606	EA	16" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,646.01 604.61 540.56	1,201.88
23 21 13 23-0607	EA	18" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,377.11 496.91 617.78	1,373.53
23 21 13 23-0608	EA	18" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,455.56 520.44 617.78	1,373.53
23 21 13 23-0609	EA	18" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,488.42 530.30 617.78	1,373.53
23 21 13 23-0610	EA	18" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,577.82 557.12 617.78	1,373.53
23 21 13 23-0611	EA	18" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,605.22 865.34 617.78	1,373.53
23 21 13 23-0612	EA	20" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,870.44 617.01 697.50	1,550.72
23 21 13 23-0613	EA	20" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,870.44 617.01 697.50	1,550.72
23 21 13 23-0614	EA	20" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,892.83 623.73 697.50	1,550.72
23 21 13 23-0615	EA	20" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,025.41 663.50 697.50	1,550.72
23 21 13 23-0616	EA	20" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,256.08 732.70 697.50	1,550.72
23 21 13 23-0617	EA	24" x 20" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,019.47 653.58 720.75	1,602.50
23 21 13 23-0618	EA	24" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,033.48 657.78 720.75	1,602.50
23 21 13 23-0619	EA	24" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,060.87 666.00 720.75	1,602.50
23 21 13 23-0620	EA	24" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,694.92 856.21 720.75	1,602.50
23 21 13 23-0621	EA	24" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,820.08 893.76 720.75	1,602.50
23 21 13 23-0622 Welded Plain End Black Steel Caps (23 21 13 23-0393)				
23 21 13 23-0623	EA	1" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.56 12.63 16.90	37.63
23 21 13 23-0624	EA	1-1/4" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	71.78 13.79 18.59	41.35
23 21 13 23-0625	EA	1-1/2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.60 14.35 19.27	42.82
23 21 13 23-0626	EA	2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.16 17.66 24.68	54.88



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0627	EA		2-1/2" Standard Weight, Welded Plain End Black Steel Cap.....	110.57	66.15
			For Schedule 80 Fittings, Add	20.78	
			For Work In Restricted Working Space, Add	29.75	
23 21 13 23-0628	EA		3" Standard Weight, Welded Plain End Black Steel Cap.....	129.38	76.28
			For Schedule 80 Fittings, Add	24.51	
			For Work In Restricted Working Space, Add	34.32	
23 21 13 23-0629	EA		4" Standard Weight, Welded Plain End Black Steel Cap.....	217.63	131.84
			For Schedule 80 Fittings, Add	40.58	
			For Work In Restricted Working Space, Add	59.31	
23 21 13 23-0630	EA		6" Standard Weight, Welded Plain End Black Steel Cap.....	364.47	217.82
			For Schedule 80 Fittings, Add	68.51	
			For Work In Restricted Working Space, Add	97.98	
23 21 13 23-0631	EA		8" Standard Weight, Welded Plain End Black Steel Cap.....	514.60	305.37
			For Schedule 80 Fittings, Add	97.16	
			For Work In Restricted Working Space, Add	137.33	
23 21 13 23-0632	EA		10" Standard Weight, Welded Plain End Black Steel Cap.....	677.56	385.49
			For Schedule 80 Fittings, Add	131.04	
			For Work In Restricted Working Space, Add	173.36	
23 21 13 23-0633	EA		12" Standard Weight, Welded Plain End Black Steel Cap.....	795.12	447.20
			For Schedule 80 Fittings, Add	154.73	
			For Work In Restricted Working Space, Add	201.14	
23 21 13 23-0634	EA		14" Standard Weight, Welded Plain End Black Steel Cap.....	1,035.15	534.14
			For Schedule 80 Fittings, Add	210.44	
			For Work In Restricted Working Space, Add	240.25	
23 21 13 23-0635	EA		16" Standard Weight, Welded Plain End Black Steel Cap.....	1,202.18	620.29
			For Schedule 80 Fittings, Add	244.40	
			For Work In Restricted Working Space, Add	279.00	
23 21 13 23-0636	EA		18" Standard Weight, Welded Plain End Black Steel Cap.....	1,342.68	686.82
			For Schedule 80 Fittings, Add	274.10	
			For Work In Restricted Working Space, Add	308.89	
23 21 13 23-0637			150 Lb., Welded Plain End Black Steel Neck Flanges (23 21 13 23-0393)		
			Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0638	EA		2", 150 Lb., Welded Plain End Black Steel Neck Flange.....	166.19	84.96
			For 300 Lb. Rating, Add	40.54	
			For Work In Restricted Working Space, Add	38.21	
23 21 13 23-0639	EA		2-1/2", 150 Lb., Welded Plain End Black Steel Neck Flange.....	197.76	106.04
			For 300 Lb. Rating, Add	43.86	
			For Work In Restricted Working Space, Add	47.69	
23 21 13 23-0640	EA		3", 150 Lb., Welded Plain End Black Steel Neck Flange.....	220.60	121.25
			For 300 Lb. Rating, Add	46.28	
			For Work In Restricted Working Space, Add	54.53	
23 21 13 23-0641	EA		4", 150 Lb., Welded Plain End Black Steel Neck Flange.....	289.25	159.89
			For 300 Lb. Rating, Add	59.82	
			For Work In Restricted Working Space, Add	71.93	
23 21 13 23-0642	EA		6", 150 Lb., Welded Plain End Black Steel Neck Flange.....	439.65	242.49
			For 300 Lb. Rating, Add	91.48	
			For Work In Restricted Working Space, Add	109.05	
23 21 13 23-0643	EA		8", 150 Lb., Welded Plain End Black Steel Neck Flange.....	508.86	259.92
			For 300 Lb. Rating, Add	124.40	
			For Work In Restricted Working Space, Add	116.88	
23 21 13 23-0644	EA		10", 150 Lb., Welded Plain End Black Steel Neck Flange.....	662.91	325.89
			For 300 Lb. Rating, Add	173.30	
			For Work In Restricted Working Space, Add	146.59	
23 21 13 23-0645	EA		12", 150 Lb., Welded Plain End Black Steel Neck Flange.....	808.54	369.80
			For 300 Lb. Rating, Add	236.09	
			For Work In Restricted Working Space, Add	166.33	
23 21 13 23-0646	EA		14", 150 Lb., Welded Plain End Black Steel Neck Flange.....	1,056.22	447.20
			For 300 Lb. Rating, Add	340.42	
			For Work In Restricted Working Space, Add	201.14	
23 21 13 23-0647	EA		16", 150 Lb., Welded Plain End Black Steel Neck Flange.....	1,381.88	519.72
			For 300 Lb. Rating, Add	503.70	
			For Work In Restricted Working Space, Add	233.76	
23 21 13 23-0648	EA		18", 150 Lb., Welded Plain End Black Steel Neck Flange.....	1,710.34	582.70
			For 300 Lb. Rating, Add	677.42	
			For Work In Restricted Working Space, Add	262.09	
23 21 13 23-0649	EA		20", 150 Lb., Welded Plain End Black Steel Neck Flange.....	2,168.56	739.60
			For 300 Lb. Rating, Add	858.23	
			For Work In Restricted Working Space, Add	332.65	
23 21 13 23-0650	EA		24", 150 Lb., Welded Plain End Black Steel Neck Flange.....	2,459.64	801.25
			For 300 Lb. Rating, Add	1,007.00	
			For Work In Restricted Working Space, Add	360.38	
23 21 13 23-0651			150 Lb., Welded Black Steel Slip-On Flanges (23 21 13 23-0393)		
			Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0652	EA		2", 150 Lb., Welded Black Steel Slip-On Flanges.....	118.76	84.96
			For 300 Lb. Rating, Add	26.26	
			For Work In Restricted Working Space, Add	30.43	
23 21 13 23-0653	EA		2-1/2", 150 Lb., Welded Black Steel Slip-On Flange.....	146.21	106.04
			For 300 Lb. Rating, Add	33.05	
			For Work In Restricted Working Space, Add	37.19	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0654	EA	3", 150 Lb., Welded Black Steel Slip-On Flange.....	172.69	121.25
		For 300 Lb. Rating, Add	38.96	
		For Work In Restricted Working Space, Add	43.95	
23 21 13 23-0655	EA	4", 150 Lb., Welded Black Steel Slip-On Flange.....	227.31	159.89
		For 300 Lb. Rating, Add	52.29	
		For Work In Restricted Working Space, Add	57.47	
23 21 13 23-0656	EA	6", 150 Lb., Welded Black Steel Slip-On Flange.....	336.73	242.49
		For 300 Lb. Rating, Add	79.10	
		For Work In Restricted Working Space, Add	84.51	
23 21 13 23-0657	EA	8", 150 Lb., Welded Black Steel Slip-On Flange.....	438.53	259.92
		For 300 Lb. Rating, Add	112.59	
		For Work In Restricted Working Space, Add	106.45	
23 21 13 23-0658	EA	10", 150 Lb., Welded Black Steel Slip-On Flange.....	588.04	325.89
		For 300 Lb. Rating, Add	176.62	
		For Work In Restricted Working Space, Add	133.06	
23 21 13 23-0659	EA	12", 150 Lb., Welded Black Steel Slip-On Flange.....	760.23	369.80
		For 300 Lb. Rating, Add	261.07	
		For Work In Restricted Working Space, Add	159.68	
23 21 13 23-0660	EA	14", 150 Lb., Welded Black Steel Slip-On Flange.....	954.05	447.20
		For 300 Lb. Rating, Add	364.98	
		For Work In Restricted Working Space, Add	186.29	
23 21 13 23-0661	EA	16", 150 Lb., Welded Black Steel Slip-On Flange.....	1,135.97	519.72
		For 300 Lb. Rating, Add	475.82	
		For Work In Restricted Working Space, Add	206.25	
23 21 13 23-0662	EA	18", 150 Lb., Welded Black Steel Slip-On Flange.....	1,256.87	582.70
		For 300 Lb. Rating, Add	531.74	
		For Work In Restricted Working Space, Add	226.21	
23 21 13 23-0663	EA	20", 150 Lb., Welded Black Steel Slip-On Flange.....	1,392.12	739.60
		For 300 Lb. Rating, Add	600.57	
		For Work In Restricted Working Space, Add	246.17	
23 21 13 23-0664	EA	24", 150 Lb., Welded Black Steel Slip-On Flange.....	1,595.81	801.25
		For 300 Lb. Rating, Add	678.12	
		For Work In Restricted Working Space, Add	286.08	
23 21 13 23-0665 150 Lb., Forged Steel Blind Flanges (23 21 13 23-0393)				
23 21 13 23-0666	EA	2", 150 Lb., Forged Steel Blind Flange.....	82.23	30.17
		For 300 Lb. Rating, Add	23.85	
		For 600 Lb. Rating, Add	61.61	
		For Work In Restricted Working Space, Add	18.10	
23 21 13 23-0667	EA	2-1/2", 150 Lb., Forged Steel Blind Flange.....	107.90	36.20
		For 300 Lb. Rating, Add	36.01	
		For 600 Lb. Rating, Add	96.08	
		For Work In Restricted Working Space, Add	21.72	
23 21 13 23-0668	EA	3", 150 Lb., Forged Steel Blind Flange.....	133.27	48.27
		For 300 Lb. Rating, Add	39.53	
		For 600 Lb. Rating, Add	102.66	
		For Work In Restricted Working Space, Add	28.96	
23 21 13 23-0669	EA	4", 150 Lb., Forged Steel Blind Flange.....	171.29	60.33
		For 300 Lb. Rating, Add	53.17	
		For 600 Lb. Rating, Add	139.61	
		For Work In Restricted Working Space, Add	36.20	
23 21 13 23-0670	EA	6", 150 Lb., Forged Steel Blind Flange.....	233.59	78.43
		For 300 Lb. Rating, Add	77.85	
		For 600 Lb. Rating, Add	207.68	
		For Work In Restricted Working Space, Add	47.06	
23 21 13 23-0671	EA	8", 150 Lb., Forged Steel Blind Flange.....	302.70	90.50
		For 300 Lb. Rating, Add	116.37	
		For 600 Lb. Rating, Add	319.25	
		For Work In Restricted Working Space, Add	54.30	
23 21 13 23-0672	EA	10", 150 Lb., Forged Steel Blind Flange.....	454.86	108.59
		For 300 Lb. Rating, Add	212.94	
		For 600 Lb. Rating, Add	602.99	
		For Work In Restricted Working Space, Add	65.16	
23 21 13 23-0673	EA	12", 150 Lb., Forged Steel Blind Flange.....	589.78	126.69
		For 300 Lb. Rating, Add	295.72	
		For 600 Lb. Rating, Add	845.34	
		For Work In Restricted Working Space, Add	76.02	
23 21 13 23-0674	EA	14", 150 Lb., Forged Steel Blind Flange.....	982.19	144.80
		For 300 Lb. Rating, Add	584.49	
		For Work In Restricted Working Space, Add	86.87	
23 21 13 23-0675	EA	16", 150 Lb., Forged Steel Blind Flange.....	1,055.83	162.89
		For 300 Lb. Rating, Add	618.25	
		For Work In Restricted Working Space, Add	97.73	
23 21 13 23-0676	EA	18", 150 Lb., Forged Steel Blind Flange.....	1,191.11	199.09
		For 300 Lb. Rating, Add	676.15	
		For Work In Restricted Working Space, Add	119.45	
23 21 13 23-0677	EA	20", 150 Lb., Forged Steel Blind Flange.....	1,520.04	217.19
		For 300 Lb. Rating, Add	914.14	
		For Work In Restricted Working Space, Add	130.31	
23 21 13 23-0678	EA	24", 150 Lb., Forged Steel Blind Flange.....	2,061.07	253.39
		For 300 Lb. Rating, Add	1,296.65	
		For Work In Restricted Working Space, Add	152.03	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0679 3,000 Lb., Forge Steel Thread-O-Lets (23 21 13 23-0393)		
23 21 13 23-0680 EA 1/2", 3,000 Lb., Forge Steel Thread-O-Let.....	77.90	
For Work In Restricted Working Space, Add	21.30	
23 21 13 23-0681 EA 3/4", 3,000 Lb., Forge Steel Thread-O-Let.....	82.48	
For Work In Restricted Working Space, Add	22.31	
23 21 13 23-0682 EA 1", 3,000 Lb., Forge Steel Thread-O-Let.....	87.98	
For Work In Restricted Working Space, Add	23.66	
23 21 13 23-0683 EA 1-1/4", 3,000 Lb., Forge Steel Thread-O-Let.....	97.41	
For Work In Restricted Working Space, Add	25.35	
23 21 13 23-0684 EA 1-1/2", 3,000 Lb., Forge Steel Thread-O-Let.....	109.33	
For Work In Restricted Working Space, Add	28.73	
23 21 13 23-0685 EA 2", 3,000 Lb., Forge Steel Thread-O-Let.....	141.34	
For Work In Restricted Working Space, Add	37.56	
23 21 13 23-0686 EA 2-1/2", 3,000 Lb., Forge Steel Thread-O-Let.....	219.53	
For Work In Restricted Working Space, Add	48.29	
23 21 13 23-0687 EA 3", 3,000 Lb., Forge Steel Thread-O-Let.....	302.82	
For Work In Restricted Working Space, Add	67.61	
23 21 13 23-0688 EA 4", 3,000 Lb., Forge Steel Thread-O-Let.....	402.75	
For Work In Restricted Working Space, Add	84.51	
23 21 13 23-0689 3,000 Lb., Forge Steel Weld-O-Lets (23 21 13 23-0393)		
23 21 13 23-0690 EA 1/2", 3,000 Lb., Forge Steel Weld-O-Let.....	88.93	
For Work In Restricted Working Space, Add	24.58	
23 21 13 23-0691 EA 3/4", 3,000 Lb., Forge Steel Weld-O-Let.....	94.10	
For Work In Restricted Working Space, Add	25.76	
23 21 13 23-0692 EA 1", 3,000 Lb., Forge Steel Weld-O-Let.....	99.37	
For Work In Restricted Working Space, Add	27.05	
23 21 13 23-0693 EA 1-1/4", 3,000 Lb., Forge Steel Weld-O-Let.....	113.25	
For Work In Restricted Working Space, Add	30.05	
23 21 13 23-0694 EA 1-1/2", 3,000 Lb., Forge Steel Weld-O-Let.....	126.41	
For Work In Restricted Working Space, Add	33.80	
23 21 13 23-0695 EA 2", 3,000 Lb., Forge Steel Weld-O-Let.....	168.74	
For Work In Restricted Working Space, Add	45.06	
23 21 13 23-0696 EA 2-1/2", 3,000 Lb., Forge Steel Weld-O-Let.....	239.65	
For Work In Restricted Working Space, Add	54.09	
23 21 13 23-0697 EA 3", 3,000 Lb., Forge Steel Weld-O-Let.....	315.17	
For Work In Restricted Working Space, Add	70.99	
23 21 13 23-0698 EA 4", 3,000 Lb., Forge Steel Weld-O-Let.....	423.26	
For Work In Restricted Working Space, Add	90.16	
23 21 13 23-0699 EA 6", 3,000 Lb., Forge Steel Weld-O-Let.....	613.53	
For Work In Restricted Working Space, Add	135.22	
23 21 13 23-0700 EA 8", 3,000 Lb., Forge Steel Weld-O-Let.....	908.95	
For Work In Restricted Working Space, Add	180.28	
23 21 13 23-0701 EA 10", 3,000 Lb., Forge Steel Weld-O-Let.....	1,131.39	
For Work In Restricted Working Space, Add	208.04	
23 21 13 23-0702 EA 12", 3,000 Lb., Forge Steel Weld-O-Let.....	1,651.36	
For Work In Restricted Working Space, Add	245.86	
23 21 13 23-0703 3,000 Lb., Forge Steel Sock-O-Lets (23 21 13 23-0393)		
23 21 13 23-0704 EA 1/2", 3,000 Lb., Forge Steel Sock-O-Let.....	105.25	
For Work In Restricted Working Space, Add	29.38	
23 21 13 23-0705 EA 3/4", 3,000 Lb., Forge Steel Sock-O-Let.....	111.27	
For Work In Restricted Working Space, Add	30.80	
23 21 13 23-0706 EA 1", 3,000 Lb., Forge Steel Sock-O-Let.....	118.50	
For Work In Restricted Working Space, Add	32.66	
23 21 13 23-0707 EA 1-1/4", 3,000 Lb., Forge Steel Sock-O-Let.....	130.30	
For Work In Restricted Working Space, Add	34.99	
23 21 13 23-0708 EA 1-1/2", 3,000 Lb., Forge Steel Sock-O-Let.....	146.54	
For Work In Restricted Working Space, Add	39.65	
23 21 13 23-0709 EA 2", 3,000 Lb., Forge Steel Sock-O-Let.....	190.69	
For Work In Restricted Working Space, Add	51.83	
23 21 13 23-0710 EA 2-1/2", 3,000 Lb., Forge Steel Sock-O-Let.....	284.19	
For Work In Restricted Working Space, Add	66.63	
23 21 13 23-0711 EA 3", 3,000 Lb., Forge Steel Sock-O-Let.....	393.15	
For Work In Restricted Working Space, Add	93.30	
23 21 13 23-0712 EA 4", 3,000 Lb., Forge Steel Sock-O-Let.....	517.14	
For Work In Restricted Working Space, Add	116.63	
23 21 13 23-0713 Class 150 Flange, Steel Bolt And Gasket Sets (23 21 13 23-0393)		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0714 EA 3/4" To 1-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	16.53	
Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	4.63	
For Hot Dip Galvanized, Add	6.61	
For Advanced Fluoropolymer (Blue Coating), Add	11.57	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0715	EA	2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	20.97	
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
		For Zinc Plated, Add	5.87	
		For Hot Dip Galvanized, Add	8.39	
		For Advanced Fluoropolymer (Blue Coating), Add	14.68	
23 21 13 23-0716	EA	2-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	21.20	
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
		For Zinc Plated, Add	5.94	
		For Hot Dip Galvanized, Add	8.48	
		For Advanced Fluoropolymer (Blue Coating), Add	14.84	
23 21 13 23-0717	EA	3" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	21.31	
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
		For Zinc Plated, Add	5.97	
		For Hot Dip Galvanized, Add	8.52	
		For Advanced Fluoropolymer (Blue Coating), Add	14.92	
23 21 13 23-0718	EA	4" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	50.27	
		Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
		For Zinc Plated, Add	14.08	
		For Hot Dip Galvanized, Add	20.11	
		For Advanced Fluoropolymer (Blue Coating), Add	35.19	
23 21 13 23-0719	EA	5" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	67.91	
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
		For Zinc Plated, Add	19.01	
		For Hot Dip Galvanized, Add	27.16	
		For Advanced Fluoropolymer (Blue Coating), Add	47.54	
23 21 13 23-0720	EA	6" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	77.69	
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
		For Zinc Plated, Add	21.75	
		For Hot Dip Galvanized, Add	31.08	
		For Advanced Fluoropolymer (Blue Coating), Add	54.38	
23 21 13 23-0721	EA	8" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	86.21	
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
		For Zinc Plated, Add	24.14	
		For Hot Dip Galvanized, Add	34.48	
		For Advanced Fluoropolymer (Blue Coating), Add	60.35	
23 21 13 23-0722	EA	10" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	186.69	
		Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
		For Zinc Plated, Add	52.27	
		For Hot Dip Galvanized, Add	74.68	
		For Advanced Fluoropolymer (Blue Coating), Add	130.68	
23 21 13 23-0723	EA	12" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	192.87	
		Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
		For Zinc Plated, Add	54.00	
		For Hot Dip Galvanized, Add	77.15	
		For Advanced Fluoropolymer (Blue Coating), Add	135.01	
23 21 13 23-0724	EA	14" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	216.62	
		Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
		For Zinc Plated, Add	60.65	
		For Hot Dip Galvanized, Add	86.65	
		For Advanced Fluoropolymer (Blue Coating), Add	151.63	
23 21 13 23-0725	EA	16" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	354.20	
		Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
		For Zinc Plated, Add	99.18	
		For Hot Dip Galvanized, Add	141.68	
		For Advanced Fluoropolymer (Blue Coating), Add	247.94	
23 21 13 23-0726	EA	18" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	505.54	
		Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
		For Zinc Plated, Add	141.55	
		For Hot Dip Galvanized, Add	202.22	
		For Advanced Fluoropolymer (Blue Coating), Add	353.88	
23 21 13 23-0727	EA	20" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	639.25	
		Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
		For Zinc Plated, Add	178.99	
		For Hot Dip Galvanized, Add	255.70	
		For Advanced Fluoropolymer (Blue Coating), Add	447.48	
23 21 13 23-0728	EA	24" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	906.19	
		Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
		For Zinc Plated, Add	253.73	
		For Hot Dip Galvanized, Add	362.48	
		For Advanced Fluoropolymer (Blue Coating), Add	634.33	
23 21 13 23-0729	EA	30" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,428.72	
		Note: Includes rubber gasket, and twenty-eight (28) 1-1/4" diameter bolts with washers and nut.		
		For Zinc Plated, Add	400.04	
		For Hot Dip Galvanized, Add	571.49	
		For Advanced Fluoropolymer (Blue Coating), Add	1,000.10	
23 21 13 23-0730	EA	36" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,969.32	
		Note: Includes rubber gasket, and thirty-two (32) 1-1/2" diameter bolts with washers and nut.		
		For Zinc Plated, Add	551.41	
		For Hot Dip Galvanized, Add	787.73	
		For Advanced Fluoropolymer (Blue Coating), Add	1,378.52	

23 21 13 23-0731 Class 300 Flange, Steel Bolt And Gasket Sets (23 21 13 23-0393)

Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Piping and Pumps			23 20
Hydronic Piping and Pumps			23 21

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13	23-0732	EA 3/4" To 1-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....26.60 Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut. For Zinc Plated, Add 7.45 For Hot Dip Galvanized, Add 10.64 For Advanced Fluoropolymer (Blue Coating), Add 18.62		
23 21	13	23-0733	EA 2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....48.65 Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut. For Zinc Plated, Add 13.62 For Hot Dip Galvanized, Add 19.46 For Advanced Fluoropolymer (Blue Coating), Add 34.06		
23 21	13	23-0734	EA 2-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set 75.61 Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut. For Zinc Plated, Add 21.17 For Hot Dip Galvanized, Add 30.24 For Advanced Fluoropolymer (Blue Coating), Add 52.93		
23 21	13	23-0735	EA 3" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....82.15 Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut. For Zinc Plated, Add 23.00 For Hot Dip Galvanized, Add 32.86 For Advanced Fluoropolymer (Blue Coating), Add 57.51		
23 21	13	23-0736	EA 4" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....92.17 Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut. For Zinc Plated, Add 25.81 For Hot Dip Galvanized, Add 36.87 For Advanced Fluoropolymer (Blue Coating), Add 64.52		
23 21	13	23-0737	EA 5" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....106.00 Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut. For Zinc Plated, Add 29.68 For Hot Dip Galvanized, Add 42.40 For Advanced Fluoropolymer (Blue Coating), Add 74.20		
23 21	13	23-0738	EA 6" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....145.48 Note: Includes rubber gasket, and twelve (12) 3/4" diameter bolts with washers and nut. For Zinc Plated, Add 40.73 For Hot Dip Galvanized, Add 58.19 For Advanced Fluoropolymer (Blue Coating), Add 101.84		
23 21	13	23-0739	EA 8" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....223.52 Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut. For Zinc Plated, Add 62.59 For Hot Dip Galvanized, Add 89.41 For Advanced Fluoropolymer (Blue Coating), Add 156.46		
23 21	13	23-0740	EA 10" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....396.10 Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut. For Zinc Plated, Add 110.91 For Hot Dip Galvanized, Add 158.44 For Advanced Fluoropolymer (Blue Coating), Add 277.27		
23 21	13	23-0741	EA 12" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....564.62 Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut. For Zinc Plated, Add 158.09 For Hot Dip Galvanized, Add 225.85 For Advanced Fluoropolymer (Blue Coating), Add 395.23		
23 21	13	23-0742	EA 14" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....768.19 Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut. For Zinc Plated, Add 215.09 For Hot Dip Galvanized, Add 307.28 For Advanced Fluoropolymer (Blue Coating), Add 537.73		
23 21	13	23-0743	EA 16" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....1,051.93 Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut. For Zinc Plated, Add 294.54 For Hot Dip Galvanized, Add 420.77 For Advanced Fluoropolymer (Blue Coating), Add 736.35		
23 21	13	23-0744	EA 18" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....1,355.97 Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut. For Zinc Plated, Add 379.67 For Hot Dip Galvanized, Add 542.39 For Advanced Fluoropolymer (Blue Coating), Add 949.18		
23 21	13	23-0745	EA 20" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....1,443.72 Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut. For Zinc Plated, Add 404.24 For Hot Dip Galvanized, Add 577.49 For Advanced Fluoropolymer (Blue Coating), Add 1,010.60		
23 21	13	23-0746	EA 24" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....1,840.31 Note: Includes rubber gasket, and twenty-four (24) 1-1/2" diameter bolts with washers and nut. For Zinc Plated, Add 515.29 For Hot Dip Galvanized, Add 736.12 For Advanced Fluoropolymer (Blue Coating), Add 1,288.22		
23 21	13	23-0747	EA 30" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....2,912.40 Note: Includes rubber gasket, and twenty-eight (28) 1-3/4" diameter bolts with washers and nut. For Zinc Plated, Add 815.47 For Hot Dip Galvanized, Add 1,164.96 For Advanced Fluoropolymer (Blue Coating), Add 2,038.68		
23 21	13	23-0748	EA 36" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....4,124.47 Note: Includes rubber gasket, and thirty-two (32) 2" diameter bolts with washers and nut. For Zinc Plated, Add 1,154.85 For Hot Dip Galvanized, Add 1,649.79 For Advanced Fluoropolymer (Blue Coating), Add 2,887.13		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 21 13 23-0749	Class 150 Flange, Stainless Steel Bolt And Gasket Sets (23 21 13 23-0393)		
	Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0750	EA	3/4" To 1-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	16.53
		Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.	
23 21 13 23-0751	EA	2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	57.44
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	
23 21 13 23-0752	EA	2-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	57.54
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	
23 21 13 23-0753	EA	3" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	57.65
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	
23 21 13 23-0754	EA	4" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	124.45
		Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.	
23 21 13 23-0755	EA	5" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	154.51
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	
23 21 13 23-0756	EA	6" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	178.58
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	
23 21 13 23-0757	EA	8" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	181.06
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	
23 21 13 23-0758	EA	10" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	460.88
		Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.	
23 21 13 23-0759	EA	12" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	465.55
		Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.	
23 21 13 23-0760	EA	14" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	700.22
		Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.	
23 21 13 23-0761	EA	16" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	931.62
		Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.	
23 21 13 23-0762	EA	18" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	2,395.64
		Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.	
23 21 13 23-0763	EA	20" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	2,778.17
		Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.	
23 21 13 23-0764	EA	24" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	3,209.47
		Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.	
23 21 13 23-0765	150 Lb., Rubber Flange Gasket Replacement (23 21 13 23-0393)		
	Note: Includes unbolting, removal of old gaskets, new 150 Lb. rubber gasket and rebolting.		
23 21 13 23-0766	EA	1/2", 150 Lb., Rubber Flange Gasket Replacement.....	33.88
		For 300 Lb. Rating Gasket Set, Add	0.19
		For Work In Restricted Working Space, Add	10.00
23 21 13 23-0767	EA	3/4", 150 Lb., Rubber Flange Gasket Replacement.....	36.29
		For 300 Lb. Rating Gasket Set, Add	0.26
		For Work In Restricted Working Space, Add	10.67
23 21 13 23-0768	EA	1", 150 Lb., Rubber Flange Gasket Replacement.....	40.16
		For 300 Lb. Rating Gasket Set, Add	0.44
		For Work In Restricted Working Space, Add	11.67
23 21 13 23-0769	EA	1-1/4", 150 Lb., Rubber Flange Gasket Replacement.....	43.68
		For 300 Lb. Rating Gasket Set, Add	0.51
		For Work In Restricted Working Space, Add	12.67
23 21 13 23-0770	EA	1-1/2", 150 Lb., Rubber Flange Gasket Replacement.....	48.49
		For 300 Lb. Rating Gasket Set, Add	0.64
		For Work In Restricted Working Space, Add	14.00
23 21 13 23-0771	EA	2", 150 Lb., Rubber Flange Gasket Replacement.....	53.66
		For 300 Lb. Rating Gasket Set, Add	0.89
		For Work In Restricted Working Space, Add	15.34
23 21 13 23-0772	EA	2-1/2", 150 Lb., Rubber Flange Gasket Replacement.....	63.45
		For 300 Lb. Rating Gasket Set, Add	1.21
		For Work In Restricted Working Space, Add	18.00
23 21 13 23-0773	EA	3", 150 Lb., Rubber Flange Gasket Replacement.....	67.34
		For 300 Lb. Rating Gasket Set, Add	1.40
		For Work In Restricted Working Space, Add	19.00
23 21 13 23-0774	EA	4", 150 Lb., Rubber Flange Gasket Replacement.....	89.88
		For 300 Lb. Rating Gasket Set, Add	2.29
		For Work In Restricted Working Space, Add	25.00
23 21 13 23-0775	EA	5", 150 Lb., Rubber Flange Gasket Replacement.....	103.95
		For 300 Lb. Rating Gasket Set, Add	2.54
		For Work In Restricted Working Space, Add	29.00
23 21 13 23-0776	EA	6", 150 Lb., Rubber Flange Gasket Replacement.....	119.46
		For 300 Lb. Rating Gasket Set, Add	3.31
		For Work In Restricted Working Space, Add	33.00
23 21 13 23-0777	EA	8", 150 Lb., Rubber Flange Gasket Replacement.....	147.17
		For 300 Lb. Rating Gasket Set, Add	4.84
		For Work In Restricted Working Space, Add	40.01
23 21 13 23-0778	EA	10", 150 Lb., Rubber Flange Gasket Replacement.....	161.87
		For 300 Lb. Rating Gasket Set, Add	6.87
		For Work In Restricted Working Space, Add	42.67
23 21 13 23-0779	EA	12", 150 Lb., Rubber Flange Gasket Replacement.....	186.23
		For 300 Lb. Rating Gasket Set, Add	8.78
		For Work In Restricted Working Space, Add	48.34
23 21 13 23-0780	EA	14", 150 Lb., Rubber Flange Gasket Replacement.....	196.68
		For 300 Lb. Rating Gasket Set, Add	10.50
		For Work In Restricted Working Space, Add	50.01

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0781 EA 16", 150 Lb., Rubber Flange Gasket Replacement	255.70	
For 300 Lb. Rating Gasket Set, Add	11.71	
For Work In Restricted Working Space, Add	66.68	
23 21 13 23-0782 EA 18", 150 Lb., Rubber Flange Gasket Replacement	278.25	
For 300 Lb. Rating Gasket Set, Add	12.22	
For Work In Restricted Working Space, Add	73.01	
23 21 13 23-0783 EA 20", 150 Lb., Rubber Flange Gasket Replacement	334.13	
For 300 Lb. Rating Gasket Set, Add	13.11	
For Work In Restricted Working Space, Add	89.00	
23 21 13 23-0784 Cut And Prepare For Welding Existing In-Place Black Steel Pipe (23 21 13 23-0393)		
Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0785 EA 1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	24.12	
For Work In Restricted Working Space, Add	7.24	
23 21 13 23-0786 EA 3/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	26.05	
For Work In Restricted Working Space, Add	7.82	
23 21 13 23-0787 EA 1", Cut And Prepare For Welding Existing In Place Black Steel Pipe	29.31	
For Work In Restricted Working Space, Add	8.79	
23 21 13 23-0788 EA 1-1/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	30.75	
For Work In Restricted Working Space, Add	9.23	
23 21 13 23-0789 EA 1-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	32.56	
For Work In Restricted Working Space, Add	9.77	
23 21 13 23-0790 EA 2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	34.97	
For Work In Restricted Working Space, Add	10.49	
23 21 13 23-0791 EA 2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	37.40	
For Work In Restricted Working Space, Add	11.22	
23 21 13 23-0792 EA 3", Cut And Prepare For Welding Existing In Place Black Steel Pipe	41.01	
For Work In Restricted Working Space, Add	12.30	
23 21 13 23-0793 EA 4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	44.62	
For Work In Restricted Working Space, Add	13.39	
23 21 13 23-0794 EA 6", Cut And Prepare For Welding Existing In Place Black Steel Pipe	48.25	
For Work In Restricted Working Space, Add	14.48	
23 21 13 23-0795 EA 8", Cut And Prepare For Welding Existing In Place Black Steel Pipe	51.86	
For Work In Restricted Working Space, Add	15.56	
23 21 13 23-0796 EA 10", Cut And Prepare For Welding Existing In Place Black Steel Pipe	56.69	
For Work In Restricted Working Space, Add	17.01	
23 21 13 23-0797 EA 12", Cut And Prepare For Welding Existing In Place Black Steel Pipe	61.51	
For Work In Restricted Working Space, Add	18.45	
23 21 13 23-0798 EA 14", Cut And Prepare For Welding Existing In Place Black Steel Pipe	66.34	
For Work In Restricted Working Space, Add	19.90	
23 21 13 23-0799 EA 16", Cut And Prepare For Welding Existing In Place Black Steel Pipe	71.16	
For Work In Restricted Working Space, Add	21.35	
23 21 13 23-0800 EA 18", Cut And Prepare For Welding Existing In Place Black Steel Pipe	74.78	
For Work In Restricted Working Space, Add	22.43	
23 21 13 23-0801 EA 20", Cut And Prepare For Welding Existing In Place Black Steel Pipe	78.39	
For Work In Restricted Working Space, Add	23.52	
23 21 13 23-0802 EA 24", Cut And Prepare For Welding Existing In Place Black Steel Pipe	83.23	
For Work In Restricted Working Space, Add	24.97	
23 21 13 23-0803 Welded Plain End Electric Resistance Black Steel Pipe (23 21 13 23-0393)		
Note: ASTM A-135.		
23 21 13 23-0804 LF 2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	26.52	12.39
For Work In Restricted Working Space, Add	6.08	
23 21 13 23-0805 LF 2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	29.86	13.52
For Work In Restricted Working Space, Add	6.08	
23 21 13 23-0806 LF 3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	31.69	13.29
For Work In Restricted Working Space, Add	5.96	
23 21 13 23-0807 LF 4" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	39.59	16.90
For Work In Restricted Working Space, Add	7.60	
23 21 13 23-0808 LF 6" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	65.12	25.01
For Work In Restricted Working Space, Add	11.25	
23 21 13 23-0809 LF 8.322" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	84.45	30.27
For Work In Restricted Working Space, Add	13.64	
23 21 13 23-0810 LF 10.365" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	114.48	37.70
For Work In Restricted Working Space, Add	16.97	
23 21 13 23-0811 LF 12.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	139.00	45.46
For Work In Restricted Working Space, Add	20.45	
23 21 13 23-0812 LF 14.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	177.37	59.00
For Work In Restricted Working Space, Add	26.54	
23 21 13 23-0813 150 Lb., Spiral Wound Metal Flange Gasket Replacement (23 21 13 23-0393)		
Note: Includes unbolting, removal of old gaskets, new 150 Lb. spiral wound metal flange gasket (1/8" thick carbon steel outer ring with spiral wound 304 stainless steel inner ring) and rebolting.		
23 21 13 23-0814 EA 1/2", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	38.64	
For 300 Lb., Add	0.40	
For Work In Restricted Working Space, Add	10.00	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0815 EA 3/4", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	40.94	
For 300 Lb., Add	0.40	
For Work In Restricted Working Space, Add	10.67	
23 21 13 23-0816 EA 1", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	44.32	
For 300 Lb., Add	0.41	
For Work In Restricted Working Space, Add	11.67	
23 21 13 23-0817 EA 1-1/4", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	48.48	
For 300 Lb., Add	0.47	
For Work In Restricted Working Space, Add	12.67	
23 21 13 23-0818 EA 1-1/2", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	53.06	
For 300 Lb., Add	0.48	
For Work In Restricted Working Space, Add	14.00	
23 21 13 23-0819 EA 2", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	57.80	
For 300 Lb., Add	0.50	
For Work In Restricted Working Space, Add	15.34	
23 21 13 23-0820 EA 2-1/2", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	67.27	
For 300 Lb., Add	0.55	
For Work In Restricted Working Space, Add	18.00	
23 21 13 23-0821 EA 3", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	71.19	
For 300 Lb., Add	0.59	
For Work In Restricted Working Space, Add	19.00	
23 21 13 23-0822 EA 4", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	93.37	
For 300 Lb., Add	0.75	
For Work In Restricted Working Space, Add	25.00	
23 21 13 23-0823 EA 5", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	109.06	
For 300 Lb., Add	0.93	
For Work In Restricted Working Space, Add	29.00	
23 21 13 23-0824 EA 6", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	123.78	
For 300 Lb., Add	1.03	
For Work In Restricted Working Space, Add	33.01	
23 21 13 23-0825 EA 8", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	149.79	
For 300 Lb., Add	1.23	
For Work In Restricted Working Space, Add	40.01	
23 21 13 23-0826 EA 10", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	164.89	
For 300 Lb., Add	1.70	
For Work In Restricted Working Space, Add	42.67	
23 21 13 23-0827 EA 12", 150 Lb., Spiral Wound Metal Flange Gasket Replacement	195.26	
For 300 Lb., Add	2.56	
For Work In Restricted Working Space, Add	48.34	
23 21 13 23-0828 150 Lb., Flexible Graphite Flange Gasket Replacement (23 21 13 23-0393)		
Note: Includes unbolting, removal of old gaskets, new 150 Lb. spiral wound metal flange gasket (flexible graphite outer ring with 316 stainless steel inner ring) and rebolting.		
23 21 13 23-0829 EA 1/2", 150 Lb., Flexible Graphite Flange Gasket Replacement	34.40	
For Work In Restricted Working Space, Add	10.00	
23 21 13 23-0830 EA 3/4", 150 Lb., Flexible Graphite Flange Gasket Replacement	37.32	
For Work In Restricted Working Space, Add	10.67	
23 21 13 23-0831 EA 1", 150 Lb., Flexible Graphite Flange Gasket Replacement	40.91	
For Work In Restricted Working Space, Add	11.67	
23 21 13 23-0832 EA 1-1/4", 150 Lb., Flexible Graphite Flange Gasket Replacement	45.10	
For Work In Restricted Working Space, Add	12.67	
23 21 13 23-0833 EA 1-1/2", 150 Lb., Flexible Graphite Flange Gasket Replacement	49.73	
For Work In Restricted Working Space, Add	14.00	
23 21 13 23-0834 EA 2", 150 Lb., Flexible Graphite Flange Gasket Replacement	55.14	
For Work In Restricted Working Space, Add	15.34	
23 21 13 23-0835 EA 2-1/2", 150 Lb., Flexible Graphite Flange Gasket Replacement	65.43	
For Work In Restricted Working Space, Add	18.00	
23 21 13 23-0836 EA 3", 150 Lb., Flexible Graphite Flange Gasket Replacement	69.06	
For Work In Restricted Working Space, Add	19.00	
23 21 13 23-0837 EA 4", 150 Lb., Flexible Graphite Flange Gasket Replacement	92.60	
For Work In Restricted Working Space, Add	25.00	
23 21 13 23-0838 EA 5", 150 Lb., Flexible Graphite Flange Gasket Replacement	107.70	
For Work In Restricted Working Space, Add	29.00	
23 21 13 23-0839 EA 6", 150 Lb., Flexible Graphite Flange Gasket Replacement	122.31	
For Work In Restricted Working Space, Add	33.01	
23 21 13 23-0840 EA 8", 150 Lb., Flexible Graphite Flange Gasket Replacement	154.05	
For Work In Restricted Working Space, Add	40.01	
23 21 13 23-0841 EA 10", 150 Lb., Flexible Graphite Flange Gasket Replacement	172.26	
For Work In Restricted Working Space, Add	42.67	
23 21 13 23-0842 EA 12", 150 Lb., Flexible Graphite Flange Gasket Replacement	198.26	
For Work In Restricted Working Space, Add	48.34	
23 21 13 23-0843 150 Lb., Teflon, Spiral Wound, Flange Gasket Replacement (23 21 13 23-0393)		
Note: Includes unbolting, removal of old gaskets, new 150 Lb. spiral wound metal flange gasket (teflon outer ring with 304 stainless steel inner ring) and rebolting.		
23 21 13 23-0844 EA 1/2", 150 Lb. Teflon, Spiral Wound, Flange Gasket Replacement	54.80	
For Work In Restricted Working Space, Add	10.00	
23 21 13 23-0845 EA 3/4", 150 Lb. Teflon, Spiral Wound, Flange Gasket Replacement	58.48	
For Work In Restricted Working Space, Add	10.67	
23 21 13 23-0846 EA 1", 150 Lb. Teflon, Spiral Wound, Flange Gasket Replacement	63.30	
For Work In Restricted Working Space, Add	11.67	
23 21 13 23-0847 EA 1-1/4", Teflon, Spiral Wound, Flange Gasket Replacement	71.79	
For Work In Restricted Working Space, Add	12.67	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0848 EA 1-1/2", Teflon, Spiral Wound, Flange Gasket Replacement..... <i>For Work In Restricted Working Space, Add</i>	77.22 14.00	
23 21 13 23-0849 EA 2", Teflon, Spiral Wound, Flange Gasket Replacement..... <i>For Work In Restricted Working Space, Add</i>	84.21 15.34	
23 21 13 23-0850 EA 2-1/2", 150 Lb. Teflon, Spiral Wound, Flange Gasket Replacement..... <i>For Work In Restricted Working Space, Add</i>	97.83 18.00	
23 21 13 23-0851 EA 3", 150 Lb. Teflon, Spiral Wound, Flange Gasket Replacement..... <i>For Work In Restricted Working Space, Add</i>	111.34 19.00	
23 21 13 23-0852 EA 4", 150 Lb. Teflon, Spiral Wound, Flange Gasket Replacement..... <i>For Work In Restricted Working Space, Add</i>	140.49 25.00	
23 21 13 23-0853 EA 5", 150 Lb. Teflon, Spiral Wound, Flange Gasket Replacement..... <i>For Work In Restricted Working Space, Add</i>	167.86 29.00	
23 21 13 23-0854 EA 6", 150 Lb. Teflon, Spiral Wound, Flange Gasket Replacement..... <i>For Work In Restricted Working Space, Add</i>	220.35 33.01	
23 21 13 23-0855 EA 8", 150 Lb. Teflon, Spiral Wound, Flange Gasket Replacement..... <i>For Work In Restricted Working Space, Add</i>	242.34 40.01	
23 21 13 23-0856 EA 10", 150 Lb. Teflon, Spiral Wound, Flange Gasket Replacement..... <i>For Work In Restricted Working Space, Add</i>	276.29 42.67	
23 21 13 23-0857 EA 12", 150 Lb. Teflon, Spiral Wound, Flange Gasket Replacement..... <i>For Work In Restricted Working Space, Add</i>	363.59 48.34	
23 21 13 23-0858 Flanged Steel Fittings (23 21 13 23) See CSI section 23 21 13 23-0394 for steel pipe, 23 21 13 23-0637 for welded neck flange ends.		
23 21 13 23-0859 Flanged Steel Fittings, Standard Weight (23 21 13 23-0858) Note: Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0860 Flanged Steel, 90 Degree Elbows (23 21 13 23-0859)		
23 21 13 23-0861 EA 2" Standard Weight, Flanged Steel, 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	321.98 195.38 293.08	51.86
23 21 13 23-0862 EA 2-1/2" Standard Weight, Flanged Steel, 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	359.09 217.97 326.95	57.76
23 21 13 23-0863 EA 3" Standard Weight, Flanged Steel, 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	360.61 212.08 318.12	63.75
23 21 13 23-0864 EA 4" Standard Weight, Flanged Steel, 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	453.48 273.94 410.90	74.08
23 21 13 23-0865 EA 5" Standard Weight, Flanged Steel, 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	621.45 397.65 596.47	82.96
23 21 13 23-0866 EA 6" Standard Weight, Flanged Steel, 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	662.30 414.34 621.50	96.30
23 21 13 23-0867 EA 8" Standard Weight, Flanged Steel, 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	830.89 536.77 805.15	106.62
23 21 13 23-0868 Flanged Steel, Reducing 90 Degree Elbows (23 21 13 23-0859)		
23 21 13 23-0869 EA 2-1/2" x 2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	575.57 394.70 592.06	54.87
23 21 13 23-0870 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	601.63 408.45 612.67	60.76
23 21 13 23-0871 EA 4" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	745.17 513.50 770.26	68.86
23 21 13 23-0872 EA 5" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	915.06 644.09 966.13	73.31
23 21 13 23-0873 EA 6" x 4" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,043.30 732.46 1,098.68	85.19
23 21 13 23-0874 EA 8" x 6" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,444.51 1,033.88 1,550.82	101.51
23 21 13 23-0875 Flanged Steel, 45 Degree Elbows (23 21 13 23-0859)		
23 21 13 23-0876 EA 2" Standard Weight, Flanged Steel, 45 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	410.35 266.08 399.12	51.86
23 21 13 23-0877 EA 2-1/2" Standard Weight, Flanged Steel, 45 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	430.28 274.92 412.38	57.76
23 21 13 23-0878 EA 3" Standard Weight, Flanged Steel, 45 Degree Elbow <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	448.97 282.77 424.15	63.75

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0879 EA 4" Standard Weight, Flanged Steel, 45 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	556.57 356.41 534.61	74.08
23 21 13 23-0880 EA 5" Standard Weight, Flanged Steel, 45 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	788.36 531.18 796.76	82.96
23 21 13 23-0881 EA 6" Standard Weight, Flanged Steel, 45 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	777.67 506.63 759.95	96.30
23 21 13 23-0882 EA 8" Standard Weight, Flanged Steel, 45 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	913.05 602.50 903.74	106.62
23 21 13 23-0883 Flanged Steel, Tees (23 21 13 23-0859)		
23 21 13 23-0884 EA 2" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	419.76 242.51 363.77	77.75
23 21 13 23-0885 EA 2-1/2" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	533.72 323.02 484.54	86.63
23 21 13 23-0886 EA 3" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	496.75 282.78 424.16	95.51
23 21 13 23-0887 EA 4" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	694.32 422.18 633.28	111.17
23 21 13 23-0888 EA 5" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,006.89 656.24 984.36	124.50
23 21 13 23-0889 EA 6" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,224.35 806.22 1,209.34	144.50
23 21 13 23-0890 EA 8" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,360.14 887.31 1,330.97	167.38
23 21 13 23-0891 Flanged Steel, Reducing Tees (23 21 13 23-0859)		
23 21 13 23-0892 EA 2-1/2" Standard Weight, Flanged Steel, Reducing Tee For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	639.74 411.39 617.09	83.74
23 21 13 23-0893 EA 3" Standard Weight, Flanged Steel, Reducing Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	736.53 478.16 717.24	92.63
23 21 13 23-0894 EA 4" Standard Weight, Flanged Steel, Reducing Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,235.09 861.02 1,291.52	105.95
23 21 13 23-0895 EA 5" Standard Weight, Flanged Steel, Reducing Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,338.35 926.74 1,390.12	120.06
23 21 13 23-0896 EA 6" Standard Weight, Flanged Steel, Reducing Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,674.47 1,174.31 1,761.47	137.83
23 21 13 23-0897 EA 8" Standard Weight, Flanged Steel, Reducing Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	2,080.44 1,478.66 2,217.98	154.83
23 21 13 23-0898 Flanged Steel, Concentric Reducers (23 21 13 23-0859)		
23 21 13 23-0899 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Concentric Reducer For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	594.27 402.56 603.84	60.76
23 21 13 23-0900 EA 4" x 3" Standard Weight, Flanged Steel, Concentric Reducer For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	675.21 457.54 686.30	68.86
23 21 13 23-0901 EA 5" x 4" Standard Weight, Flanged Steel, Concentric Reducer For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	987.89 696.13 1,044.19	78.52
23 21 13 23-0902 EA 6" x 4" Standard Weight, Flanged Steel, Concentric Reducer For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,088.71 768.78 1,153.18	85.19
23 21 13 23-0903 EA 8" x 6" Standard Weight, Flanged Steel, Concentric Reducer For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,276.37 899.37 1,349.05	101.51
23 21 13 23-0904 Flanged Steel, Eccentric Reducers (23 21 13 23-0859)		
23 21 13 23-0905 EA 4" x 3" Standard Weight, Flanged Steel, Eccentric Reducer..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	644.29 432.80 649.20	68.86
23 21 13 23-0906 EA 5" x 4" Standard Weight, Flanged Steel, Eccentric Reducer..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	866.88 599.32 898.98	78.52

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0907		Plain End Couplings And Fittings (23 21 13 23)		
		Note: For use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel.		
23 21 13 23-0908		Plain End Piping System Couplings (23 21 13 23-0907)		
23 21 13 23-0909		Plainlock Plain End Piping System Couplings (23 21 13 23-0908)		
		Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0910	EA	1" Plainlock Plain End Piping System Coupling.....	151.01	6.67
		For Galvanized Fittings, Add	28.20	
23 21 13 23-0911	EA	1-1/2" Plainlock Plain End Piping System Coupling.....	154.90	9.21
		For Galvanized Fittings, Add	28.20	
23 21 13 23-0912	EA	2" Plainlock Plain End Piping System Coupling.....	159.40	12.22
		For Galvanized Fittings, Add	28.20	
23 21 13 23-0913	EA	2-1/2" Plainlock Plain End Piping System Coupling.....	163.24	14.77
		For Galvanized Fittings, Add	28.20	
23 21 13 23-0914	EA	3" Plainlock Plain End Piping System Coupling.....	193.08	17.77
		For Galvanized Fittings, Add	33.29	
23 21 13 23-0915	EA	4" Plainlock Plain End Piping System Coupling.....	266.12	23.66
		For Galvanized Fittings, Add	46.12	
23 21 13 23-0916	EA	6" Plainlock Plain End Piping System Coupling.....	447.11	38.54
		For Galvanized Fittings, Add	77.87	
23 21 13 23-0917		Roust-A-Bout Plain End Piping System Couplings (23 21 13 23-0908)		
		Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0918	EA	1-1/2" Roust-A-Bout Plain End Piping System Coupling.....	182.29	9.21
		For Galvanized Fittings, Add	42.10	
23 21 13 23-0919	EA	2" Roust-A-Bout Plain End Piping System Coupling.....	186.79	12.22
		For Galvanized Fittings, Add	42.10	
23 21 13 23-0920	EA	2-1/2" Roust-A-Bout Plain End Piping System Coupling.....	190.64	14.88
		For Galvanized Fittings, Add	42.10	
23 21 13 23-0921	EA	3" Roust-A-Bout Plain End Piping System Coupling.....	276.09	17.77
		For Galvanized Fittings, Add	62.36	
23 21 13 23-0922	EA	3-1/2" Roust-A-Bout Plain End Piping System Coupling.....	319.82	20.77
		For Galvanized Fittings, Add	72.17	
23 21 13 23-0923	EA	4" Roust-A-Bout Plain End Piping System Coupling.....	324.21	23.66
		For Galvanized Fittings, Add	72.17	
23 21 13 23-0924	EA	5" Roust-A-Bout Plain End Piping System Coupling.....	456.89	29.66
		For Galvanized Fittings, Add	103.11	
23 21 13 23-0925	EA	6" Roust-A-Bout Plain End Piping System Coupling.....	561.49	38.54
		For Galvanized Fittings, Add	125.93	
23 21 13 23-0926	EA	8" Roust-A-Bout Plain End Piping System Coupling.....	962.11	45.98
		For Galvanized Fittings, Add	223.30	
23 21 13 23-0927	EA	10" Roust-A-Bout Plain End Piping System Coupling.....	1,243.68	54.42
		For Galvanized Fittings, Add	290.51	
23 21 13 23-0928	EA	12" Roust-A-Bout Plain End Piping System Coupling.....	1,554.74	64.41
		For Galvanized Fittings, Add	364.53	
23 21 13 23-0929	EA	14" Roust-A-Bout Plain End Piping System Coupling.....	2,177.31	71.19
		For Galvanized Fittings, Add	517.63	
23 21 13 23-0930	EA	16" Roust-A-Bout Plain End Piping System Coupling.....	2,956.13	80.53
		For Galvanized Fittings, Add	708.85	
23 21 13 23-0931		Plain End Piping System Fittings (23 21 13 23-0907)		
		Note: Cast ductile iron bodies.		
23 21 13 23-0932		Plain End Piping System, 90 Degree Elbows (23 21 13 23-0931)		
23 21 13 23-0933	EA	1" Plain End Piping System, 90 Degree Elbow.....	151.27	12.11
		For Galvanized Fittings, Add	26.62	
23 21 13 23-0934	EA	1-1/2" Plain End Piping System, 90 Degree Elbow.....	160.61	18.33
		For Galvanized Fittings, Add	26.62	
23 21 13 23-0935	EA	2" Plain End Piping System, 90 Degree Elbow.....	169.42	24.21
		For Galvanized Fittings, Add	26.62	
23 21 13 23-0936	EA	2-1/2" Plain End Piping System, 90 Degree Elbow.....	177.33	29.55
		For Galvanized Fittings, Add	26.62	
23 21 13 23-0937	EA	3" Plain End Piping System, 90 Degree Elbow.....	213.50	35.76
		For Galvanized Fittings, Add	31.98	
23 21 13 23-0938	EA	4" Plain End Piping System, 90 Degree Elbow.....	303.83	47.09
		For Galvanized Fittings, Add	46.63	
23 21 13 23-0939	EA	5" Plain End Piping System, 90 Degree Elbow.....	895.52	58.97
		For Galvanized Fittings, Add	161.42	
23 21 13 23-0940	EA	6" Plain End Piping System, 90 Degree Elbow.....	757.46	77.19
		For Galvanized Fittings, Add	128.35	
23 21 13 23-0941	EA	8" Plain End Piping System, 90 Degree Elbow.....	1,492.93	91.62
		For Galvanized Fittings, Add	271.09	
23 21 13 23-0942	EA	10" Plain End Piping System, 90 Degree Elbow.....	1,864.12	107.06
		For Galvanized Fittings, Add	340.72	
23 21 13 23-0943	EA	12" Plain End Piping System, 90 Degree Elbow.....	2,361.92	128.61
		For Galvanized Fittings, Add	433.82	
23 21 13 23-0944		Plain End Piping System, 45 Degree Elbows (23 21 13 23-0931)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0945	EA	1" Plain End Piping System, 45 Degree Elbow	151.27	12.11
		<i>For Galvanized Fittings, Add</i>	26.62	
23 21 13 23-0946	EA	1-1/2" Plain End Piping System, 45 Degree Elbow	160.61	18.33
		<i>For Galvanized Fittings, Add</i>	26.62	
23 21 13 23-0947	EA	2" Plain End Piping System, 45 Degree Elbow	169.42	24.21
		<i>For Galvanized Fittings, Add</i>	26.62	
23 21 13 23-0948	EA	2-1/2" Plain End Piping System, 45 Degree Elbow	177.33	29.55
		<i>For Galvanized Fittings, Add</i>	26.62	
23 21 13 23-0949	EA	3" Plain End Piping System, 45 Degree Elbow	213.50	35.76
		<i>For Galvanized Fittings, Add</i>	31.98	
23 21 13 23-0950	EA	4" Plain End Piping System, 45 Degree Elbow	303.83	47.09
		<i>For Galvanized Fittings, Add</i>	46.63	
23 21 13 23-0951	EA	5" Plain End Piping System, 45 Degree Elbow	895.52	58.97
		<i>For Galvanized Fittings, Add</i>	161.42	
23 21 13 23-0952	EA	6" Plain End Piping System, 45 Degree Elbow	759.93	77.19
		<i>For Galvanized Fittings, Add</i>	128.85	
23 21 13 23-0953	EA	8" Plain End Piping System, 45 Degree Elbow	882.24	91.62
		<i>For Galvanized Fittings, Add</i>	148.96	
23 21 13 23-0954	EA	10" Plain End Piping System, 45 Degree Elbow	1,199.89	107.06
		<i>For Galvanized Fittings, Add</i>	207.88	
23 21 13 23-0955	EA	12" Plain End Piping System, 45 Degree Elbow	1,535.59	128.61
		<i>For Galvanized Fittings, Add</i>	268.55	
23 21 13 23-0956 Plain End Piping System, Tees (23 21 13 23-0931)				
23 21 13 23-0957	EA	1" Plain End Piping System, Tee	206.75	18.33
		<i>For Galvanized Fittings, Add</i>	35.85	
23 21 13 23-0958	EA	1-1/2" Plain End Piping System, Tee	220.52	27.54
		<i>For Galvanized Fittings, Add</i>	35.85	
23 21 13 23-0959	EA	2" Plain End Piping System, Tee	232.66	35.65
		<i>For Galvanized Fittings, Add</i>	35.85	
23 21 13 23-0960	EA	2-1/2" Plain End Piping System, Tee	244.75	43.65
		<i>For Galvanized Fittings, Add</i>	35.85	
23 21 13 23-0961	EA	3" Plain End Piping System, Tee	338.46	53.65
		<i>For Galvanized Fittings, Add</i>	51.59	
23 21 13 23-0962	EA	4" Plain End Piping System, Tee	462.75	69.42
		<i>For Galvanized Fittings, Add</i>	71.75	
23 21 13 23-0963	EA	5" Plain End Piping System, Tee	924.20	90.74
		<i>For Galvanized Fittings, Add</i>	157.62	
23 21 13 23-0964	EA	6" Plain End Piping System, Tee	1,143.00	113.62
		<i>For Galvanized Fittings, Add</i>	194.53	
23 21 13 23-0965	EA	8" Plain End Piping System, Tee	1,554.90	138.16
		<i>For Galvanized Fittings, Add</i>	269.54	
23 21 13 23-0966	EA	10" Plain End Piping System, Tee	2,299.51	161.04
		<i>For Galvanized Fittings, Add</i>	411.61	
23 21 13 23-0967	EA	12" Plain End Piping System, Tee	3,073.32	192.92
		<i>For Galvanized Fittings, Add</i>	556.82	
23 21 13 23-0968 Plain End Piping System, Reducing Tees (23 21 13 23-0931)				
23 21 13 23-0969	EA	1-1/2" Plain End Piping System, Reducing Tee	398.58	29.55
		<i>For Galvanized Fittings, Add</i>	70.86	
23 21 13 23-0970	EA	2" Plain End Piping System, Reducing Tee	407.72	35.65
		<i>For Galvanized Fittings, Add</i>	70.86	
23 21 13 23-0971	EA	2-1/2" Plain End Piping System, Reducing Tee	419.81	43.65
		<i>For Galvanized Fittings, Add</i>	70.86	
23 21 13 23-0972	EA	3" Plain End Piping System, Reducing Tee	434.81	53.65
		<i>For Galvanized Fittings, Add</i>	70.86	
23 21 13 23-0973	EA	4" Plain End Piping System, Reducing Tee	627.08	69.42
		<i>For Galvanized Fittings, Add</i>	104.62	
23 21 13 23-0974	EA	6" Plain End Piping System, Reducing Tee	1,058.61	113.62
		<i>For Galvanized Fittings, Add</i>	177.65	
23 21 13 23-0975	EA	8" Plain End Piping System, Reducing Tee	1,377.00	138.16
		<i>For Galvanized Fittings, Add</i>	233.96	
23 21 13 23-0976	EA	10" Plain End Piping System, Reducing Tee	2,044.87	161.04
		<i>For Galvanized Fittings, Add</i>	360.68	
23 21 13 23-0977	EA	12" Plain End Piping System, Reducing Tee	3,000.46	192.92
		<i>For Galvanized Fittings, Add</i>	542.25	
23 21 13 23-0978 Plain End Piping System, Wyes (23 21 13 23-0931)				
23 21 13 23-0979	EA	2" Plain End Piping System, Wye	578.46	35.65
		<i>For Galvanized Fittings, Add</i>	105.01	
23 21 13 23-0980	EA	2-1/2" Plain End Piping System, Wye	590.55	43.65
		<i>For Galvanized Fittings, Add</i>	105.01	
23 21 13 23-0981	EA	3" Plain End Piping System, Wye	670.69	53.65
		<i>For Galvanized Fittings, Add</i>	118.04	
23 21 13 23-0982	EA	4" Plain End Piping System, Wye	980.04	69.42
		<i>For Galvanized Fittings, Add</i>	175.21	
23 21 13 23-0983	EA	5" Plain End Piping System, Wye	1,202.15	90.74
		<i>For Galvanized Fittings, Add</i>	213.21	
23 21 13 23-0984	EA	6" Plain End Piping System, Wye	1,638.33	113.62
		<i>For Galvanized Fittings, Add</i>	293.60	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR		UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI				UNIT COST	UNIT COST
23 21 13 23-0985	EA		8" Plain End Piping System, Wye	2,108.34	138.16
			For Galvanized Fittings, Add	380.23	
23 21 13 23-0986	EA		10" Plain End Piping System, Wye	3,044.91	161.04
			For Galvanized Fittings, Add	560.69	
23 21 13 23-0987	EA		12" Plain End Piping System, Wye	4,611.00	192.92
			For Galvanized Fittings, Add	864.35	
23 21 13 23-0988 Plain End Piping System, Laterals (23 21 13 23-0931)					
23 21 13 23-0989	EA		2" Plain End Piping System, Lateral	615.60	35.65
			For Galvanized Fittings, Add	112.44	
23 21 13 23-0990	EA		2-1/2" Plain End Piping System, Lateral	627.69	43.65
			For Galvanized Fittings, Add	112.44	
23 21 13 23-0991	EA		3" Plain End Piping System, Lateral	707.58	53.65
			For Galvanized Fittings, Add	125.42	
23 21 13 23-0992	EA		4" Plain End Piping System, Lateral	1,050.48	69.42
			For Galvanized Fittings, Add	189.30	
23 21 13 23-0993	EA		5" Plain End Piping System, Lateral	1,369.93	90.74
			For Galvanized Fittings, Add	246.76	
23 21 13 23-0994	EA		6" Plain End Piping System, Lateral	1,746.28	113.62
			For Galvanized Fittings, Add	315.19	
23 21 13 23-0995	EA		8" Plain End Piping System, Lateral	2,504.85	138.16
			For Galvanized Fittings, Add	459.53	
23 21 13 23-0996	EA		10" Plain End Piping System, Lateral	3,484.85	161.04
			For Galvanized Fittings, Add	648.68	
23 21 13 23-0997	EA		12" Plain End Piping System, Lateral	4,676.39	192.92
			For Galvanized Fittings, Add	877.43	
23 21 13 23-0998 Plain End Piping System, Crosses (23 21 13 23-0931)					
23 21 13 23-0999	EA		2" Plain End Piping System, Cross	690.45	53.43
			For Galvanized Fittings, Add	76.30	
23 21 13 23-1000	EA		2-1/2" Plain End Piping System, Cross	708.54	65.42
			For Galvanized Fittings, Add	76.30	
23 21 13 23-1001	EA		3" Plain End Piping System, Cross	828.74	80.53
			For Galvanized Fittings, Add	88.50	
23 21 13 23-1002	EA		4" Plain End Piping System, Cross	1,128.64	104.07
			For Galvanized Fittings, Add	121.58	
23 21 13 23-1003	EA		5" Plain End Piping System, Cross	1,585.66	136.17
			For Galvanized Fittings, Add	172.69	
23 21 13 23-1004	EA		6" Plain End Piping System, Cross	2,078.88	169.92
			For Galvanized Fittings, Add	228.02	
23 21 13 23-1005	EA		8" Plain End Piping System, Cross	2,648.72	205.81
			For Galvanized Fittings, Add	292.53	
23 21 13 23-1006	EA		10" Plain End Piping System, Cross	3,775.10	240.56
			For Galvanized Fittings, Add	426.81	
23 21 13 23-1007	EA		12" Plain End Piping System, Cross	5,357.30	289.43
			For Galvanized Fittings, Add	615.43	
23 21 13 23-1008 Plain End Piping System, Adapter Nipples (23 21 13 23-0931)					
Note: Plain to threaded, plain to beveled or plain to grooved.					
23 21 13 23-1009	EA		1" Plain End Piping System, Adapter Nipple	42.35	6.67
			For Galvanized Fittings, Add	8.09	
23 21 13 23-1010	EA		1-1/2" Plain End Piping System, Adapter Nipple	47.13	9.21
			For Galvanized Fittings, Add	8.31	
23 21 13 23-1011	EA		2" Plain End Piping System, Adapter Nipple	51.51	12.22
			For Galvanized Fittings, Add	8.31	
23 21 13 23-1012	EA		2-1/2" Plain End Piping System, Adapter Nipple	61.17	14.77
			For Galvanized Fittings, Add	9.74	
23 21 13 23-1013	EA		3" Plain End Piping System, Adapter Nipple	74.78	17.77
			For Galvanized Fittings, Add	12.03	
23 21 13 23-1014	EA		4" Plain End Piping System, Adapter Nipple	116.02	23.66
			For Galvanized Fittings, Add	20.12	
23 21 13 23-1015	EA		6" Plain End Piping System, Adapter Nipple	262.05	29.66
			For Galvanized Fittings, Add	54.41	
23 21 13 23-1016 Plain End Piping System, Reducing (Swaged) Nipples (23 21 13 23-0931)					
23 21 13 23-1017	EA		1-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple	132.61	15.88
			For Galvanized Fittings, Add	27.18	
23 21 13 23-1018	EA		2" x 1" Plain End Piping System, Reducing (Swaged) Nipple	137.06	18.88
			For Galvanized Fittings, Add	27.18	
23 21 13 23-1019	EA		2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple	141.55	21.88
			For Galvanized Fittings, Add	27.18	
23 21 13 23-1020	EA		2-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple	140.46	21.21
			For Galvanized Fittings, Add	27.18	
23 21 13 23-1021	EA		2-1/2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple	144.83	24.10
			For Galvanized Fittings, Add	27.18	
23 21 13 23-1022	EA		2-1/2" x 2" Plain End Piping System, Reducing (Swaged) Nipple	149.26	26.99
			For Galvanized Fittings, Add	27.18	
23 21 13 23-1023	EA		3" x 1" Plain End Piping System, Reducing (Swaged) Nipple	169.01	24.43
			For Galvanized Fittings, Add	33.11	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1024 EA 3" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	172.95 33.11	26.99
23 21 13 23-1025 EA 3" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	146.85 25.46	29.99
23 21 13 23-1026 EA 3" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	155.45 25.46	35.76
23 21 13 23-1027 EA 3-1/2" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	179.51 30.45	38.54
23 21 13 23-1028 EA 4" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	231.73 46.55	30.32
23 21 13 23-1029 EA 4" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	235.62 46.55	32.98
23 21 13 23-1030 EA 4" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	194.92 35.25	35.98
23 21 13 23-1031 EA 4" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	198.73 35.25	38.54
23 21 13 23-1032 EA 4" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	203.26 35.25	41.54
23 21 13 23-1033 EA 4" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	207.59 35.25	44.42
23 21 13 23-1034 EA 5" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	581.34 129.63	41.87
23 21 13 23-1035 EA 5" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	471.23 100.06	47.31
23 21 13 23-1036 EA 5" x 4" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	409.37 82.34	53.43
23 21 13 23-1037 EA 6" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	1,055.73 247.00	45.21
23 21 13 23-1038 EA 6" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	1,059.56 247.00	47.76
23 21 13 23-1039 EA 6" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	806.82 182.69	50.76
23 21 13 23-1040 EA 6" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	810.77 182.69	53.43
23 21 13 23-1041 EA 6" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	557.98 118.40	56.31
23 21 13 23-1042 EA 6" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	562.02 118.40	58.97
23 21 13 23-1043 EA 6" x 4" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	452.34 89.79	62.20
23 21 13 23-1044 EA 6" x 5" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	513.89 102.95	68.08
23 21 13 23-1045 EA 8" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	666.57 142.79	63.64
23 21 13 23-1046 EA 8" x 4" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	675.53 142.79	69.64
23 21 13 23-1047 EA 8" x 5" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	763.08 162.44	75.63
23 21 13 23-1048 EA 8" x 6" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	855.10 182.08	84.52
23 21 13 23-1049 Plain End Piping System, Bull Plugs (23 21 13 23-0931)		
23 21 13 23-1050 EA 1" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	299.43 86.83	6.67
23 21 13 23-1051 EA 1-1/2" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	303.32 86.83	9.21
23 21 13 23-1052 EA 2" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	307.70 86.83	12.22
23 21 13 23-1053 EA 2-1/2" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	311.64 86.83	14.77
23 21 13 23-1054 EA 3" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	450.92 127.28	17.77
23 21 13 23-1055 EA 4" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	583.55 164.40	23.66
23 21 13 23-1056 EA 5" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	1,012.87 290.54	29.66
23 21 13 23-1057 EA 6" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	1,349.43 387.50	38.54
23 21 13 23-1058 EA 8" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	2,497.27 728.53	45.87
23 21 13 23-1059 EA 10" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	4,488.87 1,322.51	53.65
23 21 13 23-1060 EA 12" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	6,875.91 2,033.79	64.41
23 21 13 23-1061 Carbon Steel Piping Systems (23 21 13 23)		
23 21 13 23-1062 Class 3,000 Lb. Carbon Steel Socket Weld Fittings (23 21 13 23-1061) Note: ASTM A105		
23 21 13 23-1063 90 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1062)		
23 21 13 23-1064 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	37.29	21.99

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1065 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	41.84	24.54
23 21 13 23-1066 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	50.36	27.43
23 21 13 23-1067 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	63.76	31.10
23 21 13 23-1068 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	72.51	34.99
23 21 13 23-1069 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	96.08	44.53
23 21 13 23-1070 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	173.25	65.86
23 21 13 23-1071 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	241.15	86.63
23 21 13 23-1072 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	377.97	94.57
23 21 13 23-1073 45 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1062)		
23 21 13 23-1074 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	39.21	21.99
23 21 13 23-1075 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	44.76	24.54
23 21 13 23-1076 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	51.25	27.43
23 21 13 23-1077 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	64.89	31.10
23 21 13 23-1078 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	75.23	34.99
23 21 13 23-1079 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	96.03	44.53
23 21 13 23-1080 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	189.90	65.86
23 21 13 23-1081 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	255.23	86.63
23 21 13 23-1082 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	371.88	94.57
23 21 13 23-1083 Straight Tees, 3,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1062)		
23 21 13 23-1084 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	46.11	27.43
23 21 13 23-1085 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	54.64	31.65
23 21 13 23-1086 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	68.79	37.43
23 21 13 23-1087 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	87.42	44.53
23 21 13 23-1088 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	105.30	53.09
23 21 13 23-1089 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	136.00	65.86
23 21 13 23-1090 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	219.65	86.63
23 21 13 23-1091 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	289.01	102.84
23 21 13 23-1092 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	495.64	119.39
23 21 13 23-1093 Reducing Tees, 3,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1062)		
23 21 13 23-1094 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	46.64	27.43
23 21 13 23-1095 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	55.19	31.65
23 21 13 23-1096 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	69.45	37.43
23 21 13 23-1097 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	88.97	44.53
23 21 13 23-1098 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	107.12	53.09
23 21 13 23-1099 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	138.79	65.86
23 21 13 23-1100 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	226.27	86.63
23 21 13 23-1101 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	298.54	102.84
23 21 13 23-1102 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	461.72	119.39
23 21 13 23-1103 Straight Couplings, 3,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1062)		
23 21 13 23-1104 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	34.91	21.99
23 21 13 23-1105 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	39.21	24.54
23 21 13 23-1106 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	44.77	27.43
23 21 13 23-1107 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	51.15	31.10
23 21 13 23-1108 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	58.66	34.99
23 21 13 23-1109 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	75.70	44.53
23 21 13 23-1110 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket, Weld, 3,000 Lb.	121.34	65.86
23 21 13 23-1111 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	161.09	86.63
23 21 13 23-1112 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 Lb.	203.96	94.57
23 21 13 23-1113 Reducing Couplings, 3,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1062)		
23 21 13 23-1114 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	35.98	21.99
23 21 13 23-1115 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	40.39	24.54
23 21 13 23-1116 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	46.66	27.43
23 21 13 23-1117 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	53.43	31.10
23 21 13 23-1118 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	62.05	34.99
23 21 13 23-1119 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	79.32	44.53
23 21 13 23-1120 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	129.31	65.86
23 21 13 23-1121 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	177.12	86.63
23 21 13 23-1122 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 Lb.	237.27	94.57
23 21 13 23-1123 Caps, 3,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1062)		
23 21 13 23-1124 EA 1/2" Cap, Carbon Steel, Socket Weld, 3,000 Lb.	18.59	10.33
23 21 13 23-1125 EA 3/4" Cap, Carbon Steel, Socket Weld, 3,000 Lb.	20.60	11.00
23 21 13 23-1126 EA 1" Cap, Carbon Steel, Socket Weld, 3,000 Lb.	23.99	12.66
23 21 13 23-1127 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 3,000 Lb.	27.10	13.78
23 21 13 23-1128 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 3,000 Lb.	29.49	13.78
23 21 13 23-1129 EA 2" Cap, Carbon Steel, Socket Weld, 3,000 Lb.	38.20	17.66
23 21 13 23-1130 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 3,000 Lb.	60.36	21.99
23 21 13 23-1131 EA 3" Cap, Carbon Steel, Socket Weld, 3,000 Lb.	83.06	26.55
23 21 13 23-1132 EA 4" Cap, Carbon Steel, Socket Weld, 3,000 Lb.	116.02	32.36

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1133 Black Cast Iron Square Head Plug (23 21 13 23-1062)				
23 21 13 23-1134	EA	1/2" Square Head Plug, Black, Cast Iron	13.80	8.77
23 21 13 23-1135	EA	3/4" Square Head Plug, Black, Cast Iron	14.83	8.77
23 21 13 23-1136	EA	1" Square Head Plug, Black, Cast Iron	21.80	13.32
23 21 13 23-1137	EA	1-1/4" Square Head Plug, Black, Cast Iron	22.01	13.32
23 21 13 23-1138	EA	1-1/2" Square Head Plug, Black, Cast Iron	22.86	13.32
23 21 13 23-1139	EA	2" Square Head Plug, Black, Cast Iron	30.38	17.66
23 21 13 23-1140	EA	2-1/2" Square Head Plug, Black, Cast Iron	38.47	21.99
23 21 13 23-1141	EA	3" Square Head Plug, Black, Cast Iron	48.74	26.55
23 21 13 23-1142	EA	4" Square Head Plug, Black, Cast Iron	59.07	32.36
23 21 13 23-1143 Unions, 3,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1062)				
23 21 13 23-1144	EA	1/2" Union, Carbon Steel, Socket Weld, 3,000 Lb.	52.34	27.43
23 21 13 23-1145	EA	3/4" Union, Carbon Steel, Socket Weld, 3,000 Lb.	58.95	31.65
23 21 13 23-1146	EA	1" Union, Carbon Steel, Socket Weld, 3,000 Lb.	72.89	37.43
23 21 13 23-1147	EA	1-1/4" Union, Carbon Steel, Socket Weld, 3,000 Lb.	89.89	44.53
23 21 13 23-1148	EA	1-1/2" Union, Carbon Steel, Socket Weld, 3,000 Lb.	107.91	53.09
23 21 13 23-1149	EA	2" Union, Carbon Steel, Socket Weld, 3,000 Lb.	134.48	65.86
23 21 13 23-1150	EA	2-1/2" Union, Carbon Steel, Socket Weld, 3,000 Lb.	198.86	71.52
23 21 13 23-1151	EA	3" Union, Carbon Steel, Socket Weld, 3,000 Lb.	259.67	86.63
23 21 13 23-1152 Class 6,000 Lb. Carbon Steel Socket Weld Fittings (23 21 13 23-1061)				
Note: ASTM A105				
23 21 13 23-1153 90 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1152)				
23 21 13 23-1154	EA	1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	39.61	21.99
23 21 13 23-1155	EA	3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	44.49	24.54
23 21 13 23-1156	EA	1" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	55.26	27.43
23 21 13 23-1157	EA	1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	72.89	31.10
23 21 13 23-1158	EA	1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	83.13	34.99
23 21 13 23-1159	EA	2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	111.69	44.53
23 21 13 23-1160	EA	2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	212.83	65.86
23 21 13 23-1161	EA	3" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	300.23	86.63
23 21 13 23-1162	EA	4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	503.44	94.57
23 21 13 23-1163 45 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1152)				
23 21 13 23-1164	EA	1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	42.78	21.99
23 21 13 23-1165	EA	3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	49.24	24.54
23 21 13 23-1166	EA	1" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	56.98	27.43
23 21 13 23-1167	EA	1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	75.27	31.10
23 21 13 23-1168	EA	1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	88.10	34.99
23 21 13 23-1169	EA	2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	112.63	44.53
23 21 13 23-1170	EA	2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	241.53	65.86
23 21 13 23-1171	EA	3" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	326.20	86.63
23 21 13 23-1172	EA	4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	502.19	94.57
23 21 13 23-1173 Straight Tees, 6,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1152)				
23 21 13 23-1174	EA	1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	50.72	27.43
23 21 13 23-1175	EA	3/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	61.29	31.65
23 21 13 23-1176	EA	1" Tee, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	80.56	37.43
23 21 13 23-1177	EA	1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	106.61	44.53
23 21 13 23-1178	EA	1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	129.09	53.09
23 21 13 23-1179	EA	2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	170.53	65.86
23 21 13 23-1180	EA	2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	302.78	86.63
23 21 13 23-1181	EA	3" Tee, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	413.83	102.84
23 21 13 23-1182	EA	4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	788.88	119.39
23 21 13 23-1183 Reducing Tees, 6,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1152)				
23 21 13 23-1184	EA	1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	46.64	27.43
23 21 13 23-1185	EA	3/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	55.19	31.65
23 21 13 23-1186	EA	1" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	69.45	37.43
23 21 13 23-1187	EA	1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	88.97	44.53
23 21 13 23-1188	EA	1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	107.12	53.09
23 21 13 23-1189	EA	2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	138.79	65.86
23 21 13 23-1190	EA	2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	226.27	86.63
23 21 13 23-1191	EA	3" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	298.54	102.84
23 21 13 23-1192	EA	4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	461.72	119.39
23 21 13 23-1193 Straight Couplings, 6,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1152)				
23 21 13 23-1194	EA	1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	35.88	21.99
23 21 13 23-1195	EA	3/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	40.35	24.54
23 21 13 23-1196	EA	1" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	46.52	27.43



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Piping and Pumps			23 20
Hydronic Piping and Pumps			23 21

23

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1197	EA	1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	53.36		31.10
23 21 13 23-1198	EA	1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	61.64		34.99
23 21 13 23-1199	EA	2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	80.05		44.53
23 21 13 23-1200	EA	2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	132.28		65.86
23 21 13 23-1201	EA	3" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	176.18		86.63
23 21 13 23-1202	EA	4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 Lb.	234.05		94.57
23 21 13 23-1203 Reducing Couplings, 6,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1152)					
23 21 13 23-1204	EA	1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	37.46		21.99
23 21 13 23-1205	EA	3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	42.09		24.54
23 21 13 23-1206	EA	1" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	49.31		27.43
23 21 13 23-1207	EA	1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	56.72		31.10
23 21 13 23-1208	EA	1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	66.63		34.99
23 21 13 23-1209	EA	2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	85.38		44.53
23 21 13 23-1210	EA	2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	143.99		65.86
23 21 13 23-1211	EA	3" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	199.78		86.63
23 21 13 23-1212	EA	4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 Lb.	283.13		94.57
23 21 13 23-1213 Caps, 6,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1152)					
23 21 13 23-1214	EA	1/2" Cap, Carbon Steel, Socket Weld, 6,000 Lb.	20.71		10.33
23 21 13 23-1215	EA	3/4" Cap, Carbon Steel, Socket Weld, 6,000 Lb.	23.38		11.00
23 21 13 23-1216	EA	1" Cap, Carbon Steel, Socket Weld, 6,000 Lb.	27.35		12.66
23 21 13 23-1217	EA	1-1/4" Cap, Carbon Steel, Socket Weld, 6,000 Lb.	31.48		13.78
23 21 13 23-1218	EA	1-1/2" Cap, Carbon Steel, Socket Weld, 6,000 Lb.	35.49		13.78
23 21 13 23-1219	EA	2" Cap, Carbon Steel, Socket Weld, 6,000 Lb.	46.02		17.66
23 21 13 23-1220	EA	2-1/2" Cap, Carbon Steel, Socket Weld, 6,000 Lb.	78.79		21.99
23 21 13 23-1221	EA	3" Cap, Carbon Steel, Socket Weld, 6,000 Lb.	112.08		26.55
23 21 13 23-1222	EA	4" Cap, Carbon Steel, Socket Weld, 6,000 Lb.	161.28		32.36
23 21 13 23-1223 Black Cast Iron Square Head Plug (23 21 13 23-1152)					
23 21 13 23-1224	EA	1/2" Square Head Plug, Black Cast Iron	13.81		8.77
23 21 13 23-1225	EA	3/4" Square Head Plug, Black Cast Iron	14.84		8.77
23 21 13 23-1226	EA	1" Square Head Plug, Black Cast Iron	21.81		13.32
23 21 13 23-1227	EA	1-1/4" Square Head Plug, Black Cast Iron	22.02		13.32
23 21 13 23-1228	EA	1-1/2" Square Head Plug, Black Cast Iron	22.87		13.32
23 21 13 23-1229	EA	2" Square Head Plug, Black Cast Iron	30.39		17.66
23 21 13 23-1230	EA	2-1/2" Square Head Plug, Black Cast Iron	38.50		21.99
23 21 13 23-1231	EA	3" Square Head Plug, Black Cast Iron	48.78		26.55
23 21 13 23-1232	EA	4" Square Head Plug, Black Cast Iron	59.12		32.36
23 21 13 23-1233 Unions, 6,000 Lb. Carbon Steel Socket Weld (23 21 13 23-1152)					
23 21 13 23-1234	EA	1/2" Union, Carbon Steel, Socket Weld, 6,000 Lb.	59.19		27.43
23 21 13 23-1235	EA	3/4" Union, Carbon Steel, Socket Weld, 6,000 Lb.	65.98		31.65
23 21 13 23-1236	EA	1" Union, Carbon Steel, Socket Weld, 6,000 Lb.	83.16		37.43
23 21 13 23-1237	EA	1-1/4" Union, Carbon Steel, Socket Weld, 6,000 Lb.	104.07		44.53
23 21 13 23-1238	EA	1-1/2" Union, Carbon Steel, Socket Weld, 6,000 Lb.	125.21		53.09
23 21 13 23-1239	EA	2" Union, Carbon Steel, Socket Weld, 6,000 Lb.	156.34		65.86
23 21 13 23-1240	EA	2-1/2" Union, Carbon Steel, Socket Weld, 6,000 Lb.	254.84		71.52
23 21 13 23-1241	EA	3" Union, Carbon Steel, Socket Weld, 6,000 Lb.	339.03		86.63
23 21 13 23-1242 Carbon Steel, Seamless Piping System (23 21 13 23-1061)					
Note: ASTM A106 Excludes hangers or fittings. Demolition Note applies to all pipe demolition.					
23 21 13 23-1243 Schedule 40, Carbon Steel, Seamless Piping (23 21 13 23-1242)					
Note: ASTM A106 Excludes hangers, elbow, tee, or reducer fittings.					
23 21 13 23-1244	LF	1/4" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	15.11		4.11
		For Schedule 80, Add	3.22		
23 21 13 23-1245	LF	1/2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	14.91		4.44
		For Schedule 80, Add	2.94		
		For Schedule 160, Add	12.27		
23 21 13 23-1246	LF	3/4" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	17.18		4.77
		For Schedule 80, Add	3.60		
		For Schedule 160, Add	15.02		
23 21 13 23-1247	LF	1" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	18.08		5.22
		For Schedule 80, Add	3.72		
		For Schedule 160, Add	15.48		
23 21 13 23-1248	LF	1-1/2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	26.40		6.45
		For Schedule 80, Add	6.03		
		For Schedule 160, Add	25.11		
23 21 13 23-1249	LF	2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	31.72		7.77
		For Schedule 80, Add	7.21		
		For Schedule 160, Add	30.05		
23 21 13 23-1250 90 Degree Elbows, Screwed Carbon Steel (23 21 13 23-1242)					
23 21 13 23-1251	EA	1/4" 90 Degree Elbow, 2,000 Lb., Screwed Carbon Steel.....	28.03		16.88

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1252 EA 1/2" 90 Degree Elbow, 2,000 Lb., Screwed Carbon Steel	33.41	19.77
23 21 13 23-1253 EA 3/4" 90 Degree Elbow, 2,000 Lb., Screwed Carbon Steel	37.35	22.11
23 21 13 23-1254 EA 1" 90 Degree Elbow, 2,000 Lb., Screwed Carbon Steel	42.32	24.65
23 21 13 23-1255 EA 1-1/2" 90 Degree Elbow, 2,000 Lb., Screwed Carbon Steel	60.93	31.54
23 21 13 23-1256 EA 2" 90 Degree Elbow, 2,000 Lb., Screwed Carbon Steel	77.29	40.09
23 21 13 23-1257 EA 1/4" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	28.91	16.88
23 21 13 23-1258 EA 1/2" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	33.74	19.77
23 21 13 23-1259 EA 3/4" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	38.44	22.11
23 21 13 23-1260 EA 1" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	44.68	24.65
23 21 13 23-1261 EA 1-1/2" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	66.58	31.54
23 21 13 23-1262 EA 2" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	83.53	40.09
23 21 13 23-1263 EA 1/2" 90 Degree Elbow, 6,000 Lb., Screwed Carbon Steel	36.81	19.77
23 21 13 23-1264 EA 3/4" 90 Degree Elbow, 6,000 Lb., Screwed Carbon Steel	42.31	22.11
23 21 13 23-1265 EA 1" 90 Degree Elbow, 6,000 Lb., Screwed Carbon Steel	48.75	24.65
23 21 13 23-1266 EA 1-1/2" 90 Degree Elbow, 6,000 Lb., Screwed Carbon Steel	78.00	31.54
23 21 13 23-1267 EA 2" 90 Degree Elbow, 6,000 Lb., Screwed Carbon Steel	113.82	40.09
23 21 13 23-1268 45 Degree Elbows, Screwed Carbon Steel (23 21 13 23-1242)		
23 21 13 23-1269 EA 1/4" 45 Degree Elbow, 2,000 Lb., Screwed Carbon Steel	30.03	16.88
23 21 13 23-1270 EA 1/2" 45 Degree Elbow, 2,000 Lb., Screwed Carbon Steel	34.11	19.77
23 21 13 23-1271 EA 3/4" 45 Degree Elbow, 2,000 Lb., Screwed Carbon Steel	38.27	22.11
23 21 13 23-1272 EA 1" 45 Degree Elbow, 2,000 Lb., Screwed Carbon Steel	43.01	24.65
23 21 13 23-1273 EA 1-1/2" 45 Degree Elbow, 2,000 Lb., Screwed Carbon Steel	58.68	31.54
23 21 13 23-1274 EA 2" 45 Degree Elbow, 2,000 Lb., Screwed Carbon Steel	80.77	40.09
23 21 13 23-1275 EA 1/4" 45 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	30.18	16.88
23 21 13 23-1276 EA 1/2" 45 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	34.92	19.77
23 21 13 23-1277 EA 3/4" 45 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	39.20	22.11
23 21 13 23-1278 EA 1" 45 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	45.43	24.65
23 21 13 23-1279 EA 1-1/2" 45 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	65.71	31.54
23 21 13 23-1280 EA 2" 45 Degree Elbow, 3,000 Lb., Screwed Carbon Steel	85.47	40.09
23 21 13 23-1281 EA 1/2" 45 Degree Elbow, 6,000 Lb., Screwed Carbon Steel	38.93	19.77
23 21 13 23-1282 EA 3/4" 45 Degree Elbow, 6,000 Lb., Screwed Carbon Steel	46.14	22.11
23 21 13 23-1283 EA 1" 45 Degree Elbow, 6,000 Lb., Screwed Carbon Steel	50.18	24.65
23 21 13 23-1284 EA 1-1/2" 45 Degree Elbow, 6,000 Lb., Screwed Carbon Steel	86.15	31.54
23 21 13 23-1285 EA 2" 45 Degree Elbow, 6,000 Lb., Screwed Carbon Steel	114.36	40.09
23 21 13 23-1286 Straight Tees, Screwed Carbon Steel (23 21 13 23-1242)		
23 21 13 23-1287 EA 1/4" Tee, Straight, 2,000 Lb., Screwed Carbon Steel	37.20	23.43
23 21 13 23-1288 EA 1/2" Tee, Straight, 2,000 Lb., Screwed Carbon Steel	41.93	24.65
23 21 13 23-1289 EA 3/4" Tee, Straight, 2,000 Lb., Screwed Carbon Steel	49.41	28.54
23 21 13 23-1290 EA 1" Tee, Straight, 2,000 Lb., Screwed Carbon Steel	59.63	33.66
23 21 13 23-1291 EA 1-1/2" Tee, Straight, 2,000 Lb., Screwed Carbon Steel	90.89	47.76
23 21 13 23-1292 EA 2" Tee, Straight, 2,000 Lb., Screwed Carbon Steel	112.70	59.31
23 21 13 23-1293 EA 1/4" Tee, Straight, 3,000 Lb., Screwed Carbon Steel	37.96	23.43
23 21 13 23-1294 EA 1/2" Tee, Straight, 3,000 Lb., Screwed Carbon Steel	42.41	24.65
23 21 13 23-1295 EA 3/4" Tee, Straight, 3,000 Lb., Screwed Carbon Steel	51.04	28.54
23 21 13 23-1296 EA 1" Tee, Straight, 3,000 Lb., Screwed Carbon Steel	61.03	33.66
23 21 13 23-1297 EA 1-1/2" Tee, Straight, 3,000 Lb., Screwed Carbon Steel	95.73	47.76
23 21 13 23-1298 EA 2" Tee, Straight, 3,000 Lb., Screwed Carbon Steel	120.71	59.31
23 21 13 23-1299 EA 1/2" Tee, Straight, 6,000 Lb., Screwed Carbon Steel	46.10	24.65
23 21 13 23-1300 EA 3/4" Tee, Straight, 6,000 Lb., Screwed Carbon Steel	55.01	28.54
23 21 13 23-1301 EA 1" Tee, Straight, 6,000 Lb., Screwed Carbon Steel	70.82	33.66
23 21 13 23-1302 EA 1-1/2" Tee, Straight, 6,000 Lb., Screwed Carbon Steel	106.86	47.76
23 21 13 23-1303 EA 2" Tee, Straight, 6,000 Lb., Screwed Carbon Steel	156.19	59.31
23 21 13 23-1304 Crosses, Screwed Carbon Steel (23 21 13 23-1242)		
23 21 13 23-1305 EA 1/4" Cross, 2,000 Lb., Screwed Carbon Steel	52.97	29.66
23 21 13 23-1306 EA 1/2" Cross, 2,000 Lb., Screwed Carbon Steel	61.38	33.32
23 21 13 23-1307 EA 3/4" Cross, 2,000 Lb., Screwed Carbon Steel	65.70	35.54
23 21 13 23-1308 EA 1" Cross, 2,000 Lb., Screwed Carbon Steel	80.51	42.87
23 21 13 23-1309 EA 1-1/2" Cross, 2,000 Lb., Screwed Carbon Steel	128.95	59.97
23 21 13 23-1310 EA 2" Cross, 2,000 Lb., Screwed Carbon Steel	163.89	74.08
23 21 13 23-1311 EA 1/2" Cross, 3,000 Lb., Screwed Carbon Steel	62.30	33.32
23 21 13 23-1312 EA 3/4" Cross, 3,000 Lb., Screwed Carbon Steel	71.00	35.54
23 21 13 23-1313 EA 1" Cross, 3,000 Lb., Screwed Carbon Steel	85.15	42.87
23 21 13 23-1314 EA 1-1/2" Cross, 3,000 Lb., Screwed Carbon Steel	135.63	59.97
23 21 13 23-1315 EA 2" Cross, 3,000 Lb., Screwed Carbon Steel	176.10	74.08
23 21 13 23-1316 EA 1/2" Cross, 6,000 Lb., Screwed Carbon Steel	79.56	33.32
23 21 13 23-1317 EA 3/4" Cross, 6,000 Lb., Screwed Carbon Steel	118.10	35.54
23 21 13 23-1318 EA 1" Cross, 6,000 Lb., Screwed Carbon Steel	157.73	42.87
23 21 13 23-1319 EA 1-1/2" Cross, 6,000 Lb., Screwed Carbon Steel	243.56	59.97
23 21 13 23-1320 EA 2" Cross, 6,000 Lb., Screwed Carbon Steel	273.15	74.08
23 21 13 23-1321 Straight Couplings, Screwed Carbon Steel (23 21 13 23-1242)		
23 21 13 23-1322 EA 1/4" Coupling, Straight, 3,000 Lb., Screwed Carbon Steel	27.07	16.88
23 21 13 23-1323 EA 1/2" Coupling, Straight, 3,000 Lb., Screwed Carbon Steel	31.15	19.77



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1324 EA 3/4" Coupling, Straight, 3,000 Lb., Screwed Carbon Steel	35.26	22.11
23 21 13 23-1325 EA 1" Coupling, Straight, 3,000 Lb., Screwed Carbon Steel	40.19	24.65
23 21 13 23-1326 EA 1-1/2" Coupling, Straight, 3,000 Lb., Screwed Carbon Steel	55.24	31.54
23 21 13 23-1327 EA 2" Coupling, Straight, 3,000 Lb., Screwed Carbon Steel	70.13	40.09
23 21 13 23-1328 EA 1/4" Coupling, Straight, 6,000 Lb., Screwed Carbon Steel	29.28	16.88
23 21 13 23-1329 EA 1/2" Coupling, Straight, 6,000 Lb., Screwed Carbon Steel	32.55	19.77
23 21 13 23-1330 EA 3/4" Coupling, Straight, 6,000 Lb., Screwed Carbon Steel	36.33	22.11
23 21 13 23-1331 EA 1" Coupling, Straight, 6,000 Lb., Screwed Carbon Steel	41.62	24.65
23 21 13 23-1332 EA 1-1/2" Coupling, Straight, 6,000 Lb., Screwed Carbon Steel	57.43	31.54
23 21 13 23-1333 EA 2" Coupling, Straight, 6,000 Lb., Screwed Carbon Steel	78.13	40.09
23 21 13 23-1334 Reducing Couplings, Screwed Carbon Steel (23 21 13 23-1242)		
23 21 13 23-1335 EA 1/4" Coupling, Reducing, 3,000 Lb., Screwed Carbon Steel	27.38	18.00
23 21 13 23-1336 EA 1/2" Coupling, Reducing, 3,000 Lb., Screwed Carbon Steel	31.88	19.77
23 21 13 23-1337 EA 3/4" Coupling, Reducing, 3,000 Lb., Screwed Carbon Steel	36.37	22.11
23 21 13 23-1338 EA 1" Coupling, Reducing, 3,000 Lb., Screwed Carbon Steel	41.73	24.65
23 21 13 23-1339 EA 1-1/2" Coupling, Reducing, 3,000 Lb., Screwed Carbon Steel	55.64	31.54
23 21 13 23-1340 EA 2" Coupling, Reducing, 3,000 Lb., Screwed Carbon Steel	72.29	40.09
23 21 13 23-1341 EA 1/2" Coupling, Reducing, 6,000 Lb., Screwed Carbon Steel	60.20	19.77
23 21 13 23-1342 EA 3/4" Coupling, Reducing, 6,000 Lb., Screwed Carbon Steel	63.73	22.11
23 21 13 23-1343 EA 1" Coupling, Reducing, 6,000 Lb., Screwed Carbon Steel	73.62	24.65
23 21 13 23-1344 EA 1-1/2" Coupling, Reducing, 6,000 Lb., Screwed Carbon Steel	102.82	31.54
23 21 13 23-1345 EA 2" Coupling, Reducing, 6,000 Lb., Screwed Carbon Steel	143.70	40.09
23 21 13 23-1346 Caps, Screwed Carbon Steel (23 21 13 23-1242)		
23 21 13 23-1347 EA 1/4" Cap, 3,000 Lb., Screwed Carbon Steel	12.66	7.55
23 21 13 23-1348 EA 1/2" Cap, 3,000 Lb., Screwed Carbon Steel	14.73	8.77
23 21 13 23-1349 EA 3/4" Cap, 3,000 Lb., Screwed Carbon Steel	16.89	9.89
23 21 13 23-1350 EA 1" Cap, 3,000 Lb., Screwed Carbon Steel	19.69	11.00
23 21 13 23-1351 EA 1-1/2" Cap, 3,000 Lb., Screwed Carbon Steel	26.11	14.00
23 21 13 23-1352 EA 2" Cap, 3,000 Lb., Screwed Carbon Steel	34.54	17.89
23 21 13 23-1353 EA 1/4" Cap, 6,000 Lb., Screwed Carbon Steel	15.32	7.55
23 21 13 23-1354 EA 1/2" Cap, 6,000 Lb., Screwed Carbon Steel	16.43	8.77
23 21 13 23-1355 EA 3/4" Cap, 6,000 Lb., Screwed Carbon Steel	19.66	9.89
23 21 13 23-1356 EA 1" Cap, 6,000 Lb., Screwed Carbon Steel	21.71	11.00
23 21 13 23-1357 EA 1-1/2" Cap, 6,000 Lb., Screwed Carbon Steel	34.36	14.00
23 21 13 23-1358 EA 2" Cap, 6,000 Lb., Screwed Carbon Steel	42.57	17.89
23 21 13 23-1359 Nipples, Screwed Carbon Steel (23 21 13 23-1242)		
23 21 13 23-1360 EA 1/4" Nipple, 2" Long, Screwed Carbon Steel	16.50	10.11
23 21 13 23-1361 EA 1/2" Nipple, 2" Long, Screwed Carbon Steel	16.87	10.55
23 21 13 23-1362 EA 3/4" Nipple, 2" Long, Screwed Carbon Steel	16.80	10.55
23 21 13 23-1363 EA 1" Nipple, 2" Long, Screwed Carbon Steel	18.43	11.44
23 21 13 23-1364 EA 1-1/2" Nipple, 2" Long, Screwed Carbon Steel	20.54	12.33
23 21 13 23-1365 EA 2" Nipple, 2" Long, Screwed Carbon Steel	25.42	15.88
23 21 13 23-1366 EA 1/4" Nipple, 4" Long, Screwed Carbon Steel	17.01	10.11
23 21 13 23-1367 EA 1/2" Nipple, 4" Long, Screwed Carbon Steel	17.27	10.55
23 21 13 23-1368 EA 3/4" Nipple, 4" Long, Screwed Carbon Steel	17.26	10.55
23 21 13 23-1369 EA 1" Nipple, 4" Long, Screwed Carbon Steel	19.05	11.44
23 21 13 23-1370 EA 1-1/2" Nipple, 4" Long, Screwed Carbon Steel	21.63	12.33
23 21 13 23-1371 EA 2" Nipple, 4" Long, Screwed Carbon Steel	27.02	15.88
23 21 13 23-1372 EA 1/4" Nipple, 6" Long, Screwed Carbon Steel	18.22	10.11
23 21 13 23-1373 EA 1/2" Nipple, 6" Long, Screwed Carbon Steel	17.91	10.55
23 21 13 23-1374 EA 3/4" Nipple, 6" Long, Screwed Carbon Steel	17.97	10.55
23 21 13 23-1375 EA 1" Nipple, 6" Long, Screwed Carbon Steel	19.93	11.44
23 21 13 23-1376 EA 1-1/2" Nipple, 6" Long, Screwed Carbon Steel	23.13	12.33
23 21 13 23-1377 EA 2" Nipple, 6" Long, Screwed Carbon Steel	28.34	15.88
23 21 13 23-1378 Unions, Screwed Carbon Steel (23 21 13 23-1242)		
23 21 13 23-1379 EA 1/4" Union, 3,000 Lb., Screwed Carbon Steel	35.11	24.54
23 21 13 23-1380 EA 1/2" Union, 3,000 Lb., Screwed Carbon Steel	37.89	24.65
23 21 13 23-1381 EA 3/4" Union, 3,000 Lb., Screwed Carbon Steel	43.61	28.54
23 21 13 23-1382 EA 1" Union, 3,000 Lb., Screwed Carbon Steel	51.78	33.66
23 21 13 23-1383 EA 1-1/2" Union, 3,000 Lb., Screwed Carbon Steel	73.84	47.76
23 21 13 23-1384 EA 2" Union, 3,000 Lb., Screwed Carbon Steel	91.62	59.31
23 21 13 23-1385 EA 1/4" Union, 6,000 Lb., Screwed Carbon Steel	46.86	24.54
23 21 13 23-1386 EA 1/2" Union, 6,000 Lb., Screwed Carbon Steel	52.09	24.65
23 21 13 23-1387 EA 3/4" Union, 6,000 Lb., Screwed Carbon Steel	60.81	28.54
23 21 13 23-1388 EA 1" Union, 6,000 Lb., Screwed Carbon Steel	72.98	33.66
23 21 13 23-1389 EA 1-1/2" Union, 6,000 Lb., Screwed Carbon Steel	117.18	47.76
23 21 13 23-1390 EA 2" Union, 6,000 Lb., Screwed Carbon Steel	144.96	59.31
23 21 13 23-1391 Weld Neck Flanges, Screwed Carbon Steel (23 21 13 23-1242)		
23 21 13 23-1392 EA 1/2" Flange, 150 Lb., Screwed Carbon Steel	75.07	45.87
23 21 13 23-1393 EA 3/4" Flange, 150 Lb., Screwed Carbon Steel	78.61	48.09

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1394	EA	1" Flange, 150 Lb., Screwed Carbon Steel.....	81.74	50.20
23 21 13 23-1395	EA	1-1/2" Flange, 150 Lb., Screwed Carbon Steel.....	91.46	56.53
23 21 13 23-1396	EA	2" Flange, 150 Lb., Screwed Carbon Steel.....	95.15	58.97
23 21 13 23-1397	EA	1/2" Flange, 300 Lb., Screwed Carbon Steel.....	75.47	45.87
		<i>For Ring Type Joint, Add</i>	6.64	
		<i>For Blind Flange, Deduct</i>	-28.86	
23 21 13 23-1398	EA	3/4" Flange, 300 Lb., Screwed Carbon Steel.....	79.03	48.09
		<i>For Ring Type Joint, Add</i>	6.87	
		<i>For Blind Flange, Deduct</i>	-30.24	
23 21 13 23-1399	EA	1" Flange, 300 Lb., Screwed Carbon Steel.....	82.37	50.20
		<i>For Ring Type Joint, Add</i>	7.08	
		<i>For Blind Flange, Deduct</i>	-31.53	
23 21 13 23-1400	EA	1-1/2" Flange, 300 Lb., Screwed Carbon Steel.....	92.99	56.53
		<i>For Ring Type Joint, Add</i>	8.20	
		<i>For Blind Flange, Deduct</i>	-35.56	
23 21 13 23-1401	EA	2" Flange, 300 Lb., Screwed Carbon Steel.....	96.68	58.97
		<i>For Ring Type Joint, Add</i>	8.20	
		<i>For Blind Flange, Deduct</i>	-37.03	
23 21 13 23-1402	EA	1/2" Flange, 600 Lb., Screwed Carbon Steel.....	78.09	45.87
		<i>For Ring Type Joint, Add</i>	9.26	
		<i>For Blind Flange, Deduct</i>	-29.38	
23 21 13 23-1403	EA	3/4" Flange, 600 Lb., Screwed Carbon Steel.....	81.42	48.09
		<i>For Ring Type Joint, Add</i>	9.26	
		<i>For Blind Flange, Deduct</i>	-30.72	
23 21 13 23-1404	EA	1" Flange, 600 Lb., Screwed Carbon Steel.....	84.97	50.20
		<i>For Ring Type Joint, Add</i>	9.68	
		<i>For Blind Flange, Deduct</i>	-32.05	
23 21 13 23-1405	EA	1-1/2" Flange, 600 Lb., Screwed Carbon Steel.....	96.20	56.53
		<i>For Ring Type Joint, Add</i>	11.41	
		<i>For Blind Flange, Deduct</i>	-36.20	
23 21 13 23-1406	EA	2" Flange, 600 Lb., Screwed Carbon Steel.....	99.10	58.97
		<i>For Ring Type Joint, Add</i>	10.62	
		<i>For Blind Flange, Deduct</i>	-37.52	
23 21 13 23-1407 Square Head Plugs, Screwed Carbon Steel (23 21 13 23-1242)				
23 21 13 23-1408	EA	1/4" Square Head Plug, Screwed Carbon Steel.....	5.23	3.11
23 21 13 23-1409	EA	1/2" Square Head Plug, Screwed Carbon Steel.....	6.26	3.67
23 21 13 23-1410	EA	3/4" Square Head Plug, Screwed Carbon Steel.....	7.20	4.22
23 21 13 23-1411	EA	1" Square Head Plug, Screwed Carbon Steel.....	10.52	6.22
23 21 13 23-1412	EA	1-1/2" Square Head Plug, Screwed Carbon Steel.....	12.06	6.22
23 21 13 23-1413	EA	2" Square Head Plug, Screwed Carbon Steel.....	16.74	8.11
23 21 13 23-1414 Hex Head Plugs, Screwed Carbon Steel (23 21 13 23-1242)				
23 21 13 23-1415	EA	1/4" Hex Head Plug, Screwed Carbon Steel.....	5.07	3.11
23 21 13 23-1416	EA	1/2" Hex Head Plug, Screwed Carbon Steel.....	6.12	3.67
23 21 13 23-1417	EA	3/4" Hex Head Plug, Screwed Carbon Steel.....	7.11	4.22
23 21 13 23-1418	EA	1" Hex Head Plug, Screwed Carbon Steel.....	10.44	6.22
23 21 13 23-1419	EA	1-1/2" Hex Head Plug, Screwed Carbon Steel.....	11.72	6.22
23 21 13 23-1420	EA	2" Hex Head Plug, Screwed Carbon Steel.....	16.98	8.11
23 21 13 23-1421 Round Head Plugs, Screwed Carbon Steel (23 21 13 23-1242)				
23 21 13 23-1422	EA	1/4" Round Head Plug, Screwed Carbon Steel.....	5.57	3.11
23 21 13 23-1423	EA	1/2" Round Head Plug, Screwed Carbon Steel.....	6.28	3.67
23 21 13 23-1424	EA	3/4" Round Head Plug, Screwed Carbon Steel.....	7.13	4.22
23 21 13 23-1425	EA	1" Round Head Plug, Screwed Carbon Steel.....	10.57	6.22
23 21 13 23-1426	EA	1-1/2" Round Head Plug, Screwed Carbon Steel.....	12.49	6.22
23 21 13 23-1427	EA	2" Round Head Plug, Screwed Carbon Steel.....	16.89	8.11
23 21 13 23-1428 Hexagon Bushings, Screwed Carbon Steel (23 21 13 23-1242)				
23 21 13 23-1429	EA	1/4" Hex Bushing, Screwed Carbon Steel.....	5.19	3.11
23 21 13 23-1430	EA	1/2" Hex Bushing, Screwed Carbon Steel.....	6.11	3.67
23 21 13 23-1431	EA	3/4" Hex Bushing, Screwed Carbon Steel.....	7.07	4.22
23 21 13 23-1432	EA	1" Hex Bushing, Screwed Carbon Steel.....	10.54	6.22
23 21 13 23-1433	EA	1-1/2" Hex Bushing, Screwed Carbon Steel.....	11.69	6.22
23 21 13 23-1434	EA	2" Hex Bushing, Screwed Carbon Steel.....	16.62	8.11
23 21 13 23-1435 90 Degree Street Elbows, Screwed Carbon Steel (23 21 13 23-1242)				
23 21 13 23-1436	EA	1/4" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel.....	30.84	16.88
23 21 13 23-1437	EA	1/2" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel.....	35.61	19.77
23 21 13 23-1438	EA	3/4" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel.....	40.85	22.11
23 21 13 23-1439	EA	1" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel.....	46.87	24.65
23 21 13 23-1440	EA	1-1/2" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel.....	68.35	31.54
23 21 13 23-1441	EA	2" 90 Degree Elbow, 3,000 Lb., Screwed Carbon Steel.....	90.15	40.09
23 21 13 23-1442	EA	1/2" 90 Degree Elbow, 6,000 Lb., Screwed Carbon Steel.....	43.64	19.77
23 21 13 23-1443	EA	3/4" 90 Degree Elbow, 6,000 Lb., Screwed Carbon Steel.....	57.18	22.11
23 21 13 23-1444	EA	1" 90 Degree Elbow, 6,000 Lb., Screwed Carbon Steel.....	74.19	24.65
23 21 13 23-1445	EA	1-1/2" 90 Degree Elbow, 6,000 Lb., Screwed Carbon Steel.....	143.49	31.54

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1446 Screwed Carbon Steel Laterals (23 21 13 23-1242)		
23 21 13 23-1447 EA 1/2" Lateral, Straight, 3,000 Lb., Screwed Carbon Steel.....	92.32	24.65
23 21 13 23-1448 EA 3/4" Lateral, Straight, 3,000 Lb., Screwed Carbon Steel.....	110.04	28.54
23 21 13 23-1449 EA 1" Lateral, Straight, 3,000 Lb., Screwed Carbon Steel.....	133.67	33.66
23 21 13 23-1450 EA 1-1/2" Lateral, Straight, 3,000 Lb., Screwed Carbon Steel.....	175.52	47.76
23 21 13 23-1451 EA 2" Lateral, Straight, 3,000 Lb., Screwed Carbon Steel.....	218.69	59.31
23 21 13 23-1452 EA 1/2" Lateral, Straight, 3,000 Lb., Screwed Carbon Steel.....	111.07	24.65
23 21 13 23-1453 EA 3/4" Lateral, Straight, 6,000 Lb., Screwed Carbon Steel.....	137.93	28.54
23 21 13 23-1454 EA 1" Lateral, Straight, 6,000 Lb., Screwed Carbon Steel.....	163.49	33.66
23 21 13 23-1455 EA 1-1/2" Lateral, Straight, 6,000 Lb., Screwed Carbon Steel.....	230.34	47.76
23 21 13 23-1456 Grooved-Joint Pipe (23 21 13 23)		
Note: Includes grooving of pipe. Excludes hangers, elbow, tee, reducer fitting or couplings.		
23 21 13 23-1457 Schedule 10 Black Grooved Pipe (23 21 13 23-1456)		
23 21 13 23-1458 LF 2" Black Schedule 10 Grooved Pipe.....	29.40	14.11
For Work In Restricted Working Space, Add	6.33	
23 21 13 23-1459 LF 2-1/2" Black Schedule 10 Grooved Pipe.....	39.76	19.33
For Work In Restricted Working Space, Add	8.70	
23 21 13 23-1460 LF 3" Black Schedule 10 Grooved Pipe.....	44.58	21.43
For Work In Restricted Working Space, Add	9.65	
23 21 13 23-1461 LF 3-1/2" Black Schedule 10 Grooved Pipe.....	49.27	22.22
For Work In Restricted Working Space, Add	10.01	
23 21 13 23-1462 LF 4" Black Schedule 10 Grooved Pipe.....	52.43	24.10
For Work In Restricted Working Space, Add	10.83	
23 21 13 23-1463 LF 5" Black Schedule 10 Grooved Pipe.....	72.91	29.55
For Work In Restricted Working Space, Add	13.26	
23 21 13 23-1464 LF 6" Black Schedule 10 Grooved Pipe.....	94.98	41.99
For Work In Restricted Working Space, Add	18.86	
23 21 13 23-1465 LF 8" Black Schedule 10 Grooved Pipe.....	127.23	47.09
For Work In Restricted Working Space, Add	21.17	
23 21 13 23-1466 LF 10" Black Schedule 10 Grooved Pipe.....	158.94	56.76
For Work In Restricted Working Space, Add	25.52	
23 21 13 23-1467 LF 12" Black Schedule 10 Grooved Pipe.....	183.07	64.30
For Work In Restricted Working Space, Add	28.92	
23 21 13 23-1468 Schedule 40 Black Grooved Pipe (23 21 13 23-1456)		
23 21 13 23-1469 LF 3/4" Black Schedule 40 Grooved Pipe.....	17.65	8.55
For Work In Restricted Working Space, Add	3.83	
23 21 13 23-1470 LF 1" Black Schedule 40 Grooved Pipe.....	19.93	9.66
For Work In Restricted Working Space, Add	4.32	
23 21 13 23-1471 LF 1-1/4" Black Schedule 40 Grooved Pipe.....	22.54	10.44
For Work In Restricted Working Space, Add	4.69	
23 21 13 23-1472 LF 1-1/2" Black Schedule 40 Grooved Pipe.....	25.65	11.88
For Work In Restricted Working Space, Add	5.34	
23 21 13 23-1473 LF 2" Black Schedule 40 Grooved Pipe.....	32.38	15.11
For Work In Restricted Working Space, Add	6.81	
23 21 13 23-1474 LF 2-1/2" Black Schedule 40 Grooved Pipe.....	44.99	20.66
For Work In Restricted Working Space, Add	9.31	
23 21 13 23-1475 LF 3" Black Schedule 40 Grooved Pipe.....	52.89	23.55
For Work In Restricted Working Space, Add	10.61	
23 21 13 23-1476 LF 4" Black Schedule 40 Grooved Pipe.....	64.21	26.21
For Work In Restricted Working Space, Add	11.79	
23 21 13 23-1477 LF 5" Black Schedule 40 Grooved Pipe.....	87.36	31.87
For Work In Restricted Working Space, Add	14.34	
23 21 13 23-1478 LF 6" Black Schedule 40 Grooved Pipe.....	118.27	45.98
For Work In Restricted Working Space, Add	20.66	
23 21 13 23-1479 LF 8" Black Schedule 40 Grooved Pipe.....	154.82	52.09
For Work In Restricted Working Space, Add	23.45	
23 21 13 23-1480 LF 10" Black Schedule 40 Grooved Pipe.....	211.01	62.20
For Work In Restricted Working Space, Add	27.99	
23 21 13 23-1481 LF 12" Black Schedule 40 Grooved Pipe.....	248.10	71.41
For Work In Restricted Working Space, Add	32.14	
23 21 13 23-1482 LF 14" Black Schedule 40 Grooved Pipe.....	328.03	96.52
For Work In Restricted Working Space, Add	43.39	
23 21 13 23-1483 LF 16" Black Schedule 40 Grooved Pipe.....	380.92	113.51
For Work In Restricted Working Space, Add	51.04	
23 21 13 23-1484 LF 18" Black Schedule 40 Grooved Pipe.....	472.12	137.83
For Work In Restricted Working Space, Add	61.98	
23 21 13 23-1485 LF 20" Black Schedule 40 Grooved Pipe.....	544.88	160.71
For Work In Restricted Working Space, Add	72.31	
23 21 13 23-1486 LF 24" Black Schedule 40 Grooved Pipe.....	708.06	192.92
For Work In Restricted Working Space, Add	86.77	
23 21 13 23-1487 Schedule 80 Black Grooved Pipe (23 21 13 23-1456)		
23 21 13 23-1488 LF 3/4" Black Schedule 80 Grooved Pipe.....	19.33	9.33
For Work In Restricted Working Space, Add	4.19	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1489	LF	1" Black Schedule 80 Grooved Pipe.....	21.36	9.89
		<i>For Work In Restricted Working Space, Add</i>	4.46	
23 21 13 23-1490	LF	1-1/4" Black Schedule 80 Grooved Pipe.....	24.92	11.00
		<i>For Work In Restricted Working Space, Add</i>	4.95	
23 21 13 23-1491	LF	1-1/2" Black Schedule 80 Grooved Pipe.....	28.33	12.33
		<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-1492	LF	2" Black Schedule 80 Grooved Pipe.....	36.63	15.88
		<i>For Work In Restricted Working Space, Add</i>	7.16	
23 21 13 23-1493	LF	2-1/2" Black Schedule 80 Grooved Pipe.....	51.45	21.88
		<i>For Work In Restricted Working Space, Add</i>	9.83	
23 21 13 23-1494	LF	3" Black Schedule 80 Grooved Pipe.....	61.00	24.54
		<i>For Work In Restricted Working Space, Add</i>	11.06	
23 21 13 23-1495	LF	4" Black Schedule 80 Grooved Pipe.....	75.61	26.77
		<i>For Work In Restricted Working Space, Add</i>	12.06	
23 21 13 23-1496	LF	5" Black Schedule 80 Grooved Pipe.....	113.68	33.66
		<i>For Work In Restricted Working Space, Add</i>	15.16	
23 21 13 23-1497	LF	6" Black Schedule 80 Grooved Pipe.....	149.09	48.20
		<i>For Work In Restricted Working Space, Add</i>	21.69	
23 21 13 23-1498	LF	8" Black Schedule 80 Grooved Pipe.....	218.85	55.09
		<i>For Work In Restricted Working Space, Add</i>	24.79	
23 21 13 23-1499	LF	10" Black Schedule 80 Grooved Pipe.....	271.86	66.53
		<i>For Work In Restricted Working Space, Add</i>	29.92	
23 21 13 23-1500	LF	12" Black Schedule 80 Grooved Pipe.....	288.93	80.42
		<i>For Work In Restricted Working Space, Add</i>	36.16	
23 21 13 23-1501 Schedule 40 Galvanized Grooved Pipe (23 21 13 23-1456)				
23 21 13 23-1502	LF	3/4" Galvanized Schedule 40 Grooved Pipe.....	20.17	8.55
		<i>For Work In Restricted Working Space, Add</i>	3.83	
23 21 13 23-1503	LF	1" Galvanized Schedule 40 Grooved Pipe.....	23.45	9.66
		<i>For Work In Restricted Working Space, Add</i>	4.32	
23 21 13 23-1504	LF	1-1/4" Galvanized Schedule 40 Grooved Pipe.....	26.21	10.44
		<i>For Work In Restricted Working Space, Add</i>	4.69	
23 21 13 23-1505	LF	1-1/2" Galvanized Schedule 40 Grooved Pipe.....	29.85	11.88
		<i>For Work In Restricted Working Space, Add</i>	5.34	
23 21 13 23-1506	LF	2" Galvanized Schedule 40 Grooved Pipe.....	37.72	15.11
		<i>For Work In Restricted Working Space, Add</i>	6.81	
23 21 13 23-1507	LF	2-1/2" Galvanized Schedule 40 Grooved Pipe.....	52.95	20.66
		<i>For Work In Restricted Working Space, Add</i>	9.31	
23 21 13 23-1508	LF	3" Galvanized Schedule 40 Grooved Pipe.....	63.12	23.55
		<i>For Work In Restricted Working Space, Add</i>	10.61	
23 21 13 23-1509	LF	4" Galvanized Schedule 40 Grooved Pipe.....	78.72	26.21
		<i>For Work In Restricted Working Space, Add</i>	11.79	
23 21 13 23-1510	LF	5" Galvanized Schedule 40 Grooved Pipe.....	111.97	31.87
		<i>For Work In Restricted Working Space, Add</i>	14.34	
23 21 13 23-1511	LF	6" Galvanized Schedule 40 Grooved Pipe.....	150.17	45.98
		<i>For Work In Restricted Working Space, Add</i>	20.66	
23 21 13 23-1512	LF	8" Galvanized Schedule 40 Grooved Pipe.....	201.91	52.09
		<i>For Work In Restricted Working Space, Add</i>	23.45	
23 21 13 23-1513	LF	10" Galvanized Schedule 40 Grooved Pipe.....	287.75	62.20
		<i>For Work In Restricted Working Space, Add</i>	27.99	
23 21 13 23-1514	LF	12" Galvanized Schedule 40 Grooved Pipe.....	340.46	71.41
		<i>For Work In Restricted Working Space, Add</i>	32.14	
23 21 13 23-1515 Schedule 80 Galvanized Grooved Pipe (23 21 13 23-1456)				
23 21 13 23-1516	LF	3/4" Galvanized Schedule 80 Grooved Pipe.....	21.62	9.33
		<i>For Work In Restricted Working Space, Add</i>	4.19	
23 21 13 23-1517	LF	1" Galvanized Schedule 80 Grooved Pipe.....	28.79	9.89
		<i>For Work In Restricted Working Space, Add</i>	4.46	
23 21 13 23-1518	LF	1-1/4" Galvanized Schedule 80 Grooved Pipe.....	28.85	11.00
		<i>For Work In Restricted Working Space, Add</i>	4.95	
23 21 13 23-1519	LF	1-1/2" Galvanized Schedule 80 Grooved Pipe.....	38.06	13.10
		<i>For Work In Restricted Working Space, Add</i>	5.92	
23 21 13 23-1520	LF	2" Galvanized Schedule 80 Grooved Pipe.....	42.76	15.88
		<i>For Work In Restricted Working Space, Add</i>	7.16	
23 21 13 23-1521	LF	2-1/2" Galvanized Schedule 80 Grooved Pipe.....	60.72	21.88
		<i>For Work In Restricted Working Space, Add</i>	9.83	
23 21 13 23-1522	LF	3" Galvanized Schedule 80 Grooved Pipe.....	73.51	24.54
		<i>For Work In Restricted Working Space, Add</i>	11.06	
23 21 13 23-1523	LF	4" Galvanized Schedule 80 Grooved Pipe.....	93.66	26.77
		<i>For Work In Restricted Working Space, Add</i>	12.06	
23 21 13 23-1524	LF	5" Galvanized Schedule 80 Grooved Pipe.....	142.86	33.66
		<i>For Work In Restricted Working Space, Add</i>	15.16	
23 21 13 23-1525	LF	6" Galvanized Schedule 80 Grooved Pipe.....	183.93	48.20
		<i>For Work In Restricted Working Space, Add</i>	21.69	
23 21 13 23-1526	LF	8" Galvanized Schedule 80 Grooved Pipe.....	279.70	55.09
		<i>For Work In Restricted Working Space, Add</i>	24.79	
23 21 13 23-1527	LF	10" Galvanized Schedule 80 Grooved Pipe.....	332.61	66.53
		<i>For Work In Restricted Working Space, Add</i>	29.92	
23 21 13 23-1528	LF	12" Galvanized Schedule 80 Grooved Pipe.....	363.05	80.42
		<i>For Work In Restricted Working Space, Add</i>	36.16	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1529		Painted Grooved-Joint Pipe Fittings (23 21 13 23)		
		Note: Couplings are not included with fittings.		
23 21 13 23-1530		Grooved Elbows (23 21 13 23-1529)		
23 21 13 23-1531		90 Degree Grooved Elbows (23 21 13 23-1530)		
		Note: Victaulic No. 10		
23 21 13 23-1532	EA	3/4", Ductile Iron, Grooved 90 Degree Elbow	82.72	12.11
		For Work In Restricted Working Space, Add	5.45	
		For Galvanized Fittings, Add	21.31	
23 21 13 23-1533	EA	1", Ductile Iron, Grooved 90 Degree Elbow	82.72	12.11
		For Work In Restricted Working Space, Add	5.45	
		For Galvanized Fittings, Add	21.31	
23 21 13 23-1534	EA	1-1/4", Ductile Iron, Grooved 90 Degree Elbow	87.26	15.11
		For Work In Restricted Working Space, Add	6.81	
		For Galvanized Fittings, Add	21.31	
23 21 13 23-1535	EA	1-1/2", Ductile Iron, Grooved 90 Degree Elbow	92.06	18.33
		For Work In Restricted Working Space, Add	8.25	
		For Galvanized Fittings, Add	21.31	
23 21 13 23-1536	EA	2", Ductile Iron, Grooved 90 Degree Elbow	100.87	24.21
		For Work In Restricted Working Space, Add	10.89	
		For Galvanized Fittings, Add	21.31	
23 21 13 23-1537	EA	2-1/2", Ductile Iron, Grooved 90 Degree Elbow	108.78	29.55
		For Work In Restricted Working Space, Add	13.26	
		For Galvanized Fittings, Add	21.31	
23 21 13 23-1538	EA	3", Ductile Iron, Grooved 90 Degree Elbow	168.31	35.76
		For Work In Restricted Working Space, Add	16.08	
		For Galvanized Fittings, Add	37.85	
23 21 13 23-1539	EA	4", Ductile Iron, Grooved 90 Degree Elbow	195.68	47.20
		For Work In Restricted Working Space, Add	21.22	
		For Galvanized Fittings, Add	41.23	
23 21 13 23-1540	EA	5", Ductile Iron, Grooved 90 Degree Elbow	392.56	58.97
		For Work In Restricted Working Space, Add	26.53	
		For Galvanized Fittings, Add	100.36	
23 21 13 23-1541	EA	6", Ductile Iron, Grooved 90 Degree Elbow	469.14	77.19
		For Work In Restricted Working Space, Add	34.71	
		For Galvanized Fittings, Add	116.64	
23 21 13 23-1542	EA	8", Ductile Iron, Grooved 90 Degree Elbow	881.62	91.85
		For Work In Restricted Working Space, Add	41.32	
		For Galvanized Fittings, Add	245.48	
23 21 13 23-1543	EA	10", Ductile Iron, Grooved 90 Degree Elbow	1,319.66	107.17
		For Work In Restricted Working Space, Add	48.20	
		For Galvanized Fittings, Add	382.46	
23 21 13 23-1544	EA	12", Ductile Iron, Grooved 90 Degree Elbow	2,050.49	128.61
		For Work In Restricted Working Space, Add	57.85	
		For Galvanized Fittings, Add	613.03	
23 21 13 23-1545	EA	14", Steel, Grooved 90 Degree Elbow	4,080.96	145.16
		For Work In Restricted Working Space, Add	65.31	
		For Galvanized Fittings, Add	1,274.88	
23 21 13 23-1546	EA	16", Steel, Grooved 90 Degree Elbow	5,296.13	160.71
		For Work In Restricted Working Space, Add	72.30	
		For Galvanized Fittings, Add	1,668.19	
23 21 13 23-1547	EA	18", Steel, Grooved 90 Degree Elbow	6,674.60	175.59
		For Work In Restricted Working Space, Add	78.96	
		For Galvanized Fittings, Add	2,115.76	
23 21 13 23-1548	EA	20", Steel, Grooved 90 Degree Elbow	8,699.04	182.59
		For Work In Restricted Working Space, Add	82.15	
		For Galvanized Fittings, Add	2,780.32	
23 21 13 23-1549	EA	24", Steel, Grooved 90 Degree Elbow	12,447.71	215.91
		For Work In Restricted Working Space, Add	97.08	
		For Galvanized Fittings, Add	4,000.95	
23 21 13 23-1550		45 Degree Grooved Elbows (23 21 13 23-1530)		
		Note: Victaulic No. 11		
23 21 13 23-1551	EA	3/4", Ductile Iron, Grooved 45 Degree Elbow	82.68	12.11
		For Work In Restricted Working Space, Add	5.45	
		For Galvanized Fittings, Add	15.49	
23 21 13 23-1552	EA	1", Ductile Iron, Grooved 45 Degree Elbow	82.68	12.11
		For Work In Restricted Working Space, Add	5.45	
		For Galvanized Fittings, Add	15.49	
23 21 13 23-1553	EA	1-1/4", Ductile Iron, Grooved 45 Degree Elbow	87.22	15.11
		For Work In Restricted Working Space, Add	6.81	
		For Galvanized Fittings, Add	15.49	
23 21 13 23-1554	EA	1-1/2", Ductile Iron, Grooved 45 Degree Elbow	92.02	18.33
		For Work In Restricted Working Space, Add	8.25	
		For Galvanized Fittings, Add	15.49	
23 21 13 23-1555	EA	2", Ductile Iron, Grooved 45 Degree Elbow	100.83	24.21
		For Work In Restricted Working Space, Add	10.89	
		For Galvanized Fittings, Add	15.49	
23 21 13 23-1556	EA	2-1/2", Ductile Iron, Grooved 45 Degree Elbow	108.74	29.55
		For Work In Restricted Working Space, Add	13.26	
		For Galvanized Fittings, Add	15.49	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1557	EA	3", Ductile Iron, Grooved 45 Degree Elbow	168.27	35.76
		For Work In Restricted Working Space, Add	16.08	
		For Galvanized Fittings, Add	27.52	
23 21 13 23-1558	EA	4", Ductile Iron, Grooved 45 Degree Elbow	195.68	47.20
		For Work In Restricted Working Space, Add	21.22	
		For Galvanized Fittings, Add	29.99	
23 21 13 23-1559	EA	5", Ductile Iron, Grooved 45 Degree Elbow	392.56	58.97
		For Work In Restricted Working Space, Add	26.53	
		For Galvanized Fittings, Add	72.99	
23 21 13 23-1560	EA	6", Ductile Iron, Grooved 45 Degree Elbow	469.14	77.19
		For Work In Restricted Working Space, Add	34.71	
		For Galvanized Fittings, Add	84.83	
23 21 13 23-1561	EA	8", Ductile Iron, Grooved 45 Degree Elbow	881.62	91.85
		For Work In Restricted Working Space, Add	41.32	
		For Galvanized Fittings, Add	178.53	
23 21 13 23-1562	EA	10", Ductile Iron, Grooved 45 Degree Elbow	1,319.66	107.17
		For Work In Restricted Working Space, Add	48.20	
		For Galvanized Fittings, Add	278.16	
23 21 13 23-1563	EA	12", Ductile Iron, Grooved 45 Degree Elbow	2,050.49	128.61
		For Work In Restricted Working Space, Add	57.85	
		For Galvanized Fittings, Add	445.84	
23 21 13 23-1564	EA	14", Steel, Grooved 45 Degree Elbow	4,080.96	145.16
		For Work In Restricted Working Space, Add	65.31	
		For Galvanized Fittings, Add	927.18	
23 21 13 23-1565	EA	16", Steel, Grooved 45 Degree Elbow	5,296.13	160.71
		For Work In Restricted Working Space, Add	72.30	
		For Galvanized Fittings, Add	1,213.23	
23 21 13 23-1566	EA	18", Steel, Grooved 45 Degree Elbow	6,674.60	175.59
		For Work In Restricted Working Space, Add	78.96	
		For Galvanized Fittings, Add	1,538.73	
23 21 13 23-1567	EA	20", Steel, Grooved 45 Degree Elbow	8,699.54	182.93
		For Work In Restricted Working Space, Add	82.30	
		For Galvanized Fittings, Add	2,022.05	
23 21 13 23-1568	EA	24", Steel, Grooved 45 Degree Elbow	12,447.71	215.91
		For Work In Restricted Working Space, Add	97.08	
		For Galvanized Fittings, Add	2,909.78	
23 21 13 23-1569		22-1/2 Degree Grooved Elbows (23 21 13 23-1530)		
		Note: Victaulic No. 12		
23 21 13 23-1570	EA	1", Ductile Iron, Grooved 22-1/2 Degree Elbow	86.92	12.11
		For Work In Restricted Working Space, Add	5.45	
		For Galvanized Fittings, Add	16.50	
23 21 13 23-1571	EA	1-1/4", Ductile Iron, Grooved 22-1/2 Degree Elbow	91.46	15.11
		For Work In Restricted Working Space, Add	6.81	
		For Galvanized Fittings, Add	16.50	
23 21 13 23-1572	EA	1-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow	96.26	18.33
		For Work In Restricted Working Space, Add	8.25	
		For Galvanized Fittings, Add	16.50	
23 21 13 23-1573	EA	2", Ductile Iron, Grooved 22-1/2 Degree Elbow	105.07	24.21
		For Work In Restricted Working Space, Add	10.89	
		For Galvanized Fittings, Add	16.50	
23 21 13 23-1574	EA	2-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow	112.98	29.55
		For Work In Restricted Working Space, Add	13.26	
		For Galvanized Fittings, Add	16.50	
23 21 13 23-1575	EA	3", Ductile Iron, Grooved 22-1/2 Degree Elbow	154.19	35.76
		For Work In Restricted Working Space, Add	16.08	
		For Galvanized Fittings, Add	24.14	
23 21 13 23-1576	EA	4", Ductile Iron, Grooved 22-1/2 Degree Elbow	205.62	47.20
		For Work In Restricted Working Space, Add	21.22	
		For Galvanized Fittings, Add	32.37	
23 21 13 23-1577	EA	5", Ductile Iron, Grooved 22-1/2 Degree Elbow	506.71	58.97
		For Work In Restricted Working Space, Add	26.53	
		For Galvanized Fittings, Add	100.39	
23 21 13 23-1578	EA	6", Ductile Iron, Grooved 22-1/2 Degree Elbow	497.80	77.19
		For Work In Restricted Working Space, Add	34.71	
		For Galvanized Fittings, Add	91.71	
23 21 13 23-1579	EA	8", Ductile Iron, Grooved 22-1/2 Degree Elbow	937.23	91.85
		For Work In Restricted Working Space, Add	41.32	
		For Galvanized Fittings, Add	191.88	
23 21 13 23-1580	EA	10", Steel, Grooved 22-1/2 Degree Elbow	1,258.29	107.17
		For Work In Restricted Working Space, Add	48.20	
		For Galvanized Fittings, Add	263.43	
23 21 13 23-1581	EA	12", Steel, Grooved 22-1/2 Degree Elbow	1,676.70	128.61
		For Work In Restricted Working Space, Add	57.85	
		For Galvanized Fittings, Add	356.13	
23 21 13 23-1582	EA	14", Steel, Grooved 22-1/2 Degree Elbow	1,931.60	145.16
		For Work In Restricted Working Space, Add	65.31	
		For Galvanized Fittings, Add	411.34	
23 21 13 23-1583	EA	16", Steel, Grooved 22-1/2 Degree Elbow	2,296.60	160.71
		For Work In Restricted Working Space, Add	72.30	
		For Galvanized Fittings, Add	493.34	
23 21 13 23-1584	EA	18", Steel, Grooved 22-1/2 Degree Elbow	2,752.70	175.59
		For Work In Restricted Working Space, Add	78.96	
		For Galvanized Fittings, Add	597.48	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1585	EA		20", Steel, Grooved 22-1/2 Degree Elbow	3,217.06	182.59
			For Work In Restricted Working Space, Add	82.15	
			For Galvanized Fittings, Add	706.38	
23 21 13 23-1586	EA		24", Steel, Grooved 22-1/2 Degree Elbow	4,278.69	215.91
			For Work In Restricted Working Space, Add	97.08	
			For Galvanized Fittings, Add	949.22	
23 21 13 23-1587 11-1/4 Degree Grooved Elbows (23 21 13 23-1530)					
Note: Victaulic No. 13					
23 21 13 23-1588	EA		1", Ductile Iron, Grooved 11-1/4 Degree Elbow	86.93	12.11
			For Work In Restricted Working Space, Add	5.45	
			For Galvanized Fittings, Add	16.51	
23 21 13 23-1589	EA		1-1/4", Ductile Iron, Grooved 11-1/4 Degree Elbow	91.47	15.11
			For Work In Restricted Working Space, Add	6.81	
			For Galvanized Fittings, Add	16.51	
23 21 13 23-1590	EA		1-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow	96.27	18.33
			For Work In Restricted Working Space, Add	8.25	
			For Galvanized Fittings, Add	16.51	
23 21 13 23-1591	EA		2", Ductile Iron, Grooved 11-1/4 Degree Elbow	105.08	24.21
			For Work In Restricted Working Space, Add	10.89	
			For Galvanized Fittings, Add	16.51	
23 21 13 23-1592	EA		2-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow	112.99	29.55
			For Work In Restricted Working Space, Add	13.26	
			For Galvanized Fittings, Add	16.51	
23 21 13 23-1593	EA		3", Ductile Iron, Grooved 11-1/4 Degree Elbow	154.18	35.76
			For Work In Restricted Working Space, Add	16.08	
			For Galvanized Fittings, Add	24.14	
23 21 13 23-1594	EA		4", Ductile Iron, Grooved 11-1/4 Degree Elbow	205.61	47.20
			For Work In Restricted Working Space, Add	21.22	
			For Galvanized Fittings, Add	32.37	
23 21 13 23-1595	EA		5", Ductile Iron, Grooved 11-1/4 Degree Elbow	506.68	58.97
			For Work In Restricted Working Space, Add	26.53	
			For Galvanized Fittings, Add	100.38	
23 21 13 23-1596	EA		6", Ductile Iron, Grooved 11-1/4 Degree Elbow	497.78	77.19
			For Work In Restricted Working Space, Add	34.71	
			For Galvanized Fittings, Add	91.70	
23 21 13 23-1597	EA		8", Ductile Iron, Grooved 11-1/4 Degree Elbow	937.18	91.85
			For Work In Restricted Working Space, Add	41.32	
			For Galvanized Fittings, Add	191.87	
23 21 13 23-1598	EA		10", Steel, Grooved 11-1/4 Degree Elbow	1,258.23	107.17
			For Work In Restricted Working Space, Add	48.20	
			For Galvanized Fittings, Add	263.41	
23 21 13 23-1599	EA		12", Steel, Grooved 11-1/4 Degree Elbow	1,676.62	128.61
			For Work In Restricted Working Space, Add	57.85	
			For Galvanized Fittings, Add	356.11	
23 21 13 23-1600	EA		14", Steel, Grooved 11-1/4 Degree Elbow	1,931.52	145.16
			For Work In Restricted Working Space, Add	65.31	
			For Galvanized Fittings, Add	411.31	
23 21 13 23-1601	EA		16", Steel, Grooved 11-1/4 Degree Elbow	2,296.53	160.82
			For Work In Restricted Working Space, Add	72.31	
			For Galvanized Fittings, Add	493.32	
23 21 13 23-1602	EA		18", Steel, Grooved 11-1/4 Degree Elbow	2,752.54	175.59
			For Work In Restricted Working Space, Add	78.96	
			For Galvanized Fittings, Add	597.44	
23 21 13 23-1603	EA		20", Steel, Grooved 11-1/4 Degree Elbow	3,216.90	182.59
			For Work In Restricted Working Space, Add	82.15	
			For Galvanized Fittings, Add	706.34	
23 21 13 23-1604	EA		24", Steel, Grooved 11-1/4 Degree Elbow	4,278.48	215.91
			For Work In Restricted Working Space, Add	97.08	
			For Galvanized Fittings, Add	949.17	
23 21 13 23-1605 90 Degree Grooved Long Radius Elbows (23 21 13 23-1530)					
Note: Victaulic No. 100					
23 21 13 23-1606	EA		2", Ductile Iron, Grooved 90 Degree Long Radius Elbow	183.92	24.21
			For Work In Restricted Working Space, Add	10.89	
			For Galvanized Fittings, Add	35.43	
23 21 13 23-1607	EA		2-1/2", Ductile Iron, Grooved 90 Degree Long Radius Elbow	472.55	29.55
			For Work In Restricted Working Space, Add	13.26	
			For Galvanized Fittings, Add	102.80	
23 21 13 23-1608	EA		3", Ductile Iron, Grooved 90 Degree Long Radius Elbow	201.22	35.76
			For Work In Restricted Working Space, Add	16.08	
			For Galvanized Fittings, Add	35.43	
23 21 13 23-1609	EA		4", Ductile Iron, Grooved 90 Degree Long Radius Elbow	291.88	47.20
			For Work In Restricted Working Space, Add	21.22	
			For Galvanized Fittings, Add	53.07	
23 21 13 23-1610	EA		5", Ductile Iron, Grooved 90 Degree Long Radius Elbow	1,221.89	58.97
			For Work In Restricted Working Space, Add	26.53	
			For Galvanized Fittings, Add	272.03	
23 21 13 23-1611	EA		6", Ductile Iron, Grooved 90 Degree Long Radius Elbow	762.60	77.19
			For Work In Restricted Working Space, Add	34.71	
			For Galvanized Fittings, Add	155.26	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1612	EA	8", Ductile Iron, Grooved, 90 Degree Long Radius Elbow	1,689.45	91.85
		<i>For Work In Restricted Working Space, Add</i>	41.32	
		<i>For Galvanized Fittings, Add</i>	372.41	
23 21 13 23-1613	EA	10", Ductile Iron, Grooved 90 Degree Long Radius Elbow	3,378.05	107.17
		<i>For Work In Restricted Working Space, Add</i>	48.20	
		<i>For Galvanized Fittings, Add</i>	772.17	
23 21 13 23-1614	EA	12", Ductile Iron, Grooved 90 Degree Long Radius Elbow	4,029.54	128.61
		<i>For Work In Restricted Working Space, Add</i>	57.85	
		<i>For Galvanized Fittings, Add</i>	920.81	
23 21 13 23-1615		Grooved Tees, Wyes And Crosses (23 21 13 23-1615)		
23 21 13 23-1616		Grooved Tees (23 21 13 23-1615)		
		Note: Victaulic No. 20		
23 21 13 23-1617	EA	3/4", Ductile Iron, Grooved Tee.....	122.55	15.88
		<i>For Work In Restricted Working Space, Add</i>	7.16	
		<i>For Galvanized Fittings, Add</i>	29.60	
23 21 13 23-1618	EA	1", Ductile Iron, Grooved Tee.....	126.16	18.33
		<i>For Work In Restricted Working Space, Add</i>	8.25	
		<i>For Galvanized Fittings, Add</i>	29.60	
23 21 13 23-1619	EA	1-1/4", Ductile Iron, Grooved Tee	132.28	22.44
		<i>For Work In Restricted Working Space, Add</i>	10.08	
		<i>For Galvanized Fittings, Add</i>	29.60	
23 21 13 23-1620	EA	1-1/2", Ductile Iron, Grooved Tee	139.92	27.54
		<i>For Work In Restricted Working Space, Add</i>	12.38	
		<i>For Galvanized Fittings, Add</i>	29.60	
23 21 13 23-1621	EA	2", Ductile Iron, Grooved Tee.....	152.05	35.65
		<i>For Work In Restricted Working Space, Add</i>	16.01	
		<i>For Galvanized Fittings, Add</i>	29.60	
23 21 13 23-1622	EA	2-1/2", Ductile Iron, Grooved Tee	164.17	43.65
		<i>For Work In Restricted Working Space, Add</i>	19.65	
		<i>For Galvanized Fittings, Add</i>	29.60	
23 21 13 23-1623	EA	3", Ductile Iron, Grooved Tee.....	218.60	53.65
		<i>For Work In Restricted Working Space, Add</i>	24.11	
		<i>For Galvanized Fittings, Add</i>	41.47	
23 21 13 23-1624	EA	4", Ductile Iron, Grooved Tee.....	316.05	69.42
		<i>For Work In Restricted Working Space, Add</i>	31.21	
		<i>For Galvanized Fittings, Add</i>	63.61	
23 21 13 23-1625	EA	5", Ductile Iron, Grooved Tee.....	633.48	90.74
		<i>For Work In Restricted Working Space, Add</i>	40.82	
		<i>For Galvanized Fittings, Add</i>	149.23	
23 21 13 23-1626	EA	6", Ductile Iron, Grooved Tee.....	745.03	113.51
		<i>For Work In Restricted Working Space, Add</i>	51.04	
		<i>For Galvanized Fittings, Add</i>	172.47	
23 21 13 23-1627	EA	8", Ductile Iron, Grooved Tee.....	1,462.38	137.83
		<i>For Work In Restricted Working Space, Add</i>	61.98	
		<i>For Galvanized Fittings, Add</i>	376.74	
23 21 13 23-1628	EA	10", Ductile Iron, Grooved Tee.....	2,483.51	160.71
		<i>For Work In Restricted Working Space, Add</i>	72.31	
		<i>For Galvanized Fittings, Add</i>	672.75	
23 21 13 23-1629	EA	12", Ductile Iron, Grooved Tee.....	3,428.72	192.92
		<i>For Work In Restricted Working Space, Add</i>	86.77	
		<i>For Galvanized Fittings, Add</i>	941.85	
23 21 13 23-1630	EA	14", Steel, Grooved Tee	3,746.26	214.36
		<i>For Work In Restricted Working Space, Add</i>	96.41	
		<i>For Galvanized Fittings, Add</i>	1,027.47	
23 21 13 23-1631	EA	16", Steel, Grooved Tee	4,685.86	215.57
		<i>For Work In Restricted Working Space, Add</i>	96.96	
		<i>For Galvanized Fittings, Add</i>	1,308.80	
23 21 13 23-1632	EA	18", Steel, Grooved Tee	5,820.00	237.79
		<i>For Work In Restricted Working Space, Add</i>	106.94	
		<i>For Galvanized Fittings, Add</i>	1,639.06	
23 21 13 23-1633	EA	20", Steel, Grooved Tee	8,190.43	241.57
		<i>For Work In Restricted Working Space, Add</i>	108.63	
		<i>For Galvanized Fittings, Add</i>	2,348.50	
23 21 13 23-1634	EA	24", Steel, Grooved Tee	12,472.88	296.77
		<i>For Work In Restricted Working Space, Add</i>	133.49	
		<i>For Galvanized Fittings, Add</i>	3,608.37	
23 21 13 23-1635		Grooved Wyes (90 Degree True Wye) (23 21 13 23-1615)		
		Note: Victaulic No. 33		
23 21 13 23-1636	EA	1", Steel, Grooved Wye	443.81	18.33
		<i>For Work In Restricted Working Space, Add</i>	8.25	
		<i>For Galvanized Fittings, Add</i>	66.61	
23 21 13 23-1637	EA	1-1/4", Steel, Grooved Wye	449.93	22.44
		<i>For Work In Restricted Working Space, Add</i>	10.08	
		<i>For Galvanized Fittings, Add</i>	66.61	
23 21 13 23-1638	EA	1-1/2", Steel, Grooved Wye	457.57	27.54
		<i>For Work In Restricted Working Space, Add</i>	12.38	
		<i>For Galvanized Fittings, Add</i>	66.61	
23 21 13 23-1639	EA	2", Steel, Grooved Wye	469.70	35.65
		<i>For Work In Restricted Working Space, Add</i>	16.01	
		<i>For Galvanized Fittings, Add</i>	66.61	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1640	EA		2-1/2", Steel, Grooved Wye	481.82	43.65
			For Work In Restricted Working Space, Add	19.65	
			For Galvanized Fittings, Add	66.61	
23 21 13 23-1641	EA		3", Steel, Grooved Wye	578.02	53.65
			For Work In Restricted Working Space, Add	24.11	
			For Galvanized Fittings, Add	79.62	
23 21 13 23-1642	EA		4", Steel, Grooved Wye	755.85	69.42
			For Work In Restricted Working Space, Add	31.21	
			For Galvanized Fittings, Add	104.29	
23 21 13 23-1643	EA		5", Steel, Grooved Wye	1,070.34	90.74
			For Work In Restricted Working Space, Add	40.82	
			For Galvanized Fittings, Add	149.49	
23 21 13 23-1644	EA		6", Steel, Grooved Wye	1,326.12	113.51
			For Work In Restricted Working Space, Add	51.04	
			For Galvanized Fittings, Add	184.96	
23 21 13 23-1645	EA		8", Steel, Grooved Wye	1,871.52	137.83
			For Work In Restricted Working Space, Add	61.98	
			For Galvanized Fittings, Add	266.39	
23 21 13 23-1646	EA		10", Steel, Grooved Wye	3,114.67	160.71
			For Work In Restricted Working Space, Add	72.31	
			For Galvanized Fittings, Add	459.78	
23 21 13 23-1647	EA		12", Steel, Grooved Wye	3,463.94	192.92
			For Work In Restricted Working Space, Add	86.77	
			For Galvanized Fittings, Add	507.95	
23 21 13 23-1648	EA		14", Steel, Grooved Wye	3,946.54	214.36
			For Work In Restricted Working Space, Add	96.41	
			For Galvanized Fittings, Add	580.03	
23 21 13 23-1649	EA		16", Steel, Grooved Wye	5,031.49	215.35
			For Work In Restricted Working Space, Add	96.86	
			For Galvanized Fittings, Add	753.38	
23 21 13 23-1650	EA		18", Steel, Grooved Wye	5,743.00	238.01
			For Work In Restricted Working Space, Add	107.07	
			For Galvanized Fittings, Add	861.78	
23 21 13 23-1651	EA		20", Steel, Grooved Wye	8,173.24	241.12
			For Work In Restricted Working Space, Add	108.46	
			For Galvanized Fittings, Add	1,249.87	
23 21 13 23-1652	EA		24", Steel, Grooved Wye	12,589.97	296.77
			For Work In Restricted Working Space, Add	133.49	
			For Galvanized Fittings, Add	1,943.20	
23 21 13 23-1653			Grooved Crosses (23 21 13 23-1615)		
			Note: Victaulic No. 35		
23 21 13 23-1654	EA		3/4", Steel, Grooved Cross	305.35	23.88
			For Work In Restricted Working Space, Add	10.75	
			For Galvanized Fittings, Add	40.43	
23 21 13 23-1655	EA		1", Steel, Grooved Cross	310.78	27.54
			For Work In Restricted Working Space, Add	12.38	
			For Galvanized Fittings, Add	40.43	
23 21 13 23-1656	EA		1-1/4", Steel, Grooved Cross	375.72	33.66
			For Work In Restricted Working Space, Add	15.12	
			For Galvanized Fittings, Add	48.80	
23 21 13 23-1657	EA		1-1/2", Steel, Grooved Cross	412.39	41.32
			For Work In Restricted Working Space, Add	18.56	
			For Galvanized Fittings, Add	52.58	
23 21 13 23-1658	EA		2", Steel, Grooved Cross	278.16	53.43
			For Work In Restricted Working Space, Add	24.02	
			For Galvanized Fittings, Add	29.72	
23 21 13 23-1659	EA		2-1/2", Steel, Grooved Cross	296.35	65.53
			For Work In Restricted Working Space, Add	29.48	
			For Galvanized Fittings, Add	29.72	
23 21 13 23-1660	EA		3", Steel, Grooved Cross	476.55	80.42
			For Work In Restricted Working Space, Add	36.17	
			For Galvanized Fittings, Add	53.40	
23 21 13 23-1661	EA		4", Steel, Grooved Cross	748.61	104.07
			For Work In Restricted Working Space, Add	46.82	
			For Galvanized Fittings, Add	88.88	
23 21 13 23-1662	EA		5", Steel, Grooved Cross	1,414.61	136.06
			For Work In Restricted Working Space, Add	61.22	
			For Galvanized Fittings, Add	181.58	
23 21 13 23-1663	EA		6", Steel, Grooved Cross	1,812.71	170.27
			For Work In Restricted Working Space, Add	76.56	
			For Galvanized Fittings, Add	233.63	
23 21 13 23-1664	EA		8", Steel, Grooved Cross	2,361.13	206.69
			For Work In Restricted Working Space, Add	92.97	
			For Galvanized Fittings, Add	307.69	
23 21 13 23-1665	EA		10", Steel, Grooved Cross	3,860.04	241.12
			For Work In Restricted Working Space, Add	108.46	
			For Galvanized Fittings, Add	524.78	
23 21 13 23-1666	EA		12", Steel, Grooved Cross	5,482.47	289.43
			For Work In Restricted Working Space, Add	130.16	
			For Galvanized Fittings, Add	757.29	
23 21 13 23-1667	EA		14", Steel, Grooved Cross	5,712.68	321.53
			For Work In Restricted Working Space, Add	144.62	
			For Galvanized Fittings, Add	784.59	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1668	EA	16", Steel, Grooved Cross	7,327.34	323.42
		For Work In Restricted Working Space, Add	145.45	
		For Galvanized Fittings, Add	1,026.38	
23 21 13 23-1669	EA	18", Steel, Grooved Cross	8,921.99	356.63
		For Work In Restricted Working Space, Add	160.41	
		For Galvanized Fittings, Add	1,258.10	
23 21 13 23-1670	EA	20", Steel, Grooved Cross	12,425.48	362.19
		For Work In Restricted Working Space, Add	162.92	
		For Galvanized Fittings, Add	1,782.36	
23 21 13 23-1671	EA	24", Steel, Grooved Cross	19,011.30	445.15
		For Work In Restricted Working Space, Add	200.24	
		For Galvanized Fittings, Add	2,751.58	
23 21 13 23-1672 Grooved Reducing Tees (23 21 13 23-1615)				
		Note: Victaulic No. 25		
23 21 13 23-1673	EA	1", Steel, Grooved Reducing Tee	217.87	18.33
		For Work In Restricted Working Space, Add	8.25	
		For Galvanized Fittings, Add	38.08	
23 21 13 23-1674	EA	1-1/4", Steel, Grooved Reducing Tee	229.97	22.44
		For Work In Restricted Working Space, Add	10.08	
		For Galvanized Fittings, Add	39.27	
23 21 13 23-1675	EA	1-1/2", Steel, Grooved Reducing Tee	242.50	27.54
		For Work In Restricted Working Space, Add	12.38	
		For Galvanized Fittings, Add	40.25	
23 21 13 23-1676	EA	2", Steel, Grooved Reducing Tee	288.99	35.65
		For Work In Restricted Working Space, Add	16.01	
		For Galvanized Fittings, Add	47.12	
23 21 13 23-1677	EA	2-1/2", Steel, Grooved Reducing Tee	325.36	43.65
		For Work In Restricted Working Space, Add	19.65	
		For Galvanized Fittings, Add	51.97	
23 21 13 23-1678	EA	3", Steel, Grooved Reducing Tee	364.81	53.65
		For Work In Restricted Working Space, Add	24.11	
		For Galvanized Fittings, Add	56.89	
23 21 13 23-1679	EA	4", Steel, Grooved Reducing Tee	487.62	69.42
		For Work In Restricted Working Space, Add	31.21	
		For Galvanized Fittings, Add	76.72	
23 21 13 23-1680	EA	5", Steel, Grooved Reducing Tee	642.55	90.74
		For Work In Restricted Working Space, Add	40.82	
		For Galvanized Fittings, Add	101.30	
23 21 13 23-1681	EA	6", Steel, Grooved Reducing Tee	882.66	113.51
		For Work In Restricted Working Space, Add	51.04	
		For Galvanized Fittings, Add	142.50	
23 21 13 23-1682	EA	8", Steel, Grooved Reducing Tee	1,382.25	137.83
		For Work In Restricted Working Space, Add	61.98	
		For Galvanized Fittings, Add	235.13	
23 21 13 23-1683	EA	10", Steel, Grooved Reducing Tee	1,974.19	160.71
		For Work In Restricted Working Space, Add	72.31	
		For Galvanized Fittings, Add	346.63	
23 21 13 23-1684	EA	12", Steel, Grooved Reducing Tee	2,845.94	192.92
		For Work In Restricted Working Space, Add	86.77	
		For Galvanized Fittings, Add	511.34	
23 21 13 23-1685	EA	14", Steel, Grooved Reducing Tee	3,225.25	214.36
		For Work In Restricted Working Space, Add	96.41	
		For Galvanized Fittings, Add	580.78	
23 21 13 23-1686	EA	16", Steel, Grooved Reducing Tee	4,095.30	215.57
		For Work In Restricted Working Space, Add	96.97	
		For Galvanized Fittings, Add	754.41	
23 21 13 23-1687	EA	18", Steel, Grooved Reducing Tee	4,974.38	237.79
		For Work In Restricted Working Space, Add	106.93	
		For Galvanized Fittings, Add	923.59	
23 21 13 23-1688	EA	20", Steel, Grooved Reducing Tee	6,966.51	241.46
		For Work In Restricted Working Space, Add	108.60	
		For Galvanized Fittings, Add	1,320.90	
23 21 13 23-1689	EA	24", Steel, Grooved Reducing Tee	11,083.46	296.77
		For Work In Restricted Working Space, Add	133.49	
		For Galvanized Fittings, Add	2,127.70	
23 21 13 23-1690 Grooved 45 Degree Lateral Wyes (23 21 13 23-1615)				
		Note: Victaulic No. 30		
23 21 13 23-1691	EA	3/4", Steel, Grooved, 45 Degree Lateral Wye	418.13	15.88
		For Work In Restricted Working Space, Add	7.16	
		For Galvanized Fittings, Add	70.97	
23 21 13 23-1692	EA	1", Steel, Grooved, 45 Degree Lateral Wye	421.74	18.33
		For Work In Restricted Working Space, Add	8.25	
		For Galvanized Fittings, Add	70.97	
23 21 13 23-1693	EA	1-1/4", Steel, Grooved, 45 Degree Lateral Wye	427.86	22.44
		For Work In Restricted Working Space, Add	10.08	
		For Galvanized Fittings, Add	70.97	
23 21 13 23-1694	EA	1-1/2", Steel, Grooved, 45 Degree Lateral Wye	435.50	27.54
		For Work In Restricted Working Space, Add	12.38	
		For Galvanized Fittings, Add	70.97	



Heating, Ventilating, and Air-Conditioning (HVAC)		23	23
HVAC Piping and Pumps		23 20	
Hydronic Piping and Pumps		23 21	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1695	EA	2", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	447.63 16.01 70.97	35.65
23 21 13 23-1696	EA	2-1/2", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	459.75 19.65 70.97	43.65
23 21 13 23-1697	EA	3", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	420.98 24.11 61.31	53.65
23 21 13 23-1698	EA	3-1/2", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	669.73 27.80 103.87	61.86
23 21 13 23-1699	EA	4", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	775.74 31.21 120.91	69.42
23 21 13 23-1700	EA	5", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	1,117.73 40.82 176.70	90.74
23 21 13 23-1701	EA	6", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	1,751.80 51.04 284.70	113.51
23 21 13 23-1702	EA	8", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	2,484.77 61.98 410.07	137.83
23 21 13 23-1703	EA	10", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	3,456.61 72.31 578.81	160.71
23 21 13 23-1704	EA	12", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	4,177.03 86.77 699.80	192.92
23 21 13 23-1705	EA	14", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	5,995.86 96.41 1,021.41	214.36
23 21 13 23-1706	EA	16", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	7,412.20 96.97 1,276.01	215.57
23 21 13 23-1707	EA	18", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	8,281.03 106.93 1,426.43	237.79
23 21 13 23-1708	EA	20", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	12,382.31 108.60 2,163.65	241.46
23 21 13 23-1709	EA	24", Steel, Grooved, 45 Degree Lateral Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	19,123.62 133.49 3,362.16	296.77
23 21 13 23-1710		Grooved 45 Degree Lateral Reducing Wyes (23 21 13 23-1615) Note: Victaulic No. 30R		
23 21 13 23-1711	EA	3", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	420.98 24.11 44.28	53.65
23 21 13 23-1712	EA	4", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	775.74 31.21 87.32	69.42
23 21 13 23-1713	EA	5", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	1,117.73 40.82 127.62	90.74
23 21 13 23-1714	EA	6", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	1,438.47 51.04 164.88	113.51
23 21 13 23-1715	EA	8", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	2,037.55 61.98 238.02	137.83
23 21 13 23-1716	EA	10", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	2,483.43 72.31 291.51	160.71
23 21 13 23-1717	EA	12", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	3,014.31 86.77 354.26	192.92
23 21 13 23-1718	EA	14", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	3,374.14 96.41 396.86	214.36
23 21 13 23-1719	EA	16", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	4,269.22 96.97 512.98	215.57
23 21 13 23-1720	EA	18", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	6,415.49 106.93 787.68	237.79
23 21 13 23-1721	EA	20", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	9,230.89 108.60 1,152.95	241.46
23 21 13 23-1722	EA	24", Steel, Grooved 45 Degree Lateral Reducing Wye..... For Work In Restricted Working Space, Add For Galvanized Fittings, Add	14,804.02 133.49 1,866.68	296.77

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1723		Mechanical-T Outlet (23 21 13 23-1615)		
		Note: Includes making opening in pipe. Grooved or treaded branch outlets. Victaulic Styles 920 or 921.		
23 21 13 23-1724	EA	2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	145.53	39.98
		For Work In Restricted Working Space, Add	23.99	
		For Galvanized Fittings, Add	16.26	
23 21 13 23-1725	EA	2" x 1" Mechanical-T Outlet With Threaded Branch Outlet	145.53	39.98
		For Work In Restricted Working Space, Add	23.99	
		For Galvanized Fittings, Add	16.26	
23 21 13 23-1726	EA	2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet	155.76	39.98
		For Work In Restricted Working Space, Add	23.99	
		For Galvanized Fittings, Add	18.80	
23 21 13 23-1727	EA	2" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet	155.76	39.98
		For Work In Restricted Working Space, Add	23.99	
23 21 13 23-1728	EA	2-1/2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	155.53	44.98
		For Work In Restricted Working Space, Add	26.99	
23 21 13 23-1729	EA	2-1/2" x 1" Mechanical-T Outlet With Threaded Branch Outlet	155.53	44.98
		For Work In Restricted Working Space, Add	26.99	
23 21 13 23-1730	EA	2-1/2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet	182.55	44.98
		For Work In Restricted Working Space, Add	26.99	
23 21 13 23-1731	EA	3" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	175.46	49.98
		For Work In Restricted Working Space, Add	29.99	
23 21 13 23-1732	EA	3" x 1" Mechanical-T Outlet With Threaded Branch Outlet	175.46	49.98
		For Work In Restricted Working Space, Add	29.99	
23 21 13 23-1733	EA	3" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet	197.22	49.98
		For Work In Restricted Working Space, Add	29.99	
23 21 13 23-1734	EA	3" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet	197.22	49.98
		For Work In Restricted Working Space, Add	29.99	
23 21 13 23-1735	EA	3" x 2" Mechanical-T Outlet With Threaded Branch Outlet	212.12	49.98
		For Work In Restricted Working Space, Add	29.99	
23 21 13 23-1736	EA	4" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	229.54	66.64
		For Work In Restricted Working Space, Add	39.98	
23 21 13 23-1737	EA	4" x 1" Mechanical-T Outlet With Threaded Branch Outlet	229.54	66.64
		For Work In Restricted Working Space, Add	39.98	
23 21 13 23-1738	EA	4" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet	246.53	66.64
		For Work In Restricted Working Space, Add	39.98	
23 21 13 23-1739	EA	4" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	251.30	66.64
		For Work In Restricted Working Space, Add	39.98	
23 21 13 23-1740	EA	4" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet	251.30	66.64
		For Work In Restricted Working Space, Add	39.98	
23 21 13 23-1741	EA	4" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	256.07	66.64
		For Work In Restricted Working Space, Add	39.98	
23 21 13 23-1742	EA	4" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet	265.21	66.64
		For Work In Restricted Working Space, Add	39.98	
23 21 13 23-1743	EA	5" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	328.20	91.62
		For Work In Restricted Working Space, Add	54.98	
23 21 13 23-1744	EA	5" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet	328.20	91.62
		For Work In Restricted Working Space, Add	54.98	
23 21 13 23-1745	EA	5" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	336.45	91.62
		For Work In Restricted Working Space, Add	54.98	
23 21 13 23-1746	EA	5" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet	346.78	91.62
		For Work In Restricted Working Space, Add	54.98	
23 21 13 23-1747	EA	6" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	381.56	116.62
		For Work In Restricted Working Space, Add	69.97	
23 21 13 23-1748	EA	6" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet	381.56	116.62
		For Work In Restricted Working Space, Add	69.97	
23 21 13 23-1749	EA	6" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	393.68	116.62
		For Work In Restricted Working Space, Add	69.97	
23 21 13 23-1750	EA	6" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet	403.91	116.62
		For Work In Restricted Working Space, Add	69.97	
23 21 13 23-1751	EA	6" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet	422.09	116.62
		For Work In Restricted Working Space, Add	69.97	
23 21 13 23-1752	EA	8" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet	571.22	154.37
		For Work In Restricted Working Space, Add	92.63	
23 21 13 23-1753	EA	8" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	571.22	154.37
		For Work In Restricted Working Space, Add	92.63	
23 21 13 23-1754	EA	8" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet	585.82	154.37
		For Work In Restricted Working Space, Add	92.63	
23 21 13 23-1755	EA	8" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet	594.47	154.37
		For Work In Restricted Working Space, Add	92.63	
23 21 13 23-1756		Installation-Ready™ Grooved Fittings (23 21 13 23-1629)		
23 21 13 23-1757		Installation-Ready™ 90 Degree Grooved Elbows (23 21 13 23-1756)		
		Note: Victaulic No. 101		
23 21 13 23-1758	EA	1-1/4" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	278.09	11.00
		For Work In Restricted Working Space, Add	5.00	
		For Galvanized Fittings, Add	86.27	
		For Galvanized Fittings, Add	66.93	
23 21 13 23-1759	EA	1-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	289.11	13.19
		For Work In Restricted Working Space, Add	6.00	
		For Galvanized Fittings, Add	88.81	
		For Galvanized Fittings, Add	68.89	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Piping and Pumps			23 20
Hydronic Piping and Pumps			23 21

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1760	EA		2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For Galvanized Fittings, Add</i>	297.71 8.00 89.45 69.39	17.59
23 21 13 23-1761	EA		2-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For Galvanized Fittings, Add</i>	360.11 10.00 107.84 83.66	21.99
23 21 13 23-1762 Installation-Ready™ 45 Degree Grooved Elbows (23 21 13 23-1756) Note: Victaulic No. 103					
23 21 13 23-1763	EA		1-1/4" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For Galvanized Fittings, Add</i>	278.09 5.00 62.74 66.93	11.00
23 21 13 23-1764	EA		1-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For Galvanized Fittings, Add</i>	289.11 6.00 64.59 68.89	13.19
23 21 13 23-1765	EA		2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For Galvanized Fittings, Add</i>	297.71 8.00 65.05 69.39	17.59
23 21 13 23-1766	EA		2-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For Galvanized Fittings, Add</i>	360.11 10.00 78.43 83.66	21.99
23 21 13 23-1767 Installation-Ready™ Grooved Tees (23 21 13 23-1756) Note: Victaulic No. 102					
23 21 13 23-1768	EA		1-1/4" Ductile Iron, Grooved, Installation-Ready™ Tee <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For Galvanized Fittings, Add</i>	425.91 6.67 121.11 103.34	14.66
23 21 13 23-1769	EA		1-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For Galvanized Fittings, Add</i>	443.80 8.00 125.14 106.79	17.59
23 21 13 23-1770	EA		2" Ductile Iron, Grooved, Installation-Ready™ Tee <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For Galvanized Fittings, Add</i>	458.45 10.66 126.87 108.26	23.45
23 21 13 23-1771	EA		2-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For Galvanized Fittings, Add</i>	532.69 13.33 146.48 125.00	29.32
23 21 13 23-1772 Grooved Fittings (23 21 13 23-1529)					
23 21 13 23-1773 Flanged Adapter Nipple, Grooved (23 21 13 23-1772) Note: Victaulic No. 41 and 45					
23 21 13 23-1774	EA		1" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For 300 Lb. Rating, Add</i>	297.45 6.00 49.94 41.62	13.32
23 21 13 23-1775	EA		1-1/4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For 300 Lb. Rating, Add</i>	299.68 6.67 49.94 41.62	14.77
23 21 13 23-1776	EA		1-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For 300 Lb. Rating, Add</i>	305.23 8.33 49.94 41.62	18.55
23 21 13 23-1777	EA		2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For 300 Lb. Rating, Add</i>	316.91 11.84 49.94 41.62	26.32
23 21 13 23-1778	EA		2-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For 300 Lb. Rating, Add</i>	325.26 14.34 49.94 41.62	31.87
23 21 13 23-1779	EA		3" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For 300 Lb. Rating, Add</i>	412.08 17.12 63.91 53.25	38.10
23 21 13 23-1780	EA		4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For 300 Lb. Rating, Add</i>	500.29 23.07 76.21 63.51	51.31
23 21 13 23-1781	EA		5" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Work In Restricted Working Space, Add</i> <i>For Galvanized Fittings, Add</i> <i>For 300 Lb. Rating, Add</i>	698.10 27.92 108.90 90.75	62.09

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1782	EA	6" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	816.04	83.85
		For Work In Restricted Working Space, Add	37.73	
		For Galvanized Fittings, Add	124.25	
		For 300 Lb. Rating, Add	103.54	
23 21 13 23-1783	EA	8" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	1,122.97	113.51
		For Work In Restricted Working Space, Add	51.04	
		For Galvanized Fittings, Add	171.51	
		For 300 Lb. Rating, Add	142.92	
23 21 13 23-1784	EA	10" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	1,761.47	137.83
		For Work In Restricted Working Space, Add	61.98	
		For Galvanized Fittings, Add	279.88	
		For 300 Lb. Rating, Add	233.23	
23 21 13 23-1785	EA	12" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	2,367.03	160.71
		For Work In Restricted Working Space, Add	72.31	
		For Galvanized Fittings, Add	382.68	
		For 300 Lb. Rating, Add	318.90	
23 21 13 23-1786	EA	14" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	2,796.37	192.92
		For Work In Restricted Working Space, Add	86.77	
		For Galvanized Fittings, Add	451.29	
		For 300 Lb. Rating, Add	376.07	
23 21 13 23-1787	EA	16" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	4,182.41	214.36
		For Work In Restricted Working Space, Add	96.41	
		For Galvanized Fittings, Add	694.99	
		For 300 Lb. Rating, Add	579.16	
23 21 13 23-1788	EA	18" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	5,017.16	321.53
		For Work In Restricted Working Space, Add	144.62	
		For Galvanized Fittings, Add	816.32	
		For 300 Lb. Rating, Add	680.27	
23 21 13 23-1789	EA	20" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	5,305.52	385.84
		For Work In Restricted Working Space, Add	173.54	
		For Galvanized Fittings, Add	850.87	
		For 300 Lb. Rating, Add	709.06	
23 21 13 23-1790	EA	24" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	8,797.49	428.71
		For Work In Restricted Working Space, Add	192.82	
		For Galvanized Fittings, Add	1,467.86	
		For 300 Lb. Rating, Add	1,223.21	
23 21 13 23-1791		Grooved Concentric Reducers (23 21 13 23-1772)		
		Note: Victaulic No. 50		
23 21 13 23-1792	EA	1-1/4" x 3/4", Grooved Concentric Reducer.....	315.93	13.32
		For Work In Restricted Working Space, Add	6.00	
		For Galvanized Fittings, Add	13.02	
23 21 13 23-1793	EA	1-1/4" x 1", Grooved Concentric Reducer.....	330.38	14.11
		For Work In Restricted Working Space, Add	6.33	
		For Galvanized Fittings, Add	13.61	
23 21 13 23-1794	EA	1-1/2" x 3/4", Grooved Concentric Reducer.....	372.07	15.22
		For Work In Restricted Working Space, Add	6.83	
		For Galvanized Fittings, Add	41.99	
23 21 13 23-1795	EA	1-1/2" x 1", Grooved Concentric Reducer.....	98.68	15.88
		For Work In Restricted Working Space, Add	7.16	
		For Galvanized Fittings, Add	8.99	
23 21 13 23-1796	EA	1-1/2" x 1-1/4", Grooved Concentric Reducer.....	314.50	16.66
		For Work In Restricted Working Space, Add	7.50	
		For Galvanized Fittings, Add	34.80	
23 21 13 23-1797	EA	2" x 3/4", Grooved Concentric Reducer.....	102.01	18.11
		For Work In Restricted Working Space, Add	8.16	
		For Galvanized Fittings, Add	8.99	
23 21 13 23-1798	EA	2" x 1", Grooved Concentric Reducer.....	103.12	18.88
		For Work In Restricted Working Space, Add	8.50	
		For Galvanized Fittings, Add	8.99	
23 21 13 23-1799	EA	2" x 1-1/4", Grooved Concentric Reducer.....	111.75	19.66
		For Work In Restricted Working Space, Add	8.83	
		For Galvanized Fittings, Add	9.89	
23 21 13 23-1800	EA	2" x 1-1/2", Grooved Concentric Reducer.....	107.63	21.88
		For Work In Restricted Working Space, Add	9.85	
		For Galvanized Fittings, Add	8.99	
23 21 13 23-1801	EA	2-1/2" x 3/4", Grooved Concentric Reducer.....	639.41	20.43
		For Work In Restricted Working Space, Add	9.19	
		For Galvanized Fittings, Add	73.17	
23 21 13 23-1802	EA	2-1/2" x 1", Grooved Concentric Reducer.....	509.28	21.21
		For Work In Restricted Working Space, Add	9.52	
		For Galvanized Fittings, Add	57.40	
23 21 13 23-1803	EA	2-1/2" x 1-1/4", Grooved Concentric Reducer.....	465.13	21.88
		For Work In Restricted Working Space, Add	9.85	
		For Galvanized Fittings, Add	51.96	
23 21 13 23-1804	EA	2-1/2" x 1-1/2", Grooved Concentric Reducer.....	110.89	24.10
		For Work In Restricted Working Space, Add	10.83	
		For Galvanized Fittings, Add	8.99	
23 21 13 23-1805	EA	2-1/2" x 2", Grooved Concentric Reducer.....	115.33	26.99
		For Work In Restricted Working Space, Add	12.16	
		For Galvanized Fittings, Add	8.99	
23 21 13 23-1806	EA	3" x 3/4", Grooved Concentric Reducer.....	648.31	23.77
		For Work In Restricted Working Space, Add	10.68	
		For Galvanized Fittings, Add	93.13	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1807	EA		3" x 1", Grooved Concentric Reducer	119.21	24.43
			For Work In Restricted Working Space, Add	10.98	
			For Galvanized Fittings, Add	12.56	
23 21 13 23-1808	EA		3" x 1-1/4", Grooved Concentric Reducer	512.32	25.21
			For Work In Restricted Working Space, Add	11.32	
			For Galvanized Fittings, Add	72.14	
23 21 13 23-1809	EA		3" x 1-1/2", Grooved Concentric Reducer	481.52	26.99
			For Work In Restricted Working Space, Add	12.16	
			For Galvanized Fittings, Add	67.03	
23 21 13 23-1810	EA		3" x 2", Grooved Concentric Reducer	110.59	29.99
			For Work In Restricted Working Space, Add	13.49	
			For Galvanized Fittings, Add	9.97	
23 21 13 23-1811	EA		3" x 2-1/2", Grooved Concentric Reducer	144.01	35.76
			For Work In Restricted Working Space, Add	16.08	
			For Galvanized Fittings, Add	13.74	
23 21 13 23-1812	EA		3-1/2" x 3", Grooved Concentric Reducer	154.09	38.54
			For Work In Restricted Working Space, Add	17.33	
			For Galvanized Fittings, Add	14.64	
23 21 13 23-1813	EA		4" x 1", Grooved Concentric Reducer	144.84	30.32
			For Work In Restricted Working Space, Add	13.66	
			For Galvanized Fittings, Add	17.03	
23 21 13 23-1814	EA		4" x 1-1/4", Grooved Concentric Reducer	831.70	31.10
			For Work In Restricted Working Space, Add	14.00	
			For Galvanized Fittings, Add	134.64	
23 21 13 23-1815	EA		4" x 1-1/2", Grooved Concentric Reducer	649.61	32.98
			For Work In Restricted Working Space, Add	14.83	
			For Galvanized Fittings, Add	102.93	
23 21 13 23-1816	EA		4" x 2", Grooved Concentric Reducer	141.22	35.98
			For Work In Restricted Working Space, Add	16.16	
			For Galvanized Fittings, Add	14.98	
23 21 13 23-1817	EA		4" x 2-1/2", Grooved Concentric Reducer	167.25	38.54
			For Work In Restricted Working Space, Add	17.33	
			For Galvanized Fittings, Add	18.78	
23 21 13 23-1818	EA		4" x 3", Grooved Concentric Reducer	171.68	41.54
			For Work In Restricted Working Space, Add	18.66	
			For Galvanized Fittings, Add	18.78	
23 21 13 23-1819	EA		4" x 3-1/2", Grooved Concentric Reducer	176.13	44.42
			For Work In Restricted Working Space, Add	20.00	
			For Galvanized Fittings, Add	18.78	
23 21 13 23-1820	EA		5" x 2", Grooved Concentric Reducer	1,167.56	41.87
			For Work In Restricted Working Space, Add	18.83	
			For Galvanized Fittings, Add	189.47	
23 21 13 23-1821	EA		5" x 2-1/2", Grooved Concentric Reducer	923.83	44.42
			For Work In Restricted Working Space, Add	20.00	
			For Galvanized Fittings, Add	147.01	
23 21 13 23-1822	EA		5" x 3", Grooved Concentric Reducer	199.25	47.42
			For Work In Restricted Working Space, Add	21.33	
			For Galvanized Fittings, Add	21.98	
23 21 13 23-1823	EA		5" x 4", Grooved Concentric Reducer	233.03	53.31
			For Work In Restricted Working Space, Add	23.99	
			For Galvanized Fittings, Add	26.25	
23 21 13 23-1824	EA		6" x 1", Grooved Concentric Reducer	271.31	45.21
			For Work In Restricted Working Space, Add	20.33	
			For Galvanized Fittings, Add	37.98	
23 21 13 23-1825	EA		6" x 1-1/2", Grooved Concentric Reducer	1,233.25	47.76
			For Work In Restricted Working Space, Add	21.49	
			For Galvanized Fittings, Add	216.76	
23 21 13 23-1826	EA		6" x 2", Grooved Concentric Reducer	279.62	50.76
			For Work In Restricted Working Space, Add	22.82	
			For Galvanized Fittings, Add	37.98	
23 21 13 23-1827	EA		6" x 2-1/2", Grooved Concentric Reducer	1,248.21	53.31
			For Work In Restricted Working Space, Add	23.99	
			For Galvanized Fittings, Add	217.99	
23 21 13 23-1828	EA		6" x 3", Grooved Concentric Reducer	287.97	56.31
			For Work In Restricted Working Space, Add	25.33	
			For Galvanized Fittings, Add	37.98	
23 21 13 23-1829	EA		6" x 4", Grooved Concentric Reducer	270.57	62.20
			For Work In Restricted Working Space, Add	27.99	
			For Galvanized Fittings, Add	33.08	
23 21 13 23-1830	EA		6" x 5", Grooved Concentric Reducer	364.44	68.19
			For Work In Restricted Working Space, Add	30.66	
			For Galvanized Fittings, Add	48.93	
23 21 13 23-1831	EA		8" x 3", Grooved Concentric Reducer	459.23	63.75
			For Work In Restricted Working Space, Add	28.65	
			For Galvanized Fittings, Add	67.87	
23 21 13 23-1832	EA		8" x 4", Grooved Concentric Reducer	468.10	69.64
			For Work In Restricted Working Space, Add	31.31	
			For Galvanized Fittings, Add	67.87	
23 21 13 23-1833	EA		8" x 5", Grooved Concentric Reducer	477.01	75.52
			For Work In Restricted Working Space, Add	33.99	
			For Galvanized Fittings, Add	67.87	
23 21 13 23-1834	EA		8" x 6", Grooved Concentric Reducer	590.43	84.41
			For Work In Restricted Working Space, Add	37.98	
			For Galvanized Fittings, Add	86.55	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1835	EA	10" x 4", Grooved Concentric Reducer	982.06	77.41
		For Work In Restricted Working Space, Add	34.82	
		For Galvanized Fittings, Add	161.59	
23 21 13 23-1836	EA	10" x 5", Grooved Concentric Reducer	2,033.88	83.30
		For Work In Restricted Working Space, Add	37.49	
		For Galvanized Fittings, Add	356.20	
23 21 13 23-1837	EA	10" x 6", Grooved Concentric Reducer	1,085.28	92.19
		For Work In Restricted Working Space, Add	41.48	
		For Galvanized Fittings, Add	176.71	
23 21 13 23-1838	EA	10" x 8", Grooved Concentric Reducer	1,096.36	99.62
		For Work In Restricted Working Space, Add	44.81	
		For Galvanized Fittings, Add	176.71	
23 21 13 23-1839	EA	12" x 4", Grooved Concentric Reducer	2,998.85	88.19
		For Work In Restricted Working Space, Add	39.65	
		For Galvanized Fittings, Add	430.00	
23 21 13 23-1840	EA	12" x 6", Grooved Concentric Reducer	1,283.84	102.95
		For Work In Restricted Working Space, Add	46.30	
		For Galvanized Fittings, Add	169.43	
23 21 13 23-1841	EA	12" x 8", Grooved Concentric Reducer	1,862.15	110.40
		For Work In Restricted Working Space, Add	49.64	
		For Galvanized Fittings, Add	254.50	
23 21 13 23-1842	EA	12" x 10", Grooved Concentric Reducer	1,873.88	118.17
		For Work In Restricted Working Space, Add	53.16	
		For Galvanized Fittings, Add	254.50	
23 21 13 23-1843	EA	14" x 6", Grooved Concentric Reducer	5,923.16	110.95
		For Work In Restricted Working Space, Add	49.91	
		For Galvanized Fittings, Add	176.73	
23 21 13 23-1844	EA	14" x 8", Grooved Concentric Reducer	3,556.55	118.39
		For Work In Restricted Working Space, Add	53.26	
		For Galvanized Fittings, Add	103.74	
23 21 13 23-1845	EA	14" x 10", Grooved Concentric Reducer	3,042.20	126.17
		For Work In Restricted Working Space, Add	56.74	
		For Galvanized Fittings, Add	87.59	
23 21 13 23-1846	EA	14" x 12", Grooved Concentric Reducer	3,058.28	136.83
		For Work In Restricted Working Space, Add	61.57	
		For Galvanized Fittings, Add	87.59	
23 21 13 23-1847	EA	16" x 8", Grooved Concentric Reducer	5,395.63	126.28
		For Work In Restricted Working Space, Add	56.82	
		For Galvanized Fittings, Add	159.83	
23 21 13 23-1848	EA	16" x 10", Grooved Concentric Reducer	5,014.51	134.05
		For Work In Restricted Working Space, Add	60.32	
		For Galvanized Fittings, Add	147.77	
23 21 13 23-1849	EA	16" x 12", Grooved Concentric Reducer	4,645.59	144.83
		For Work In Restricted Working Space, Add	65.13	
		For Galvanized Fittings, Add	135.95	
23 21 13 23-1850	EA	16" x 14", Grooved Concentric Reducer	4,657.58	152.82
		For Work In Restricted Working Space, Add	68.73	
		For Galvanized Fittings, Add	135.95	
23 21 13 23-1851	EA	18" x 10", Grooved Concentric Reducer	7,009.10	141.49
		For Work In Restricted Working Space, Add	63.64	
		For Galvanized Fittings, Add	208.67	
23 21 13 23-1852	EA	18" x 12", Grooved Concentric Reducer	6,356.67	152.16
		For Work In Restricted Working Space, Add	68.45	
		For Galvanized Fittings, Add	188.15	
23 21 13 23-1853	EA	18" x 14", Grooved Concentric Reducer	5,788.30	160.16
		For Work In Restricted Working Space, Add	72.06	
		For Galvanized Fittings, Add	170.33	
23 21 13 23-1854	EA	18" x 16", Grooved Concentric Reducer	5,800.30	168.26
		For Work In Restricted Working Space, Add	75.66	
		For Galvanized Fittings, Add	170.33	
23 21 13 23-1855	EA	20" x 10", Grooved Concentric Reducer	7,710.11	145.16
		For Work In Restricted Working Space, Add	65.28	
		For Galvanized Fittings, Add	230.02	
23 21 13 23-1856	EA	20" x 12", Grooved Concentric Reducer	6,621.62	155.94
		For Work In Restricted Working Space, Add	70.12	
		For Galvanized Fittings, Add	196.11	
23 21 13 23-1857	EA	20" x 14", Grooved Concentric Reducer	6,633.62	163.93
		For Work In Restricted Working Space, Add	73.72	
		For Galvanized Fittings, Add	196.11	
23 21 13 23-1858	EA	20" x 16", Grooved Concentric Reducer	5,924.75	171.82
		For Work In Restricted Working Space, Add	77.27	
		For Galvanized Fittings, Add	173.98	
23 21 13 23-1859	EA	20" x 18", Grooved Concentric Reducer	6,312.14	179.26
		For Work In Restricted Working Space, Add	80.64	
		For Galvanized Fittings, Add	185.53	
23 21 13 23-1860	EA	24" x 10", Grooved Concentric Reducer	16,938.08	161.48
		For Work In Restricted Working Space, Add	72.62	
		For Galvanized Fittings, Add	512.57	
23 21 13 23-1861	EA	24" x 12", Grooved Concentric Reducer	16,551.06	172.26
		For Work In Restricted Working Space, Add	77.49	
		For Galvanized Fittings, Add	500.19	
23 21 13 23-1862	EA	24" x 14", Grooved Concentric Reducer	14,435.48	180.15
		For Work In Restricted Working Space, Add	81.03	
		For Galvanized Fittings, Add	434.88	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1863	EA	24" x 16", Grooved Concentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	14,447.55 84.65 434.88	188.25
23 21	13 23-1864	EA	24" x 18", Grooved Concentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	12,384.15 87.96 371.19	195.58
23 21	13 23-1865	EA	24" x 20", Grooved Concentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	11,318.82 89.66 338.31	199.36
23 21 13 23-1866 Grooved Eccentric Reducers (23 21 13 23-1772)					
Note: Victaulic No. 51					
23 21	13 23-1867	EA	1-1/2" x 3/4", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	384.12 6.83 43.43	15.22
23 21	13 23-1868	EA	1-1/2" x 1", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	350.05 7.16 39.21	15.88
23 21	13 23-1869	EA	1-1/2" x 1-1/4", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	344.05 7.50 38.35	16.66
23 21	13 23-1870	EA	2" x 3/4", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	729.36 8.16 84.40	18.11
23 21	13 23-1871	EA	2" x 1", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	388.48 8.50 43.29	18.88
23 21	13 23-1872	EA	2" x 1-1/4", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	424.29 8.83 47.46	19.66
23 21	13 23-1873	EA	2" x 1-1/2", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	363.35 9.85 39.73	21.88
23 21	13 23-1874	EA	2-1/2" x 3/4", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	947.21 9.19 110.17	20.43
23 21	13 23-1875	EA	2-1/2" x 1", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	885.65 9.52 102.64	21.21
23 21	13 23-1876	EA	2-1/2" x 1-1/4", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	528.76 9.85 59.61	21.88
23 21	13 23-1877	EA	2-1/2" x 1-1/2", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	429.06 10.83 47.23	24.10
23 21	13 23-1878	EA	2-1/2" x 2", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	198.82 12.16 19.03	26.99
23 21	13 23-1879	EA	3" x 1", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	952.57 10.98 110.10	24.43
23 21	13 23-1880	EA	3" x 1-1/4", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	866.95 11.32 99.67	25.21
23 21	13 23-1881	EA	3" x 1-1/2", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	495.06 12.16 54.63	26.99
23 21	13 23-1882	EA	3" x 2", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	226.89 13.49 21.87	29.99
23 21	13 23-1883	EA	3" x 2-1/2", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	235.51 16.08 21.87	35.76
23 21	13 23-1884	EA	3-1/2" x 3", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	1,064.14 17.33 120.97	38.54
23 21	13 23-1885	EA	4" x 1", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	1,902.19 13.66 318.42	30.32
23 21	13 23-1886	EA	4" x 1-1/2", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	1,172.31 14.83 192.57	32.98
23 21	13 23-1887	EA	4" x 2", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	276.29 16.16 38.15	35.98
23 21	13 23-1888	EA	4" x 2-1/2", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	280.19 17.33 38.15	38.54
23 21	13 23-1889	EA	4" x 3", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	284.62 18.66 38.15	41.54
23 21	13 23-1890	EA	5" x 2", Grooved Eccentric Reducer For Work In Restricted Working Space, Add For Galvanized Fittings, Add	1,300.95 18.83 212.35	41.87

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1891	EA	5" x 2-1/2", Grooved Eccentric Reducer	1,121.55	44.42
		For Work In Restricted Working Space, Add	20.00	
		For Galvanized Fittings, Add	180.92	
23 21 13 23-1892	EA	5" x 3", Grooved Eccentric Reducer	1,090.02	47.42
		For Work In Restricted Working Space, Add	21.33	
		For Galvanized Fittings, Add	174.75	
23 21 13 23-1893	EA	5" x 4", Grooved Eccentric Reducer	382.92	53.31
		For Work In Restricted Working Space, Add	23.99	
		For Galvanized Fittings, Add	51.96	
23 21 13 23-1894	EA	6" x 1", Grooved Eccentric Reducer	1,992.59	45.21
		For Work In Restricted Working Space, Add	20.33	
		For Galvanized Fittings, Add	359.17	
23 21 13 23-1895	EA	6" x 2", Grooved Eccentric Reducer	1,831.44	50.76
		For Work In Restricted Working Space, Add	22.82	
		For Galvanized Fittings, Add	327.55	
23 21 13 23-1896	EA	6" x 2-1/2", Grooved Eccentric Reducer	2,170.21	53.31
		For Work In Restricted Working Space, Add	23.99	
		For Galvanized Fittings, Add	390.04	
23 21 13 23-1897	EA	6" x 3", Grooved Eccentric Reducer	487.76	56.31
		For Work In Restricted Working Space, Add	25.33	
		For Galvanized Fittings, Add	75.26	
23 21 13 23-1898	EA	6" x 4", Grooved Eccentric Reducer	446.35	62.20
		For Work In Restricted Working Space, Add	27.99	
		For Galvanized Fittings, Add	65.88	
23 21 13 23-1899	EA	6" x 5", Grooved Eccentric Reducer	525.70	68.19
		For Work In Restricted Working Space, Add	30.66	
		For Galvanized Fittings, Add	79.03	
23 21 13 23-1900	EA	8" x 3", Grooved Eccentric Reducer	2,135.06	63.75
		For Work In Restricted Working Space, Add	28.65	
		For Galvanized Fittings, Add	380.58	
23 21 13 23-1901	EA	8" x 4", Grooved Eccentric Reducer	1,886.82	69.64
		For Work In Restricted Working Space, Add	31.31	
		For Galvanized Fittings, Add	332.60	
23 21 13 23-1902	EA	8" x 5", Grooved Eccentric Reducer	1,772.81	75.52
		For Work In Restricted Working Space, Add	33.99	
		For Galvanized Fittings, Add	309.67	
23 21 13 23-1903	EA	8" x 6", Grooved Eccentric Reducer	842.49	84.41
		For Work In Restricted Working Space, Add	37.98	
		For Galvanized Fittings, Add	133.58	
23 21 13 23-1904	EA	10" x 4", Grooved Eccentric Reducer	3,386.91	77.41
		For Work In Restricted Working Space, Add	34.82	
		For Galvanized Fittings, Add	610.34	
23 21 13 23-1905	EA	10" x 5", Grooved Eccentric Reducer	3,206.56	83.30
		For Work In Restricted Working Space, Add	37.49	
		For Galvanized Fittings, Add	575.03	
23 21 13 23-1906	EA	10" x 6", Grooved Eccentric Reducer	2,462.11	92.19
		For Work In Restricted Working Space, Add	41.48	
		For Galvanized Fittings, Add	433.63	
23 21 13 23-1907	EA	10" x 8", Grooved Eccentric Reducer	2,116.18	99.62
		For Work In Restricted Working Space, Add	44.81	
		For Galvanized Fittings, Add	367.01	
23 21 13 23-1908	EA	12" x 4", Grooved Eccentric Reducer	3,458.02	88.19
		For Work In Restricted Working Space, Add	39.65	
		For Galvanized Fittings, Add	501.87	
23 21 13 23-1909	EA	12" x 6", Grooved Eccentric Reducer	3,258.77	102.95
		For Work In Restricted Working Space, Add	46.30	
		For Galvanized Fittings, Add	468.46	
23 21 13 23-1910	EA	12" x 8", Grooved Eccentric Reducer	3,190.46	110.40
		For Work In Restricted Working Space, Add	49.64	
		For Galvanized Fittings, Add	456.47	
23 21 13 23-1911	EA	12" x 10", Grooved Eccentric Reducer	2,886.68	118.17
		For Work In Restricted Working Space, Add	53.16	
		For Galvanized Fittings, Add	408.86	
23 21 13 23-1912	EA	14" x 6", Grooved Eccentric Reducer	7,999.37	110.95
		For Work In Restricted Working Space, Add	49.91	
		For Galvanized Fittings, Add	240.47	
23 21 13 23-1913	EA	14" x 8", Grooved Eccentric Reducer	5,185.35	118.39
		For Work In Restricted Working Space, Add	53.26	
		For Galvanized Fittings, Add	153.74	
23 21 13 23-1914	EA	14" x 10", Grooved Eccentric Reducer	4,956.25	126.17
		For Work In Restricted Working Space, Add	56.74	
		For Galvanized Fittings, Add	146.35	
23 21 13 23-1915	EA	14" x 12", Grooved Eccentric Reducer	4,972.33	136.83
		For Work In Restricted Working Space, Add	61.57	
		For Galvanized Fittings, Add	146.35	
23 21 13 23-1916	EA	16" x 8", Grooved Eccentric Reducer	8,839.96	126.28
		For Work In Restricted Working Space, Add	56.82	
		For Galvanized Fittings, Add	265.57	
23 21 13 23-1917	EA	16" x 10", Grooved Eccentric Reducer	8,194.82	134.05
		For Work In Restricted Working Space, Add	60.32	
		For Galvanized Fittings, Add	245.41	
23 21 13 23-1918	EA	16" x 12", Grooved Eccentric Reducer	7,728.38	144.83
		For Work In Restricted Working Space, Add	65.13	
		For Galvanized Fittings, Add	230.60	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1919	EA		16" x 14", Grooved Eccentric Reducer	7,740.37	152.82
			For Work In Restricted Working Space, Add	68.73	
			For Galvanized Fittings, Add	230.60	
23 21 13 23-1920	EA		18" x 10", Grooved Eccentric Reducer	11,084.44	141.49
			For Work In Restricted Working Space, Add	63.64	
			For Galvanized Fittings, Add	333.78	
23 21 13 23-1921	EA		18" x 12", Grooved Eccentric Reducer	10,437.25	152.16
			For Work In Restricted Working Space, Add	68.45	
			For Galvanized Fittings, Add	313.42	
23 21 13 23-1922	EA		18" x 14", Grooved Eccentric Reducer	9,515.63	160.16
			For Work In Restricted Working Space, Add	72.06	
			For Galvanized Fittings, Add	284.76	
23 21 13 23-1923	EA		18" x 16", Grooved Eccentric Reducer	9,527.63	168.26
			For Work In Restricted Working Space, Add	75.66	
			For Galvanized Fittings, Add	284.76	
23 21 13 23-1924	EA		20" x 10", Grooved Eccentric Reducer	14,544.73	145.16
			For Work In Restricted Working Space, Add	65.28	
			For Galvanized Fittings, Add	439.84	
23 21 13 23-1925	EA		20" x 12", Grooved Eccentric Reducer	10,831.35	155.94
			For Work In Restricted Working Space, Add	70.12	
			For Galvanized Fittings, Add	325.35	
23 21 13 23-1926	EA		20" x 14", Grooved Eccentric Reducer	10,180.82	163.93
			For Work In Restricted Working Space, Add	73.72	
			For Galvanized Fittings, Add	305.01	
23 21 13 23-1927	EA		20" x 16", Grooved Eccentric Reducer	10,031.91	171.82
			For Work In Restricted Working Space, Add	77.27	
			For Galvanized Fittings, Add	300.07	
23 21 13 23-1928	EA		20" x 18", Grooved Eccentric Reducer	9,668.63	179.26
			For Work In Restricted Working Space, Add	80.64	
			For Galvanized Fittings, Add	288.58	
23 21 13 23-1929	EA		24" x 12", Grooved Eccentric Reducer	20,998.62	172.26
			For Work In Restricted Working Space, Add	77.49	
			For Galvanized Fittings, Add	636.73	
23 21 13 23-1930	EA		24" x 14", Grooved Eccentric Reducer	17,946.81	180.15
			For Work In Restricted Working Space, Add	81.03	
			For Galvanized Fittings, Add	542.68	
23 21 13 23-1931	EA		24" x 16", Grooved Eccentric Reducer	17,958.88	188.25
			For Work In Restricted Working Space, Add	84.65	
			For Galvanized Fittings, Add	542.68	
23 21 13 23-1932	EA		24" x 18", Grooved Eccentric Reducer	16,966.49	195.58
			For Work In Restricted Working Space, Add	87.96	
			For Galvanized Fittings, Add	511.87	
23 21 13 23-1933	EA		24" x 20", Grooved Eccentric Reducer	15,514.12	199.36
			For Work In Restricted Working Space, Add	89.66	
			For Galvanized Fittings, Add	467.11	
23 21 13 23-1934			Grooved, Close Nipple (23 21 13 23-1772)		
			Note: Victaulic No. 143		
23 21 13 23-1935	EA		1-1/4" Ductile Iron, Grooved, Close Nipple	65.15	14.66
			For Work In Restricted Working Space, Add	6.67	
			For Galvanized Fittings, Add	7.73	
			For 300 Lb. Rating, Add	6.44	
			For Galvanized Fittings, Add	10.99	
23 21 13 23-1936	EA		1-1/2" Ductile Iron, Grooved, Close Nipple	74.55	18.33
			For Work In Restricted Working Space, Add	8.33	
			For Galvanized Fittings, Add	8.42	
			For 300 Lb. Rating, Add	7.02	
			For Galvanized Fittings, Add	11.98	
23 21 13 23-1937	EA		2" Ductile Iron, Grooved, Close Nipple	93.04	24.19
			For Work In Restricted Working Space, Add	11.00	
			For Galvanized Fittings, Add	10.15	
			For 300 Lb. Rating, Add	8.46	
			For Galvanized Fittings, Add	14.44	
23 21 13 23-1938	EA		2-1/2" Ductile Iron, Grooved, Close Nipple	111.06	29.32
			For Work In Restricted Working Space, Add	13.33	
			For Galvanized Fittings, Add	12.00	
			For 300 Lb. Rating, Add	10.00	
			For Galvanized Fittings, Add	17.06	
23 21 13 23-1939			Grooved Caps (23 21 13 23-1772)		
			Note: Victaulic No. 60		
23 21 13 23-1940	EA		1" Carbon Steel Grooved Cap	126.87	4.55
			For Work In Restricted Working Space, Add	2.73	
23 21 13 23-1941	EA		1-1/4" Carbon Steel Grooved Cap	129.10	5.66
			For Work In Restricted Working Space, Add	3.40	
23 21 13 23-1942	EA		1-1/2" Carbon Steel Grooved Cap	131.55	6.89
			For Work In Restricted Working Space, Add	4.13	
23 21 13 23-1943	EA		2" Carbon Steel Grooved Cap	135.88	9.10
			For Work In Restricted Working Space, Add	5.43	
23 21 13 23-1944	EA		2-1/2" Carbon Steel Grooved Cap	139.88	11.11
			For Work In Restricted Working Space, Add	6.63	
23 21 13 23-1945	EA		3" Carbon Steel Grooved Cap	144.54	13.43
			For Work In Restricted Working Space, Add	8.03	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1946 EA 4" Carbon Steel Grooved Cap For Work In Restricted Working Space, Add	160.90 10.63	17.77
23 21 13 23-1947 EA 5" Carbon Steel Grooved Cap For Work In Restricted Working Space, Add	332.54 13.26	22.11
23 21 13 23-1948 EA 6" Carbon Steel Grooved Cap For Work In Restricted Working Space, Add	345.81 17.36	28.98
23 21 13 23-1949 EA 8" Carbon Steel Grooved Cap For Work In Restricted Working Space, Add	616.38 20.66	34.43
23 21 13 23-1950 EA 10" Carbon Steel Grooved Cap For Work In Restricted Working Space, Add	1,035.18 24.09	40.20
23 21 13 23-1951 EA 12" Carbon Steel Grooved Cap For Work In Restricted Working Space, Add	1,765.95 28.92	48.20
23 21 13 23-1952 Grooved Couplings (23 21 13 23-1529)		
23 21 13 23-1953 Flexible Grooved Coupling (23 21 13 23-1952)		
Note: Victaulic Style 77		
23 21 13 23-1954 EA 3/4" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	23.26 2.72 3.97	6.00
23 21 13 23-1955 EA 1" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	23.26 2.72 3.97	6.00
23 21 13 23-1956 EA 1-1/4" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	30.21 3.40 5.28	7.55
23 21 13 23-1957 EA 1-1/2" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	34.18 4.07 5.78	8.99
23 21 13 23-1958 EA 2" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	39.95 5.45 6.10	12.11
23 21 13 23-1959 EA 2-1/2" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	48.20 6.63 7.31	14.77
23 21 13 23-1960 EA 3" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	52.49 7.92 7.31	17.66
23 21 13 23-1961 EA 3-1/2" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	73.07 9.31 11.77	20.66
23 21 13 23-1962 EA 4" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	77.41 10.61 11.77	23.55
23 21 13 23-1963 EA 5" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	108.67 13.26 18.05	29.55
23 21 13 23-1964 EA 6" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	134.04 17.36 21.33	38.54
23 21 13 23-1965 EA 8" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	193.06 20.66 34.78	45.98
23 21 13 23-1966 EA 10" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	289.05 24.79 57.79	55.09
23 21 13 23-1967 EA 12" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	325.41 27.12 65.81	60.30
23 21 13 23-1968 EA 14" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	406.02 36.16 79.94	80.42
23 21 13 23-1969 EA 16" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	519.11 43.39 104.86	96.52
23 21 13 23-1970 EA 18" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	599.26 48.20 122.80	107.17
23 21 13 23-1971 EA 20" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	870.74 54.23 193.19	120.62
23 21 13 23-1972 EA 24" Grooved Standard Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	979.13 66.74 211.86	148.38
23 21 13 23-1973 Zero-Flex® Rigid Coupling (23 21 13 23-1952)		
Note: Victaulic Style 07		
23 21 13 23-1974 EA 1" Grooved Rigid Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	28.81 2.72 4.84	6.00
23 21 13 23-1975 EA 1-1/4" Grooved Rigid Coupling For Work In Restricted Working Space, Add For Galvanized Fittings, Add	31.08 3.40 4.84	7.55

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1976 EA 1-1/2" Grooved Rigid Coupling	33.29	8.99
For Work In Restricted Working Space, Add	4.07	
For Galvanized Fittings, Add	4.84	
23 21 13 23-1977 EA 2" Grooved Rigid Coupling	38.39	12.11
For Work In Restricted Working Space, Add	5.45	
For Galvanized Fittings, Add	4.96	
23 21 13 23-1978 EA 2-1/2" Grooved Rigid Coupling	45.44	14.77
For Work In Restricted Working Space, Add	6.63	
For Galvanized Fittings, Add	5.72	
23 21 13 23-1979 EA 3" Grooved Rigid Coupling	49.73	17.66
For Work In Restricted Working Space, Add	7.92	
For Galvanized Fittings, Add	5.72	
23 21 13 23-1980 EA 3-1/2" Grooved Rigid Coupling	58.30	20.66
For Work In Restricted Working Space, Add	9.31	
For Galvanized Fittings, Add	6.68	
23 21 13 23-1981 EA 4" Grooved Rigid Coupling	74.01	23.55
For Work In Restricted Working Space, Add	10.61	
For Galvanized Fittings, Add	9.47	
23 21 13 23-1982 EA 5" Grooved Rigid Coupling	94.39	29.55
For Work In Restricted Working Space, Add	13.26	
For Galvanized Fittings, Add	12.29	
23 21 13 23-1983 EA 6" Grooved Rigid Coupling	124.93	38.54
For Work In Restricted Working Space, Add	17.36	
For Galvanized Fittings, Add	16.43	
23 21 13 23-1984 EA 8" Grooved Rigid Coupling	174.53	45.98
For Work In Restricted Working Space, Add	20.66	
For Galvanized Fittings, Add	25.89	
23 21 13 23-1985 EA 10" Grooved Rigid Coupling	271.99	55.09
For Work In Restricted Working Space, Add	24.79	
For Galvanized Fittings, Add	46.39	
23 21 13 23-1986 EA 12" Grooved Rigid Coupling	302.28	60.30
For Work In Restricted Working Space, Add	27.12	
For Galvanized Fittings, Add	51.91	
23 21 13 23-1987 EA 14" Grooved Rigid Coupling	397.35	80.42
For Work In Restricted Working Space, Add	36.16	
For Galvanized Fittings, Add	67.82	
23 21 13 23-1988 EA 16" Grooved Rigid Coupling	505.67	96.52
For Work In Restricted Working Space, Add	43.39	
For Galvanized Fittings, Add	88.46	
23 21 13 23-1989 EA 18" Grooved Rigid Coupling	578.06	107.17
For Work In Restricted Working Space, Add	48.20	
For Galvanized Fittings, Add	102.26	
23 21 13 23-1990 EA 20" Grooved Rigid Coupling	677.69	120.62
For Work In Restricted Working Space, Add	54.23	
For Galvanized Fittings, Add	121.75	
23 21 13 23-1991 EA 24" Grooved Rigid Coupling	954.42	148.38
For Work In Restricted Working Space, Add	66.74	
For Galvanized Fittings, Add	179.33	
23 21 13 23-1992 Large Diameter Grooved Coupling (23 21 13 23-1952)		
Note: Victaulic Style 770		
23 21 13 23-1993 EA 28" Grooved Coupling.....	922.51	29.55
For Work In Restricted Working Space, Add	13.26	
For Galvanized Fittings, Add	122.96	
23 21 13 23-1994 EA 30" Grooved Coupling.....	1,069.05	38.54
For Work In Restricted Working Space, Add	17.36	
For Galvanized Fittings, Add	141.57	
23 21 13 23-1995 EA 32" Grooved Coupling.....	1,583.19	45.98
For Work In Restricted Working Space, Add	20.66	
For Galvanized Fittings, Add	212.01	
23 21 13 23-1996 EA 36" Grooved Coupling.....	2,100.10	55.09
For Work In Restricted Working Space, Add	24.79	
For Galvanized Fittings, Add	282.44	
23 21 13 23-1997 EA 42" Grooved Coupling.....	4,170.51	60.30
For Work In Restricted Working Space, Add	27.12	
For Galvanized Fittings, Add	571.22	
23 21 13 23-1998 Flexible Coupling (23 21 13 23-1952)		
Note: Victaulic Style 75		
23 21 13 23-1999 EA 1-1/2" Grooved Flexible Coupling	31.49	8.99
For Work In Restricted Working Space, Add	4.07	
For Galvanized Fittings, Add	4.59	
23 21 13 23-2000 EA 2" Grooved Flexible Coupling	36.55	12.11
For Work In Restricted Working Space, Add	5.45	
For Galvanized Fittings, Add	4.71	
23 21 13 23-2001 EA 2-1/2" Grooved Flexible Coupling	43.44	14.77
For Work In Restricted Working Space, Add	6.63	
For Galvanized Fittings, Add	5.46	
23 21 13 23-2002 EA 3" Grooved Flexible Coupling	51.20	17.66
For Work In Restricted Working Space, Add	7.92	
For Galvanized Fittings, Add	6.35	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2003	EA	3-1/2" Grooved Flexible Coupling	66.16	20.66
		For Work In Restricted Working Space, Add	9.31	
		For Galvanized Fittings, Add	8.99	
23 21 13 23-2004	EA	4" Grooved Flexible Coupling	70.50	23.55
		For Work In Restricted Working Space, Add	10.61	
		For Galvanized Fittings, Add	8.99	
23 21 13 23-2005	EA	5" Grooved Flexible Coupling	94.89	29.55
		For Work In Restricted Working Space, Add	13.26	
		For Galvanized Fittings, Add	12.97	
23 21 13 23-2006	EA	6" Grooved Flexible Coupling	118.90	38.54
		For Work In Restricted Working Space, Add	17.36	
		For Galvanized Fittings, Add	15.63	
23 21 13 23-2007	EA	8" Grooved Flexible Coupling	164.83	45.98
		For Work In Restricted Working Space, Add	20.66	
		For Galvanized Fittings, Add	24.57	
23 21 13 23-2008		Installation-Ready™ Coupling (23 21 13 23-1952)		
		Note: Victaulic Style 009N		
23 21 13 23-2009	EA	1-1/4" Ductile Iron, Installation-Ready™ Coupling	84.13	5.61
		For Work In Restricted Working Space, Add	2.55	
		For Galvanized Fittings, Add	19.36	
23 21 13 23-2010	EA	1-1/2" Ductile Iron, Installation-Ready™ Coupling	87.35	6.71
		For Work In Restricted Working Space, Add	3.05	
		For Galvanized Fittings, Add	19.76	
23 21 13 23-2011	EA	2" Ductile Iron, Installation-Ready™ Coupling	100.98	9.01
		For Work In Restricted Working Space, Add	4.10	
		For Galvanized Fittings, Add	22.35	
23 21 13 23-2012	EA	2-1/2" Ductile Iron, Installation-Ready™ Coupling	117.13	10.93
		For Work In Restricted Working Space, Add	4.97	
		For Galvanized Fittings, Add	25.75	
23 21 13 23-2013	EA	3" Ductile Iron, Installation-Ready™ Coupling	133.70	13.12
		For Work In Restricted Working Space, Add	5.96	
		For Galvanized Fittings, Add	29.14	
23 21 13 23-2014	EA	4" Ductile Iron, Installation-Ready™ Coupling	186.38	17.52
		For Work In Restricted Working Space, Add	7.97	
		For Galvanized Fittings, Add	40.92	
23 21 13 23-2015	EA	5" Ductile Iron, Installation-Ready™ Coupling	294.63	21.91
		For Work In Restricted Working Space, Add	9.96	
		For Galvanized Fittings, Add	66.93	
23 21 13 23-2016	EA	6" Ductile Iron, Installation-Ready™ Coupling	355.81	28.66
		For Work In Restricted Working Space, Add	13.03	
		For Galvanized Fittings, Add	79.97	
23 21 13 23-2017	EA	8" Ductile Iron, Installation-Ready™ Coupling	573.55	34.09
		For Work In Restricted Working Space, Add	15.49	
		For Galvanized Fittings, Add	133.61	
23 21 13 23-2018		Grooved Strainers And Suction Diffusers (23 21 13 23-1529)		
23 21 13 23-2019		Grooved Wye Strainers (23 21 13 23-2018)		
		Note: Victaulic Style 732		
23 21 13 23-2020	EA	2" Grooved Wye Strainer	2,659.30	24.43
		For Work In Restricted Working Space, Add	10.89	
23 21 13 23-2021	EA	2-1/2" Grooved Wye Strainer	2,799.42	29.66
		For Work In Restricted Working Space, Add	13.26	
23 21 13 23-2022	EA	3" Grooved Wye Strainer	3,148.17	35.54
		For Work In Restricted Working Space, Add	16.08	
23 21 13 23-2023	EA	4" Grooved Wye Strainer	3,573.59	47.42
		For Work In Restricted Working Space, Add	21.22	
23 21 13 23-2024	EA	5" Grooved Wye Strainer	5,162.57	59.31
		For Work In Restricted Working Space, Add	26.53	
23 21 13 23-2025	EA	6" Grooved Wye Strainer	5,624.30	77.08
		For Work In Restricted Working Space, Add	34.71	
23 21 13 23-2026	EA	8" Grooved Wye Strainer	8,582.68	91.85
		For Work In Restricted Working Space, Add	41.32	
23 21 13 23-2027	EA	10" Grooved Wye Strainer	13,736.33	107.39
		For Work In Restricted Working Space, Add	48.20	
23 21 13 23-2028	EA	12" Grooved Wye Strainer	23,908.38	128.95
		For Work In Restricted Working Space, Add	57.85	
23 21 13 23-2029		Grooved Tee Type Strainers (23 21 13 23-2018)		
		Note: Victaulic Style 730		
23 21 13 23-2030	EA	1-1/2" Grooved Tee Type Strainer	2,051.62	18.55
		For Work In Restricted Working Space, Add	8.25	
23 21 13 23-2031	EA	2" Grooved Tee Type Strainer	2,626.93	24.43
		For Work In Restricted Working Space, Add	10.89	
23 21 13 23-2032	EA	2-1/2" Grooved Tee Type Strainer	2,765.78	29.66
		For Work In Restricted Working Space, Add	13.26	
23 21 13 23-2033	EA	3" Grooved Tee Type Strainer	3,110.16	35.54
		For Work In Restricted Working Space, Add	16.08	
23 21 13 23-2034	EA	4" Grooved Tee Type Strainer	3,530.49	47.42
		For Work In Restricted Working Space, Add	21.22	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2035	EA	5" Grooved Tee Type Strainer	5,099.82	59.31
		For Work In Restricted Working Space, Add	26.53	
23 21 13 23-2036	EA	6" Grooved Tee Type Strainer	5,556.64	77.08
		For Work In Restricted Working Space, Add	34.71	
23 21 13 23-2037	EA	8" Grooved Tee Type Strainer	8,477.93	91.85
		For Work In Restricted Working Space, Add	41.32	
23 21 13 23-2038	EA	10" Grooved Tee Type Strainer	12,410.55	107.39
		For Work In Restricted Working Space, Add	48.20	
23 21 13 23-2039	EA	12" Grooved Tee Type Strainer	15,961.74	128.95
		For Work In Restricted Working Space, Add	57.85	
23 21 13 23-2040	EA	14" Grooved Tee Type Strainer	56,423.55	145.16
		For Work In Restricted Working Space, Add	65.33	
23 21 13 23-2041	EA	16" Grooved Tee Type Strainer	70,096.64	160.71
		For Work In Restricted Working Space, Add	72.31	
23 21 13 23-2042	EA	18" Grooved Tee Type Strainer	92,143.78	175.59
		For Work In Restricted Working Space, Add	78.96	
23 21 13 23-2043 Grooved Suction Diffuser (23 21 13 23-2018)				
Note: Victaulic Style 731				
23 21 13 23-2044	EA	2-1/2" Grooved x 2" Flanged Suction Diffuser	5,419.65	27.43
		For Work In Restricted Working Space, Add	12.16	
23 21 13 23-2045	EA	3" Grooved x 2" Flanged Suction Diffuser	5,753.27	30.32
		For Work In Restricted Working Space, Add	13.49	
23 21 13 23-2046	EA	3" Grooved x 2-1/2" Flanged Suction Diffuser	4,156.41	35.54
		For Work In Restricted Working Space, Add	16.08	
23 21 13 23-2047	EA	3" Grooved x 3" Flanged Suction Diffuser	4,215.12	38.54
		For Work In Restricted Working Space, Add	17.33	
23 21 13 23-2048	EA	4" Grooved x 2-1/2" Flanged Suction Diffuser	4,565.95	38.54
		For Work In Restricted Working Space, Add	17.33	
23 21 13 23-2049	EA	4" Grooved x 3" Flanged Suction Diffuser	4,926.10	41.54
		For Work In Restricted Working Space, Add	18.66	
23 21 13 23-2050	EA	4" Grooved x 4" Flanged Suction Diffuser	5,695.40	41.54
		For Work In Restricted Working Space, Add	18.83	
23 21 13 23-2051	EA	5" Grooved x 4" Flanged Suction Diffuser	6,358.94	53.31
		For Work In Restricted Working Space, Add	23.99	
23 21 13 23-2052	EA	5" Grooved x 5" Flanged Suction Diffuser	6,682.02	56.31
		For Work In Restricted Working Space, Add	25.33	
23 21 13 23-2053	EA	6" Grooved x 4" Flanged Suction Diffuser	6,788.01	62.20
		For Work In Restricted Working Space, Add	27.99	
23 21 13 23-2054	EA	6" Grooved x 5" Flanged Suction Diffuser	8,110.68	68.19
		For Work In Restricted Working Space, Add	30.66	
23 21 13 23-2055	EA	6" Grooved x 6" Flanged Suction Diffuser	8,424.12	72.64
		For Work In Restricted Working Space, Add	32.65	
23 21 13 23-2056	EA	8" Grooved x 5" Flanged Suction Diffuser	8,643.72	75.52
		For Work In Restricted Working Space, Add	33.99	
23 21 13 23-2057	EA	8" Grooved x 6" Flanged Suction Diffuser	9,121.88	84.41
		For Work In Restricted Working Space, Add	37.98	
23 21 13 23-2058	EA	8" Grooved x 8" Flanged Suction Diffuser	15,617.46	91.85
		For Work In Restricted Working Space, Add	41.32	
23 21 13 23-2059	EA	10" Grooved x 8" Flanged Suction Diffuser	17,616.31	99.29
		For Work In Restricted Working Space, Add	44.81	
23 21 13 23-2060	EA	10" Grooved x 10" Flanged Suction Diffuser	21,202.16	102.95
		For Work In Restricted Working Space, Add	46.30	
23 21 13 23-2061	EA	12" Grooved x 10" Flanged Suction Diffuser	25,091.23	118.50
		For Work In Restricted Working Space, Add	53.16	
23 21 13 23-2062	EA	12" Grooved x 12" Flanged Suction Diffuser	34,842.78	125.95
		For Work In Restricted Working Space, Add	56.63	
23 21 13 23-2063	EA	14" Grooved x 10" Flanged Suction Diffuser	32,440.40	125.95
		For Work In Restricted Working Space, Add	56.74	
23 21 13 23-2064	EA	14" Grooved x 12" Flanged Suction Diffuser	36,232.12	137.05
		For Work In Restricted Working Space, Add	61.57	
23 21 13 23-2065	EA	14" Grooved x 14" Flanged Suction Diffuser	43,967.14	145.16
		For Work In Restricted Working Space, Add	65.13	
23 21 13 23-2066	EA	16" Grooved x 14" Flanged Suction Diffuser	45,263.62	152.60
		For Work In Restricted Working Space, Add	68.73	
23 21 13 23-2067 Grooved Steel Valves (23 21 13 23-1529)				
23 21 13 23-2068 Grooved Butterfly Valves With Standard Trim (23 21 13 23-2067)				
23 21 13 23-2069	EA	1-1/2" Butterfly Valve, Grooved, With Standard Trim	290.36	12.11
		For Work In Restricted Working Space, Add	5.45	
23 21 13 23-2070	EA	2" Butterfly Valve, Grooved, With Standard Trim	296.09	15.88
		For Work In Restricted Working Space, Add	7.16	
23 21 13 23-2071	EA	3" Butterfly Valve, Grooved, With Standard Trim	485.81	23.55
		For Work In Restricted Working Space, Add	10.61	
23 21 13 23-2072	EA	4" Butterfly Valve, Grooved, With Standard Trim	652.53	30.99
		For Work In Restricted Working Space, Add	13.96	
23 21 13 23-2073	EA	6" Butterfly Valve, Grooved, With Standard Trim	1,424.19	50.76
		For Work In Restricted Working Space, Add	22.83	
23 21 13 23-2074	EA	8" Butterfly Valve, Grooved, With Standard Trim	1,973.69	71.41
		For Work In Restricted Working Space, Add	32.14	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2075	EA	10" Butterfly Valve, Grooved, With Standard Trim..... <i>For Work In Restricted Working Space, Add</i>	2,963.92 43.39	96.52
23 21 13 23-2076		Grooved Butterfly Valves With Stainless Steel Trim (23 21 13 23-2067)		
23 21 13 23-2077	EA	1-1/2" Butterfly Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	436.18 5.45	12.11
23 21 13 23-2078	EA	2" Butterfly Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	441.91 7.16	15.88
23 21 13 23-2079	EA	3" Butterfly Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	683.48 10.61	23.55
23 21 13 23-2080	EA	4" Butterfly Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	869.65 13.96	30.99
23 21 13 23-2081	EA	6" Butterfly Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	1,663.99 22.83	50.76
23 21 13 23-2082	EA	8" Butterfly Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	2,764.39 32.14	71.41
23 21 13 23-2083	EA	10" Butterfly Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	4,357.36 43.39	96.52
23 21 13 23-2084		Grooved Ball Valves With Standard Trim And Handle (23 21 13 23-2067)		
		Note: Victaulic No. 721		
23 21 13 23-2085	EA	1-1/2" Ball Valve, Grooved, With Standard Trim..... <i>For Work In Restricted Working Space, Add</i>	245.03 5.45	11.88
23 21 13 23-2086	EA	2" Ball Valve, Grooved, With Standard Trim..... <i>For Work In Restricted Working Space, Add</i>	280.73 7.16	16.32
23 21 13 23-2087	EA	2-1/2" Ball Valve, Grooved, With Standard Trim..... <i>For Work In Restricted Working Space, Add</i>	640.60 8.99	19.99
23 21 13 23-2088	EA	3" Ball Valve, Grooved, With Standard Trim..... <i>For Work In Restricted Working Space, Add</i>	1,050.36 10.61	23.66
23 21 13 23-2089	EA	4" Ball Valve, Grooved, With Standard Trim..... <i>For Work In Restricted Working Space, Add</i>	1,635.59 13.96	31.10
23 21 13 23-2090	EA	6" Ball Valve, Grooved, With Standard Trim..... <i>For Work In Restricted Working Space, Add</i>	5,084.82 22.83	51.09
23 21 13 23-2091		Grooved Ball Valves With Stainless Steel Trim And Handle (23 21 13 23-2067)		
		Note: Victaulic No. 721		
23 21 13 23-2092	EA	1-1/2" Ball Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	261.00 5.45	11.88
23 21 13 23-2093	EA	2" Ball Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	446.52 7.16	16.32
23 21 13 23-2094	EA	2-1/2" Ball Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	1,163.37 8.99	19.99
23 21 13 23-2095	EA	3" Ball Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	1,504.41 10.61	23.66
23 21 13 23-2096	EA	4" Ball Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	2,055.18 13.96	31.10
23 21 13 23-2097	EA	6" Ball Valve, Grooved, With Stainless Steel Trim..... <i>For Work In Restricted Working Space, Add</i>	5,604.75 22.83	51.09
23 21 13 23-2098		Grooved Check Valves (23 21 13 23-2067)		
		Note: Victaulic No. 712		
23 21 13 23-2099	EA	2" Check Valve, Grooved..... <i>For Work In Restricted Working Space, Add</i>	372.00 7.16	16.32
23 21 13 23-2100	EA	2-1/2" Check Valve, Grooved..... <i>For Work In Restricted Working Space, Add</i>	603.74 8.99	19.99
23 21 13 23-2101	EA	3" Check Valve, Grooved..... <i>For Work In Restricted Working Space, Add</i>	703.47 10.61	23.66
23 21 13 23-2102	EA	4" Check Valve, Grooved..... <i>For Work In Restricted Working Space, Add</i>	997.10 13.96	31.10
23 21 13 23-2103		Grooved Vic-Check Check Valves (23 21 13 23-2067)		
		Note: Victaulic No. 716		
23 21 13 23-2104	EA	2-1/2" "Vic-Check" Check Valve, Grooved..... <i>For Work In Restricted Working Space, Add</i>	482.50 8.99	19.99
23 21 13 23-2105	EA	3" "Vic-Check" Check Valve, Grooved..... <i>For Work In Restricted Working Space, Add</i>	487.90 10.61	23.66
23 21 13 23-2106	EA	4" "Vic-Check" Check Valve, Grooved..... <i>For Work In Restricted Working Space, Add</i>	611.46 13.96	31.10
23 21 13 23-2107	EA	6" "Vic-Check" Check Valve, Grooved..... <i>For Work In Restricted Working Space, Add</i>	1,191.88 22.83	51.09
23 21 13 23-2108	EA	8" "Vic-Check" Check Valve, Grooved..... <i>For Work In Restricted Working Space, Add</i>	1,630.88 31.77	71.08
23 21 13 23-2109	EA	10" "Vic-Check" Check Valve, Grooved..... <i>For Work In Restricted Working Space, Add</i>	4,556.57 43.02	96.30
23 21 13 23-2110	EA	12" "Vic-Check" Check Valve, Grooved..... <i>For Work In Restricted Working Space, Add</i>	5,395.75 49.64	111.17

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2111 Grooved Plug Valves With Lever Operator (23 21 13 23-2067) Note: Victaulic No. 377		
23 21 13 23-2112 EA 3" Balancing Plug Valve, Grooved, With Lever Handle.....	1,378.04	23.66
For Work In Restricted Working Space, Add	10.61	
23 21 13 23-2113 EA 4" Balancing Plug Valve, Grooved, With Lever Handle.....	1,524.01	31.10
For Work In Restricted Working Space, Add	13.96	
23 21 13 23-2114 EA 6" Balancing Plug Valve, Grooved, With Lever Handle.....	2,726.00	51.09
For Work In Restricted Working Space, Add	22.83	
23 21 13 23-2115 Grooved Plug Valve With Gear Operator (23 21 13 23-2067) Note: Victaulic No. 377		
23 21 13 23-2116 EA 3" Balancing Plug Valve, Grooved, With Gear Operator.....	2,460.89	23.66
For Work In Restricted Working Space, Add	10.61	
23 21 13 23-2117 EA 4" Balancing Plug Valve, Grooved, With Gear Operator.....	2,606.95	31.10
For Work In Restricted Working Space, Add	13.96	
23 21 13 23-2118 EA 6" Balancing Plug Valve, Grooved, With Gear Operator.....	3,808.95	51.09
For Work In Restricted Working Space, Add	22.83	
23 21 13 23-2119 EA 8" Balancing Plug Valve, Grooved, With Gear Operator.....	5,092.14	71.08
For Work In Restricted Working Space, Add	31.77	
23 21 13 23-2120 EA 10" Balancing Plug Valve, Grooved, With Gear Operator.....	8,006.75	96.30
For Work In Restricted Working Space, Add	43.02	
23 21 13 23-2121 EA 12" Balancing Plug Valve, Grooved, With Gear Operator.....	11,619.00	111.17
For Work In Restricted Working Space, Add	49.64	
23 21 13 23-2122 Prepare Pipe For Groove (23 21 13 23-1529)		
23 21 13 23-2123 Cut Grooved Pipe (23 21 13 23-2122) Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2124 EA Cut 3/4" Groove Pipe.....	11.63	
For Work In Restricted Working Space, Add	3.49	
23 21 13 23-2125 EA Cut 1" Groove Pipe.....	12.63	
For Work In Restricted Working Space, Add	3.79	
23 21 13 23-2126 EA Cut 1-1/4" Groove Pipe.....	14.26	
For Work In Restricted Working Space, Add	4.28	
23 21 13 23-2127 EA Cut 1-1/2" Groove Pipe.....	15.51	
For Work In Restricted Working Space, Add	4.65	
23 21 13 23-2128 EA Cut 2" Groove Pipe.....	17.01	
For Work In Restricted Working Space, Add	5.10	
23 21 13 23-2129 EA Cut 2-1/2" Groove Pipe.....	18.42	
For Work In Restricted Working Space, Add	5.53	
23 21 13 23-2130 EA Cut 3" Groove Pipe.....	20.10	
For Work In Restricted Working Space, Add	6.03	
23 21 13 23-2131 EA Cut 3-1/2" Groove Pipe.....	21.31	
For Work In Restricted Working Space, Add	6.39	
23 21 13 23-2132 EA Cut 4" Groove Pipe.....	22.67	
For Work In Restricted Working Space, Add	6.80	
23 21 13 23-2133 EA Cut 5" Groove Pipe.....	24.56	
For Work In Restricted Working Space, Add	7.37	
23 21 13 23-2134 EA Cut 6" Groove Pipe.....	25.27	
For Work In Restricted Working Space, Add	7.58	
23 21 13 23-2135 EA Cut 8" Groove Pipe.....	32.75	
For Work In Restricted Working Space, Add	9.83	
23 21 13 23-2136 EA Cut 10" Groove Pipe.....	46.54	
For Work In Restricted Working Space, Add	13.96	
23 21 13 23-2137 EA Cut 12" Groove Pipe.....	58.95	
For Work In Restricted Working Space, Add	17.69	
23 21 13 23-2138 EA Cut 14" Groove Pipe.....	88.43	
For Work In Restricted Working Space, Add	26.53	
23 21 13 23-2139 EA Cut 16" Groove Pipe.....	93.08	
For Work In Restricted Working Space, Add	27.92	
23 21 13 23-2140 EA Cut 18" Groove Pipe.....	98.25	
For Work In Restricted Working Space, Add	29.48	
23 21 13 23-2141 EA Cut 20" Groove Pipe.....	104.03	
For Work In Restricted Working Space, Add	31.21	
23 21 13 23-2142 EA Cut 24" Groove Pipe.....	117.90	
For Work In Restricted Working Space, Add	35.37	
23 21 13 23-2143 Roll Grooved Pipe (23 21 13 23-2122) Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2144 EA Roll 3/4" Groove.....	6.65	
For Work In Restricted Working Space, Add	2.00	
23 21 13 23-2145 EA Roll 1" Groove.....	7.75	
For Work In Restricted Working Space, Add	2.33	
23 21 13 23-2146 EA Roll 1-1/4" Groove.....	8.84	
For Work In Restricted Working Space, Add	2.65	
23 21 13 23-2147 EA Roll 1-1/2" Groove.....	9.94	
For Work In Restricted Working Space, Add	2.98	
23 21 13 23-2148 EA Roll 2" Groove.....	15.25	
For Work In Restricted Working Space, Add	4.58	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2149	EA	Roll 2-1/2" Groove	16.07	
		<i>For Work In Restricted Working Space, Add</i>	4.82	
23 21 13 23-2150	EA	Roll 3" Groove.....	17.68	
		<i>For Work In Restricted Working Space, Add</i>	5.30	
23 21 13 23-2151	EA	Roll 3-1/2" Groove	18.81	
		<i>For Work In Restricted Working Space, Add</i>	5.64	
23 21 13 23-2152	EA	Roll 4" Groove.....	20.56	
		<i>For Work In Restricted Working Space, Add</i>	6.17	
23 21 13 23-2153	EA	Roll 5" Groove.....	21.06	
		<i>For Work In Restricted Working Space, Add</i>	6.32	
23 21 13 23-2154	EA	Roll 6" Groove.....	22.11	
		<i>For Work In Restricted Working Space, Add</i>	6.63	
23 21 13 23-2155	EA	Roll 8" Groove.....	26.80	
		<i>For Work In Restricted Working Space, Add</i>	8.04	
23 21 13 23-2156	EA	Roll 10" Groove.....	30.49	
		<i>For Work In Restricted Working Space, Add</i>	9.15	
23 21 13 23-2157	EA	Roll 12" Groove.....	38.45	
		<i>For Work In Restricted Working Space, Add</i>	11.54	
23 21 13 23-2158	EA	Roll 14" Groove.....	58.95	
		<i>For Work In Restricted Working Space, Add</i>	17.69	
23 21 13 23-2159	EA	Roll 16" Groove.....	63.16	
		<i>For Work In Restricted Working Space, Add</i>	18.95	
23 21 13 23-2160	EA	Roll 18" Groove.....	65.50	
		<i>For Work In Restricted Working Space, Add</i>	19.65	
23 21 13 23-2161	EA	Roll 20" Groove.....	70.74	
		<i>For Work In Restricted Working Space, Add</i>	21.22	
23 21 13 23-2162	EA	Roll 24" Groove.....	76.89	
		<i>For Work In Restricted Working Space, Add</i>	23.07	
23 21 13 23-2163 Standard Gaskets (23 21 13 23-2122)				
Note: For use on replacement of existing gaskets.				
23 21 13 23-2164	EA	3/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	14.87	
		<i>For Work In Restricted Working Space, Add</i>	1.39	
23 21 13 23-2165	EA	1" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	15.79	
		<i>For Work In Restricted Working Space, Add</i>	1.67	
23 21 13 23-2166	EA	1-1/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	16.70	
		<i>For Work In Restricted Working Space, Add</i>	1.85	
23 21 13 23-2167	EA	1-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	18.39	
		<i>For Work In Restricted Working Space, Add</i>	2.08	
23 21 13 23-2168	EA	2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	19.05	
		<i>For Work In Restricted Working Space, Add</i>	2.28	
23 21 13 23-2169	EA	2-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	21.86	
		<i>For Work In Restricted Working Space, Add</i>	2.38	
23 21 13 23-2170	EA	3" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	24.09	
		<i>For Work In Restricted Working Space, Add</i>	2.69	
23 21 13 23-2171	EA	3-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	29.05	
		<i>For Work In Restricted Working Space, Add</i>	2.92	
23 21 13 23-2172	EA	4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	29.59	
		<i>For Work In Restricted Working Space, Add</i>	3.08	
23 21 13 23-2173	EA	5" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	35.80	
		<i>For Work In Restricted Working Space, Add</i>	3.17	
23 21 13 23-2174	EA	6" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	38.37	
		<i>For Work In Restricted Working Space, Add</i>	3.33	
23 21 13 23-2175	EA	8" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	51.54	
		<i>For Work In Restricted Working Space, Add</i>	4.17	
23 21 13 23-2176	EA	10" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	63.70	
		<i>For Work In Restricted Working Space, Add</i>	4.63	
23 21 13 23-2177	EA	12" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	75.91	
		<i>For Work In Restricted Working Space, Add</i>	5.95	
23 21 13 23-2178	EA	14" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	106.75	
		<i>For Work In Restricted Working Space, Add</i>	8.77	
23 21 13 23-2179	EA	16" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	138.96	
		<i>For Work In Restricted Working Space, Add</i>	9.47	
23 21 13 23-2180	EA	18" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	162.39	
		<i>For Work In Restricted Working Space, Add</i>	9.80	
23 21 13 23-2181	EA	20" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	234.28	
		<i>For Work In Restricted Working Space, Add</i>	10.41	
23 21 13 23-2182	EA	24" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	317.07	
		<i>For Work In Restricted Working Space, Add</i>	11.90	
23 21 13 23-2183 Copper Grooved-Joint Pipe Fittings (23 21 13 23)				
Note: Couplings are not included with fittings.				
23 21 13 23-2184 Grooved Fittings (23 21 13 23-2183)				
23 21 13 23-2185 Grooved 90 Degree Elbows (23 21 13 23-2184)				
23 21 13 23-2186	EA	2" Copper 90 Degree Elbow, Grooved.....	155.27	18.11
		<i>For Work In Restricted Working Space, Add</i>	10.89	
23 21 13 23-2187	EA	2-1/2" Copper 90 Degree Elbow, Grooved	172.97	22.11
		<i>For Work In Restricted Working Space, Add</i>	13.26	
23 21 13 23-2188	EA	3" Copper 90 Degree Elbow, Grooved.....	233.98	26.77
		<i>For Work In Restricted Working Space, Add</i>	16.08	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2189 EA 4" Copper 90 Degree Elbow, Grooved..... <i>For Work In Restricted Working Space, Add</i>	484.75 21.22	35.32
23 21 13 23-2190 EA 5" Copper 90 Degree Elbow, Grooved..... <i>For Work In Restricted Working Space, Add</i>	1,261.95 26.53	44.20
23 21 13 23-2191 EA 6" Copper 90 Degree Elbow, Grooved..... <i>For Work In Restricted Working Space, Add</i>	1,988.45 34.71	57.87
23 21 13 23-2192 EA 8" Copper 90 Degree Elbow, Grooved..... <i>For Work In Restricted Working Space, Add</i>	3,653.46 41.32	68.86
23 21 13 23-2193 Grooved 45 Degree Elbows (23 21 13 23-2184)		
23 21 13 23-2194 EA 2" Copper 45 Degree Elbow, Grooved..... <i>For Work In Restricted Working Space, Add</i>	155.27 10.89	18.11
23 21 13 23-2195 EA 2-1/2" Copper 45 Degree Elbow, Grooved..... <i>For Work In Restricted Working Space, Add</i>	172.97 13.26	22.11
23 21 13 23-2196 EA 3" Copper 45 Degree Elbow, Grooved..... <i>For Work In Restricted Working Space, Add</i>	233.98 16.08	26.77
23 21 13 23-2197 EA 4" Copper 45 Degree Elbow, Grooved..... <i>For Work In Restricted Working Space, Add</i>	484.75 21.22	35.32
23 21 13 23-2198 EA 5" Copper 45 Degree Elbow, Grooved..... <i>For Work In Restricted Working Space, Add</i>	1,261.95 26.53	44.20
23 21 13 23-2199 EA 6" Copper 45 Degree Elbow, Grooved..... <i>For Work In Restricted Working Space, Add</i>	1,988.45 34.71	57.87
23 21 13 23-2200 EA 8" Copper 45 Degree Elbow, Grooved..... <i>For Work In Restricted Working Space, Add</i>	3,653.46 41.32	68.86
23 21 13 23-2201 Grooved Tees (23 21 13 23-2184)		
23 21 13 23-2202 EA 2" Copper Tee, Grooved..... <i>For Work In Restricted Working Space, Add</i>	248.43 16.01	26.66
23 21 13 23-2203 EA 2-1/2" Copper Tee, Grooved..... <i>For Work In Restricted Working Space, Add</i>	272.49 19.65	32.76
23 21 13 23-2204 EA 3" Copper Tee, Grooved..... <i>For Work In Restricted Working Space, Add</i>	388.43 24.11	40.20
23 21 13 23-2205 EA 4" Copper Tee, Grooved..... <i>For Work In Restricted Working Space, Add</i>	779.36 31.21	51.98
23 21 13 23-2206 EA 5" Copper Tee, Grooved..... <i>For Work In Restricted Working Space, Add</i>	3,107.80 40.82	67.97
23 21 13 23-2207 EA 6" Copper Tee, Grooved..... <i>For Work In Restricted Working Space, Add</i>	2,504.72 51.04	85.08
23 21 13 23-2208 EA 8" Copper Tee, Grooved..... <i>For Work In Restricted Working Space, Add</i>	4,375.35 61.98	103.29
23 21 13 23-2209 Grooved Reducing Tees (23 21 13 23-2184)		
23 21 13 23-2210 EA 2-1/2" Copper Tee, Reducing, Grooved..... <i>For Work In Restricted Working Space, Add</i>	374.08 19.65	32.76
23 21 13 23-2211 EA 3" Copper Tee, Reducing, Grooved..... <i>For Work In Restricted Working Space, Add</i>	604.13 24.11	40.20
23 21 13 23-2212 EA 4" Copper Tee, Reducing, Grooved..... <i>For Work In Restricted Working Space, Add</i>	991.25 31.21	52.09
23 21 13 23-2213 EA 5" Copper Tee, Reducing, Grooved..... <i>For Work In Restricted Working Space, Add</i>	2,843.88 40.82	68.08
23 21 13 23-2214 EA 6" Copper Tee, Reducing, Grooved..... <i>For Work In Restricted Working Space, Add</i>	3,476.14 51.04	85.08
23 21 13 23-2215 Grooved X Cup Reducing Tees (23 21 13 23-2184)		
23 21 13 23-2216 EA 2" Copper Tee, Reducing, Grooved X Cup..... <i>For Work In Restricted Working Space, Add</i>	302.76 16.01	26.66
23 21 13 23-2217 EA 2-1/2" Copper Tee, Reducing, Grooved X Cup..... <i>For Work In Restricted Working Space, Add</i>	375.19 19.65	32.76
23 21 13 23-2218 EA 3" Copper Tee, Reducing, Grooved X Cup..... <i>For Work In Restricted Working Space, Add</i>	653.02 24.11	40.20
23 21 13 23-2219 EA 4" Copper Tee, Reducing, Grooved X Cup..... <i>For Work In Restricted Working Space, Add</i>	991.25 31.21	51.98
23 21 13 23-2220 Grooved Flanged Adapter Nipples (23 21 13 23-2184)		
23 21 13 23-2221 EA 2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Work In Restricted Working Space, Add</i>	552.76 11.84	19.66
23 21 13 23-2222 EA 2-1/2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Work In Restricted Working Space, Add</i>	582.33 14.34	23.88
23 21 13 23-2223 EA 3" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Work In Restricted Working Space, Add</i>	617.04 17.12	28.54
23 21 13 23-2224 EA 4" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Work In Restricted Working Space, Add</i>	690.79 23.07	38.43
23 21 13 23-2225 EA 5" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Work In Restricted Working Space, Add</i>	918.31 27.92	46.54
23 21 13 23-2226 EA 6" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Work In Restricted Working Space, Add</i>	1,023.72 37.73	62.86

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2227 Grooved Concentric Reducers (23 21 13 23-2184)				
23 21 13 23-2228	EA	2-1/2" x 2" Copper Concentric Reducer, Grooved	211.13	20.21
		<i>For Work In Restricted Working Space, Add</i>	12.16	
23 21 13 23-2229	EA	3" x 2" Copper Concentric Reducer, Grooved	215.58	22.55
		<i>For Work In Restricted Working Space, Add</i>	13.49	
23 21 13 23-2230	EA	3" x 2-1/2" Copper Concentric Reducer, Grooved	224.20	26.77
		<i>For Work In Restricted Working Space, Add</i>	16.08	
23 21 13 23-2231	EA	4" x 2" Copper Concentric Reducer, Grooved	402.69	26.99
		<i>For Work In Restricted Working Space, Add</i>	16.16	
23 21 13 23-2232	EA	4" x 2-1/2" Copper Concentric Reducer, Grooved	406.59	28.87
		<i>For Work In Restricted Working Space, Add</i>	17.33	
23 21 13 23-2233	EA	4" x 3" Copper Concentric Reducer, Grooved	411.02	31.10
		<i>For Work In Restricted Working Space, Add</i>	18.66	
23 21 13 23-2234	EA	5" x 3" Copper Concentric Reducer, Grooved	1,052.29	35.54
		<i>For Work In Restricted Working Space, Add</i>	21.33	
23 21 13 23-2235	EA	5" x 4" Copper Concentric Reducer, Grooved	1,061.17	39.98
		<i>For Work In Restricted Working Space, Add</i>	23.99	
23 21 13 23-2236	EA	6" x 3" Copper Concentric Reducer, Grooved	1,146.57	42.21
		<i>For Work In Restricted Working Space, Add</i>	25.33	
23 21 13 23-2237	EA	6" x 4" Copper Concentric Reducer, Grooved	1,155.45	46.65
		<i>For Work In Restricted Working Space, Add</i>	27.99	
23 21 13 23-2238	EA	6" x 5" Copper Concentric Reducer, Grooved	1,164.35	51.09
		<i>For Work In Restricted Working Space, Add</i>	30.66	
23 21 13 23-2239	EA	8" x 6" Copper Concentric Reducer, Grooved	1,990.69	63.30
		<i>For Work In Restricted Working Space, Add</i>	37.98	
23 21 13 23-2240 Grooved X Cup Concentric Reducers (23 21 13 23-2184)				
23 21 13 23-2241	EA	2" x 1" Copper Concentric Reducer, Grooved X Cup	169.59	14.22
		<i>For Work In Restricted Working Space, Add</i>	8.50	
23 21 13 23-2242	EA	2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup	170.71	14.77
		<i>For Work In Restricted Working Space, Add</i>	8.83	
23 21 13 23-2243	EA	2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	174.10	16.44
		<i>For Work In Restricted Working Space, Add</i>	9.85	
23 21 13 23-2244	EA	2-1/2" x 1" Copper Concentric Reducer, Grooved X Cup	204.51	15.88
		<i>For Work In Restricted Working Space, Add</i>	9.52	
23 21 13 23-2245	EA	2-1/2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup	205.61	16.44
		<i>For Work In Restricted Working Space, Add</i>	9.85	
23 21 13 23-2246	EA	2-1/2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	208.87	18.11
		<i>For Work In Restricted Working Space, Add</i>	10.83	
23 21 13 23-2247	EA	2-1/2" x 2" Copper Concentric Reducer, Grooved X Cup	213.31	20.21
		<i>For Work In Restricted Working Space, Add</i>	12.16	
23 21 13 23-2248	EA	3" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	255.12	20.21
		<i>For Work In Restricted Working Space, Add</i>	12.16	
23 21 13 23-2249	EA	3" x 2" Copper Concentric Reducer, Grooved X Cup	259.57	22.55
		<i>For Work In Restricted Working Space, Add</i>	13.49	
23 21 13 23-2250	EA	4" x 2" Copper Concentric Reducer, Grooved X Cup	452.13	26.88
		<i>For Work In Restricted Working Space, Add</i>	16.16	
23 21 13 23-2251 Grooved Standard Couplings (23 21 13 23-2184)				
23 21 13 23-2252	EA	2" Copper Standard Coupling, Grooved	59.17	9.10
		<i>For Work In Restricted Working Space, Add</i>	5.45	
23 21 13 23-2253	EA	2-1/2" Copper Standard Coupling, Grooved	69.13	11.11
		<i>For Work In Restricted Working Space, Add</i>	6.63	
23 21 13 23-2254	EA	3" Copper Standard Coupling, Grooved	78.15	13.21
		<i>For Work In Restricted Working Space, Add</i>	7.92	
23 21 13 23-2255	EA	4" Copper Standard Coupling, Grooved	114.58	17.77
		<i>For Work In Restricted Working Space, Add</i>	10.61	
23 21 13 23-2256	EA	5" Copper Standard Coupling, Grooved	178.96	22.11
		<i>For Work In Restricted Working Space, Add</i>	13.26	
23 21 13 23-2257	EA	6" Copper Standard Coupling, Grooved	235.83	28.87
		<i>For Work In Restricted Working Space, Add</i>	17.36	
23 21 13 23-2258	EA	8" Copper Standard Coupling, Grooved	345.94	34.43
		<i>For Work In Restricted Working Space, Add</i>	20.66	
23 21 13 23-2259 Grooved Caps (23 21 13 23-2184)				
23 21 13 23-2260	EA	2" Copper Cap, Grooved	100.17	9.10
		<i>For Work In Restricted Working Space, Add</i>	5.45	
23 21 13 23-2261	EA	2-1/2" Copper Cap, Grooved	143.82	11.11
		<i>For Work In Restricted Working Space, Add</i>	6.63	
23 21 13 23-2262	EA	3" Copper Cap, Grooved	177.43	13.21
		<i>For Work In Restricted Working Space, Add</i>	7.92	
23 21 13 23-2263	EA	4" Copper Cap, Grooved	261.93	17.66
		<i>For Work In Restricted Working Space, Add</i>	10.61	
23 21 13 23-2264	EA	5" Copper Cap, Grooved	445.91	22.11
		<i>For Work In Restricted Working Space, Add</i>	13.26	
23 21 13 23-2265	EA	6" Copper Cap, Grooved	520.20	28.87
		<i>For Work In Restricted Working Space, Add</i>	17.36	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
23 21 13 23-2266		Grooved Valves	(23 21 13 23-2183)		
23 21 13 23-2267		Grooved Butterfly Valves, Standard Trim, Without Operator	(23 21 13 23-2266)		
		Note: Copper body.			
23 21 13 23-2268	EA	2" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	479.38	11.88	
		For Work In Restricted Working Space, Add	7.16		
		For Chain Wheel, Add	43.45		
		For Valve Bracket Insulation, Add	38.20		
23 21 13 23-2269	EA	3" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	545.56	17.66	
		For Work In Restricted Working Space, Add	10.61		
		For Chain Wheel, Add	43.45		
		For Valve Bracket Insulation, Add	38.20		
23 21 13 23-2270	EA	4" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	721.16	23.21	
		For Work In Restricted Working Space, Add	13.96		
		For Chain Wheel, Add	43.45		
		For Valve Bracket Insulation, Add	38.20		
23 21 13 23-2271	EA	6" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	962.84	38.10	
		For Work In Restricted Working Space, Add	22.83		
		For Chain Wheel, Add	43.45		
		For Valve Bracket Insulation, Add	38.20		
23 21 13 23-2272	EA	8" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	1,062.34	53.54	
		For Work In Restricted Working Space, Add	32.14		
		For Chain Wheel, Add	43.45		
		For Valve Bracket Insulation, Add	38.20		
23 21 13 23-2273		Grooved Butterfly Valves, Standard Trim, With Operator	(23 21 13 23-2266)		
		Note: Copper body.			
23 21 13 23-2274	EA	2" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	585.44	11.88	
		For Work In Restricted Working Space, Add	7.16		
		For Chain Wheel, Add	43.45		
		For Valve Bracket Insulation, Add	38.20		
23 21 13 23-2275	EA	3" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	651.69	17.66	
		For Work In Restricted Working Space, Add	10.61		
		For Chain Wheel, Add	43.45		
		For Valve Bracket Insulation, Add	38.20		
23 21 13 23-2276	EA	4" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	827.29	23.21	
		For Work In Restricted Working Space, Add	13.96		
		For Chain Wheel, Add	43.45		
		For Valve Bracket Insulation, Add	38.20		
23 21 13 23-2277	EA	6" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	1,069.04	38.10	
		For Work In Restricted Working Space, Add	22.83		
		For Chain Wheel, Add	43.45		
		For Valve Bracket Insulation, Add	38.20		
23 21 13 23-2278	EA	8" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	1,168.47	53.54	
		For Work In Restricted Working Space, Add	32.14		
		For Chain Wheel, Add	43.45		
		For Valve Bracket Insulation, Add	38.20		
23 21 13 23-2279		Polyvinyl Chloride (PVC) Pressure Pipe And Fittings	(23 21 13 23)		
		Note: Socket or back weld.			
23 21 13 23-2280		Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings	(23 21 13 23-2279)		
		Note: ASTM D1785 with D2466 fittings.			
23 21 13 23-2281		Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	(23 21 13 23-2280)		
23 21 13 23-2282	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	5.19	3.17	
		For Work In Restricted Working Space, Add	1.43		
23 21 13 23-2283	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	6.50	3.97	
		For Work In Restricted Working Space, Add	1.79		
23 21 13 23-2284	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	7.14	4.23	
		For Work In Restricted Working Space, Add	1.90		
23 21 13 23-2285	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	7.88	4.55	
		For Work In Restricted Working Space, Add	2.05		
23 21 13 23-2286	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	8.14	4.63	
		For Work In Restricted Working Space, Add	2.08		
23 21 13 23-2287	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	9.95	5.54	
		For Work In Restricted Working Space, Add	2.50		
23 21 13 23-2288	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	12.45	6.59	
		For Work In Restricted Working Space, Add	2.96		
23 21 13 23-2289	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	15.29	7.97	
		For Work In Restricted Working Space, Add	3.58		
23 21 13 23-2290	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	22.74	11.94	
		For Work In Restricted Working Space, Add	5.38		
23 21 13 23-2291	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	32.30	15.92	
		For Work In Restricted Working Space, Add	7.17		
23 21 13 23-2292	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	41.25	18.98	
		For Work In Restricted Working Space, Add	8.54		
23 21 13 23-2293	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	70.86	21.20	
		For Work In Restricted Working Space, Add	9.53		
23 21 13 23-2294		Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	(23 21 13 23-2280)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2295 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	18.79 5.38	11.99
23 21 13 23-2296 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	25.11 7.17	15.88
23 21 13 23-2297 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	31.80 8.89	19.77
23 21 13 23-2298 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	45.92 12.57	27.99
23 21 13 23-2299 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	51.53 14.18	31.54
23 21 13 23-2300 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	66.75 18.01	40.09
23 21 13 23-2301 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	109.26 26.66	59.31
23 21 13 23-2302 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	141.42 35.07	77.97
23 21 13 23-2303 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	182.61 41.65	92.63
23 21 13 23-2304 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	263.51 47.60	105.84
23 21 13 23-2305 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	455.05 55.53	123.51
23 21 13 23-2306 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	680.53 82.80	184.14
23 21 13 23-2307 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows (23 21 13 23-2280)		
23 21 13 23-2308 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	19.23 5.38	11.99
23 21 13 23-2309 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	25.98 7.17	15.88
23 21 13 23-2310 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	33.02 8.89	19.77
23 21 13 23-2311 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	46.71 12.57	27.99
23 21 13 23-2312 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	53.28 14.18	31.54
23 21 13 23-2313 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	67.88 18.01	40.09
23 21 13 23-2314 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	109.26 26.66	59.31
23 21 13 23-2315 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	148.74 35.07	77.97
23 21 13 23-2316 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	195.96 41.65	92.63
23 21 13 23-2317 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	264.73 47.60	105.84
23 21 13 23-2318 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	440.31 55.53	123.51
23 21 13 23-2319 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	680.53 82.80	184.14
23 21 13 23-2320 Schedule 40 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2280)		
23 21 13 23-2321 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i>	30.67 8.89	19.77
23 21 13 23-2322 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i>	36.96 10.75	23.88
23 21 13 23-2323 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i>	49.44 14.18	31.54
23 21 13 23-2324 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	63.52 18.01	40.09
23 21 13 23-2325 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	75.92 21.50	47.76
23 21 13 23-2326 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i>	95.04 26.66	59.31
23 21 13 23-2327 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	137.49 35.07	77.97
23 21 13 23-2328 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i>	165.78 41.65	92.63
23 21 13 23-2329 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i>	233.95 55.53	123.51
23 21 13 23-2330 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i>	403.52 71.66	159.27
23 21 13 23-2331 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i>	678.18 88.85	197.59
23 21 13 23-2332 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i>	1,937.45 132.79	295.20
23 21 13 23-2333 Schedule 40 Polyvinyl Chloride (PVC) Crosses (23 21 13 23-2280)		
23 21 13 23-2334 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	38.66 11.11	24.65

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2335	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	46.56 13.43	29.88
23 21 13 23-2336	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	62.50 17.72	39.43
23 21 13 23-2337	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	80.52 22.52	50.09
23 21 13 23-2338	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	96.27 26.87	59.75
23 21 13 23-2339	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	120.77 33.32	74.08
23 21 13 23-2340	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	178.41 43.84	97.52
23 21 13 23-2341	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	215.78 52.06	115.73
23 21 13 23-2342	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	307.96 69.42	154.37
23 21 13 23-2343	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	556.56 89.53	199.03
23 21 13 23-2344	EA	8" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	968.86 111.01	246.78
23 21 13 23-2345	EA	10" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	2,896.84 166.07	369.17
23 21 13 23-2346 Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts (23 21 13 23-2280)				
23 21 13 23-2347	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	19.36 5.57	12.22
23 21 13 23-2348	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	25.44 7.13	15.66
23 21 13 23-2349	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	33.96 9.53	20.99
23 21 13 23-2350	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	41.90 11.89	26.10
23 21 13 23-2351	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	51.54 14.31	31.43
23 21 13 23-2352	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	72.27 19.85	43.65
23 21 13 23-2353	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	100.61 27.44	60.30
23 21 13 23-2354	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	134.33 34.10	74.97
23 21 13 23-2355	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	183.58 39.67	87.29
23 21 13 23-2356	EA	8" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	448.16 45.84	100.85
23 21 13 23-2357	EA	10" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	532.83 61.48	135.28
23 21 13 23-2358 Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2280)				
23 21 13 23-2359	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	19.75 5.38	11.99
23 21 13 23-2360	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	25.72 7.17	15.88
23 21 13 23-2361	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	31.89 8.89	19.77
23 21 13 23-2362	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	45.40 12.57	27.99
23 21 13 23-2363	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	51.27 14.18	31.54
23 21 13 23-2364	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	65.52 18.01	40.09
23 21 13 23-2365	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	96.79 26.66	59.31
23 21 13 23-2366	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	126.07 35.07	77.97
23 21 13 23-2367	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	159.50 41.65	92.63
23 21 13 23-2368 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2280)				
23 21 13 23-2369	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	20.36 5.38	11.99
23 21 13 23-2370	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	26.33 7.17	15.88
23 21 13 23-2371	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	33.11 8.89	19.77
23 21 13 23-2372	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	46.10 12.57	27.99
23 21 13 23-2373	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	52.84 14.18	31.54

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2374	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	66.92 18.01	40.09
23 21 13 23-2375	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	98.36 26.66	59.31
23 21 13 23-2376	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	130.87 35.07	77.97
23 21 13 23-2377	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	156.71 41.65	92.63
23 21 13 23-2378 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2280)				
23 21 13 23-2379	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	18.79 5.38	11.99
23 21 13 23-2380	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	25.02 7.17	15.88
23 21 13 23-2381	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	30.93 8.89	19.77
23 21 13 23-2382	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	44.00 12.57	27.99
23 21 13 23-2383	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	49.70 14.18	31.54
23 21 13 23-2384	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	63.34 18.01	40.09
23 21 13 23-2385	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	103.24 26.66	59.31
23 21 13 23-2386	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	136.27 35.07	77.97
23 21 13 23-2387	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	170.83 41.65	92.63
23 21 13 23-2388 Schedule 40 Polyvinyl Chloride (PVC) P-Traps (23 21 13 23-2280)				
23 21 13 23-2389	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) P-Traps..... <i>For Work In Restricted Working Space, Add</i>	30.80 7.33	16.32
23 21 13 23-2390 Schedule 40 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2280)				
23 21 13 23-2391	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	18.44 5.38	11.99
23 21 13 23-2392	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	24.59 7.17	15.88
23 21 13 23-2393	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	30.93 8.89	19.77
23 21 13 23-2394	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	43.65 12.57	27.99
23 21 13 23-2395	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	49.18 14.18	31.54
23 21 13 23-2396	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	62.99 18.01	40.09
23 21 13 23-2397	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	95.48 26.66	59.31
23 21 13 23-2398	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	127.29 35.07	77.97
23 21 13 23-2399	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	153.92 41.65	92.63
23 21 13 23-2400	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	206.46 47.60	105.84
23 21 13 23-2401	EA	8" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	274.42 55.53	123.51
23 21 13 23-2402	EA	10" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	608.32 59.52	132.39
23 21 13 23-2403 Schedule 40 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2280)				
23 21 13 23-2404	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	36.68 8.89	19.77
23 21 13 23-2405	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	50.57 10.75	23.88
23 21 13 23-2406	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	63.74 14.18	31.54
23 21 13 23-2407	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	100.15 18.01	40.09
23 21 13 23-2408	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	113.51 21.50	47.76
23 21 13 23-2409	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	145.28 26.66	59.31
23 21 13 23-2410	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	219.30 35.07	77.97
23 21 13 23-2411	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	247.33 41.65	92.63
23 21 13 23-2412	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	400.27 55.53	123.51

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21**23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2413	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Unions	527.17	159.27
		<i>For Work In Restricted Working Space, Add</i>	71.63	
23 21 13 23-2414	EA	8" Schedule 40 Polyvinyl Chloride (PVC) Unions	771.86	197.47
		<i>For Work In Restricted Working Space, Add</i>	88.80	
23 21 13 23-2415	EA	10" Schedule 40 Polyvinyl Chloride (PVC) Unions	1,151.89	245.12
		<i>For Work In Restricted Working Space, Add</i>	110.27	
23 21 13 23-2416 Schedule 40 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2280)				
23 21 13 23-2417	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps	8.88	5.40
		<i>For Work In Restricted Working Space, Add</i>	2.45	
23 21 13 23-2418	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Caps	11.63	7.11
		<i>For Work In Restricted Working Space, Add</i>	3.23	
23 21 13 23-2419	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Caps	14.72	8.77
		<i>For Work In Restricted Working Space, Add</i>	4.00	
23 21 13 23-2420	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Caps	21.05	12.61
		<i>For Work In Restricted Working Space, Add</i>	5.74	
23 21 13 23-2421	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps	23.36	14.00
		<i>For Work In Restricted Working Space, Add</i>	6.38	
23 21 13 23-2422	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Caps	29.54	17.89
		<i>For Work In Restricted Working Space, Add</i>	8.10	
23 21 13 23-2423	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps	48.27	26.44
		<i>For Work In Restricted Working Space, Add</i>	11.99	
23 21 13 23-2424	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Caps	61.59	34.76
		<i>For Work In Restricted Working Space, Add</i>	15.78	
23 21 13 23-2425	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Caps	83.05	41.21
		<i>For Work In Restricted Working Space, Add</i>	18.74	
23 21 13 23-2426	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Caps	120.68	47.09
		<i>For Work In Restricted Working Space, Add</i>	21.42	
23 21 13 23-2427	EA	8" Schedule 40 Polyvinyl Chloride (PVC) Caps	248.14	54.98
		<i>For Work In Restricted Working Space, Add</i>	24.99	
23 21 13 23-2428	EA	10" Schedule 40 Polyvinyl Chloride (PVC) Caps	734.12	81.97
		<i>For Work In Restricted Working Space, Add</i>	37.26	
23 21 13 23-2429 Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges (23 21 13 23-2280)				
23 21 13 23-2430	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Socket Weld Flanges.....	47.15	19.77
		<i>For Work In Restricted Working Space, Add</i>	8.89	
23 21 13 23-2431	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges.....	62.69	23.88
		<i>For Work In Restricted Working Space, Add</i>	10.75	
23 21 13 23-2432	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges.....	77.17	31.54
		<i>For Work In Restricted Working Space, Add</i>	14.18	
23 21 13 23-2433	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges.....	90.82	40.09
		<i>For Work In Restricted Working Space, Add</i>	18.01	
23 21 13 23-2434	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges.....	103.13	47.76
		<i>For Work In Restricted Working Space, Add</i>	21.50	
23 21 13 23-2435	EA	2" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges.....	130.71	59.31
		<i>For Work In Restricted Working Space, Add</i>	26.66	
23 21 13 23-2436	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges.....	181.54	77.97
		<i>For Work In Restricted Working Space, Add</i>	35.07	
23 21 13 23-2437	EA	3" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges.....	210.17	92.63
		<i>For Work In Restricted Working Space, Add</i>	41.65	
23 21 13 23-2438	EA	4" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges.....	275.46	123.51
		<i>For Work In Restricted Working Space, Add</i>	55.53	
23 21 13 23-2439	EA	6" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges.....	380.82	159.27
		<i>For Work In Restricted Working Space, Add</i>	71.63	
23 21 13 23-2440	EA	8" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges.....	616.53	197.47
		<i>For Work In Restricted Working Space, Add</i>	88.80	
23 21 13 23-2441	EA	10" Schedule 40 Polyvinyl Chloride (PVC) 150 Lb. Flanges.....	1,089.39	244.79
		<i>For Work In Restricted Working Space, Add</i>	110.10	
23 21 13 23-2442 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23-2279)				
Note: ASTM D1785 with D2467 fittings.				
23 21 13 23-2443 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2442)				
23 21 13 23-2444	LF	1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe	5.31	3.22
		<i>For Work In Restricted Working Space, Add</i>	1.43	
23 21 13 23-2445	LF	3/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe	6.66	4.00
		<i>For Work In Restricted Working Space, Add</i>	1.79	
23 21 13 23-2446	LF	1" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe	8.18	4.77
		<i>For Work In Restricted Working Space, Add</i>	2.14	
23 21 13 23-2447	LF	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	9.76	5.55
		<i>For Work In Restricted Working Space, Add</i>	2.51	
23 21 13 23-2448	LF	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe	11.23	6.33
		<i>For Work In Restricted Working Space, Add</i>	2.86	
23 21 13 23-2449	LF	2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe	14.40	8.00
		<i>For Work In Restricted Working Space, Add</i>	3.58	
23 21 13 23-2450	LF	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe.....	16.79	8.77
		<i>For Work In Restricted Working Space, Add</i>	3.94	
23 21 13 23-2451	LF	3" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe	19.18	9.55
		<i>For Work In Restricted Working Space, Add</i>	4.30	
23 21 13 23-2452	LF	4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe	25.04	11.99
		<i>For Work In Restricted Working Space, Add</i>	5.38	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2453	LF	6" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe	37.42	15.88
		<i>For Work In Restricted Working Space, Add</i>	7.17	
23 21 13 23-2454	LF	8" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe	49.10	18.99
		<i>For Work In Restricted Working Space, Add</i>	8.54	
23 21 13 23-2455	LF	10" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe	94.20	20.43
		<i>For Work In Restricted Working Space, Add</i>	9.20	
23 21 13 23-2456 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows (23 21 13 23-2442)				
23 21 13 23-2457	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	21.06	11.99
		<i>For Work In Restricted Working Space, Add</i>	5.38	
		<i>For Threaded Fittings, Add</i>	2.69	
23 21 13 23-2458	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	27.99	15.88
		<i>For Work In Restricted Working Space, Add</i>	7.17	
		<i>For Threaded Fittings, Add</i>	3.58	
23 21 13 23-2459	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	36.25	19.77
		<i>For Work In Restricted Working Space, Add</i>	8.89	
		<i>For Threaded Fittings, Add</i>	4.44	
23 21 13 23-2460	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	50.72	27.99
		<i>For Work In Restricted Working Space, Add</i>	12.57	
		<i>For Threaded Fittings, Add</i>	6.29	
23 21 13 23-2461	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	56.68	31.54
		<i>For Work In Restricted Working Space, Add</i>	14.18	
		<i>For Threaded Fittings, Add</i>	7.09	
23 21 13 23-2462	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	71.46	40.09
		<i>For Work In Restricted Working Space, Add</i>	18.01	
		<i>For Threaded Fittings, Add</i>	9.00	
23 21 13 23-2463	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	115.63	59.31
		<i>For Work In Restricted Working Space, Add</i>	26.66	
		<i>For Threaded Fittings, Add</i>	13.33	
23 21 13 23-2464	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	147.00	77.97
		<i>For Work In Restricted Working Space, Add</i>	35.07	
		<i>For Threaded Fittings, Add</i>	17.54	
23 21 13 23-2465	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	184.53	92.63
		<i>For Work In Restricted Working Space, Add</i>	41.65	
		<i>For Threaded Fittings, Add</i>	20.82	
23 21 13 23-2466	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	323.77	105.84
		<i>For Work In Restricted Working Space, Add</i>	47.60	
		<i>For Threaded Fittings, Add</i>	23.80	
23 21 13 23-2467	EA	8" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	544.01	123.51
		<i>For Work In Restricted Working Space, Add</i>	55.53	
		<i>For Threaded Fittings, Add</i>	27.77	
23 21 13 23-2468	EA	10" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows	680.53	184.14
		<i>For Work In Restricted Working Space, Add</i>	82.80	
		<i>For Threaded Fittings, Add</i>	41.40	
23 21 13 23-2469 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (23 21 13 23-2442)				
23 21 13 23-2470	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	23.94	11.99
		<i>For Work In Restricted Working Space, Add</i>	5.38	
		<i>For Threaded Fittings, Add</i>	2.69	
23 21 13 23-2471	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	33.05	15.88
		<i>For Work In Restricted Working Space, Add</i>	7.17	
		<i>For Threaded Fittings, Add</i>	3.58	
23 21 13 23-2472	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	43.40	19.77
		<i>For Work In Restricted Working Space, Add</i>	8.89	
		<i>For Threaded Fittings, Add</i>	4.44	
23 21 13 23-2473	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	59.53	27.99
		<i>For Work In Restricted Working Space, Add</i>	12.57	
		<i>For Threaded Fittings, Add</i>	6.29	
23 21 13 23-2474	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	68.02	31.54
		<i>For Work In Restricted Working Space, Add</i>	14.18	
		<i>For Threaded Fittings, Add</i>	7.09	
23 21 13 23-2475	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	86.98	40.09
		<i>For Work In Restricted Working Space, Add</i>	18.01	
		<i>For Threaded Fittings, Add</i>	9.00	
23 21 13 23-2476	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	145.55	59.31
		<i>For Work In Restricted Working Space, Add</i>	26.66	
		<i>For Threaded Fittings, Add</i>	13.33	
23 21 13 23-2477	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	185.90	77.97
		<i>For Work In Restricted Working Space, Add</i>	35.07	
		<i>For Threaded Fittings, Add</i>	17.54	
23 21 13 23-2478	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	263.12	92.63
		<i>For Work In Restricted Working Space, Add</i>	41.65	
		<i>For Threaded Fittings, Add</i>	20.82	
23 21 13 23-2479	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	315.15	105.84
		<i>For Work In Restricted Working Space, Add</i>	47.60	
		<i>For Threaded Fittings, Add</i>	23.80	
23 21 13 23-2480	EA	8" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	524.41	123.51
		<i>For Work In Restricted Working Space, Add</i>	55.53	
		<i>For Threaded Fittings, Add</i>	27.77	
23 21 13 23-2481	EA	10" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows	658.49	184.14
		<i>For Work In Restricted Working Space, Add</i>	82.80	
		<i>For Threaded Fittings, Add</i>	41.40	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
23 21 13 23-2482		Schedule 80 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2442)		
23 21 13 23-2483	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees	37.10	18.77
		For Work In Restricted Working Space, Add	8.44	
		For Threaded Fittings, Add	4.22	
23 21 13 23-2484	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Tees	45.25	23.88
		For Work In Restricted Working Space, Add	10.75	
		For Threaded Fittings, Add	5.37	
23 21 13 23-2485	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Tees	59.04	31.54
		For Work In Restricted Working Space, Add	14.18	
		For Threaded Fittings, Add	7.09	
23 21 13 23-2486	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Tees	92.57	40.09
		For Work In Restricted Working Space, Add	18.01	
		For Threaded Fittings, Add	9.00	
23 21 13 23-2487	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees	104.19	47.76
		For Work In Restricted Working Space, Add	21.50	
		For Threaded Fittings, Add	10.75	
23 21 13 23-2488	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Tees	129.58	59.31
		For Work In Restricted Working Space, Add	26.66	
		For Threaded Fittings, Add	13.33	
23 21 13 23-2489	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees	161.22	77.97
		For Work In Restricted Working Space, Add	35.07	
		For Threaded Fittings, Add	17.54	
23 21 13 23-2490	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Tees	194.13	92.63
		For Work In Restricted Working Space, Add	41.65	
		For Threaded Fittings, Add	20.82	
23 21 13 23-2491	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Tees	249.22	123.51
		For Work In Restricted Working Space, Add	55.53	
		For Threaded Fittings, Add	27.77	
23 21 13 23-2492	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Tees	457.87	159.27
		For Work In Restricted Working Space, Add	71.66	
		For Threaded Fittings, Add	35.83	
23 21 13 23-2493	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Tees	804.16	197.59
		For Work In Restricted Working Space, Add	88.85	
		For Threaded Fittings, Add	44.43	
23 21 13 23-2494	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Tees	1,937.55	295.20
		For Work In Restricted Working Space, Add	132.79	
		For Threaded Fittings, Add	66.39	
23 21 13 23-2495		Schedule 80 Polyvinyl Chloride (PVC) Crosses (23 21 13 23-2442)		
23 21 13 23-2496	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses	49.23	23.43
		For Work In Restricted Working Space, Add	10.55	
		For Threaded Fittings, Add	5.27	
23 21 13 23-2497	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses	59.54	29.88
		For Work In Restricted Working Space, Add	13.43	
		For Threaded Fittings, Add	6.72	
23 21 13 23-2498	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Crosses	77.53	39.43
		For Work In Restricted Working Space, Add	17.72	
		For Threaded Fittings, Add	8.86	
23 21 13 23-2499	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses	126.05	50.09
		For Work In Restricted Working Space, Add	22.52	
		For Threaded Fittings, Add	11.26	
23 21 13 23-2500	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses	140.57	59.75
		For Work In Restricted Working Space, Add	26.87	
		For Threaded Fittings, Add	13.44	
23 21 13 23-2501	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Crosses	174.91	74.08
		For Work In Restricted Working Space, Add	33.32	
		For Threaded Fittings, Add	16.66	
23 21 13 23-2502	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses	215.61	97.52
		For Work In Restricted Working Space, Add	43.84	
		For Threaded Fittings, Add	21.92	
23 21 13 23-2503	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Crosses	260.23	115.73
		For Work In Restricted Working Space, Add	52.06	
		For Threaded Fittings, Add	26.03	
23 21 13 23-2504	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Crosses	331.89	154.37
		For Work In Restricted Working Space, Add	69.42	
		For Threaded Fittings, Add	34.71	
23 21 13 23-2505	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Crosses	641.77	199.03
		For Work In Restricted Working Space, Add	89.53	
		For Threaded Fittings, Add	44.76	
23 21 13 23-2506	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Crosses	1,166.35	246.78
		For Work In Restricted Working Space, Add	111.01	
		For Threaded Fittings, Add	55.50	
23 21 13 23-2507	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Crosses	2,897.00	369.17
		For Work In Restricted Working Space, Add	166.07	
		For Threaded Fittings, Add	83.03	
23 21 13 23-2508		Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts (23 21 13 23-2442)		
23 21 13 23-2509	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	25.72	15.88
		For Work In Restricted Working Space, Add	7.17	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2510 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	34.94 8.89	19.77
23 21 13 23-2511 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	50.28 12.57	27.99
23 21 13 23-2512 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	58.68 14.18	31.54
23 21 13 23-2513 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	76.34 18.01	40.09
23 21 13 23-2514 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	117.11 26.66	59.31
23 21 13 23-2515 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	161.83 35.07	77.97
23 21 13 23-2516 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	201.10 41.65	92.63
23 21 13 23-2517 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	227.74 47.60	105.84
23 21 13 23-2518 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	338.43 55.53	123.51
23 21 13 23-2519 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	542.97 64.51	143.39
23 21 13 23-2520 Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2442)		
23 21 13 23-2521 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	18.53 5.38	11.99
23 21 13 23-2522 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	27.29 7.17	15.88
23 21 13 23-2523 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	34.94 8.89	19.77
23 21 13 23-2524 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	52.72 12.57	27.99
23 21 13 23-2525 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	60.87 14.18	31.54
23 21 13 23-2526 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	76.69 18.01	40.09
23 21 13 23-2527 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	124.08 26.66	59.31
23 21 13 23-2528 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	182.15 35.07	77.97
23 21 13 23-2529 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	239.13 41.65	92.63
23 21 13 23-2530 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2442)		
23 21 13 23-2531 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	25.33 5.38	11.99
23 21 13 23-2532 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	32.09 7.17	15.88
23 21 13 23-2533 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	43.92 8.89	19.77
23 21 13 23-2534 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	58.66 12.57	27.99
23 21 13 23-2535 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	71.33 14.18	31.54
23 21 13 23-2536 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	91.43 18.01	40.09
23 21 13 23-2537 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	124.61 26.66	59.31
23 21 13 23-2538 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	156.59 35.07	77.97
23 21 13 23-2539 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	209.39 41.65	92.63
23 21 13 23-2540 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2442)		
23 21 13 23-2541 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	23.33 5.38	11.99
23 21 13 23-2542 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	31.91 7.17	15.88
23 21 13 23-2543 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	41.48 8.89	19.77
23 21 13 23-2544 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	61.18 12.57	27.99
23 21 13 23-2545 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	70.90 14.18	31.54
23 21 13 23-2546 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	101.20 18.01	40.09
23 21 13 23-2547 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	153.91 26.66	59.31
23 21 13 23-2548 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	190.17 35.07	77.97

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2549	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....	264.77		92.63
		For Work In Restricted Working Space, Add	41.65		
23 21 13 23-2550 Schedule 80 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2442)					
23 21 13 23-2551	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....	23.68		11.99
		For Work In Restricted Working Space, Add	5.38		
		For Threaded Fittings, Add	2.69		
23 21 13 23-2552	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....	31.65		15.88
		For Work In Restricted Working Space, Add	7.17		
		For Threaded Fittings, Add	3.58		
23 21 13 23-2553	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Couplings	37.64		19.77
		For Work In Restricted Working Space, Add	8.89		
		For Threaded Fittings, Add	4.44		
23 21 13 23-2554	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings	54.21		27.99
		For Work In Restricted Working Space, Add	12.57		
		For Threaded Fittings, Add	6.29		
23 21 13 23-2555	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings	60.52		31.54
		For Work In Restricted Working Space, Add	14.18		
		For Threaded Fittings, Add	7.09		
23 21 13 23-2556	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Couplings	74.16		40.09
		For Work In Restricted Working Space, Add	18.01		
		For Threaded Fittings, Add	9.00		
23 21 13 23-2557	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings	123.82		59.31
		For Work In Restricted Working Space, Add	26.66		
		For Threaded Fittings, Add	13.33		
23 21 13 23-2558	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Couplings	157.12		77.97
		For Work In Restricted Working Space, Add	35.07		
		For Threaded Fittings, Add	17.54		
23 21 13 23-2559	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Couplings	189.24		92.63
		For Work In Restricted Working Space, Add	41.65		
		For Threaded Fittings, Add	20.82		
23 21 13 23-2560	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Couplings	267.08		105.84
		For Work In Restricted Working Space, Add	47.60		
		For Threaded Fittings, Add	23.80		
23 21 13 23-2561	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Couplings	332.68		123.51
		For Work In Restricted Working Space, Add	55.53		
		For Threaded Fittings, Add	27.77		
23 21 13 23-2562	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Couplings	634.49		132.39
		For Work In Restricted Working Space, Add	59.52		
		For Threaded Fittings, Add	29.76		
23 21 13 23-2563 Schedule 80 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2442)					
23 21 13 23-2564	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions	42.53		19.77
		For Work In Restricted Working Space, Add	8.89		
23 21 13 23-2565	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Unions	50.74		23.88
		For Work In Restricted Working Space, Add	10.75		
23 21 13 23-2566	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Unions	64.27		31.54
		For Work In Restricted Working Space, Add	14.18		
23 21 13 23-2567	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Unions	102.59		40.09
		For Work In Restricted Working Space, Add	18.01		
23 21 13 23-2568	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions	126.42		47.76
		For Work In Restricted Working Space, Add	21.50		
23 21 13 23-2569	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Unions	163.07		59.31
		For Work In Restricted Working Space, Add	26.66		
23 21 13 23-2570	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions	255.11		77.97
		For Work In Restricted Working Space, Add	35.07		
23 21 13 23-2571	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Unions	316.96		92.63
		For Work In Restricted Working Space, Add	41.65		
23 21 13 23-2572	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Unions	400.79		123.51
		For Work In Restricted Working Space, Add	55.53		
23 21 13 23-2573	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Unions	527.17		159.27
		For Work In Restricted Working Space, Add	71.63		
23 21 13 23-2574	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Unions	771.86		197.47
		For Work In Restricted Working Space, Add	88.80		
23 21 13 23-2575	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Unions	1,151.32		244.79
		For Work In Restricted Working Space, Add	110.10		
23 21 13 23-2576 Schedule 80 Polyvinyl Chloride (PVC) Threaded Unions (23 21 13 23-2442)					
23 21 13 23-2577	EA	1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	44.91		24.68
23 21 13 23-2578	EA	3/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	53.81		28.54
23 21 13 23-2579	EA	1", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	65.31		33.66
23 21 13 23-2580	EA	1-1/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union	88.24		40.09
23 21 13 23-2581	EA	1-1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union	106.42		47.76
23 21 13 23-2582	EA	2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	141.94		59.31
23 21 13 23-2583	EA	3", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	306.80		114.95
23 21 13 23-2584	EA	4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	332.19		127.51
23 21 13 23-2585 Schedule 80 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2442)					

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2586	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps	16.18	5.33
		For Work In Restricted Working Space, Add	2.42	
		For Threaded Fittings, Add	1.21	
23 21 13 23-2587	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Caps	19.31	7.11
		For Work In Restricted Working Space, Add	3.23	
		For Threaded Fittings, Add	1.61	
23 21 13 23-2588	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Caps	28.49	8.77
		For Work In Restricted Working Space, Add	4.00	
		For Threaded Fittings, Add	2.00	
23 21 13 23-2589	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Caps	37.18	12.44
		For Work In Restricted Working Space, Add	5.66	
		For Threaded Fittings, Add	2.83	
23 21 13 23-2590	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps	39.59	14.00
		For Work In Restricted Working Space, Add	6.38	
		For Threaded Fittings, Add	3.19	
23 21 13 23-2591	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Caps	54.48	17.89
		For Work In Restricted Working Space, Add	8.10	
		For Threaded Fittings, Add	4.05	
23 21 13 23-2592	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps	96.41	26.44
		For Work In Restricted Working Space, Add	11.99	
		For Threaded Fittings, Add	6.00	
23 21 13 23-2593	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Caps	121.60	34.76
		For Work In Restricted Working Space, Add	15.78	
		For Threaded Fittings, Add	7.89	
23 21 13 23-2594	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Caps	173.41	41.21
		For Work In Restricted Working Space, Add	18.74	
		For Threaded Fittings, Add	9.37	
23 21 13 23-2595	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Caps	347.01	47.09
		For Work In Restricted Working Space, Add	21.42	
		For Threaded Fittings, Add	10.71	
23 21 13 23-2596	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Caps	461.91	54.98
		For Work In Restricted Working Space, Add	24.99	
		For Threaded Fittings, Add	12.50	
23 21 13 23-2597	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Caps	821.33	81.97
		For Work In Restricted Working Space, Add	37.26	
		For Threaded Fittings, Add	18.63	
23 21 13 23-2598 Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges (23 21 13 23-2442)				
23 21 13 23-2599	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	54.65	19.77
		For Work In Restricted Working Space, Add	8.89	
		For Threaded Fittings, Add	4.44	
23 21 13 23-2600	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	62.69	23.88
		For Work In Restricted Working Space, Add	10.75	
		For Threaded Fittings, Add	5.37	
23 21 13 23-2601	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	77.18	31.54
		For Work In Restricted Working Space, Add	14.18	
		For Threaded Fittings, Add	7.09	
23 21 13 23-2602	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	90.82	40.09
		For Work In Restricted Working Space, Add	18.01	
		For Threaded Fittings, Add	9.00	
23 21 13 23-2603	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	103.14	47.76
		For Work In Restricted Working Space, Add	21.50	
		For Threaded Fittings, Add	10.75	
23 21 13 23-2604	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	130.71	59.31
		For Work In Restricted Working Space, Add	26.66	
		For Threaded Fittings, Add	13.33	
23 21 13 23-2605	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	181.54	77.97
		For Work In Restricted Working Space, Add	35.07	
		For Threaded Fittings, Add	17.54	
23 21 13 23-2606	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	210.17	92.63
		For Work In Restricted Working Space, Add	41.65	
		For Threaded Fittings, Add	20.82	
23 21 13 23-2607	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	275.47	123.51
		For Work In Restricted Working Space, Add	55.53	
		For Threaded Fittings, Add	27.77	
23 21 13 23-2608	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	380.83	159.27
		For Work In Restricted Working Space, Add	71.63	
		For Threaded Fittings, Add	35.81	
23 21 13 23-2609	EA	8" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	616.53	197.47
		For Work In Restricted Working Space, Add	88.80	
		For Threaded Fittings, Add	44.40	
23 21 13 23-2610	EA	10" Schedule 80 Polyvinyl Chloride (PVC) 150 Lb. Flanges	1,089.39	244.79
		For Work In Restricted Working Space, Add	110.10	
		For Threaded Fittings, Add	55.05	
23 21 13 23-2611 Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2279)				
Note: In place pipe.				
23 21 13 23-2612	EA	1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe	6.03	
		For Work In Restricted Working Space, Add	1.81	
23 21 13 23-2613	EA	3/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe	6.51	
		For Work In Restricted Working Space, Add	1.95	
23 21 13 23-2614	EA	1", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe	7.33	
		For Work In Restricted Working Space, Add	2.20	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Piping and Pumps			23 20
Hydronic Piping and Pumps			23 21

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2615	EA	1-1/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	7.69 2.31	
23 21 13 23-2616	EA	1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	8.14 2.44	
23 21 13 23-2617	EA	2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	8.96 2.69	
23 21 13 23-2618	EA	2-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	9.65 2.90	
23 21 13 23-2619	EA	3", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	11.39 3.42	
23 21 13 23-2620	EA	4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	15.38 4.61	
23 21 13 23-2621	EA	6", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	21.97 6.59	
23 21 13 23-2622	EA	8", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	29.31 8.79	
23 21 13 23-2623	EA	10", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	35.83 10.75	
23 21 13 23-2624		Polyvinylidene Fluoride (PVDF), Socket Weld (23 21 13 23)		
23 21 13 23-2625		Pipe (23 21 13 23-2624)		
23 21 13 23-2626	LF	1/2" Pipe Schedule 40 Polyvinylidene Fluoride (PVDF) Socket Weld.....	60.17	3.22
23 21 13 23-2627	LF	3/4" Pipe Schedule 40 Polyvinylidene Fluoride (PVDF) Socket Weld.....	80.81	4.00
23 21 13 23-2628	LF	1" Pipe Schedule 40 Polyvinylidene Fluoride (PVDF) Socket Weld.....	115.41	4.22
23 21 13 23-2629	LF	1-1/2" Schedule 40 Polyvinylidene Fluoride (PVDF) Socket Weld.....	162.71	4.66
23 21 13 23-2630	LF	2" Pipe Schedule 40 Polyvinylidene Fluoride (PVDF) Socket Weld.....	206.48	5.55
23 21 13 23-2631		90 Degree Elbows (23 21 13 23-2624)		
23 21 13 23-2632	EA	1/2" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	48.15	11.88
23 21 13 23-2633	EA	3/4" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	64.30	15.88
23 21 13 23-2634	EA	1" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	106.62	19.77
23 21 13 23-2635	EA	1-1/2" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	185.15	31.54
23 21 13 23-2636	EA	2" 90 Degree Elbow, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	241.44	40.09
23 21 13 23-2637		45 Degree Elbows (23 21 13 23-2624)		
23 21 13 23-2638	EA	1/2" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	55.78	11.99
23 21 13 23-2639	EA	3/4" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	75.03	15.88
23 21 13 23-2640	EA	1" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	106.62	19.77
23 21 13 23-2641	EA	1-1/2" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	159.44	31.54
23 21 13 23-2642	EA	2" 45 Degree Elbow, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	234.65	40.09
23 21 13 23-2643		Tees (23 21 13 23-2624)		
23 21 13 23-2644	EA	1/2" Tee, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	89.52	19.77
23 21 13 23-2645	EA	3/4" Tee, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	99.41	23.88
23 21 13 23-2646	EA	1" Tee, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	144.18	31.54
23 21 13 23-2647	EA	1-1/2" Tee, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	237.51	47.76
23 21 13 23-2648	EA	2" Tee, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	349.94	59.31
23 21 13 23-2649		Reducing Tees (23 21 13 23-2624)		
23 21 13 23-2650	EA	3/4" x 1/2" Reducing Tees, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	101.97	22.22
23 21 13 23-2651	EA	1" x 1/2" Reducing Insert, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	143.13	25.88
23 21 13 23-2652	EA	1" x 3/4" Reducing Insert, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	146.47	28.10
23 21 13 23-2653	EA	1-1/2" x 1" Reducing Tees, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	252.12	39.98
23 21 13 23-2654	EA	2" x 1-1/2" Reducing Tees, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	378.07	53.31
23 21 13 23-2655		Socket Weld Reducing Couplings (23 21 13 23-2624)		
23 21 13 23-2656	EA	3/4" x 1/2" Reducing Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	54.72	14.11
23 21 13 23-2657	EA	1" x 1/2" Reducing Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	70.21	16.32
23 21 13 23-2658	EA	1" x 3/4" Reducing Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	77.22	18.55
23 21 13 23-2659	EA	1-1/2" x 1/2" Reducing Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	118.09	22.22
23 21 13 23-2660	EA	1-1/2" x 3/4" Reducing Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	126.23	24.43
23 21 13 23-2661	EA	1-1/2" x 1" Reducing Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	128.44	25.88
23 21 13 23-2662	EA	2" x 1-1/2" Reducing Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	181.01	36.32
23 21 13 23-2663		Male Adapters, Socket Weld X Male Thread (23 21 13 23-2624)		
23 21 13 23-2664	EA	1/2" Male Adapter, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	77.82	11.99
23 21 13 23-2665	EA	3/4" Male Adapter, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	99.33	15.88
23 21 13 23-2666	EA	1" Male Adapter, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	114.39	19.77
23 21 13 23-2667	EA	1-1/2" Male Adapter, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld	146.72	31.54
23 21 13 23-2668	EA	2" Male Adapter, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	199.28	39.98

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2669	Female Adapters, Socket Weld X Female Thread (23 21 13 23-2624)			
23 21 13 23-2670	EA	1/2" Female Adapter, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	77.82	11.99
23 21 13 23-2671	EA	3/4" Female Adapter, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	99.62	15.88
23 21 13 23-2672	EA	1" Female Adapter, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	114.39	19.77
23 21 13 23-2673	EA	1-1/2" Female Adapter, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	146.72	31.54
23 21 13 23-2674	EA	2" Female Adapter, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	199.33	40.09
23 21 13 23-2675	Socket Weld Couplings (23 21 13 23-2624)			
23 21 13 23-2676	EA	1/2" Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	39.11	11.99
23 21 13 23-2677	EA	3/4" Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	50.17	15.88
23 21 13 23-2678	EA	1" Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	64.94	19.77
23 21 13 23-2679	EA	1-1/2" Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	120.73	31.54
23 21 13 23-2680	EA	2" Coupling, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	165.99	40.09
23 21 13 23-2681	Socket Weld Unions (23 21 13 23-2624)			
23 21 13 23-2682	EA	1/2" Union, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	161.01	19.77
23 21 13 23-2683	EA	3/4" Union, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	192.93	23.88
23 21 13 23-2684	EA	1" Union, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	278.11	31.54
23 21 13 23-2685	EA	1-1/2" Union, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	488.43	47.76
23 21 13 23-2686	EA	2" Union, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	601.70	59.31
23 21 13 23-2687	Caps (23 21 13 23-2624)			
23 21 13 23-2688	EA	1/2" Cap, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	29.92	5.96
23 21 13 23-2689	EA	3/4" Cap, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	42.32	7.96
23 21 13 23-2690	EA	1" Cap, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	53.20	9.84
23 21 13 23-2691	EA	1-1/2" Cap, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	94.28	15.74
23 21 13 23-2692	EA	2" Cap, Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	133.97	19.97
23 21 13 23-2693	150 Lb. Socket Weld Flanges (23 21 13 23-2624)			
23 21 13 23-2694	EA	1/2" Flange, 150 Lb. Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	109.02	19.99
23 21 13 23-2695	EA	3/4" Flange, 150 Lb. Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	137.55	23.66
23 21 13 23-2696	EA	1" Flange, 150 Lb. Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	181.19	31.87
23 21 13 23-2697	EA	1-1/2" Flange, 150 Lb. Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	260.97	48.20
23 21 13 23-2698	EA	2" Flange, 150 Lb. Polyvinylidene Fluoride (PVDF) Schedule 40 Socket Weld.....	413.80	59.31
23 21 13 23-2699	Polyethylene Pipe And Fittings (23 21 13 23)			
23 21 13 23-2700	Small Diameter Tubing (23 21 13 23-2699)			
23 21 13 23-2701	Tubing (23 21 13 23-2700)			
23 21 13 23-2702	LF	1/4" Polyethylene Tubing.....	3.58	
		<i>For Work In Restricted Working Space, Add</i>	1.01	
23 21 13 23-2703	LF	5/16" Polyethylene Tubing.....	3.85	
		<i>For Work In Restricted Working Space, Add</i>	1.03	
23 21 13 23-2704	LF	3/8" Polyethylene Tubing.....	4.05	
		<i>For Work In Restricted Working Space, Add</i>	1.05	
23 21 13 23-2705	LF	1/2" Polyethylene Tubing.....	4.19	
		<i>For Work In Restricted Working Space, Add</i>	1.13	
23 21 13 23-2706	Chrome Plated Pipe (23 21 13 23)			
23 21 13 23-2707	Chrome Plated Nipples (23 21 13 23-2706)			
23 21 13 23-2708	Close (23 21 13 23-2707)			
23 21 13 23-2709	EA	1/4" Diameter Chrome Plated Nipple, Close.....	20.74	9.65
23 21 13 23-2710	EA	3/8" Diameter Chrome Plated Nipple, Close.....	20.08	10.49
23 21 13 23-2711	EA	1/2" Diameter Chrome Plated Nipple, Close.....	24.76	12.06
23 21 13 23-2712	EA	3/4" Diameter Chrome Plated Nipple, Close.....	32.38	15.32
23 21 13 23-2713	EA	1" Diameter Chrome Plated Nipple, Close.....	43.28	20.14
23 21 13 23-2714	EA	1-1/4" Diameter Chrome Plated Nipple, Close.....	61.24	28.10
23 21 13 23-2715	EA	1-1/2" Diameter Chrome Plated Nipple, Close.....	74.45	32.93
23 21 13 23-2716	EA	2" Diameter Chrome Plated Nipple, Close.....	95.65	41.01
23 21 13 23-2717	1-1/2" Nipples (23 21 13 23-2707)			
23 21 13 23-2718	EA	1/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	22.10	10.02
23 21 13 23-2719	EA	3/8" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	21.16	10.85
23 21 13 23-2720	EA	1/2" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	25.39	12.42
23 21 13 23-2721	EA	3/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	33.49	15.68
23 21 13 23-2722	2" Nipples (23 21 13 23-2707)			
23 21 13 23-2723	EA	1/4" Diameter, 2" Length, Chrome Plated Nipple.....	22.98	10.49
23 21 13 23-2724	EA	3/8" Diameter, 2" Length, Chrome Plated Nipple.....	21.90	11.21



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Piping and Pumps			23 20
Hydronic Piping and Pumps			23 21



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2725	EA		1/2" Diameter, 2" Length, Chrome Plated Nipple.....	27.25	12.90
23 21 13 23-2726	EA		3/4" Diameter, 2" Length, Chrome Plated Nipple.....	35.09	16.05
23 21 13 23-2727	EA		1" Diameter, 2" Length, Chrome Plated Nipple.....	45.71	20.87
23 21 13 23-2728	EA		1-1/4" Diameter, 2" Length, Chrome Plated Nipple.....	65.11	28.95
23 21 13 23-2729	EA		1-1/2" Diameter, 2" Length, Chrome Plated Nipple.....	78.90	33.77
23 21 13 23-2730 2-1/2" Nipples (23 21 13 23-2707)					
23 21 13 23-2731	EA		1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	24.26	10.85
23 21 13 23-2732	EA		3/8" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	22.69	11.70
23 21 13 23-2733	EA		1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	28.40	13.27
23 21 13 23-2734	EA		3/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	35.94	16.53
23 21 13 23-2735	EA		1" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	46.97	21.35
23 21 13 23-2736	EA		1-1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	68.75	29.31
23 21 13 23-2737	EA		1-1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	83.73	34.13
23 21 13 23-2738	EA		2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	106.27	42.22
23 21 13 23-2739 3" Nipples (23 21 13 23-2707)					
23 21 13 23-2740	EA		1/4" Diameter, 3" Length, Chrome Plated Nipple.....	25.26	11.21
23 21 13 23-2741	EA		3/8" Diameter, 3" Length, Chrome Plated Nipple.....	23.99	12.06
23 21 13 23-2742	EA		1/2" Diameter, 3" Length, Chrome Plated Nipple.....	27.98	12.90
23 21 13 23-2743	EA		3/4" Diameter, 3" Length, Chrome Plated Nipple.....	38.61	16.89
23 21 13 23-2744	EA		1" Diameter, 3" Length, Chrome Plated Nipple.....	52.35	21.71
23 21 13 23-2745	EA		1-1/4" Diameter, 3" Length, Chrome Plated Nipple.....	72.72	29.80
23 21 13 23-2746	EA		1-1/2" Diameter, 3" Length, Chrome Plated Nipple.....	95.03	34.62
23 21 13 23-2747	EA		2" Diameter, 3" Length, Chrome Plated Nipple.....	115.14	42.70
23 21 13 23-2748 3-1/2" Nipples (23 21 13 23-2707)					
23 21 13 23-2749	EA		1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	26.39	11.70
23 21 13 23-2750	EA		3/8" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	26.13	12.42
23 21 13 23-2751	EA		1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	30.82	14.11
23 21 13 23-2752	EA		3/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	42.54	17.24
23 21 13 23-2753	EA		1" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	54.48	22.07
23 21 13 23-2754	EA		1-1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	80.45	30.16
23 21 13 23-2755	EA		1-1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	98.46	34.98
23 21 13 23-2756	EA		2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	122.21	43.06
23 21 13 23-2757 4" Nipples (23 21 13 23-2707)					
23 21 13 23-2758	EA		1/4" Diameter, 4" Length, Chrome Plated Nipple.....	27.51	12.06
23 21 13 23-2759	EA		3/8" Diameter, 4" Length, Chrome Plated Nipple.....	26.80	12.90
23 21 13 23-2760	EA		1/2" Diameter, 4" Length, Chrome Plated Nipple.....	30.99	13.63
23 21 13 23-2761	EA		3/4" Diameter, 4" Length, Chrome Plated Nipple.....	44.13	17.73
23 21 13 23-2762	EA		1" Diameter, 4" Length, Chrome Plated Nipple.....	56.51	22.56
23 21 13 23-2763	EA		1-1/4" Diameter, 4" Length, Chrome Plated Nipple.....	86.34	30.51
23 21 13 23-2764	EA		1-1/2" Diameter, 4" Length, Chrome Plated Nipple.....	105.44	35.34
23 21 13 23-2765	EA		2" Diameter, 4" Length, Chrome Plated Nipple.....	130.82	43.43
23 21 13 23-2766 4-1/2" Nipples (23 21 13 23-2707)					
23 21 13 23-2767	EA		1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	28.51	12.42
23 21 13 23-2768	EA		3/8" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	28.95	13.27
23 21 13 23-2769	EA		1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	33.96	14.84
23 21 13 23-2770	EA		3/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	45.95	18.09
23 21 13 23-2771	EA		1" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	63.32	22.92
23 21 13 23-2772	EA		1-1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	92.01	30.99
23 21 13 23-2773	EA		1-1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	108.60	35.83
23 21 13 23-2774	EA		2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	138.75	43.91
23 21 13 23-2775 5" Nipples (23 21 13 23-2707)					
23 21 13 23-2776	EA		1/4" Diameter, 5" Length, Chrome Plated Nipple.....	31.79	12.90
23 21 13 23-2777	EA		3/8" Diameter, 5" Length, Chrome Plated Nipple.....	30.33	13.63
23 21 13 23-2778	EA		1/2" Diameter, 5" Length, Chrome Plated Nipple.....	35.17	15.32
23 21 13 23-2779	EA		3/4" Diameter, 5" Length, Chrome Plated Nipple.....	47.69	18.45
23 21 13 23-2780	EA		1" Diameter, 5" Length, Chrome Plated Nipple.....	67.49	23.28
23 21 13 23-2781	EA		1-1/4" Diameter, 5" Length, Chrome Plated Nipple.....	97.16	31.36
23 21 13 23-2782	EA		1-1/2" Diameter, 5" Length, Chrome Plated Nipple.....	115.61	36.19
23 21 13 23-2783	EA		2" Diameter, 5" Length, Chrome Plated Nipple.....	143.89	44.26
23 21 13 23-2784 5-1/2" Nipples (23 21 13 23-2707)					
23 21 13 23-2785	EA		1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	32.82	13.27
23 21 13 23-2786	EA		3/8" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	31.42	14.11
23 21 13 23-2787	EA		1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	38.42	15.68
23 21 13 23-2788	EA		3/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	49.44	18.93
23 21 13 23-2789	EA		1" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	69.71	23.76
23 21 13 23-2790	EA		1-1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	103.38	31.72

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2791	EA	1-1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	121.21	36.55
23 21 13 23-2792	EA	2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	150.43	44.62
23 21 13 23-2793		6" Nipples (23 21 13 23-2707)		
23 21 13 23-2794	EA	1/4" Diameter, 6" Length, Chrome Plated Nipple.....	34.03	13.63
23 21 13 23-2795	EA	3/8" Diameter, 6" Length, Chrome Plated Nipple.....	32.06	14.48
23 21 13 23-2796	EA	1/2" Diameter, 6" Length, Chrome Plated Nipple.....	39.54	16.05
23 21 13 23-2797	EA	3/4" Diameter, 6" Length, Chrome Plated Nipple.....	50.87	19.30
23 21 13 23-2798	EA	1" Diameter, 6" Length, Chrome Plated Nipple.....	76.32	24.12
23 21 13 23-2799	EA	1-1/4" Diameter, 6" Length, Chrome Plated Nipple.....	107.24	32.20
23 21 13 23-2800	EA	1-1/2" Diameter, 6" Length, Chrome Plated Nipple.....	129.80	37.03
23 21 13 23-2801	EA	2" Diameter, 6" Length, Chrome Plated Nipple.....	156.43	45.11
23 21 13 23-2802		8" Nipples (23 21 13 23-2707)		
23 21 13 23-2803	EA	3/8" Diameter, 8" Length, Chrome Plated Nipple.....	38.00	15.32
23 21 13 23-2804	EA	1/2" Diameter, 8" Length, Chrome Plated Nipple.....	55.47	16.89
23 21 13 23-2805	EA	3/4" Diameter, 8" Length, Chrome Plated Nipple.....	67.39	20.14
23 21 13 23-2806	EA	1" Diameter, 8" Length, Chrome Plated Nipple.....	89.36	24.96
23 21 13 23-2807	EA	1-1/4" Diameter, 8" Length, Chrome Plated Nipple.....	127.86	32.93
23 21 13 23-2808	EA	1-1/2" Diameter, 8" Length, Chrome Plated Nipple.....	156.73	37.75
23 21 13 23-2809	EA	2" Diameter, 8" Length, Chrome Plated Nipple.....	193.02	45.83
23 21 13 23-2810		10" Nipples (23 21 13 23-2707)		
23 21 13 23-2811	EA	3/8" Diameter, 10" Length, Chrome Plated Nipple.....	43.56	15.32
23 21 13 23-2812	EA	1/2" Diameter, 10" Length, Chrome Plated Nipple.....	62.48	16.89
23 21 13 23-2813	EA	3/4" Diameter, 10" Length, Chrome Plated Nipple.....	75.50	20.14
23 21 13 23-2814	EA	1" Diameter, 10" Length, Chrome Plated Nipple.....	101.62	24.96
23 21 13 23-2815	EA	1-1/4" Diameter, 10" Length, Chrome Plated Nipple.....	154.11	32.93
23 21 13 23-2816	EA	1-1/2" Diameter, 10" Length, Chrome Plated Nipple.....	176.72	37.75
23 21 13 23-2817	EA	2" Diameter, 10" Length, Chrome Plated Nipple.....	224.99	45.83
23 21 13 23-2818		12" Nipples (23 21 13 23-2707)		
23 21 13 23-2819	EA	3/8" Diameter, 12" Length, Chrome Plated Nipple.....	48.58	16.89
23 21 13 23-2820	EA	1/2" Diameter, 12" Length, Chrome Plated Nipple.....	65.40	17.73
23 21 13 23-2821	EA	3/4" Diameter, 12" Length, Chrome Plated Nipple.....	83.24	20.87
23 21 13 23-2822	EA	1" Diameter, 12" Length, Chrome Plated Nipple.....	118.97	26.53
23 21 13 23-2823	EA	1-1/4" Diameter, 12" Length, Chrome Plated Nipple.....	172.62	34.62
23 21 13 23-2824	EA	2" Diameter, 12" Length, Chrome Plated Nipple.....	253.01	47.52
23 21 13 23-2825		18" Nipples (23 21 13 23-2707)		
23 21 13 23-2826	EA	3/8" Diameter, 18" Length, Chrome Plated Nipple.....	61.50	17.73
23 21 13 23-2827		24" Nipples (23 21 13 23-2707)		
23 21 13 23-2828	EA	3/8" Diameter, 24" Length, Chrome Plated Nipple.....	73.86	18.45
23 21 13 23-2829		30" Nipples (23 21 13 23-2707)		
23 21 13 23-2830	EA	3/8" Diameter, 30" Length, Chrome Plated Nipple.....	81.78	19.30
23 21 13 23-2831		36" Nipples (23 21 13 23-2707)		
23 21 13 23-2832	EA	3/8" Diameter, 36" Length, Chrome Plated Nipple.....	89.71	20.14
23 21 13 23-2833		Chrome Plated Fittings (23 21 13 23-2706)		
23 21 13 23-2834		Chrome Plated 90 Degree Elbows (23 21 13 23-2833)		
23 21 13 23-2835	EA	1/4" 90 Degree Elbow, Chrome Plated.....	26.23	11.21
23 21 13 23-2836	EA	3/8" 90 Degree Elbow, Chrome Plated.....	26.83	12.06
23 21 13 23-2837	EA	1/2" 90 Degree Elbow, Chrome Plated.....	30.10	12.90
23 21 13 23-2838	EA	3/4" 90 Degree Elbow, Chrome Plated.....	38.48	16.89
23 21 13 23-2839	EA	1" 90 Degree Elbow, Chrome Plated.....	52.09	21.71
23 21 13 23-2840	EA	1-1/4" 90 Degree Elbow, Chrome Plated.....	79.62	29.80
23 21 13 23-2841	EA	1-1/2" 90 Degree Elbow, Chrome Plated.....	95.49	34.62
23 21 13 23-2842	EA	2" 90 Degree Elbow, Chrome Plated.....	130.10	42.70
23 21 13 23-2843		Chrome Plated Street 90 Degree Elbows (23 21 13 23-2833)		
23 21 13 23-2844	EA	1/4" Street 90 Degree Elbow, Chrome Plated.....	30.14	11.21
23 21 13 23-2845	EA	3/8" Street 90 Degree Elbow, Chrome Plated.....	31.13	12.06
23 21 13 23-2846	EA	1/2" Street 90 Degree Elbow, Chrome Plated.....	33.09	12.90
23 21 13 23-2847	EA	3/4" Street 90 Degree Elbow, Chrome Plated.....	42.89	16.89
23 21 13 23-2848	EA	1" Street 90 Degree Elbow, Chrome Plated.....	60.21	21.71



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2849	EA	1-1/4" Street 90 Degree Elbow, Chrome Plated	87.95		29.80
23 21 13 23-2850	EA	1-1/2" Street 90 Degree Elbow, Chrome Plated	107.16		34.62
23 21 13 23-2851	EA	2" Street 90 Degree Elbow, Chrome Plated.....	157.55		42.70
23 21 13 23-2852 Chrome Plated 45 Degree Elbows (23 21 13 23-2833)					
23 21 13 23-2853	EA	1/4" 45 Degree Elbow, Chrome Plated	27.09		11.21
23 21 13 23-2854	EA	3/8" 45 Degree Elbow, Chrome Plated	28.07		12.06
23 21 13 23-2855	EA	1/2" 45 Degree Elbow, Chrome Plated	30.99		12.90
23 21 13 23-2856	EA	3/4" 45 Degree Elbow, Chrome Plated	41.84		16.89
23 21 13 23-2857	EA	1" 45 Degree Elbow, Chrome Plated	55.85		21.71
23 21 13 23-2858	EA	1-1/4" 45 Degree Elbow, Chrome Plated	84.15		29.80
23 21 13 23-2859	EA	1-1/2" 45 Degree Elbow, Chrome Plated	101.54		34.62
23 21 13 23-2860	EA	2" 45 Degree Elbow, Chrome Plated	146.71		42.70
23 21 13 23-2861 Chrome Plated Street 45 Degree Elbows (23 21 13 23-2833)					
23 21 13 23-2862	EA	1/2" Street 45 Degree Elbow, Chrome Plated.....	36.37		12.90
23 21 13 23-2863 Chrome Plated Couplings (23 21 13 23-2833)					
23 21 13 23-2864	EA	1/4" Coupling, Chrome Plated	25.69		11.21
23 21 13 23-2865	EA	3/8" Coupling, Chrome Plated	26.90		12.06
23 21 13 23-2866	EA	1/2" Coupling, Chrome Plated	30.32		12.90
23 21 13 23-2867	EA	3/4" Coupling, Chrome Plated	38.57		16.89
23 21 13 23-2868	EA	1" Coupling, Chrome Plated	50.23		21.71
23 21 13 23-2869	EA	1-1/4" Coupling, Chrome Plated	72.86		29.80
23 21 13 23-2870	EA	1-1/2" Coupling, Chrome Plated	89.83		34.62
23 21 13 23-2871	EA	2" Coupling, Chrome Plated	123.17		42.70
23 21 13 23-2872 Chrome Plated Unions (23 21 13 23-2833)					
23 21 13 23-2873	EA	1/4" Union, Chrome Plated	40.57		12.90
23 21 13 23-2874	EA	3/8" Union, Chrome Plated	41.80		13.63
23 21 13 23-2875	EA	1/2" Union, Chrome Plated	50.36		15.32
23 21 13 23-2876	EA	3/4" Union, Chrome Plated	62.60		20.14
23 21 13 23-2877	EA	1" Union, Chrome Plated	79.21		25.69
23 21 13 23-2878	EA	1-1/4" Union, Chrome Plated	127.52		34.62
23 21 13 23-2879	EA	1-1/2" Union, Chrome Plated	158.50		41.01
23 21 13 23-2880	EA	2" Union, Chrome Plated	206.35		49.94
23 21 13 23-2881 Chrome Plated Caps (23 21 13 23-2833)					
23 21 13 23-2882	EA	1/4" Cap, Chrome Plated.....	17.04		5.67
23 21 13 23-2883	EA	3/8" Cap, Chrome Plated	17.63		6.03
23 21 13 23-2884	EA	1/2" Cap, Chrome Plated	20.08		6.39
23 21 13 23-2885	EA	3/4" Cap, Chrome Plated	25.09		8.45
23 21 13 23-2886	EA	1" Cap, Chrome Plated	29.94		10.85
23 21 13 23-2887	EA	1-1/4" Cap, Chrome Plated.....	44.04		14.84
23 21 13 23-2888	EA	1-1/2" Cap, Chrome Plated.....	57.72		17.24
23 21 13 23-2889	EA	2" Cap, Chrome Plated	84.04		22.56
23 21 13 23-2890 Chrome Plated Plugs (23 21 13 23-2833)					
23 21 13 23-2891	EA	1/4" Plug, Chrome Plated	14.05		5.67
23 21 13 23-2892	EA	3/8" Plug, Chrome Plated	14.64		6.03
23 21 13 23-2893	EA	1/2" Plug, Chrome Plated	16.93		6.39
23 21 13 23-2894	EA	3/4" Plug, Chrome Plated	22.86		8.45
23 21 13 23-2895	EA	1" Plug, Chrome Plated	28.23		10.85
23 21 13 23-2896	EA	1-1/4" Plug, Chrome Plated	38.15		14.84
23 21 13 23-2897	EA	1-1/2" Plug, Chrome Plated	46.94		17.24
23 21 13 23-2898	EA	2" Plug, Chrome Plated	65.29		22.56
23 21 13 23-2899 Chrome Plated Tees (23 21 13 23-2833)					
23 21 13 23-2900	EA	1/4" Chrome Plated Tee	36.60		16.89
23 21 13 23-2901	EA	3/8" Chrome Plated Tee	39.01		18.45
23 21 13 23-2902	EA	1/2" Chrome Plated Tee	43.41		20.14
23 21 13 23-2903	EA	3/4" Chrome Plated Tee	54.06		24.96
23 21 13 23-2904	EA	1" Chrome Plated Tee	76.44		32.20
23 21 13 23-2905	EA	1-1/4" Chrome Plated Tee	105.38		44.26
23 21 13 23-2906	EA	1-1/2" Chrome Plated Tee	134.25		51.50
23 21 13 23-2907	EA	2" Chrome Plated Tee	183.27		63.57
23 21 13 23-2908 Chrome Plated Reducing 90 Degree Elbows (23 21 13 23-2833)					
23 21 13 23-2909	EA	1/2" x 3/8" Reducing 90 Degree Elbow, Chrome Plated.....	41.42		20.14
23 21 13 23-2910	EA	3/4" x 1/2" Reducing 90 Degree Elbow, Chrome Plated	48.66		24.96

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2911		Chrome Plated Bell Reducers (23 21 13 23-2833)		
23 21 13 23-2912	EA	1/2" x 3/8" Bell Reducer, Chrome Plated	45.04	20.14
23 21 13 23-2913	EA	3/4" x 1/2" Bell Reducer, Chrome Plated	54.88	24.96
23 21 13 23-2914	EA	1" x 1/2" Bell Reducer, Chrome Plated	69.79	32.20
23 21 13 23-2915		Chrome Plated Reducing Tees (23 21 13 23-2833)		
23 21 13 23-2916	EA	3/4" x 1/2" Reducing Tee, Chrome Plated	59.46	24.96
23 21 13 23-2917		Chrome Plated Bushings (23 21 13 23-2833)		
23 21 13 23-2918	EA	3/8" x 1/4" Bushing, Chrome Plated	13.96	5.67
23 21 13 23-2919	EA	1/2" x 1/4" Bushing, Chrome Plated	15.02	6.03
23 21 13 23-2920	EA	1/2" x 3/8" Bushing, Chrome Plated	15.63	6.39
23 21 13 23-2921	EA	3/4" x 1/2" Bushing, Chrome Plated	19.89	8.45
23 21 13 23-2922	EA	1" x 3/4" Bushing, Chrome Plated	28.81	10.85
23 21 13 23-2923	EA	1-1/4" x 1" Bushing, Chrome Plated	42.02	14.84
23 21 16		Hydronic Piping Specialties (23 21)		
23 21 16 00-0001		Air Vents (23 21 16)		
23 21 16 00-0002		Screwed Ends, Cast Iron, Automatic Air Vents (23 21 16 00-0001)		
Note: With guided free floating lever.				
23 21 16 00-0003	EA	1/2" NPT, Cast Iron, Automatic Air Vent	312.45	34.99
23 21 16 00-0004	EA	3/4" NPT, Cast Iron, Automatic Air Vent	382.97	46.45
23 21 16 00-0005	EA	1" NPT, Cast Iron, Automatic Air Vent	864.53	48.27
23 21 16 00-0006	EA	1-1/4" NPT, Cast Iron, Automatic Air Vent	1,282.36	74.57
23 21 16 00-0007	EA	1-1/2" NPT, Cast Iron, Automatic Air Vent	2,131.72	80.24
23 21 16 00-0008	EA	2" NPT, Cast Iron, Automatic Air Vent	2,449.75	105.82
23 21 16 00-0009		Forged Steel, Stainless Steel Internals, Automatic Air Vents (23 21 16 00-0001)		
Note: With guided free floating lever.				
23 21 16 00-0010	EA	1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	2,152.49	40.42
23 21 16 00-0011	EA	3/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	2,697.92	46.45
23 21 16 00-0012	EA	1" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	3,219.64	48.27
23 21 16 00-0013	EA	1-1/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	5,282.91	74.81
23 21 16 00-0014	EA	1-1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	6,101.92	80.24
23 21 16 00-0015	EA	2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	8,971.39	105.57
23 21 16 00-0016		Automatic Air Vent (23 21 16 00-0001)		
23 21 16 00-0017	EA	3/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	260.20	46.45
23 21 16 00-0018	EA	1" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	285.14	48.27
23 21 16 00-0019	EA	1-1/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	403.19	74.57
23 21 16 00-0020	EA	1-1/2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	499.57	80.24
23 21 16 00-0021	EA	2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	639.24	86.46
23 21 16 00-0022		Manual Air Vent (23 21 16 00-0001)		
23 21 16 00-0023	EA	Manual Air Vent	83.21	43.56
23 21 16 00-0024		Air Release Valves (23 21 16 00-0001)		
23 21 16 00-0025		Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) (23 21 16 00-0024)		
Note: Up to 175 psi. Stainless steel float.				
23 21 16 00-0026	EA	1/2" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	240.95	18.10
23 21 16 00-0027	EA	3/4" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	245.78	20.51
23 21 16 00-0028	EA	1" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	255.43	25.34
23 21 16 00-0029		Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) (23 21 16 00-0024)		
Note: Up to 175 psi. Stainless steel float.				
23 21 16 00-0030	EA	1" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200A)	1,007.48	25.34
23 21 16 00-0031	EA	2" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200)	1,202.83	44.04
23 21 16 00-0032	EA	3" Flanged, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200)	1,574.61	102.69
23 21 16 00-0033		Cast Iron, Air/Vacuum Valves (23 21 16 00-0024)		
Note: Up to 150 psi. Stainless steel float.				
23 21 16 00-0034	EA	1/2" NPT, Cast Iron, Air/Vacuum Valve (Apco 141)	484.70	18.10
23 21 16 00-0035	EA	1" NPT, Cast Iron, Air/Vacuum Valve (Apco 142)	596.68	25.34
23 21 16 00-0036	EA	2" NPT, Cast Iron, Air/Vacuum Valve (Apco 144)	1,030.58	44.04
23 21 16 00-0037	EA	3" Flanged, Cast Iron, Air/Vacuum Valve (Apco 146)	1,496.61	102.69
23 21 16 00-0038	EA	4" Flanged, Cast Iron, Air/Vacuum Valve (Apco 152)	2,337.72	172.37
23 21 16 00-0039	EA	6" Flanged, Cast Iron, Air/Vacuum Valve (Apco 153)	3,571.21	217.97

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0040 Ductile Iron, Combination Air Release And Vacuum Valves, Single Body		
Double Orifice (23 21 16 00-0024)		
Note: Up to 150 psi. Stainless Steel float.		
23 21 16 00-0041 EA 1" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 143C).....	869.68	25.34
23 21 16 00-0042 EA 2" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 145C).....	1,332.83	44.04
23 21 16 00-0043 EA 3" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 147C).....	2,455.36	102.69
23 21 16 00-0044 EA 4" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 149C).....	3,172.97	172.37
23 21 16 00-0045 Vent Valves (23 21 16)		
23 21 16 00-0046 EA 1/8", 1.5 PSIG Operating Pressure, Non-Vacuum Adjustable Angle Radiator Steam Vent Valve (Hoffman 1A).....	85.67	18.10
23 21 16 00-0047 EA 1/2" x 3/4", 35 PSIG Operating Pressure, Straight Steam Unit Heater Air Vent Valve (Hoffman 74).....	209.91	19.47
23 21 16 00-0048 EA 1/2" x 3/4", 3 PSIG Operating Pressure, Non-Vacuum Main Steam Air Vent Valve (Hoffman 75).....	199.99	19.47
23 21 16 00-0049 EA 1/2" x 3/4", 10 PSIG Operating Pressure, Non Vacuum Straight Non-Vacuum Main Steam Air Vent Valve (Hoffman 75H).....	206.93	19.47
23 21 16 00-0050 EA 3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78).....	267.69	19.47
23 21 16 00-0051 EA 1/2" x 3/4", 75 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 79).....	197.26	19.47
23 21 16 00-0052 Threaded Inlet, Drip-Pan Elbow (23 21 16)		
23 21 16 00-0053 Cast Iron, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0052)		
23 21 16 00-0054 EA 2-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	251.03	30.43
For Flanged Inlet, Add	88.75	
23 21 16 00-0055 EA 3" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	285.51	36.06
For Flanged Inlet, Add	95.27	
23 21 16 00-0056 EA 3-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	357.20	41.69
For Flanged Inlet, Add	128.53	
23 21 16 00-0057 EA 4" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	523.56	47.33
For Flanged Inlet, Add	226.15	
23 21 16 00-0058 EA 5" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	593.01	56.34
For Flanged Inlet, Add	250.00	
23 21 16 00-0059 EA 6" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	818.97	70.99
For Flanged Inlet, Add	365.34	
23 21 16 00-0060 EA 8" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	1,805.24	93.53
For Flanged Inlet, Add	972.15	
23 21 16 00-0061 Cast Steel, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0052)		
23 21 16 00-0062 EA 2-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	693.12	30.43
For Flanged Inlet, Add	389.37	
23 21 16 00-0063 EA 3" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	839.23	36.06
For Flanged Inlet, Add	471.80	
23 21 16 00-0064 EA 3-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	1,202.22	41.69
For Flanged Inlet, Add	703.15	
23 21 16 00-0065 EA 4" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	1,225.03	47.33
For Flanged Inlet, Add	703.15	
23 21 16 00-0066 EA 5" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	1,768.18	56.34
For Flanged Inlet, Add	1,049.11	
23 21 16 00-0067 EA 6" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	1,824.52	70.99
For Flanged Inlet, Add	1,049.11	
23 21 16 00-0068 EA 8" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	3,024.99	93.53
For Flanged Inlet, Add	1,801.58	
23 21 16 00-0069 Y-Type Strainers (23 21 16)		
23 21 16 00-0070 Screwed Ends, 250 Lb., Iron Body, Y-Type Strainers (23 21 16 00-0069)		
23 21 16 00-0071 EA 1/4" Or 3/8" Screwed Ends, 250 Lb., Iron Body, Y-Type Strainer.....	84.22	13.51
For Galvanized Body, Add	22.81	
For Work In Restricted Working Space, Add	11.58	
23 21 16 00-0072 EA 1/2" Screwed Ends, 250 Lb., Iron Body, Y-Type Strainer.....	84.82	13.76
For Galvanized Body, Add	22.81	
For Work In Restricted Working Space, Add	11.76	
23 21 16 00-0073 EA 3/4" Screwed Ends, 250 Lb., Iron Body, Y-Type Strainer.....	107.52	18.58
For Galvanized Body, Add	27.22	
For Work In Restricted Working Space, Add	15.93	
23 21 16 00-0074 EA 1" Screwed Ends, 250 Lb., Iron Body, Y-Type Strainer.....	136.91	22.20
For Galvanized Body, Add	36.78	
For Work In Restricted Working Space, Add	19.01	
23 21 16 00-0075 EA 1-1/4" Screwed Ends, 250 Lb., Iron Body, Y-Type Strainer.....	179.20	27.45
For Galvanized Body, Add	50.39	
For Work In Restricted Working Space, Add	23.53	
23 21 16 00-0076 EA 1-1/2" Screwed Ends, 250 Lb., Iron Body, Y-Type Strainer.....	205.84	29.57
For Galvanized Body, Add	60.69	
For Work In Restricted Working Space, Add	25.34	
23 21 16 00-0077 EA 2" Screwed Ends, 250 Lb., Iron Body, Y-Type Strainer.....	283.37	33.78
For Galvanized Body, Add	93.42	
For Work In Restricted Working Space, Add	28.96	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0078	EA	2-1/2" Screwed Ends, 250 Lb., Iron Body, Y-Type Strainer	540.68	42.23
		<i>For Galvanized Body, Add</i>	210.01	
		<i>For Work In Restricted Working Space, Add</i>	36.20	
23 21 16 00-0079	EA	3" Screwed Ends, 250 Lb., Iron Body, Y-Type Strainer	699.57	52.85
		<i>For Galvanized Body, Add</i>	274.37	
		<i>For Work In Restricted Working Space, Add</i>	45.25	
23 21 16 00-0080 Flanged, 125 Lb., Iron Body, Y-Type Strainers (23 21 16 00-0069)				
23 21 16 00-0081	EA	1-1/2" Flanged, 125 Lb., Iron Body, Y-Type Strainer	506.23	126.69
		<i>For Galvanized Body, Add</i>	173.74	
		<i>For Work In Restricted Working Space, Add</i>	47.63	
23 21 16 00-0082	EA	2" Flanged, 125 Lb., Iron Body, Y-Type Strainer	577.12	160.84
		<i>For Galvanized Body, Add</i>	188.01	
		<i>For Work In Restricted Working Space, Add</i>	60.33	
23 21 16 00-0083	EA	3" Flanged, 125 Lb., Iron Body, Y-Type Strainer	1,153.13	205.13
		<i>For Galvanized Body, Add</i>	448.21	
		<i>For Work In Restricted Working Space, Add</i>	77.02	
23 21 16 00-0084	EA	4" Flanged, 125 Lb., Iron Body, Y-Type Strainer	1,448.18	343.88
		<i>For Galvanized Body, Add</i>	508.63	
		<i>For Work In Restricted Working Space, Add</i>	129.28	
23 21 16 00-0085	EA	5" Flanged, 125 Lb., Iron Body, Y-Type Strainer	1,570.37	346.38
		<i>For Galvanized Body, Add</i>	569.03	
		<i>For Work In Restricted Working Space, Add</i>	129.69	
23 21 16 00-0086	EA	6" Flanged, 125 Lb., Iron Body, Y-Type Strainer	1,896.22	384.87
		<i>For Galvanized Body, Add</i>	706.71	
		<i>For Work In Restricted Working Space, Add</i>	144.84	
23 21 16 00-0087	EA	8" Flanged, 125 Lb., Iron Body, Y-Type Strainer	3,394.64	491.77
		<i>For Galvanized Body, Add</i>	1,391.87	
		<i>For Work In Restricted Working Space, Add</i>	183.27	
23 21 16 00-0088	EA	10" Flanged, 125 Lb., Iron Body, Y-Type Strainer	6,952.80	598.68
		<i>For Galvanized Body, Add</i>	3,102.23	
		<i>For Work In Restricted Working Space, Add</i>	224.50	
23 21 16 00-0089	EA	12" Flanged, 125 Lb., Iron Body, Y-Type Strainer	7,520.33	534.53
		<i>For Galvanized Body, Add</i>	3,225.63	
		<i>For Work In Restricted Working Space, Add</i>	320.72	
23 21 16 00-0090 Screwed Ends, 150 Lb., Bronze Body, Y-Type Strainers (23 21 16 00-0069)				
		Note: With screwed cap (4" size has bolted cap).		
23 21 16 00-0091	EA	1/2" Screwed Ends, 150 Lb., Bronze Body, Y-Type Strainer	74.94	13.76
		<i>For 300 Lb. Rating, Add</i>	60.74	
		<i>For Work In Restricted Working Space, Add</i>	11.76	
23 21 16 00-0092	EA	3/4" Screwed Ends, 150 Lb., Bronze Body, Y-Type Strainer	99.53	18.58
		<i>For 300 Lb. Rating, Add</i>	78.95	
		<i>For Work In Restricted Working Space, Add</i>	15.93	
23 21 16 00-0093	EA	1" Screwed Ends, 150 Lb., Bronze Body, Y-Type Strainer	121.85	22.20
		<i>For 300 Lb. Rating, Add</i>	99.45	
		<i>For Work In Restricted Working Space, Add</i>	19.01	
23 21 16 00-0094	EA	1-1/4" Screwed Ends, 150 Lb., Bronze Body, Y-Type Strainer	166.32	27.45
		<i>For 300 Lb. Rating, Add</i>	149.41	
		<i>For Work In Restricted Working Space, Add</i>	23.53	
23 21 16 00-0095	EA	1-1/2" Screwed Ends, 150 Lb., Bronze Body, Y-Type Strainer	198.62	29.57
		<i>For 300 Lb. Rating, Add</i>	194.06	
		<i>For Work In Restricted Working Space, Add</i>	25.34	
23 21 16 00-0096	EA	2" Screwed Ends, 150 Lb., Bronze Body, Y-Type Strainer	266.50	33.78
		<i>For 300 Lb. Rating, Add</i>	288.95	
		<i>For Work In Restricted Working Space, Add</i>	28.96	
23 21 16 00-0097	EA	2-1/2" Screwed Ends, 150 Lb., Bronze Body, Y-Type Strainer	375.66	42.23
		<i>For 300 Lb. Rating, Add</i>	433.50	
		<i>For Work In Restricted Working Space, Add</i>	36.20	
23 21 16 00-0098	EA	3" Screwed Ends, 150 Lb., Bronze Body, Y-Type Strainer	679.54	52.85
		<i>For 300 Lb. Rating, Add</i>	898.81	
		<i>For Work In Restricted Working Space, Add</i>	45.25	
23 21 16 00-0099	EA	4" Screwed Ends, 150 Lb., Bronze Body, Y-Type Strainer	1,184.39	63.35
		<i>For 300 Lb. Rating, Add</i>	1,705.78	
		<i>For Work In Restricted Working Space, Add</i>	54.30	
23 21 16 00-0100 Flanged, 150 Lb., Bronze Body, Y-Type Strainers (23 21 16 00-0069)				
		Note: With bolted cap.		
23 21 16 00-0101	EA	2" Flanged, 150 Lb., Bronze Body, Y-Type Strainer	644.91	160.84
		<i>For 300 Lb. Rating, Add</i>	266.29	
		<i>For Work In Restricted Working Space, Add</i>	60.33	
23 21 16 00-0102	EA	2-1/2" Flanged, 150 Lb., Bronze Body, Y-Type Strainer	671.56	174.96
		<i>For 300 Lb. Rating, Add</i>	271.31	
		<i>For Work In Restricted Working Space, Add</i>	65.81	
23 21 16 00-0103	EA	3" Flanged, 150 Lb., Bronze Body, Y-Type Strainer	774.50	205.13
		<i>For 300 Lb. Rating, Add</i>	310.67	
		<i>For Work In Restricted Working Space, Add</i>	77.02	
23 21 16 00-0104	EA	4" Flanged, 150 Lb., Bronze Body, Y-Type Strainer	1,689.06	343.88
		<i>For 300 Lb. Rating, Add</i>	754.88	
		<i>For Work In Restricted Working Space, Add</i>	129.28	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Hydronic Piping and Pumps			23 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0105	EA		6" Flanged, 150 Lb., Bronze Body, Y-Type Strainer <i>For 300 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,389.91 1,144.27 144.84	384.87
23 21 16 00-0106	EA		8" Flanged, 150 Lb., Bronze Body, Y-Type Strainer <i>For 300 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,865.53 1,952.78 183.27	491.77
23 21 16 00-0107	EA		10" Flanged, 150 Lb., Bronze Body, Y-Type Strainer <i>For 300 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,429.66 7,008.79 224.50	598.68
23 21 16 00-0108			Polyvinyl Chloride (PVC) Body, Y-Type Strainers (23 21 16 00-0069)		
23 21 16 00-0109			Threaded Or Socket, Polyvinyl Chloride (PVC) Body, Y-Type Strainers (23 21 16 00-0108)		
23 21 16 00-0110	EA		1/2" Threaded Or Socket, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	109.18 11.58	13.27
23 21 16 00-0111	EA		3/4" Threaded Or Socket, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	130.74 15.56	18.21
23 21 16 00-0112	EA		1" Threaded Or Socket, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	157.26 21.35	24.72
23 21 16 00-0113	EA		1-1/4" Threaded Or Socket, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	234.05 22.80	26.53
23 21 16 00-0114	EA		1-1/2" Threaded Or Socket, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	238.70 24.61	28.71
23 21 16 00-0115	EA		2" Threaded Or Socket, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	278.55 27.86	32.56
23 21 16 00-0116	EA		2-1/2" Threaded Or Socket, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	562.56 36.18	42.22
23 21 16 00-0117	EA		3" Threaded Or Socket, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	565.10 45.23	52.83
23 21 16 00-0118	EA		4" Threaded Or Socket, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	886.24 48.12	56.21
23 21 16 00-0119			Flanged, Polyvinyl Chloride (PVC) Body, Y-Type Strainers (23 21 16 00-0108)		
23 21 16 00-0120	EA		2" Flanged, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	459.21 45.23	75.39
23 21 16 00-0121	EA		2-1/2" Flanged, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	870.26 58.98	98.30
23 21 16 00-0122	EA		3" Flanged, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	896.54 76.99	205.05
23 21 16 00-0123	EA		4" Flanged, Polyvinyl Chloride (PVC) Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	1,461.98 129.23	343.75
23 21 16 00-0124			Crimped Bronze Body, Class 125, Y-Type Strainers (23 21 16 00-0069) Note: NIBCO		
23 21 16 00-0125	EA		1/2" Class 125, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	187.12 8.14	12.06
23 21 16 00-0126	EA		3/4" Class 125, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	216.84 9.27	13.27
23 21 16 00-0127	EA		1" Class 125, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	309.89 11.08	15.08
23 21 16 00-0128	EA		1-1/4" Class 125, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	416.95 12.21	16.05
23 21 16 00-0129	EA		1-1/2" Class 125, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	502.63 13.57	18.57
23 21 16 00-0130	EA		2" Class 125, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	746.49 16.28	21.95
23 21 16 00-0131			Crimped Bronze Body, 250 PSI, Y-Type Strainers (23 21 16 00-0069)		
23 21 16 00-0132	EA		1/2" 250 PSI, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	78.24 23.28	12.06
23 21 16 00-0133	EA		3/4" 250 PSI, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	95.32 25.86	13.27
23 21 16 00-0134	EA		1" 250 PSI, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	139.13 27.16	15.08
23 21 16 00-0135	EA		1-1/4" 250 PSI, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	169.74 65.81	16.05
23 21 16 00-0136	EA		1-1/2" 250 PSI, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	202.31 31.54	18.57
23 21 16 00-0137	EA		2" 250 PSI, Crimped Bronze Body, Y-Type Strainer <i>For Work In Restricted Working Space, Add</i>	265.33 31.54	21.95
23 21 16 00-0138			Cast Iron Body, Suction Diffusers (23 21 16) Note: 175 PSI, steel inlet vanes, steel orifice cylinder and 16 mesh bronze startup strainer.		
23 21 16 00-0139	EA		2" x 1-1/2" Screwed Ends, 175 Lb., Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	563.55 23.28	47.54
23 21 16 00-0140	EA		2" x 2" Screwed Ends, 175 Lb., Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	591.59 25.86	52.73
23 21 16 00-0141	EA		2-1/2" x 2" Screwed Ends, 175 Lb., Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	600.79 27.16	55.38
23 21 16 00-0142	EA		2-1/2" x 2-1/2" Flanged, 175 Lb., Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	1,132.99 65.81	174.96
23 21 16 00-0143	EA		3" x 1-1/2" Screwed Ends, 175 Lb., Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	620.26 31.54	64.43

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0144	EA	3" x 2" Screwed Ends, 175 Lb., Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	702.88 31.54	64.43
23 21 16 00-0145	EA	3" x 2-1/2" Flanged, 175 Lb., Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,185.68 71.42	190.44
23 21 16 00-0146	EA	3" x 3" Flanged, 175 Lb., Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,209.21 77.02	205.13
23 21 16 00-0147	EA	4" x 3" Flanged, 175 Lb., Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,466.41 103.15	275.06
23 21 16 00-0148	EA	4" x 4" Flanged, 175 Lb., Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,723.59 129.28	343.88
23 21 16 00-0149	EA	6" x 4" Flanged, 175 Lb., Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,977.68 129.69	345.84
23 21 16 00-0150	EA	6" x 6" Flanged, 175 Lb., Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,392.64 144.84	384.87
23 21 16 00-0151	EA	8" x 6" Flanged, 175 Lb., Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,700.55 183.27	491.77
23 21 16 00-0152	EA	8" x 8" Flanged, 175 Lb., Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	4,202.17 183.27	491.77
23 21 16 00-0153	EA	10" x 8" Flanged, 175 Lb., Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	4,796.42 224.50	598.68
23 21 16 00-0154	EA	10" x 10" Flanged, 175 Lb., Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	5,617.70 224.50	598.68
23 21 16 00-0155		Duplex Strainers (23 21 16)		
23 21 16 00-0156		Iron Body, Duplex Strainers (23 21 16 00-0155)		
23 21 16 00-0157		Screwed Ends, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainers (23 21 16 00-0156) Note: With brass or stainless steel basket.		
23 21 16 00-0158	EA	3/4" Screwed Ends, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	971.15 18.04	30.05
23 21 16 00-0159	EA	1" Screwed Ends, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,084.24 20.65	34.39
23 21 16 00-0160	EA	1-1/4" Screwed Ends, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,471.06 24.24	40.42
23 21 16 00-0161	EA	1-1/2" Screwed Ends, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,853.19 26.42	44.04
23 21 16 00-0162	EA	2" Screwed Ends, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,484.93 32.32	53.69
23 21 16 00-0163	EA	2-1/2" Screwed Ends, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,126.81 41.26	68.78
23 21 16 00-0164		Flanged, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainers (23 21 16 00-0156) Note: With brass or stainless steel basket.		
23 21 16 00-0165	EA	2" Flanged, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,380.19 60.33	160.84
23 21 16 00-0166	EA	2-1/2" Flanged, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,493.37 65.81	174.96
23 21 16 00-0167	EA	3" Flanged, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	4,479.69 77.02	205.13
23 21 16 00-0168	EA	4" Flanged, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	7,024.69 114.54	304.68
23 21 16 00-0169	EA	6" Flanged, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	13,768.56 144.84	384.87
23 21 16 00-0170	EA	8" Flanged, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	26,233.43 183.27	491.77
23 21 16 00-0171	EA	10" Flanged, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	36,240.29 224.50	598.68
23 21 16 00-0172	EA	12" Flanged, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	40,987.66 453.00	754.77
23 21 16 00-0173	EA	14" Flanged, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	48,897.79 320.72	855.26
23 21 16 00-0174	EA	16" Flanged, 125 Lb., Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	61,151.66 352.79	940.78
23 21 16 00-0175		Bronze Body, Duplex Strainers (23 21 16 00-0155)		
23 21 16 00-0176		Screwed Ends, 125 Lb., Bronze Diverter, Bronze Body Duplex Strainers (23 21 16 00-0175) Note: With brass or stainless steel basket.		
23 21 16 00-0177	EA	3/4" Screwed Ends, 125 Lb., Bronze Diverter, Bronze Body Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,815.75 18.04	30.17
23 21 16 00-0178	EA	1" Screwed Ends, 125 Lb., Bronze Diverter, Bronze Body Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,014.24 20.65	34.39
23 21 16 00-0179	EA	1-1/4" Screwed Ends, 125 Lb., Bronze Diverter, Bronze Body Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,951.47 24.24	40.42
23 21 16 00-0180	EA	1-1/2" Screwed Ends, 125 Lb., Bronze Diverter, Bronze Body Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,884.01 26.42	44.04
23 21 16 00-0181	EA	2" Screwed Ends, 125 Lb., Bronze Diverter, Bronze Body Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	5,018.71 32.32	53.69

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0182 EA 2-1/2" Screwed Ends, 125 Lb., Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	6,163.56 41.26	68.78
23 21 16 00-0183 Flanged, 125 Lb., Bronze Diverter, Bronze Body, Duplex Strainers (23 21 16 00-0175) Note: With brass or stainless steel basket.		
23 21 16 00-0184 EA 2" Flanged, 125 Lb., Bronze Diverter, Bronze Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	7,033.77 60.33	160.84
23 21 16 00-0185 EA 2-1/2" Flanged, 125 Lb., Bronze Diverter, Bronze Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	7,241.85 65.81	174.96
23 21 16 00-0186 EA 3" Flanged, 125 Lb., Bronze Diverter, Bronze Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	9,936.34 77.02	205.13
23 21 16 00-0187 EA 4" Flanged, 125 Lb., Bronze Diverter, Bronze Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	15,660.43 114.54	304.68
23 21 16 00-0188 EA 6" Flanged, 125 Lb., Bronze Diverter, Bronze Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	34,076.78 144.84	384.87
23 21 16 00-0189 Cast Steel Body, Duplex Strainers (23 21 16 00-0155)		
23 21 16 00-0190 Screwed Ends, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0189) Note: With brass or stainless steel basket.		
23 21 16 00-0191 EA 1" Screwed Ends, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,832.05 20.65	34.39
23 21 16 00-0192 EA 1-1/4" Screwed Ends, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,488.74 24.23	40.42
23 21 16 00-0193 EA 1-1/2" Screwed Ends, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	4,140.81 26.43	44.04
23 21 16 00-0194 EA 2" Screwed Ends, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	7,015.76 32.32	53.69
23 21 16 00-0195 Flanged, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0189) Note: With brass or stainless steel basket.		
23 21 16 00-0196 EA 2" Flanged, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	7,155.19 60.33	160.84
23 21 16 00-0197 EA 2-1/2" Flanged, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	7,864.27 65.81	174.96
23 21 16 00-0198 EA 3" Flanged, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	10,342.45 77.02	205.13
23 21 16 00-0199 EA 4" Flanged, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	15,165.00 114.54	304.68
23 21 16 00-0200 EA 6" Flanged, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	25,904.37 144.84	384.87
23 21 16 00-0201 EA 8" Flanged, 125 Lb., Bronze Diverter, Cast Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	50,532.96 183.27	491.77
23 21 16 00-0202 Stainless Steel Body, Duplex Strainers (23 21 16 00-0155)		
23 21 16 00-0203 Screwed Ends, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers (23 21 16 00-0202) Note: With stainless steel basket.		
23 21 16 00-0204 EA 1" Screwed Ends, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	6,492.73 20.65	34.39
23 21 16 00-0205 EA 1-1/4" Screwed Ends, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	8,205.81 24.23	40.42
23 21 16 00-0206 EA 1-1/2" Screwed Ends, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	9,902.37 26.43	44.04
23 21 16 00-0207 EA 2" Screwed Ends, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	15,870.05 32.32	53.69
23 21 16 00-0208 Flanged, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers (23 21 16 00-0202) Note: With stainless steel basket.		
23 21 16 00-0209 EA 2" Flanged, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	16,617.70 60.33	160.84
23 21 16 00-0210 EA 2-1/2" Flanged, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	17,468.71 65.81	174.96
23 21 16 00-0211 EA 3" Flanged, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	27,379.80 77.02	205.13
23 21 16 00-0212 EA 4" Flanged, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	33,452.93 114.54	304.68
23 21 16 00-0213 EA 6" Flanged, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	58,773.63 144.84	384.87
23 21 16 00-0214 EA 8" Flanged, 125 Lb., Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	108,627.37 183.27	491.77
23 21 16 00-0215 Pressure Regulating Valve (23 21 16)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
23 21 16 00-0216	Screwed Ends, Iron Body, Water Pressure Reducing Valves (23 21 16 00-0215)				
	Note: For building services, 25 - 75 PSI, up to 300 Lb. rating				
23 21 16 00-0217	EA 1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	238.32 18.09		15.08	
23 21 16 00-0218	EA 3/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	293.89 20.10		16.89	
23 21 16 00-0219	EA 1" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	387.27 21.29		18.09	
23 21 16 00-0220	EA 1-1/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	665.11 24.12		20.26	
23 21 16 00-0221	EA 1-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	903.07 28.95		24.12	
23 21 16 00-0222	EA 2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	1,293.87 44.43		36.98	
23 21 16 00-0223	EA 2-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	1,407.34 49.98		41.65	
23 21 16 00-0224	EA 3" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	1,546.33 55.53		120.51	
23 21 16 00-0225	Cast Iron Body, Steam Pressure Regulator And Reducer (23 21 16 00-0215)				
	Note: Single seated, spring loaded, direct acting diaphragm valve.				
23 21 16 00-0226	Screwed Ends, Cast Iron Body, Steam Pressure Regulator And Reducer (23 21 16 00-0225)				
23 21 16 00-0227	EA 1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	401.57 24.29		20.27	
23 21 16 00-0228	EA 3/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	502.75 34.48		28.72	
23 21 16 00-0229	EA 1" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	646.29 42.09		34.99	
23 21 16 00-0230	EA 1-1/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	864.96 48.92		42.48	
23 21 16 00-0231	EA 1-1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	1,161.42 55.69		48.27	
23 21 16 00-0232	EA 2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	1,358.41 67.61		67.61	
23 21 16 00-0233	Flanged, Cast Iron Body, Steam Pressure Regulator And Reducer (23 21 16 00-0225)				
	Note: Single seated, spring loaded, direct acting diaphragm valve.				
23 21 16 00-0234	EA 2-1/2" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	3,133.77 61.46		163.39	
23 21 16 00-0235	EA 3" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	3,896.74 71.93		191.56	
23 21 16 00-0236	EA 4" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	5,011.56 120.73		321.15	
23 21 16 00-0237	EA 6" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	12,497.90 148.13		393.60	
23 21 16 00-0238	Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves (23 21 16 00-0215)				
23 21 16 00-0239	Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves (23 21 16 00-0238)				
23 21 16 00-0240	EA 1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve For Work In Restricted Working Space, Add	2,271.51 22.08		14.72	
23 21 16 00-0241	EA 3/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve For Work In Restricted Working Space, Add	2,319.18 22.08		14.72	
23 21 16 00-0242	EA 1" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve For Work In Restricted Working Space, Add	2,470.89 27.87		18.58	
23 21 16 00-0243	EA 1-1/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve For Work In Restricted Working Space, Add	2,904.04 35.48		23.64	
23 21 16 00-0244	EA 1-1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve For Work In Restricted Working Space, Add	3,324.65 40.91		27.27	
23 21 16 00-0245	EA 2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve For Work In Restricted Working Space, Add	4,122.03 48.15		32.09	
23 21 16 00-0246	Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves (23 21 16 00-0238)				
23 21 16 00-0247	EA 2-1/2" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve For Work In Restricted Working Space, Add	5,093.25 61.46		163.39	
23 21 16 00-0248	EA 3" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve For Work In Restricted Working Space, Add	6,282.69 71.93		191.56	
23 21 16 00-0249	EA 4" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve For Work In Restricted Working Space, Add	9,517.16 120.73		321.15	
23 21 16 00-0250	EA 6" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve For Work In Restricted Working Space, Add	20,942.30 148.13		393.60	
23 21 16 00-0251	Screwed Ends, Cast Iron Body, Air Pressure Reducing Valves (23 21 16 00-0215)				

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0252 EA 1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	267.59	15.68
23 21 16 00-0253 EA 3/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	331.20	17.36
23 21 16 00-0254 EA 1" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	439.28	18.45
23 21 16 00-0255 EA 1-1/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	761.25	20.99
23 21 16 00-0256 EA 1-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	1,035.66	25.08
23 21 16 00-0257 EA 2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	1,482.27	38.43
23 21 16 00-0258 EA 2-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	1,605.80	41.87
23 21 16 00-0259 EA 3" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	1,770.15	48.20
23 21 16 00-0260 Screwed Ends, Bronze Body, Water Pressure Reducing Valves (23 21 16 00-0215)		
Note: For building services, bronze construction, pressure adjustment, union and strainer, factory set at 45 PSI (Watts 25AUB).		
23 21 16 00-0261 EA 1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	218.40	15.08
23 21 16 00-0262 EA 3/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	239.93	16.89
23 21 16 00-0263 EA 1" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	299.51	18.69
23 21 16 00-0264 EA 1-1/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	719.64	20.26
23 21 16 00-0265 EA 1-1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	778.95	24.12
23 21 16 00-0266 EA 2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	1,224.44	36.98
23 21 16 00-0267 Plastic Pressure Regulator (23 21 16 00-0215)		
23 21 16 00-0268 Polyvinyl Chloride (PVC) Pressure Regulator Valves (23 21 16 00-0267)		
23 21 16 00-0269 EA 1/4" Polyvinyl Chloride (PVC) Pressure Regulator Valve	273.99	18.09
23 21 16 00-0270 EA 1/2" Polyvinyl Chloride (PVC) Pressure Regulator Valve	304.06	25.08
23 21 16 00-0271 EA 3/4" Polyvinyl Chloride (PVC) Pressure Regulator Valve	538.04	30.16
23 21 16 00-0272 EA 1" Polyvinyl Chloride (PVC) Pressure Regulator Valve	607.91	40.28
23 21 16 00-0273 EA 1-1/2" Polyvinyl Chloride (PVC) Pressure Regulator Valve	718.51	48.25
23 21 16 00-0274 EA 2" Polyvinyl Chloride (PVC) Pressure Regulator Valve	882.30	75.39
23 21 16 00-0275 Polypropylene Pressure Regulator Valves (23 21 16 00-0267)		
23 21 16 00-0276 EA 1/4" Polypropylene Pressure Regulator Valve	348.63	18.09
23 21 16 00-0277 EA 1/2" Polypropylene Pressure Regulator Valve	428.47	25.33
23 21 16 00-0278 EA 3/4" Polypropylene Pressure Regulator Valve	656.48	30.16
23 21 16 00-0279 EA 1" Polypropylene Pressure Regulator Valve	777.11	40.28
23 21 16 00-0280 EA 1-1/2" Polypropylene Pressure Regulator Valve	907.61	48.25
23 21 16 00-0281 EA 2" Polypropylene Pressure Regulator Valve	1,125.15	75.39
23 21 16 00-0282 Teflon (PTFE) Pressure Regulator Valves (23 21 16 00-0267)		
23 21 16 00-0283 EA 1/4" Teflon (PTFE) Pressure Regulator Valve	741.77	18.09
23 21 16 00-0284 EA 1/2" Teflon (PTFE) Pressure Regulator Valve	851.46	25.08
23 21 16 00-0285 EA 3/4" Teflon Pressure Regulator Valve	1,433.80	30.16
23 21 16 00-0286 EA 1" Teflon (PTFE) Pressure Regulator Valve	1,981.39	40.28
23 21 16 00-0287 EA 1-1/2" Teflon (PTFE) Pressure Regulator Valve	2,390.58	48.25
23 21 16 00-0288 EA 2" Teflon (PTFE) Pressure Regulator Valve	3,345.62	75.39
23 21 16 00-0289 Polyvinyl Chloride (PVC), Viton Seals, Pressure Regulator Valves (23 21 16 00-0267)		
23 21 16 00-0290 EA 1/4" Polyvinyl Chloride (PVC), Viton Seals, Pressure Regulator Valve	244.73	18.09
23 21 16 00-0291 EA 1/2" Polyvinyl Chloride (PVC), Viton Seals, Pressure Regulator Valve	281.31	25.08
23 21 16 00-0292 EA 3/4" Polyvinyl Chloride (PVC), Viton Seals, Pressure Regulator Valve	451.24	30.16
23 21 16 00-0293 EA 1" Polyvinyl Chloride (PVC), Viton Seals, Pressure Regulator Valve	536.65	40.16
23 21 16 00-0294 EA 1-1/2" Polyvinyl Chloride (PVC), Viton Seals, Pressure Regulator Valve	624.84	48.25
23 21 16 00-0295 Dual Unit Reducing And Relief Valve (23 21 16)		
23 21 16 00-0296 EA 1/2" Dual Unit Reducing And Relief Valve	245.94	36.81
23 21 16 00-0297 Safety Relief Valve (23 21 16)		
Note: Used in water heater and hot water storage tank applications.		
23 21 16 00-0298 Threaded Inlet, Bronze Body Safety Valves (23 21 16 00-0297)		
Note: Variable set points to 150 PSIG pressure, 210 Degree F temperature range.		
23 21 16 00-0299 EA 1/2" x 1/2" Threaded Inlet, Bronze Body Safety Valve	87.67	15.08
23 21 16 00-0300 EA 3/4" x 3/4" Threaded Inlet, Bronze Body Safety Valve	123.96	16.59
23 21 16 00-0301 EA 1" x 1" Threaded Inlet, Bronze Body Safety Valve	181.23	20.20
23 21 16 00-0302 EA 1-1/4" x 1-1/4" Threaded Inlet, Bronze Body Safety Valve	237.08	21.41
23 21 16 00-0303 EA 1-1/2" x 1-1/2" Threaded Inlet, Bronze Body Safety Valve	326.94	28.65
23 21 16 00-0304 EA 2" x 2" Threaded Inlet, Bronze Body Safety Valve	441.29	33.77
23 21 16 00-0305 EA 2-1/2" x 2-1/2" Threaded Inlet, Bronze Body Safety Valve	498.11	42.22
23 21 16 00-0306 Plastic Pressure Relief Valves (23 21 16 00-0297)		
23 21 16 00-0307 Polyvinyl Chloride (PVC) Pressure Relief Valves (23 21 16 00-0306)		
23 21 16 00-0308 EA 1/4" Polyvinyl Chloride (PVC) Pressure Relief Valve	225.88	18.09
23 21 16 00-0309 EA 1/2" Polyvinyl Chloride (PVC) Pressure Relief Valve	249.32	25.33

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0310 EA 3/4" Polyvinyl Chloride (PVC) Pressure Relief Valve	466.72	30.16
23 21 16 00-0311 EA 1" Polyvinyl Chloride (PVC) Pressure Relief Valve	553.17	40.41
23 21 16 00-0312 EA 1-1/2" Polyvinyl Chloride (PVC) Pressure Relief Valve	718.51	48.25
23 21 16 00-0313 EA 2" Polyvinyl Chloride (PVC) Pressure Relief Valve	897.23	75.39
23 21 16 00-0314 Polypropylene Pressure Relief Valves (23 21 16 00-0306)		
23 21 16 00-0315 EA 1/4" Polypropylene Pressure Relief Valve	259.06	18.09
23 21 16 00-0316 EA 1/2" Polypropylene Pressure Relief Valve	299.08	25.08
23 21 16 00-0317 EA 3/4" Polypropylene Pressure Relief Valve	582.83	30.16
23 21 16 00-0318 EA 1" Polypropylene Pressure Relief Valve	677.58	40.28
23 21 16 00-0319 EA 1-1/2" Polypropylene Pressure Relief Valve	1,191.27	48.25
23 21 16 00-0320 EA 2" Polypropylene Pressure Relief Valve	1,461.22	75.39
23 21 16 00-0321 Teflon (PTFE) Pressure Relief Valves (23 21 16 00-0306)		
23 21 16 00-0322 EA 1/4" Teflon (PTFE) Pressure Relief Valve	458.11	18.09
23 21 16 00-0323 EA 1/2" Teflon (PTFE) Pressure Relief Valve	506.43	25.08
23 21 16 00-0324 EA 3/4" Teflon (PTFE) Pressure Relief Valve	956.06	30.16
23 21 16 00-0325 EA 1" Teflon (PTFE) Pressure Relief Valve	1,125.45	40.28
23 21 16 00-0326 EA 1-1/2" Teflon (PTFE) Pressure Relief Valve	1,838.20	48.25
23 21 16 00-0327 EA 2" Teflon (PTFE) Pressure Relief Valve	2,373.56	75.39
23 21 16 00-0328 Polyvinyl Chloride (PVC), Vitron Seals, Pressure Relief Valves (23 21 16 00-0306)		
23 21 16 00-0329 EA 1/2" Polyvinyl Chloride (PVC), Vitron Seals, Pressure Relief Valve	235.48	25.08
23 21 16 00-0330 EA 3/4" Polyvinyl Chloride (PVC), Vitron Seals, Pressure Relief Valve	268.94	30.16
23 21 16 00-0331 EA 1" Polyvinyl Chloride (PVC), Vitron Seals, Pressure Relief Valve	328.04	40.16
23 21 16 00-0332 EA 1-1/2" Polyvinyl Chloride (PVC), Vitron Seals, Pressure Relief Valve	420.13	48.25
23 21 16 00-0333 EA 2" Polyvinyl Chloride (PVC), Vitron Seals, Pressure Relief Valve	533.90	75.39
23 21 16 00-0334 Threaded, Bronze Body, Temperature And Pressure Relief Valves (23 21 16)		
23 21 16 00-0335 EA 1/2" x 1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve	100.91	30.75
For Cast Iron Body, Add	63.31	
23 21 16 00-0336 EA 3/4" x 3/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve	130.87	36.91
For Cast Iron Body, Add	88.20	
23 21 16 00-0337 EA 1" x 1" Threaded, Bronze Body, Temperature And Pressure Relief Valve	192.79	49.21
For Cast Iron Body, Add	140.48	
23 21 16 00-0338 EA 1-1/4" x 1-1/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve	324.99	52.71
For Cast Iron Body, Add	298.54	
23 21 16 00-0339 EA 1-1/2" x 1-1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve	553.33	59.10
For Cast Iron Body, Add	571.09	
23 21 16 00-0340 EA 2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve	636.33	84.97
For Cast Iron Body, Add	621.88	
23 21 16 00-0341 Thermostatic Radiator Valves (23 21 16)		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0342 EA 1/2" Straight Thermostatic Radiator Valve (Danfoss 013G8015)	98.06	19.47
23 21 16 00-0343 EA 3/4" Straight Thermostatic Radiator Valve (Danfoss 013G8020)	118.84	26.23
23 21 16 00-0344 EA 1" Straight Thermostatic Radiator Valve (Danfoss 013G8025)	158.85	31.76
23 21 16 00-0345 EA 1-1/4" Straight Thermostatic Radiator Valve (Danfoss 013G8032)	248.21	40.23
23 21 16 00-0346 EA 1/2" Angle Thermostatic Radiator Valve (Danfoss 013G8014)	98.06	19.47
23 21 16 00-0347 EA 3/4" Angle Thermostatic Radiator Valve (Danfoss 013G8019)	118.84	26.23
23 21 16 00-0348 EA 1" Angle Thermostatic Radiator Valve (Danfoss 013G8024)	158.85	31.76
23 21 16 00-0349 EA 1-1/4" Angle Thermostatic Radiator Valve (Danfoss 013G8031)	248.21	40.23
23 21 16 00-0350 EA Tamper Resistant Valve Mounted Dial And Sensor Thermostatic Operator (Danfoss 013G8240)	101.14	15.08
23 21 16 00-0351 EA Tamper Resistant Valve Mounted Dial With Remote Sensor Thermostatic Operator (Danfoss 013G2922)	170.97	21.12
23 21 16 00-0352 Radiator Trap Repair Kits (23 21 16)		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0353 EA 1/2" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1031)	159.24	
23 21 16 00-0354 EA 3/4" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1032)	199.05	
23 21 16 00-0355 EA 1/2" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1026)	202.25	
23 21 16 00-0356 EA 3/4" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1027)	229.79	
23 21 16 00-0357 EA 1" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1028)	546.17	
23 21 16 00-0358 Horizontal Steel Expansion Tanks (23 21 16)		
Note: ASME Code Stamp. 150 PSI with glass gauge and cocks.		
23 21 16 00-0359 EA 10 Gallon Horizontal Steel Expansion Tank	720.13	120.66
23 21 16 00-0360 EA 15 Gallon Horizontal Steel Expansion Tank	1,019.86	150.83
23 21 16 00-0361 EA 30 Gallon Horizontal Steel Expansion Tank	1,337.59	180.99
23 21 16 00-0362 EA 40 Gallon Horizontal Steel Expansion Tank	1,539.54	211.16
23 21 16 00-0363 EA 60 Gallon Horizontal Steel Expansion Tank	1,772.76	213.81
23 21 16 00-0364 Horizontal Diaphragm Type (Bladder) Steel Expansion Tanks (23 21 16)		
Note: ASME. Precharged with working pressure 125 psi. Armstrong AX Series.		

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0365	EA	7.8 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	1,597.57	90.50
23 21 16 00-0366	EA	10.9 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	1,668.90	105.57
23 21 16 00-0367	EA	21.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	2,486.05	120.66
23 21 16 00-0368	EA	33.6 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	2,588.87	135.74
23 21 16 00-0369	EA	44.4 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	3,507.72	150.83
23 21 16 00-0370	EA	55.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	3,700.13	165.90
23 21 16 00-0371	EA	68.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	4,398.62	180.99
23 21 16 00-0372	EA	77.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	4,707.26	196.07
23 21 16 00-0373	EA	90.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	5,187.83	211.16
23 21 16 00-0374	EA	110.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	5,335.33	241.32
23 21 16 00-0375	EA	132.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	6,691.16	271.49
23 21 16 00-0376	EA	158.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	7,671.66	301.65
23 21 16 00-0377	EA	211.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	8,906.21	361.98
23 21 16 00-0378 Vertical Diaphragm Type (Bladder) Steel Expansion Tanks (Armstrong AX)				
(23 21 16) Note: ASME. Precharged with working pressure 125 psi				
23 21 16 00-0379	EA	8.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,820.35	90.50
23 21 16 00-0380	EA	11.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,879.57	105.57
23 21 16 00-0381	EA	22.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,689.46	120.66
23 21 16 00-0382	EA	34.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,872.18	135.74
23 21 16 00-0383	EA	44.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,650.58	150.83
23 21 16 00-0384	EA	56.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,840.57	165.90
23 21 16 00-0385	EA	67.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,681.94	180.99
23 21 16 00-0386	EA	77.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,060.80	196.07
23 21 16 00-0387	EA	91.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,597.07	211.16
23 21 16 00-0388	EA	111.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,737.30	241.32
23 21 16 00-0389	EA	132.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	7,056.81	271.49
23 21 16 00-0390	EA	158.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	8,187.44	301.65
23 21 16 00-0391	EA	211.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	9,431.67	361.98
23 21 16 00-0392 Diaphragm Type (Residential Style) Steel Expansion Tanks (23 21 16)				
23 21 16 00-0393	EA	2.1 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-5-M1)	108.97	11.11
23 21 16 00-0394	EA	4.5 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-12-M1)	156.80	11.11
23 21 16 00-0395 Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tanks (23 21 16)				
23 21 16 00-0396	EA	15 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,269.08	362.10
23 21 16 00-0397	EA	20 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,324.51	362.10
23 21 16 00-0398	EA	30 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,379.93	362.10
23 21 16 00-0399	EA	40 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,524.02	362.10
23 21 16 00-0400	EA	47 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,814.79	482.52
23 21 16 00-0401	EA	60 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,146.55	482.77
23 21 16 00-0402	EA	80 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,212.38	482.77
23 21 16 00-0403	EA	87 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,278.22	482.77
23 21 16 00-0404	EA	120 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,900.25	603.30
23 21 16 00-0405	EA	187 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	8,481.90	603.30
23 21 16 00-0406	EA	264 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	10,793.45	723.72
23 21 16 00-0407 ASME Construction Compression Tanks (23 21 16)				
Note: With gauge glass taps, 125 PSI, 240 degree F tanks below are sized by capacity and diameter and height.				
23 21 16 00-0408	EA	15 Gallon, 13" x 34-1/2" ASME Construction Compression Tank.....	1,617.90	212.37
For Galvanized Steel Tanks, Add			648.07	
23 21 16 00-0409	EA	24 Gallon, 13" x 51" ASME Construction Compression Tank.....	1,647.05	218.40
For Galvanized Steel Tanks, Add			657.62	
23 21 16 00-0410	EA	30 Gallon, 13" x 61-1/2" ASME Construction Compression Tank.....	1,810.39	225.64
For Galvanized Steel Tanks, Add			733.86	
23 21 16 00-0411	EA	40 Gallon, 16-1/4" x 53" ASME Construction Compression Tank.....	1,995.18	234.08
For Galvanized Steel Tanks, Add			819.62	
23 21 16 00-0412	EA	60 Gallon, 16-1/4" x 76-1/2" ASME Construction Compression Tank.....	2,356.39	247.35
For Galvanized Steel Tanks, Add			991.17	
23 21 16 00-0413	EA	80 Gallon, 20-1/4" x 68" ASME Construction Compression Tank.....	2,447.81	257.01
For Galvanized Steel Tanks, Add			1,029.29	
23 21 16 00-0414	EA	100 Gallon, 20-1/4" x 82" ASME Construction Compression Tank.....	3,072.87	279.94
For Galvanized Steel Tanks, Add			1,324.75	
23 21 16 00-0415	EA	120 Gallon, 24-1/4" x 71-1/2" ASME Construction Compression Tank.....	3,352.57	300.45
For Galvanized Steel Tanks, Add			1,448.62	
23 21 16 00-0416	EA	144 Gallon, 24-1/4" x 83-1/2" ASME Construction Compression Tank.....	4,209.61	339.06
For Galvanized Steel Tanks, Add			1,848.08	
23 21 16 00-0417	EA	180 Gallon, 30" x 60" ASME Construction Compression Tank.....	5,391.96	388.53
For Galvanized Steel Tanks, Add			2,401.69	
23 21 16 00-0418	EA	202 Gallon, 30" x 72" ASME Construction Compression Tank.....	6,496.78	430.75
For Galvanized Steel Tanks, Add			2,922.29	
23 21 16 00-0419	EA	230 Gallon, 30" x 84" ASME Construction Compression Tank.....	7,107.10	468.16
For Galvanized Steel Tanks, Add			3,198.67	
23 21 16 00-0420	EA	280 Gallon, 30" x 96" ASME Construction Compression Tank.....	9,062.81	514.01
For Galvanized Steel Tanks, Add			4,142.18	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0421 EA 306 Gallon, 30" x 108" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	9,329.53 4,248.70	549.01
23 21 16 00-0422 EA 340 Gallon, 36" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	12,150.40 5,628.31	590.03
23 21 16 00-0423 EA 550 Gallon, 36" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	20,551.94 9,751.36	692.59
23 21 16 00-0424 Compression Tank Air Fittings (23 21 16)		
23 21 16 00-0425 EA 9" To 24" Diameter Compression Tank Air Fittings.....	243.45	33.78
23 21 16 00-0426 EA >100 Gallon Compression Tank Air Fittings.....	791.24	39.82
23 21 16 00-0427 Vortex Air Separators With Strainer (23 21 16)		
Note: Separators are priced by capacity in gallons per minute and by boiler connection sizes and types.		
23 21 16 00-0428 EA 2" Threaded, 56 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2N)..... <i>For 300 PSIG, Add</i>	2,053.51 249.64	257.01
23 21 16 00-0429 EA 2-1/2" Threaded, 90 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2-1/2N)..... <i>For 300 PSIG, Add</i>	2,554.32 316.11	294.41
23 21 16 00-0430 EA 3" Threaded, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3N)..... <i>For 300 PSIG, Add</i>	3,991.04 519.96	346.30
23 21 16 00-0431 EA 3" Flanged, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3F)..... <i>For 300 PSIG, Add</i>	4,268.23 556.89	366.71
23 21 16 00-0432 EA 4" Flanged, 300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-4F)..... <i>For 300 PSIG, Add</i>	5,497.31 713.47	488.94
23 21 16 00-0433 EA 5" Flanged, 500 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-5F)..... <i>For 300 PSIG, Add</i>	6,956.50 911.41	581.58
23 21 16 00-0434 EA 6" Flanged, 700 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-6F)..... <i>For 300 PSIG, Add</i>	8,275.32 1,091.63	658.54
23 21 16 00-0435 EA 8" Flanged, 1,300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-8F)..... <i>For 300 PSIG, Add</i>	12,010.24 1,621.93	790.04
23 21 16 00-0436 EA 10" Flanged, 2,000 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-10F)..... <i>For 300 PSIG, Add</i>	18,712.46 2,602.77	898.02
23 21 16 00-0437 EA 12" Flanged, 2,750 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-12F)..... <i>For 300 PSIG, Add</i>	25,276.15 3,527.30	1,162.08
23 21 16 00-0438 EA 14" Flanged, 3400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-14F)..... <i>For 300 PSIG, Add</i>	53,370.99 7,684.93	1,411.17
23 21 16 00-0439 EA 16" Flanged, 4400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F)..... <i>For 300 PSIG, Add</i>	65,923.01 9,503.59	1,693.40
23 21 16 00-0440 EA 18" Flanged, 5200 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F)..... <i>For 300 PSIG, Add</i>	86,178.42 12,477.75	1,975.64
23 21 16 00-0441 EA 20" Flanged, 6300 GPM With Strainer, Vortex Air Separator (Rolairtrol R-20F)..... <i>For 300 PSIG, Add</i>	100,870.03 14,617.35	2,257.87
23 21 16 00-0442 Vortex Air Separators (23 21 16)		
Note: Without system strainer.		
23 21 16 00-0443 EA 2" Threaded, 56 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2N)..... <i>For 300 PSIG, Add</i>	1,728.53 200.90	257.01
23 21 16 00-0444 EA 2-1/2" Threaded, 90 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2-1/2N)..... <i>For 300 PSIG, Add</i>	2,199.80 262.94	294.41
23 21 16 00-0445 EA 3" Threaded, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3N)..... <i>For 300 PSIG, Add</i>	3,902.41 506.67	346.30
23 21 16 00-0446 EA 3" Flanged, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3F)..... <i>For 300 PSIG, Add</i>	3,490.25 440.20	366.71
23 21 16 00-0447 EA 4" Flanged, 300 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-4F)..... <i>For 300 PSIG, Add</i>	4,679.94 590.87	488.94
23 21 16 00-0448 EA 5" Flanged, 530 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-5F)..... <i>For 300 PSIG, Add</i>	6,099.74 782.90	581.58
23 21 16 00-0449 EA 6" Flanged, 850 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-6F)..... <i>For 300 PSIG, Add</i>	7,113.28 917.32	658.54
23 21 16 00-0450 EA 8" Flanged, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8F)..... <i>For 300 PSIG, Add</i>	9,528.60 1,249.69	790.04
23 21 16 00-0451 EA 10" Flanged, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10F)..... <i>For 300 PSIG, Add</i>	13,404.50 1,806.58	898.02
23 21 16 00-0452 EA 12" Flanged, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12F)..... <i>For 300 PSIG, Add</i>	20,816.31 2,858.32	1,162.08
23 21 16 00-0453 EA 14" Flanged, 6,100 GPM Vortex Air Separator (Rolairtrol RL-14F)..... <i>For 300 PSIG, Add</i>	35,844.92 5,056.02	1,411.17
23 21 16 00-0454 EA 16" Flanged, 8,000 GPM Vortex Air Separator (Rolairtrol RL-16F)..... <i>For 300 PSIG, Add</i>	45,479.31 6,437.03	1,693.40
23 21 16 00-0455 EA 18" Flanged, 9,700 GPM Vortex Air Separator (Rolairtrol RL-16F)..... <i>For 300 PSIG, Add</i>	61,013.82 8,703.06	1,975.64
23 21 16 00-0456 EA 20" Flanged, 12,000 GPM Vortex Air Separator (Rolairtrol RL-20F)..... <i>For 300 PSIG, Add</i>	83,757.29 12,050.44	2,257.87
23 21 16 00-0457 EA 22" Flanged, 15,000 GPM Vortex Air Separator (Rolairtrol RL-22F)..... <i>For 300 PSIG, Add</i>	102,730.13 14,832.22	2,540.11
23 21 16 00-0458 EA 24" Flanged, 17,000 GPM Vortex Air Separator (Rolairtrol RL-24F)..... <i>For 300 PSIG, Add</i>	121,702.97 17,614.01	2,822.34
23 21 16 00-0459 Grooved, With Strainer, Vortex Air Separators (23 21 16)		
23 21 16 00-0460 EA 3" Grooved, 190 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-3G).....	3,763.21	293.36

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0461 EA 4" Grooved, 300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-4G)	5,348.77	390.91
23 21 16 00-0462 EA 5" Grooved, 500 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-5G)	6,780.39	464.83
23 21 16 00-0463 EA 6" Grooved, 700 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-6G)	8,075.68	526.84
23 21 16 00-0464 EA 8" Grooved, 1,300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-8G)	11,751.07	632.21
23 21 16 00-0465 EA 10" Grooved, 2,000 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-10G)	19,208.43	718.42
23 21 16 00-0466 EA 12" Grooved, 2,750 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-12G)	29,361.26	929.77
23 21 16 00-0467 Grooved Vortex Air Separators (23 21 16)		
Note: Without system strainer.		
23 21 16 00-0468 EA 3" Grooved, 190 GPM Vortex Air Separator (Rolairtrol RL-3G)	2,955.69	293.36
23 21 16 00-0469 EA 4" Grooved, 300 GPM Vortex Air Separator (Rolairtrol RL-4G)	4,531.40	390.91
23 21 16 00-0470 EA 5" Grooved, 530 GPM Vortex Air Separator (Rolairtrol RL-5G)	5,923.63	464.83
23 21 16 00-0471 EA 6" Grooved, 850 GPM Vortex Air Separator (Rolairtrol RL-6G)	6,913.64	526.84
23 21 16 00-0472 EA 8" Grooved, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8G)	9,289.12	632.21
23 21 16 00-0473 EA 10" Grooved, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10G)	13,821.69	718.42
23 21 16 00-0474 EA 12" Grooved, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12G)	23,149.12	929.77
23 21 16 00-0475 Removable Head, Air Eliminator And Dirt Separator (23 21 16)		
Note: Spirovent VDN.		
23 21 16 00-0476 EA 2", 45 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	3,636.22	257.01
23 21 16 00-0477 EA 2-1/2", 70 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	3,940.14	294.41
23 21 16 00-0478 EA 3", 95 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	5,253.07	346.30
23 21 16 00-0479 EA 4", 170 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	6,026.68	530.91
23 21 16 00-0480 EA 5", 260 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	8,784.10	656.39
23 21 16 00-0481 EA 6", 375 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	11,287.98	743.27
23 21 16 00-0482 EA 8", 625 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	17,582.43	167.72
23 21 16 00-0483 EA 10", 950 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	25,910.25	1,013.55
23 21 16 00-0484 EA 12", 1,400 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	33,489.12	1,311.58
23 21 16 00-0485 Swivel Joints (23 21 16)		
23 21 16 00-0486 Carbon Steel, Straight Through Swivel Joint (Dixon Style 20) (23 21 16 00-0485)		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0487 EA 1" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	383.26	31.73
23 21 16 00-0488 EA 1-1/2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	550.65	46.45
23 21 16 00-0489 EA 2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	772.82	54.30
23 21 16 00-0490 EA 3" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	1,151.81	92.91
23 21 16 00-0491 EA 4" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	1,461.31	105.57
For Stainless Steel, Add	1,875.23	
23 21 16 00-0492 EA 2" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	1,074.81	160.84
For Stainless Steel, Add	1,310.57	
23 21 16 00-0493 EA 3" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	1,453.05	128.32
23 21 16 00-0494 EA 4" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	1,845.83	343.88
23 21 16 00-0495 EA 6" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	3,436.19	434.38
23 21 16 00-0496 Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30) (23 21 16 00-0485)		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0497 EA 1" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)	488.43	31.73
For Stainless Steel, Add	637.40	
23 21 16 00-0498 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)	600.33	46.45
For Stainless Steel, Add	761.27	
23 21 16 00-0499 EA 2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)	809.67	54.30
For Stainless Steel, Add	1,049.97	
23 21 16 00-0500 EA 3" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)	1,300.83	92.91
For Stainless Steel, Add	1,672.80	
23 21 16 00-0501 EA 4" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)	1,704.72	105.57
For Stainless Steel, Add	2,240.34	
23 21 16 00-0502 EA 2" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)	1,108.49	160.84
For Stainless Steel, Add	1,361.09	
23 21 16 00-0503 EA 3" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)	1,645.96	128.32
For Stainless Steel, Add	2,083.86	
23 21 16 00-0504 EA 4" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)	2,068.54	343.88
For Stainless Steel, Add	2,456.42	
23 21 16 00-0505 EA 6" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)	3,589.98	434.38
For Stainless Steel, Add	4,567.59	
23 21 16 00-0506 Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40) (23 21 16 00-0485)		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0507 EA 1" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	575.23	31.73
For Stainless Steel, Add	767.60	
23 21 16 00-0508 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	666.56	46.45
For Stainless Steel, Add	860.61	
23 21 16 00-0509 EA 2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	976.15	54.30
For Stainless Steel, Add	1,299.69	
23 21 16 00-0510 EA 3" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	1,501.18	92.91
For Stainless Steel, Add	1,973.33	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0511	EA	4" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,770.95	105.57
		<i>For Stainless Steel, Add</i>	2,339.69	
23 21 16 00-0512	EA	2" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	1,274.07	160.84
		<i>For Stainless Steel, Add</i>	1,609.46	
23 21 16 00-0513	EA	3" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	1,851.28	128.32
		<i>For Stainless Steel, Add</i>	2,391.84	
23 21 16 00-0514	EA	4" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	2,280.48	343.88
		<i>For Stainless Steel, Add</i>	2,774.33	
23 21 16 00-0515	EA	6" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	4,045.33	434.38
		<i>For Stainless Steel, Add</i>	5,250.62	
23 21 16 00-0516 Ball Joints (23 21 16)				
23 21 16 00-0517	EA	1" Steel Threaded Ball Joint (Hyspan BB-33004-16-11).....	1,231.66	
23 21 16 00-0518	EA	2" Steel Threaded Ball Joint (Hyspan BB-33001-32-11).....	1,795.13	
23 21 16 00-0519	EA	3" Steel Threaded Ball Joint (Hyspan BB-41533-48-21).....	3,088.13	
23 21 16 00-0520	EA	8" Steel Welding Type Ball Joint (Hyspan BB-41533-68-21)	9,752.35	
23 21 16 00-0521	EA	10" Steel Welding Type Ball Joint (Hyspan BB-41533-70-21)	11,380.15	
23 21 16 00-0522	EA	3" Steel Flanged Ball Joint (Hyspan BB-41533-48-21)	2,890.46	188.81
23 21 16 00-0523	EA	4" Steel Flanged Ball Joint (Hyspan BB-41533-64-21)	4,475.73	316.53
23 21 16 00-0524	EA	6" Steel Flanged Ball Joint (Hyspan BB-31533-66-11)	5,380.38	393.60
23 21 16 00-0525	EA	8" Steel Flanged Ball Joint (Hyspan BB-41533-68-21)	8,951.02	502.93
23 21 16 00-0526	EA	10" Steel Flanged Ball Joint (Hyspan BB-31533-70-11)	10,494.46	612.26
23 21 16 00-0527	EA	4" Stainless Steel Flanged Ball Joint (Hyspan BB-31524-64).....	17,443.32	316.53
23 21 16 00-0528	EA	6" Stainless Ball Flanged Joint (Hyspan BB-31524-66-24)	26,346.26	393.60
23 21 16 00-0529	EA	6" Carbon Steel Flanged Ball Joint (Hyspan BB-41528-66-21).....	7,960.12	393.60
23 21 16 00-0530	EA	8" Carbon Steel Flanged Ball Joint (Hyspan BB-41528-68-21).....	10,249.16	502.93
23 21 16 00-0531	EA	12" Carbon Steel Flanged Ball Joint (Hyspan BB-41533-72-21).....	17,764.88	
23 21 16 00-0532 Basket Strainers (23 21 16)				
23 21 16 00-0533 Bronze Body Basket Strainers (23 21 16 00-0532)				
23 21 16 00-0534 Screwed Ends, Bronze Body Basket Strainers (23 21 16 00-0533)				
23 21 16 00-0535	EA	1/2" Screwed Ends, Bronze Body Basket Strainer.....	338.27	24.13
		<i>For Work In Restricted Working Space, Add</i>	14.36	
23 21 16 00-0536	EA	3/4" Screwed Ends, Bronze Body Basket Strainer.....	399.79	28.36
		<i>For Work In Restricted Working Space, Add</i>	16.88	
23 21 16 00-0537	EA	1" Screwed Ends, Bronze Body Basket Strainer.....	463.71	33.78
		<i>For Work In Restricted Working Space, Add</i>	20.11	
23 21 16 00-0538	EA	1-1/4" Screwed Ends, Bronze Body Basket Strainer	577.70	37.40
		<i>For Work In Restricted Working Space, Add</i>	22.42	
23 21 16 00-0539	EA	1-1/2" Screwed Ends, Bronze Body Basket Strainer	682.24	42.23
		<i>For Work In Restricted Working Space, Add</i>	25.31	
23 21 16 00-0540	EA	2" Screwed Ends, Bronze Body Basket Strainer.....	1,017.14	48.27
		<i>For Work In Restricted Working Space, Add</i>	28.99	
23 21 16 00-0541	EA	2-1/2" Screwed Ends, Bronze Body Basket Strainer	1,439.03	64.55
		<i>For Work In Restricted Working Space, Add</i>	38.83	
23 21 16 00-0542	EA	3" Screwed Ends, Bronze Body Basket Strainer.....	2,025.75	68.78
		<i>For Work In Restricted Working Space, Add</i>	41.18	
23 21 16 00-0543 Flanged, Bronze Body Basket Strainers (23 21 16 00-0533)				
23 21 16 00-0544	EA	2" Flanged, Bronze Body Basket Strainer.....	1,596.10	160.84
		<i>For Work In Restricted Working Space, Add</i>	60.33	
23 21 16 00-0545	EA	2-1/2" Flanged, Bronze Body Basket Strainer.....	2,402.04	174.96
		<i>For Work In Restricted Working Space, Add</i>	65.81	
23 21 16 00-0546	EA	3" Flanged, Bronze Body Basket Strainer.....	2,724.07	205.13
		<i>For Work In Restricted Working Space, Add</i>	77.02	
23 21 16 00-0547	EA	4" Flanged, Bronze Body Basket Strainer.....	4,606.45	343.88
		<i>For Work In Restricted Working Space, Add</i>	129.28	
23 21 16 00-0548	EA	6" Flanged, Bronze Body Basket Strainer.....	8,738.95	384.87
		<i>For Work In Restricted Working Space, Add</i>	144.84	
23 21 16 00-0549	EA	8" Flanged, Bronze Body Basket Strainer.....	15,936.97	491.77
		<i>For Work In Restricted Working Space, Add</i>	183.27	
23 21 16 00-0550 Iron Body Basket Strainers (23 21 16 00-0532)				
23 21 16 00-0551 Screwed Ends, Iron Body Basket Strainers (23 21 16 00-0550)				
23 21 16 00-0552	EA	1/2" Screwed Ends, Iron Body Basket Strainer.....	388.64	24.13
		<i>For Work In Restricted Working Space, Add</i>	14.36	
23 21 16 00-0553	EA	3/4" Screwed Ends, Iron Body Basket Strainer.....	437.66	28.36
		<i>For Work In Restricted Working Space, Add</i>	16.88	
23 21 16 00-0554	EA	1" Screwed Ends, Iron Body Basket Strainer.....	517.22	33.78
		<i>For Work In Restricted Working Space, Add</i>	20.11	
23 21 16 00-0555	EA	1-1/4" Screwed Ends, Iron Body Basket Strainer.....	678.10	37.40
		<i>For Work In Restricted Working Space, Add</i>	22.42	
23 21 16 00-0556	EA	1-1/2" Screwed Ends, Iron Body Basket Strainer.....	744.01	42.23
		<i>For Work In Restricted Working Space, Add</i>	25.31	
23 21 16 00-0557	EA	2" Screwed Ends, Iron Body Basket Strainer.....	884.44	48.27
		<i>For Work In Restricted Working Space, Add</i>	28.99	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0558 EA 2-1/2" Screwed Ends, Iron Body Basket Strainer For Work In Restricted Working Space, Add	1,254.87 38.83	64.55
23 21 16 00-0559 EA 3" Screwed Ends, Iron Body Basket Strainer..... For Work In Restricted Working Space, Add	1,419.02 41.18	68.78
23 21 16 00-0560 Flanged, Iron Body Basket Strainers (23 21 16 00-0550)		
23 21 16 00-0561 EA 2" Flanged, Iron Body Basket Strainer..... For Work In Restricted Working Space, Add	1,700.90 60.33	160.84
23 21 16 00-0562 EA 2-1/2" Flanged, Iron Body Basket Strainer..... For Work In Restricted Working Space, Add	2,240.85 65.81	174.96
23 21 16 00-0563 EA 3" Flanged, Iron Body Basket Strainer..... For Work In Restricted Working Space, Add	2,408.60 77.02	205.13
23 21 16 00-0564 EA 4" Flanged, Iron Body Basket Strainer..... For Work In Restricted Working Space, Add	3,669.62 129.28	343.88
23 21 16 00-0565 EA 6" Flanged, Iron Body Basket Strainer..... For Work In Restricted Working Space, Add	6,786.30 144.84	384.87
23 21 16 00-0566 EA 8" Flanged, Iron Body Basket Strainer..... For Work In Restricted Working Space, Add	12,239.77 183.27	491.77
23 21 16 00-0567 EA 10" Flanged, Iron Body Basket Strainer..... For Work In Restricted Working Space, Add	18,245.98 224.50	598.68
23 21 16 00-0568 EA 12" Flanged, Iron Body Basket Strainer..... For Work In Restricted Working Space, Add	22,267.44 452.81	754.77
23 21 16 00-0569 EA 14" Flanged, Iron Body Basket Strainer..... For Work In Restricted Working Space, Add	27,261.19 320.72	855.26
23 21 16 00-0570 EA 16" Flanged, Iron Body Basket Strainer..... For Work In Restricted Working Space, Add	28,563.58 352.79	940.78
23 21 16 00-0571 Cast Steel Body Basket Strainers (23 21 16 00-0532)		
23 21 16 00-0572 Screwed Ends, Cast Steel Body Basket Strainers (23 21 16 00-0571)		
23 21 16 00-0573 EA 1" Screwed Ends, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	960.91 20.11	33.78
23 21 16 00-0574 EA 1-1/4" Screwed Ends, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	1,267.83 22.42	37.40
23 21 16 00-0575 EA 1-1/2" Screwed Ends, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	1,428.96 25.31	42.23
23 21 16 00-0576 EA 2" Screwed Ends, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	2,009.36 28.99	48.27
23 21 16 00-0577 EA 2-1/2" Screwed Ends, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	2,818.61 38.82	64.55
23 21 16 00-0578 EA 3" Screwed Ends, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	3,659.77 41.19	68.78
23 21 16 00-0579 Flanged, Cast Steel Body Basket Strainers (23 21 16 00-0571)		
23 21 16 00-0580 EA 2" Flanged, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	2,984.99 60.33	160.84
23 21 16 00-0581 EA 2-1/2" Flanged, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	4,291.05 65.81	174.96
23 21 16 00-0582 EA 3" Flanged, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	4,707.15 77.02	205.13
23 21 16 00-0583 EA 4" Flanged, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	6,680.47 129.28	343.88
23 21 16 00-0584 EA 6" Flanged, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	11,750.91 144.84	384.87
23 21 16 00-0585 EA 8" Flanged, Cast Steel Body Basket Strainer For Work In Restricted Working Space, Add	19,075.45 183.27	491.77
23 21 16 00-0586 Stainless Steel Body Basket Strainers (23 21 16 00-0532)		
23 21 16 00-0587 Screwed Ends, Stainless Steel Body Basket Strainers (23 21 16 00-0586)		
23 21 16 00-0588 EA 1" Screwed Ends, Stainless Steel Body Basket Strainer For Work In Restricted Working Space, Add	598.03 20.11	33.78
23 21 16 00-0589 EA 1-1/4" Screwed Ends, Stainless Steel Body Basket Strainer For Work In Restricted Working Space, Add	860.71 22.42	37.40
23 21 16 00-0590 EA 1-1/2" Screwed Ends, Stainless Steel Body Basket Strainer For Work In Restricted Working Space, Add	888.73 25.31	42.23
23 21 16 00-0591 EA 2" Screwed Ends, Stainless Steel Body Basket Strainer For Work In Restricted Working Space, Add	1,313.70 28.99	48.27
23 21 16 00-0592 EA 2-1/2" Screwed Ends, Stainless Steel Body Basket Strainer For Work In Restricted Working Space, Add	1,856.45 38.82	64.55
23 21 16 00-0593 EA 3" Screwed Ends, Stainless Steel Body Basket Strainer For Work In Restricted Working Space, Add	2,621.40 41.19	68.78
23 21 16 00-0594 Flanged, Stainless Steel Body Basket Strainers (23 21 16 00-0586)		
23 21 16 00-0595 EA 2" Flanged, Stainless Steel Body Basket Strainer For Work In Restricted Working Space, Add	2,012.26 60.33	160.84
23 21 16 00-0596 EA 2-1/2" Flanged, Stainless Steel Body Basket Strainer For Work In Restricted Working Space, Add	3,039.95 65.81	174.96

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0597	EA	3" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	3,442.67 77.02	205.13
23 21 16 00-0598	EA	4" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	5,819.71 129.28	343.88
23 21 16 00-0599	EA	6" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	8,894.56 144.84	384.87
23 21 16 00-0600	EA	8" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	15,436.63 183.27	491.77
23 21 16 00-0601		Plastic Basket Strainers (23 21 16 00-0532)		
23 21 16 00-0602		Screwed Or Socket Ends, Simplex, Plastic Basket Strainers (23 21 16 00-0601)		
23 21 16 00-0603		Screwed Or Socket Ends, Simplex, Polyvinyl Chloride (PVC) Basket Strainers (23 21 16 00-0602)		
23 21 16 00-0604	EA	1/2" Screwed Or Socket Ends, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	331.77 14.36	16.90
23 21 16 00-0605	EA	3/4" Screwed Or Socket Ends, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	340.15 16.88	19.67
23 21 16 00-0606	EA	1" Screwed Or Socket Ends, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	350.93 20.11	23.41
23 21 16 00-0607	EA	1-1/2" Screwed Or Socket Ends, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	572.35 25.31	29.57
23 21 16 00-0608	EA	2" Screwed Or Socket Ends, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	593.81 28.99	33.78
23 21 16 00-0609	EA	3" Screwed Or Socket Ends, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,263.66 41.19	48.27
23 21 16 00-0610	EA	4" Screwed Or Socket Ends, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,672.54 54.29	63.35
23 21 16 00-0611		Screwed Or Socket Ends, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainers (23 21 16 00-0602)		
23 21 16 00-0612	EA	1/2" Screwed Or Socket Ends, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	441.44 14.36	16.90
23 21 16 00-0613	EA	3/4" Screwed Or Socket Ends, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	449.82 16.88	19.67
23 21 16 00-0614	EA	1" Screwed Or Socket Ends, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	460.60 20.11	23.41
23 21 16 00-0615	EA	1-1/2" Screwed Or Socket Ends, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	785.09 25.31	29.57
23 21 16 00-0616	EA	2" Screwed Or Socket Ends, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	811.07 28.99	33.78
23 21 16 00-0617	EA	3" Screwed Or Socket Ends, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	930.99 41.19	48.27
23 21 16 00-0618	EA	4" Screwed Or Socket Ends, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,158.37 54.29	63.35
23 21 16 00-0619		Flanged, Simplex, Plastic Basket Strainers (23 21 16 00-0601)		
23 21 16 00-0620		Flanged, Simplex, Polyvinyl Chloride (PVC) Basket Strainers (23 21 16 00-0619)		
23 21 16 00-0621	EA	1" Flanged, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	536.41 63.33	105.57
23 21 16 00-0622	EA	1-1/2" Flanged, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	822.91 72.40	120.66
23 21 16 00-0623	EA	2" Flanged, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	873.46 84.34	140.57
23 21 16 00-0624	EA	3" Flanged, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,608.66 77.02	205.13
23 21 16 00-0625	EA	4" Flanged, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,194.13 129.28	343.88
23 21 16 00-0626	EA	6" Flanged, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	4,306.10 163.48	434.38
23 21 16 00-0627	EA	8" Flanged, Simplex, Polyvinyl Chloride (PVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	5,646.09 206.85	555.04
23 21 16 00-0628		Flanged, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainers (23 21 16 00-0619)		
23 21 16 00-0629	EA	1-1/2" Flanged, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,029.82 72.40	120.66
23 21 16 00-0630	EA	2" Flanged, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,086.07 84.34	140.57
23 21 16 00-0631	EA	3" Flanged, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,162.83 77.02	205.13
23 21 16 00-0632	EA	4" Flanged, Simplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,766.25 129.28	343.88
23 21 16 00-0633		Screwed Or Socket Ends, Duplex, Plastic Basket Strainers (23 21 16 00-0601)		



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Piping and Pumps			23 20
Hydronic Piping and Pumps			23 21

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0634		Screwed Or Socket Ends, Duplex, Polyvinyl Chloride (PVC) Basket Strainers (23 21 16 00-0633)		
23 21 16 00-0635	EA	1/2" Screwed Or Socket Ends, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	1,395.21	16.90
		For Work In Restricted Working Space, Add	14.36	
23 21 16 00-0636	EA	3/4" Screwed Or Socket Ends, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	1,403.59	19.67
		For Work In Restricted Working Space, Add	16.88	
23 21 16 00-0637	EA	1" Screwed Or Socket Ends, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	1,414.37	23.41
		For Work In Restricted Working Space, Add	20.11	
23 21 16 00-0638	EA	1-1/2" Screwed Or Socket Ends, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	2,182.09	29.57
		For Work In Restricted Working Space, Add	25.31	
23 21 16 00-0639	EA	2" Screwed Or Socket Ends, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	2,194.35	33.78
		For Work In Restricted Working Space, Add	28.99	
23 21 16 00-0640	EA	3" Screwed Or Socket Ends, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	4,874.46	48.27
		For Work In Restricted Working Space, Add	41.19	
23 21 16 00-0641	EA	4" Screwed Or Socket Ends, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	6,429.65	63.35
		For Work In Restricted Working Space, Add	54.29	
23 21 16 00-0642		Screwed Or Socket Ends, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainers (23 21 16 00-0633)		
23 21 16 00-0643	EA	1/2" Screwed Or Socket Ends, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	1,851.14	16.90
		For Work In Restricted Working Space, Add	14.36	
23 21 16 00-0644	EA	3/4" Screwed Or Socket Ends, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	1,859.52	19.67
		For Work In Restricted Working Space, Add	16.88	
23 21 16 00-0645	EA	1" Screwed Or Socket Ends, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	1,870.30	23.41
		For Work In Restricted Working Space, Add	20.11	
23 21 16 00-0646	EA	1-1/2" Screwed Or Socket Ends, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	2,896.90	29.57
		For Work In Restricted Working Space, Add	25.31	
23 21 16 00-0647	EA	2" Screwed Or Socket Ends, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	2,909.16	33.78
		For Work In Restricted Working Space, Add	28.99	
23 21 16 00-0648	EA	3" Screwed Or Socket Ends, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	5,654.04	48.27
		For Work In Restricted Working Space, Add	41.19	
23 21 16 00-0649	EA	4" Screwed Or Socket Ends, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	8,492.41	63.35
		For Work In Restricted Working Space, Add	54.29	
23 21 16 00-0650		Flanged, Duplex, Plastic Basket Strainers (23 21 16 00-0601)		
23 21 16 00-0651		Flanged, Duplex, Polyvinyl Chloride (PVC) Basket Strainers (23 21 16 00-0650)		
23 21 16 00-0652	EA	1/2" Flanged, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	1,468.54	45.24
		For Work In Restricted Working Space, Add	27.15	
23 21 16 00-0653	EA	3/4" Flanged, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	1,498.69	60.33
		For Work In Restricted Working Space, Add	36.20	
23 21 16 00-0654	EA	1" Flanged, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	1,589.12	105.57
		For Work In Restricted Working Space, Add	63.33	
23 21 16 00-0655	EA	1-1/2" Flanged, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	2,418.85	120.66
		For Work In Restricted Working Space, Add	72.40	
23 21 16 00-0656	EA	2" Flanged, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	2,458.65	140.57
		For Work In Restricted Working Space, Add	84.34	
23 21 16 00-0657	EA	3" Flanged, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	5,162.68	205.13
		For Work In Restricted Working Space, Add	77.02	
23 21 16 00-0658	EA	4" Flanged, Duplex, Polyvinyl Chloride (PVC) Basket Strainer.....	6,892.92	343.88
		For Work In Restricted Working Space, Add	129.28	
23 21 16 00-0659		Flanged, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainers (23 21 16 00-0650)		
23 21 16 00-0660	EA	1/2" Flanged, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	1,932.14	45.24
		For Work In Restricted Working Space, Add	27.14	
23 21 16 00-0661	EA	3/4" Flanged, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	1,962.27	60.33
		For Work In Restricted Working Space, Add	36.18	
23 21 16 00-0662	EA	1" Flanged, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	2,052.75	105.57
		For Work In Restricted Working Space, Add	63.33	
23 21 16 00-0663	EA	1-1/2" Flanged, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	3,155.33	120.66
		For Work In Restricted Working Space, Add	72.40	
23 21 16 00-0664	EA	2" Flanged, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	3,195.13	140.57
		For Work In Restricted Working Space, Add	84.34	
23 21 16 00-0665	EA	3" Flanged, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	6,971.98	205.13
		For Work In Restricted Working Space, Add	77.02	
23 21 16 00-0666	EA	4" Flanged, Duplex, Chlorinated Polyvinyl Chloride (CPVC) Basket Strainer.....	9,103.03	343.88
		For Work In Restricted Working Space, Add	129.28	
23 21 16 00-0667		Plastic Strainer Baskets (23 21 16 00-0532)		
23 21 16 00-0668		Polyvinyl Chloride (PVC) Strainer Baskets (23 21 16 00-0667)		
23 21 16 00-0669	EA	1/2", 3/4" Or 1" Polyvinyl Chloride (PVC) Strainer Basket.....	119.85	
23 21 16 00-0670	EA	1-1/2", Or 2" Polyvinyl Chloride (PVC) Strainer Basket.....	147.01	
23 21 16 00-0671	EA	3" Polyvinyl Chloride (PVC) Strainer Basket.....	329.93	
23 21 16 00-0672	EA	4" Polyvinyl Chloride (PVC) Strainer Basket.....	374.43	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0673	Chlorinated Polyvinyl Chloride (CPVC) Strainer Baskets (23 21 16 00-0667)			
23 21 16 00-0674	EA	1/2", 3/4" Or 1" Chlorinated Polyvinyl Chloride (CPVC) Strainer Basket.....	157.70	
23 21 16 00-0675	EA	1-1/2" Or 2" Chlorinated Polyvinyl Chloride (CPVC) Strainer Basket.....	197.47	
23 21 16 00-0676	EA	3" Chlorinated Polyvinyl Chloride (CPVC) Strainer Basket.....	438.82	
23 21 16 00-0677	EA	4" Chlorinated Polyvinyl Chloride (CPVC) Strainer Basket.....	486.81	
23 21 16 00-0678	Bag Filter And Mounting Stands (23 21 16)			
23 21 16 00-0679	Stainless Steel Housing, Bag Filter And Mounting Stands (23 21 16 00-0678)			
23 21 16 00-0680	EA	4" Diameter Flanged, 395 GPM, 3-Bag, 304 Stainless Steel Housing, Bag Filter And Mounting Stand.....	6,460.22	343.88
23 21 16 00-0681	EA	4" Diameter Flanged, 525 GPM, 4-Bag, 304 Stainless Steel Housing, Bag Filter And Mounting Stand.....	7,429.22	343.88
23 21 16 00-0682	EA	6" Diameter Flanged, 785 GPM, 6-Bag, 304 Stainless Steel Housing, Bag Filter And Mounting Stand.....	11,249.48	384.87
23 21 16 00-0683	EA	8" Diameter Flanged, 1,580 GPM, 12-Bag, 304 Stainless Steel Housing, Bag Filter And Mounting Stand.....	15,598.11	491.77
23 21 16 00-0684	EA	10" Diameter Flanged, 2,115 GPM, 16-Bag, 304 Stainless Steel Housing, Bag Filter And Mounting Stand.....	22,884.66	598.68
23 21 16 00-0685	EA	10" Diameter Flanged, 2,645 GPM, 20-Bag, 304 Stainless Steel Housing, Bag Filter And Mounting Stand.....	26,587.13	598.68
23 21 16 00-0686	EA	4" Diameter Flanged PVC Header, Dual 2" Diameter Inlet/Outlet, 304 Stainless Steel Housing, Bag Filter And Mounting Stands On Skid.....	5,413.41	685.60
		Note: Includes dual 2" flanged inlet/out stainless steel housing and mounting stands, steel skid, and 4" flanged PVC pipe headers with two 2" butterfly valves on each header.		
23 21 16 00-0687	EA	4" Diameter Flanged Stainless Steel Header, Dual 2" Diameter Inlet/Outlet, 304 Stainless Steel Housing, Bag Filter And Mounting Stands On Skid.....	7,351.42	685.60
		Note: Includes dual 2" flanged inlet/out stainless steel housing and mounting stands, steel skid, and 4" flanged 304 stainless steel pipe headers with two 2" butterfly valves on each header.		
23 21 16 00-0688	EA	4" Diameter Flanged Carbon Steel Header, Dual 2" Diameter Inlet/Outlet, 304 Stainless Steel Housing, Bag Filter And Mounting Stands On Skid.....	6,382.42	685.60
		Note: Includes dual 2" flanged inlet/out stainless steel housing and mounting stands, steel skid, and 4" flanged carbon steel pipe headers with two 2" butterfly valves on each header.		
23 21 16 00-0689	EA	4" Diameter Flanged Carbon Steel Header, Dual 4" Diameter Inlet/Outlet, 304 Stainless Steel Housing, Bag Filter And Mounting Stands On Skid.....	25,267.81	846.71
		Note: Includes dual 4" flanged inlet/out stainless steel housing and mounting stands, steel skid, and 4" flanged carbon steel pipe headers with two 2" butterfly valves on each header.		
23 21 16 00-0690	Carbon Steel Housing, Bag Filter And Mounting Stands (23 21 16 00-0678)			
23 21 16 00-0691	EA	4" Diameter Flanged, 395 GPM, 3-Bag, Carbon Steel Housing, Bag Filter And Mounting Stand.....	4,952.88	343.88
23 21 16 00-0692	EA	4" Diameter Flanged, 525 GPM, 4-Bag, Carbon Steel Housing, Bag Filter And Mounting Stand.....	6,137.22	343.88
23 21 16 00-0693	EA	6" Diameter Flanged, 5,785 GPM, 6-Bag, Carbon Steel Housing, Bag Filter And Mounting Stand.....	6,942.80	384.87
23 21 16 00-0694	EA	8" Diameter Flanged, 1,580 GPM, 12-Bag, Carbon Steel Housing, Bag Filter And Mounting Stand.....	12,238.90	491.77
23 21 23	Hydronic Pumps (23 21)			
23 21 23 13	In-Line Centrifugal Hydronic Pumps (23 21 23)			
23 21 23 13-0001	Cast Iron Single Stage In-Line Centrifugal Pump (23 21 23 13)			
		Note: For general service, 125 Lb. flanged, 3550 RPM TEFC motor. Includes packed stuffing boxes and ductile iron case.		
23 21 23 13-0002	EA	3 HP, 50 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump.....	6,890.42	322.25
		For Mechanical Seal, Add.....	473.93	
		For Cast Steel Case, Add.....	1,066.35	
23 21 23 13-0003	EA	5 HP, 75 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump.....	7,520.52	390.04
		For Mechanical Seal, Add.....	508.06	
		For Cast Steel Case, Add.....	1,143.15	
23 21 23 13-0004	EA	7-1/2 HP, 100 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump.....	8,691.64	463.38
		For Mechanical Seal, Add.....	584.21	
		For Cast Steel Case, Add.....	1,314.47	
23 21 23 13-0005	EA	10 HP, 125 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump.....	9,726.56	617.84
		For Mechanical Seal, Add.....	629.96	
		For Cast Steel Case, Add.....	1,417.41	
23 21 23 13-0006	EA	15 HP, 150 GPM At 200' Head, Single Stage Cast Iron In-Line Circulating Pump.....	11,153.47	673.40
		For Mechanical Seal, Add.....	730.64	
		For Cast Steel Case, Add.....	1,643.95	
23 21 23 13-0007	EA	30 HP, 200 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump.....	16,696.40	741.18
		For Mechanical Seal, Add.....	1,157.92	
		For Cast Steel Case, Add.....	2,605.31	
23 21 23 13-0008	EA	40 HP, 250 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump.....	19,614.88	925.65
		For Mechanical Seal, Add.....	1,346.94	
		For Cast Steel Case, Add.....	3,030.63	
23 21 23 13-0009	EA	50 HP, 300 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump.....	27,306.62	1,057.88
		For Mechanical Seal, Add.....	1,930.54	
		For Cast Steel Case, Add.....	4,343.70	
23 21 23 13-0010	EA	75 HP, 400 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump.....	34,752.53	1,108.63
		For Mechanical Seal, Add.....	2,514.12	
		For Cast Steel Case, Add.....	5,656.78	
23 21 23 13-0011	EA	100 HP, 600 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump.....	37,928.19	1,425.07
		For Mechanical Seal, Add.....	2,692.15	
		For Cast Steel Case, Add.....	6,057.35	
23 21 23 13-0012	Cast Iron, Single Stage, Vertical In-Line, Close Coupled, Pump (23 21 23 13)			
		Note: For general service, 125 Lb. flanged, 1,800 RPM TEFC motor.		
23 21 23 13-0013	EA	1/2 HP, 1-1/2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump.....	2,301.34	185.02
23 21 23 13-0014	EA	3/4 HP, 2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump.....	4,070.99	211.47

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 13-0015 EA 1 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	4,424.33	236.80
23 21 23 13-0016 EA 1-1/2 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	4,652.48	257.47
23 21 23 13-0017 EA 2 HP, 4" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	6,083.83	281.92
23 21 23 13-0018 EA 3 HP, 5" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	6,256.08	311.59
23 21 23 13-0019 EA 5 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	7,152.01	370.04
23 21 23 13-0020 EA 7-1/2 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	8,322.90	455.49
23 21 23 13-0021 EA 10 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	10,709.03	493.38
23 21 23 13-0022 EA 15 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	12,514.28	522.38
23 21 23 13-0023 EA 20 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	16,076.04	555.06
23 21 23 13-0024 EA 25 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	16,962.90	573.62
23 21 23 13-0025 EA 30 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	17,849.76	592.06
23 21 23 13-0026 EA 40 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	21,191.14	634.40
23 21 23 13-0027 EA 50 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	22,967.92	746.22
23 21 23 13-0028 EA 60 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	25,404.73	1,077.82
23 21 23 13-0029 EA 75 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	30,082.25	2,155.63
23 21 23 13-0030 EA 100 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	34,591.32	2,586.76

23 21 23 16 Base-Mounted, Centrifugal Hydronic Pumps (23 21 23)

See CSI section 26 29 23 00-0000 for variable frequency motor controllers.

23 21 23 16-0001 Single Stage, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)

Note: 1800 RPM, welded steel baseplate, internally flushed mechanical seal, bronze wear ring, galvanized drip pan, and 3 phase 230/460V premium efficiency motor. Bell & Gossett 1510 Series.

23 21 23 16-0002 EA 5 HP, 50 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/4 BC, BF, 184T)	6,658.99	352.26
23 21 23 16-0003 EA 7.5 HP, 100 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/2 BC, BF, 213T)	7,472.85	352.70
23 21 23 16-0004 EA 10 HP, 225 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 215T)	9,855.64	463.38
23 21 23 16-0005 EA 15 HP, 250 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 254T)	10,791.36	570.06
23 21 23 16-0006 EA 15 HP, 300 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 G, BF, 254T)	12,088.76	570.06
23 21 23 16-0007 EA 20 HP, 350 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 E, BF, 256T)	11,750.16	617.84
23 21 23 16-0008 EA 20 HP, 500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 256T)	12,487.78	617.84
23 21 23 16-0009 EA 25 HP, 600 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 284T)	13,644.56	647.85
23 21 23 16-0010 EA 30 HP, 750 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 286T)	15,178.05	823.42
23 21 23 16-0011 EA 40 HP, 1,050 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 324T)	16,055.26	925.65
23 21 23 16-0012 EA 60 HP, 1,500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 6 E, BF, 364T)	24,755.14	2,266.09
23 21 23 16-0013 EA 75 HP, 2,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 365T)	35,885.27	2,718.82
23 21 23 16-0014 EA 100 HP, 3,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 404TS)	40,699.82	3,398.52

23 21 23 16-0015 Single Stage, Vertical Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)

Note: 125 Lb. flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.

23 21 23 16-0016 EA 1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	6,850.51	258.91
For 300 Lb. Flanges, Add	1,595.90	
23 21 23 16-0017 EA 2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	8,745.09	277.81
For 300 Lb. Flanges, Add	2,082.10	
23 21 23 16-0018 EA 3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	10,964.49	296.70
For 300 Lb. Flanges, Add	2,617.65	
23 21 23 16-0019 EA 5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	12,783.21	352.26
For 300 Lb. Flanges, Add	3,037.06	
23 21 23 16-0020 EA 7-1/2 HP, 150 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	13,434.99	352.70
For 300 Lb. Flanges, Add	3,192.06	
23 21 23 16-0021 EA 10 HP, 200 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	14,027.65	463.38
For 300 Lb. Flanges, Add	3,298.56	
23 21 23 16-0022 EA 10 HP, 225 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	14,342.58	463.38
For 300 Lb. Flanges, Add	3,377.29	
23 21 23 16-0023 EA 10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	15,040.17	463.38
For 300 Lb. Flanges, Add	3,551.69	
23 21 23 16-0024 EA 15 HP, 300 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	17,453.63	570.06
For 300 Lb. Flanges, Add	4,106.97	
23 21 23 16-0025 EA 17-1/2 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	17,721.63	569.62
For 300 Lb. Flanges, Add	4,163.63	
23 21 23 16-0026 EA 20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	18,681.89	617.84
For 300 Lb. Flanges, Add	4,392.67	
23 21 23 16-0027 EA 25 HP, 600 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	20,502.03	647.85
For 300 Lb. Flanges, Add	4,825.50	
23 21 23 16-0028 EA 30 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	22,643.49	823.42
For 300 Lb. Flanges, Add	5,290.46	
23 21 23 16-0029 EA 40 HP, 1,050 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	25,688.38	925.65
For 300 Lb. Flanges, Add	6,005.38	
23 21 23 16-0030 EA 60 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	40,022.58	2,266.09
For 300 Lb. Flanges, Add	8,913.26	
23 21 23 16-0031 EA 75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	47,597.55	2,718.82
For 300 Lb. Flanges, Add	10,588.53	
23 21 23 16-0032 EA 100 HP, 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	58,038.71	3,398.52
For 300 Lb. Flanges, Add	12,871.10	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 21 23 16-0033	Single Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)		
	Note: 125 Lb. flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.		
23 21 23 16-0034	EA 1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	6,567.57	258.91
	For 300 Lb. Flanges, Add	1,525.17	
23 21 23 16-0035	EA 2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	6,740.67	277.81
	For 300 Lb. Flanges, Add	1,560.14	
23 21 23 16-0036	EA 3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	6,913.92	296.70
	For 300 Lb. Flanges, Add	1,595.13	
23 21 23 16-0037	EA 5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	7,512.25	303.37
	For 300 Lb. Flanges, Add	1,741.44	
23 21 23 16-0038	EA 7-1/2 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	12,271.40	352.26
	For 300 Lb. Flanges, Add	2,909.10	
23 21 23 16-0039	EA 10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	14,868.78	463.38
	For 300 Lb. Flanges, Add	3,537.03	
23 21 23 16-0040	EA 15 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	16,717.90	500.05
	For 300 Lb. Flanges, Add	3,971.12	
23 21 23 16-0041	EA 20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	17,670.72	555.61
	For 300 Lb. Flanges, Add	4,161.24	
23 21 23 16-0042	EA 25 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	19,688.24	554.85
	For 300 Lb. Flanges, Add	4,672.61	
23 21 23 16-0043	EA 40 HP, 1,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	22,047.72	713.07
	For 300 Lb. Flanges, Add	5,191.21	
23 21 23 16-0044	EA 50 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	28,066.53	906.68
	For 300 Lb. Flanges, Add	6,579.68	
23 21 23 16-0045	EA 75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	35,825.43	1,132.44
	For 300 Lb. Flanges, Add	8,410.17	
23 21 23 16-0046	EA 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 100 HP.....	45,062.68	1,359.41
	For 300 Lb. Flanges, Add	10,610.24	
23 21 23 16-0047	EA 150 HP, 3,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	53,419.04	1,509.91
	For 300 Lb. Flanges, Add	12,626.51	
23 21 23 16-0048	EA 200 HP, 4,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	61,451.91	1,942.01
	For 300 Lb. Flanges, Add	14,426.65	
23 21 23 16-0049	Two Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)		
	Note: 3500 RPM drip-proof motor, common base plate 500' head. Packed stuffing box and boiler feed water service.		
23 21 23 16-0050	EA 40 HP, 100 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....	41,836.17	570.06
	For 300 Lb. Flanges, Add	10,202.61	
23 21 23 16-0051	EA 50 HP, 200 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....	45,163.28	617.84
	For 300 Lb. Flanges, Add	11,013.01	
23 21 23 16-0052	EA 75 HP, 300 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....	60,287.46	831.79
	For 300 Lb. Flanges, Add	14,690.99	
23 21 23 16-0053	EA 100 HP, 400 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....	70,368.98	1,142.95
	For 300 Lb. Flanges, Add	17,068.55	
23 21 23 16-0054	EA 200 HP, 800 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case.....	97,646.89	1,523.93
	For 300 Lb. Flanges, Add	23,713.46	
23 21 23 16-0055	Cast Iron Close Coupling Pumps (23 21 23 16)		
23 21 23 16-0056	Foot Mounted Cast Iron Close Coupled Pumps (23 21 23 16-0055)		
23 21 23 16-0057	EA 3 HP, 90 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 1-1/2 AC, BF, 182JM).....	5,959.37	333.37
23 21 23 16-0058	EA 3 HP, 150 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 AB, BF, 182JM).....	6,489.99	333.37
23 21 23 16-0059	EA 5 HP, 225 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 BB, BF, 184JM).....	7,219.04	351.90
23 21 23 16-0060	EA 5 HP, 350 GPM At 25' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 184JM).....	7,688.43	351.90
23 21 23 16-0061	EA 7.5 HP, 350 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 213JM).....	8,840.22	370.04
23 21 23 16-0062	EA 10 HP, 600 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 5 A, BF, 215JM).....	10,476.42	445.45
23 21 23 16-0063	EA 15 HP, 1,000 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 254JP).....	13,757.35	548.76
23 21 23 16-0064	EA 20 HP, 1,350 GPM At 30' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 256JP).....	14,726.64	593.93
23 21 23 16-0065	EA 25 HP, 1,550 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 284JP).....	17,061.61	641.44
23 21 23 16-0066	Pumps, Polypropylene Body, Housing And Impeller, 115/230 Volt (23 21 23 16)		
23 21 23 16-0067	EA 1/3 HP, Centrifugal Pump, Polypropylene Body.....	1,498.89	172.19
23 21 23 16-0068	EA 1/2 HP, Centrifugal Pump, Polypropylene Body.....	1,599.04	182.56
23 21 23 16-0069	EA 3/4 HP, Centrifugal Pump, Polypropylene Body.....	1,865.13	194.38

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0070 Multi Stage, Stainless Steel, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16) Note: 3500RPM, 3 phase 208 to 240/480 Volt. (Goulds EHM)		
23 21 23 16-0071 EA 2 HP, 30 GPM At 140' Head, Stainless Steel Booster Pump (Goulds 5HM05N15T6PBQE).....	2,796.40	333.37
23 21 23 16-0072 Multi Stage, Stainless Steel, Vertical Centrifugal Pump (23 21 23 16) Note: Suction And Discharge Ports On The Same Level		
23 21 23 16-0073 EA 7.5 HP, 90.3 GPM @ 206' Head, Multi Stage, Stainless Steel, Vertical Centrifugal Pump (Grundfos CRN15-4).....	9,598.59	474.49
23 21 23 16-0074 EA 15 HP, 159 GPM @ 250' Head, Multi Stage, Stainless Steel, Vertical Centrifugal Pump (Grundfos CRN32-4).....	13,152.83	586.73
23 21 23 16-0075 EA 25 HP, 239 GPM @ 212' Head, Multi Stage, Stainless Steel, Vertical Centrifugal Pump (Grundfos CRN64-2).....	16,113.64	740.08
23 21 23 23 Vertical-Turbine Hydronic Pumps (23 21 23) See CSI section 26 29 23 00-0000 for variable frequency motor controllers.		
23 21 23 23-0001 Cast Iron, Bronze Fitted Vertical Turbine Wet Sump Pumps (23 21 23 23) Note: For water supply, cooling towers and process liquids. Multi-stage 1750 RPM drip-proof motor. For 1' to 5' sump depth.		
23 21 23 23-0002 EA 2 HP, 50 GPM Cast Iron Turbine Pump, 3" Discharge 100' Head, 10 Stage..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	13,306.88 1,113.94 482.89 349.82	823.42
23 21 23 23-0003 EA 3 HP, 100 GPM Cast Iron Turbine Pump, 4" Discharge 100' Head, 7 Stage..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	15,378.18 1,280.04 565.34 411.56	925.65
23 21 23 23-0004 EA 15 HP, 250 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 5 Stage..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	18,578.45 1,551.30 678.12 492.33	906.68
23 21 23 23-0005 EA 25 HP, 500 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 3 Stage..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	21,939.73 1,822.40 810.37 590.97	1,046.26
23 21 23 23-0006 EA 50 HP, 1,000 GPM Cast Iron Turbine Pump, 8" Discharge 150' Head, 2 Stage..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	27,058.01 2,237.47 1,009.50 738.91	1,132.44
23 21 23 23-0007 EA 100 HP, 2,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 3 Stage..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	35,609.03 2,936.11 1,336.97 980.88	1,359.41
23 21 23 23-0008 EA 150 HP, 3,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 2 Stage..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	42,604.98 3,517.64 1,594.96 1,168.91	1,699.26
23 21 23 23-0009 EA 200 HP, 4,000 GPM Cast Iron Turbine Pump, 12" Discharge 150' Head, 2 Stage..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	68,401.00 5,596.92 2,611.20 1,927.19	1,942.01
23 21 23 23-0010 EA 250 HP, 6,000 GPM Cast Iron Turbine Pump, 14" Discharge 150' Head, 2 Stage..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	89,749.99 7,325.65 3,444.35 2,546.85	2,266.09
23 21 23 23-0011 EA 300 HP, 10,000 GPM Cast Iron Turbine Pump, 18" Discharge 100' Head, 2 Stage..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	125,740.42 10,234.01 4,854.84 3,597.43	2,718.82
23 21 29 Automatic Condensate Pump Units (23 21) 23 21 29 00-0001 Automatic Shallow Pan Condensate Pump (23 21 29)		
23 21 29 00-0002 EA 1/150 HP, 205 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 1-ABS).....	237.54	36.11
23 21 29 00-0003 EA 1/40 HP, 300 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 2-ABS).....	258.23	36.11
23 21 29 00-0004 EA 1/12 HP, 310 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 3-ABS).....	405.41	41.67
23 21 29 00-0005 Automatic Condensate Pump With Tank (23 21 29)		
23 21 29 00-0006 EA 1/20 HP Automatic Condensate Pump With Tank (Hartell KT-15-1UL).....	128.77	27.78
23 21 29 00-0007 EA 1/30 HP Automatic Condensate Pump With Tank (Little Giant VCMX-20).....	137.60	27.78
23 21 29 00-0008 EA 1/50 HP, 200 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-14ULS).....	230.77	36.11
23 21 29 00-0009 EA 1/18 HP, 270 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-24ULS).....	248.65	41.67
23 21 29 00-0010 EA 1/5 HP, 450 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-45ULS)..... Condensate Pump.....	464.64	47.23
23 22 Steam and Condensate Piping and Pumps (23 20)		
23 22 16 Steam and Condensate Heating Piping Specialties (23 22)		
23 22 16 00-0001 High Temperature Safety Relief Valve (23 22 16) Note: Used in steam or water boiler, heating systems and unfired pressure vessel applications.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0002		Cast Iron Body Safety Valve, Steam Or Water (23 22 16 00-0001)		
		Note: Variable set points to 500 PSIG pressure, 400 Degree F temperature range.		
23 22 16 00-0003		Threaded (23 22 16 00-0002)		
23 22 16 00-0004	EA	3/4" x 1" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	524.20	18.09
23 22 16 00-0005	EA	1" x 1-1/4" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	548.49	21.41
23 22 16 00-0006	EA	1-1/4" x 1-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	604.88	27.14
23 22 16 00-0007	EA	1-1/2" x 2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	746.22	30.16
23 22 16 00-0008	EA	2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	955.43	37.09
23 22 16 00-0009	EA	2-1/2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,483.19	42.22
23 22 16 00-0010	EA	3" x 3" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,607.21	48.55
23 22 16 00-0011		Flanged (23 22 16 00-0002)		
23 22 16 00-0012	EA	1-1/2" x 2-1/2" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	3,696.32	126.64
23 22 16 00-0013	EA	2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	4,302.41	190.37
23 22 16 00-0014	EA	2-1/2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	4,754.04	175.30
23 22 16 00-0015	EA	2-1/2" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	5,773.42	253.19
23 22 16 00-0016	EA	3" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	6,163.69	188.81
23 22 16 00-0017	EA	3" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	7,241.16	253.19
23 22 16 00-0018	EA	4" x 6" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	12,119.28	359.29
23 22 16 00-0019	EA	6" x 8" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	24,113.33	401.26
23 22 16 00-0020		Bronze Body Safety Valve, Threaded, Steam (23 22 16 00-0001)		
		Note: Variable set points to 250 PSIG pressure, 400 Degree F temperature range. Valve also can be set for Air or Gas with variable set points to 300 PSIG pressure.		
23 22 16 00-0021	EA	3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Steam	570.62	16.59
23 22 16 00-0022	EA	3/4" x 1" Threaded Bronze Body Safety Relief Valve, Steam	584.41	18.09
23 22 16 00-0023	EA	1" x 1" Threaded Bronze Body Safety Relief Valve, Steam	684.14	19.90
23 22 16 00-0024	EA	1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	755.52	21.41
23 22 16 00-0025	EA	1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	874.22	24.12
23 22 16 00-0026	EA	1-1/4" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	878.33	27.14
23 22 16 00-0027	EA	1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	988.08	28.65
23 22 16 00-0028	EA	1-1/2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,076.89	30.16
23 22 16 00-0029	EA	2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,496.02	33.77
23 22 16 00-0030	EA	2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,634.96	37.09
23 22 16 00-0031	EA	2-1/2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,951.02	42.22
23 22 16 00-0032		Bronze Body Safety Valve, Threaded, Water (23 22 16 00-0001)		
		Note: Variable set points to 160 psig pressure, 250 Degree F temperature range.		
23 22 16 00-0033	EA	3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Water	267.59	16.59
23 22 16 00-0034	EA	3/4" x 1" Threaded Bronze Body Safety Relief Valve, Water	305.03	18.09
23 22 16 00-0035	EA	1" x 1" Threaded Bronze Body Safety Relief Valve, Water	423.12	19.90
23 22 16 00-0036	EA	1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	465.92	21.41
23 22 16 00-0037	EA	1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	674.73	24.12
23 22 16 00-0038	EA	1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Water	910.62	28.65
23 22 16 00-0039	EA	2" x 2" Threaded Bronze Body Safety Relief Valve, Water	1,329.19	33.77
23 22 16 00-0040		Steam Temperature Regulator, Iron Body (23 22 16)		
23 22 16 00-0041		Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0040)		
		Note: Up to 150 PSI.		
23 22 16 00-0042	EA	1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,410.27	17.36
23 22 16 00-0043	EA	3/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,483.66	23.40
23 22 16 00-0044	EA	1" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,969.05	28.83
23 22 16 00-0045	EA	1-1/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,174.02	36.43
23 22 16 00-0046	EA	1-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,230.55	41.85
23 22 16 00-0047	EA	2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,635.88	45.54
23 22 16 00-0048	EA	2-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,354.42	83.41
23 22 16 00-0049	EA	3" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	5,495.45	90.96
23 22 16 00-0050	EA	4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,998.01	212.91
23 22 16 00-0051	EA	6" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	13,376.80	249.90
23 22 16 00-0052		Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0040)		
23 22 16 00-0053	EA	1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,091.05	17.36
23 22 16 00-0054	EA	3/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,165.48	23.40
23 22 16 00-0055	EA	1" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,261.82	28.83
23 22 16 00-0056	EA	1-1/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,707.44	36.43
23 22 16 00-0057	EA	1-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,900.35	41.85
23 22 16 00-0058	EA	2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,293.62	45.54
23 22 16 00-0059	EA	2-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	5,046.96	83.41
23 22 16 00-0060	EA	3" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,631.52	90.96
23 22 16 00-0061	EA	4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	10,502.16	212.91
23 22 16 00-0062	EA	6" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	17,030.59	249.90



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Steam and Condensate Piping and Pumps			23 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0063 Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0040)		
23 22 16 00-0064 EA 1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,850.10	17.36
23 22 16 00-0065 EA 3/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,891.41	23.40
23 22 16 00-0066 EA 1" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,164.24	28.83
23 22 16 00-0067 EA 1-1/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,445.43	36.43
23 22 16 00-0068 EA 1-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,570.15	41.85
23 22 16 00-0069 EA 2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,027.61	45.54
23 22 16 00-0070 EA 2-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,453.40	83.41
23 22 16 00-0071 EA 3" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	10,832.82	90.96
23 22 16 00-0072 EA 4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	13,636.57	212.91
23 22 16 00-0073 EA 6" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	19,161.04	249.90
23 22 16 00-0074 Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0040)		
23 22 16 00-0075 EA 1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,652.24	17.36
23 22 16 00-0076 EA 3/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,689.56	23.40
23 22 16 00-0077 EA 1" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,006.49	28.83
23 22 16 00-0078 EA 1-1/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,175.35	36.43
23 22 16 00-0079 EA 1-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,336.19	41.85
23 22 16 00-0080 EA 2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,721.46	45.54
23 22 16 00-0081 EA 2-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,854.47	83.41
23 22 16 00-0082 EA 3" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	11,390.54	90.96
23 22 16 00-0083 EA 4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	14,194.29	212.91
23 22 16 00-0084 EA 6" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	19,718.77	249.90
23 22 16 00-0085 Steam Traps (23 22 16)		
23 22 16 00-0086 Inverted Bucket Steam Traps (23 22 16 00-0085)		
23 22 16 00-0087 EA 1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap	343.64	36.20
For Work In Restricted Working Space, Add	21.72	
23 22 16 00-0088 EA 3/4" 250 PSI Inverted Bucket Cast Iron Steam Trap	346.66	37.70
For Work In Restricted Working Space, Add	22.62	
23 22 16 00-0089 EA 1" 250 PSI Inverted Bucket Cast Iron Steam Trap	517.08	40.18
For Work In Restricted Working Space, Add	24.13	
23 22 16 00-0090 EA 1-1/4" 250 PSI Inverted Bucket Cast Iron Steam Trap	837.42	54.84
For Work In Restricted Working Space, Add	32.91	
23 22 16 00-0091 EA 1-1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap	1,248.16	67.57
For Work In Restricted Working Space, Add	40.22	
23 22 16 00-0092 EA 2" 250 PSI Inverted Bucket Cast Iron Steam Trap	1,591.25	100.55
For Work In Restricted Working Space, Add	60.33	
23 22 16 00-0093 Float And Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0094 EA 3/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	363.30	37.70
For Work In Restricted Working Space, Add	22.62	
23 22 16 00-0095 EA 1" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	479.58	40.22
For Work In Restricted Working Space, Add	24.13	
23 22 16 00-0096 EA 1-1/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	592.64	54.84
For Work In Restricted Working Space, Add	32.91	
23 22 16 00-0097 EA 1-1/2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	869.08	67.03
For Work In Restricted Working Space, Add	40.22	
23 22 16 00-0098 EA 2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,469.11	100.51
For Work In Restricted Working Space, Add	60.33	
23 22 16 00-0099 EA 3/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	463.53	37.70
For Work In Restricted Working Space, Add	22.62	
23 22 16 00-0100 EA 1" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	503.84	40.18
For Work In Restricted Working Space, Add	24.13	
23 22 16 00-0101 EA 1-1/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	658.78	54.84
For Work In Restricted Working Space, Add	32.91	
23 22 16 00-0102 EA 1-1/2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,029.16	66.97
For Work In Restricted Working Space, Add	40.22	
23 22 16 00-0103 EA 2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,616.86	100.55
For Work In Restricted Working Space, Add	60.33	
23 22 16 00-0104 EA 3/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	602.46	37.70
For Work In Restricted Working Space, Add	22.62	
23 22 16 00-0105 EA 1" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	671.44	40.22
For Work In Restricted Working Space, Add	24.13	
23 22 16 00-0106 EA 1-1/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,022.66	54.84
For Work In Restricted Working Space, Add	32.91	
23 22 16 00-0107 EA 1-1/2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,229.64	66.97
For Work In Restricted Working Space, Add	40.22	
23 22 16 00-0108 EA 2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	2,033.64	100.55
For Work In Restricted Working Space, Add	60.33	
23 22 16 00-0109 EA 3/4" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	611.28	37.70
For Work In Restricted Working Space, Add	22.62	
23 22 16 00-0110 EA 1" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	671.44	40.22
For Work In Restricted Working Space, Add	24.13	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0111	EA	1-1/4" 150 PSI Max Pressure Float And Thermostatic Steam Trap	1,022.66	54.84
		<i>For Work In Restricted Working Space, Add</i>	32.91	
23 22 16 00-0112	EA	1-1/2" 150 PSI Max Pressure Float And Thermostatic Steam Trap	1,229.64	66.97
		<i>For Work In Restricted Working Space, Add</i>	40.22	
23 22 16 00-0113	EA	2" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	2,033.64	100.55
		<i>For Work In Restricted Working Space, Add</i>	60.33	
23 22 16 00-0114		Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0115	EA	1/2" 25 PSI Maximum Pressure Thermostatic Steam Trap	174.70	36.20
		<i>For Work In Restricted Working Space, Add</i>	21.72	
23 22 16 00-0116	EA	3/4" 25 PSI Maximum Pressure Thermostatic Steam Trap	293.71	37.70
		<i>For Work In Restricted Working Space, Add</i>	22.62	
23 22 16 00-0117	EA	1" 25 PSI Maximum Pressure Thermostatic Steam Trap	363.22	40.18
		<i>For Work In Restricted Working Space, Add</i>	24.14	
23 22 16 00-0118		Thermodynamic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0119	EA	3/8" 600 PSI Maximum Pressure Thermodynamic Steam Trap	389.13	32.58
23 22 16 00-0120	EA	1/2" 600 PSI Maximum Pressure Thermodynamic Steam Trap	553.14	36.20
23 22 16 00-0121	EA	3/4" 600 PSI Maximum Pressure Thermodynamic Steam Trap	686.25	37.70
23 22 16 00-0122	EA	1" 600 PSI Maximum Pressure Thermodynamic Steam Trap	920.62	40.18
23 22 16 00-0123		Steam Moisture Separator (23 22 16 00-0085)		
23 22 16 00-0124	EA	1/2" Steam Moisture Separator, Threaded (Spirax Sarco S1)	892.59	60.33
23 22 16 00-0125	EA	3/4" Steam Moisture Separator, Threaded (Spirax Sarco S1)	940.48	81.45
23 22 16 00-0126	EA	1" Steam Moisture Separator, Threaded (Spirax Sarco S1)	1,134.56	91.70
23 22 16 00-0127	EA	1-1/2" Steam Moisture Separator, Threaded (Spirax Sarco S2)	1,807.87	104.97
23 22 16 00-0128	EA	2" Steam Moisture Separator, Flanged (Spirax Sarco S3)	2,203.55	160.84
23 22 16 00-0129	EA	2-1/2" Steam Moisture Separator, Flanged (Spirax Sarco S3)	3,334.72	174.96
23 22 16 00-0130	EA	3" Steam Moisture Separator, Flanged (Spirax Sarco S3)	3,799.94	205.13
23 22 16 00-0131	EA	4" Steam Moisture Separator, Flanged (Spirax Sarco S3)	5,257.81	343.88
23 22 16 00-0132	EA	6" Steam Moisture Separator, Flanged (Spirax Sarco S3)	10,338.76	434.38
23 22 16 00-0133		Steam/Condensate Meter (23 22 16)		
		Note: Meter shall be of the rotary volumetric type and sized on the maximum estimated steam demand.		
23 22 16 00-0134	EA	1" Steam/Condensate Meter	12,870.18	99.96
		<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
		<i>For Contactor Used For Dial Counter, Add</i>	567.00	
		<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
		<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
		<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0135	EA	2" Steam/Condensate Meter	14,513.74	117.46
		<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
		<i>For Contactor Used For Dial Counter, Add</i>	567.00	
		<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
		<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
		<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0136	EA	2-1/2" Steam/Condensate Meter	15,361.64	145.77
		<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
		<i>For Contactor Used For Dial Counter, Add</i>	567.00	
		<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
		<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
		<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0137	EA	3" Steam/Condensate Meter	16,232.86	191.59
		<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
		<i>For Contactor Used For Dial Counter, Add</i>	567.00	
		<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
		<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
		<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0138	EA	4" Steam/Condensate Meter	18,174.15	297.65
		<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
		<i>For Contactor Used For Dial Counter, Add</i>	567.00	
		<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
		<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
		<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0139	EA	6" Steam/Condensate Meter	31,331.61	376.51
		<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
		<i>For Contactor Used For Dial Counter, Add</i>	567.00	
		<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
		<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
		<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0140	EA	8" Steam/Condensate Meter	32,318.91	475.36
		<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
		<i>For Contactor Used For Dial Counter, Add</i>	567.00	
		<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
		<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
		<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
Steam and Condensate Piping and Pumps			23 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0141 EA 10" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	33,677.36 1,220.00 567.00 905.00 79.82 64.52	583.09
23 22 16 00-0142 EA 12" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	35,149.15 1,220.00 567.00 905.00 79.82 64.52	708.04
23 22 16 00-0143 EA 14" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	37,296.04 1,220.00 567.00 905.00 79.82 64.52	832.98
23 22 16 00-0144 EA 16" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	38,532.28 1,220.00 567.00 905.00 79.82 64.52	916.28

23 22 23 Steam Condensate Pumps (23 22)

23 22 23 13 Electric-Driven Steam Condensate Pumps (23 22 23)

23 22 23 13-0001 Simplex Condensate Pumps And Motors (23 22 23 13)

Note: Cast iron receiver, float switch.

23 22 23 13-0002 20 PSI Discharge Pressure (23 22 23 13-0001)

23 22 23 13-0003 EA 3 To 6 GPM Simplex Condensate Pump And 1/3 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	2,077.36	565.61
23 22 23 13-0004 EA 9 To 12 GPM Simplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	2,648.72	581.17
23 22 23 13-0005 EA 15 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	2,771.80	620.06
23 22 23 13-0006 EA 22.5 GPM Simplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,044.71	626.73
23 22 23 13-0007 EA 30 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,399.59	682.29
23 22 23 13-0008 EA 37.5 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,953.58	682.29
23 22 23 13-0009 EA 45 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,040.63	728.96
23 22 23 13-0010 EA 60 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	6,131.13	762.30
23 22 23 13-0011 EA 75 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	6,197.19	795.64

23 22 23 13-0012 30 PSI Discharge Pressure (23 22 23 13-0001)

23 22 23 13-0013 EA 3 To 6 GPM Simplex Condensate Pump And 1/2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	2,378.17	604.50
23 22 23 13-0014 EA 9 To 12 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,075.44	620.06
23 22 23 13-0015 EA 15 GPM Simplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,195.81	661.18
23 22 23 13-0016 EA 22.5 GPM Simplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,689.06	714.52
23 22 23 13-0017 EA 30 To 37.5 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,040.63	730.08
23 22 23 13-0018 EA 45 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,180.73	755.63
23 22 23 13-0019 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,340.58	795.64
23 22 23 13-0020 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	6,184.88	846.75

23 22 23 13-0021 40 PSI Discharge Pressure (23 22 23 13-0001)

23 22 23 13-0022 EA 3 To 6 GPM Simplex Condensate Pump And 1 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	2,653.47	693.40
23 22 23 13-0023 EA 9 To 15 GPM Simplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	3,332.21	748.96
23 22 23 13-0024 EA 22.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	3,890.87	740.08
23 22 23 13-0025 EA 30 To 37.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	5,156.05	755.63
23 22 23 13-0026 EA 45 GPM Simplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	5,267.76	787.86

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0027	EA	60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure		6,197.19	795.64
23 22 23 13-0028	EA	75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure		6,289.79	846.75
23 22 23 13-0029		50 PSI Discharge Pressure (23 22 23 13-0001)			
23 22 23 13-0030	EA	3 To 6 GPM Simplex Condensate Pump And 2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure		4,922.14	751.19
23 22 23 13-0031	EA	9 To 15 GPM Simplex Condensate Pump And 2 HP Motor With 13.6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure		3,596.38	766.75
23 22 23 13-0032	EA	22.5 GPM Simplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure		4,117.38	772.30
23 22 23 13-0033	EA	30 To 45 GPM Simplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure		5,359.12	840.09
23 22 23 13-0034	EA	60 To 75 GPM Simplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure		8,395.54	905.65
23 22 23 13-0035		Duplex Condensate Pumps And Motors (23 22 23 13) Note: Cast iron receiver, float switch, alternator assembly.			
23 22 23 13-0036		20 PSI Discharge Pressure (23 22 23 13-0035)			
23 22 23 13-0037	EA	9 To 12 GPM Duplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure		3,402.72	758.97
23 22 23 13-0038	EA	15 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure		3,610.00	833.42
23 22 23 13-0039	EA	22.5 GPM Duplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure		3,934.74	840.09
23 22 23 13-0040	EA	30 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure		4,393.56	915.65
23 22 23 13-0041	EA	37.5 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure		6,070.98	915.65
23 22 23 13-0042	EA	45 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure		6,194.81	986.77
23 22 23 13-0043	EA	60 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure		7,318.05	1,030.11
23 22 23 13-0044	EA	75 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure		7,503.21	1,081.22
23 22 23 13-0045		30 PSI Discharge Pressure (23 22 23 13-0035)			
23 22 23 13-0046	EA	9 To 12 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure		4,385.25	817.86
23 22 23 13-0047	EA	15 GPM Duplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure		4,597.09	893.42
23 22 23 13-0048	EA	22.5 GPM Duplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure		5,085.17	871.21
23 22 23 13-0049	EA	30 To 37.5 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure		6,194.81	986.77
23 22 23 13-0050	EA	45 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure		6,372.57	1,023.43
23 22 23 13-0051	EA	60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure		7,256.35	1,081.22
23 22 23 13-0052	EA	75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure		7,619.89	1,159.01
23 22 23 13-0053		40 PSI Discharge Pressure (23 22 23 13-0035)			
23 22 23 13-0054	EA	9 To 15 GPM Duplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure		4,770.29	964.54
23 22 23 13-0055	EA	22.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure		5,260.45	1,007.88
23 22 23 13-0056	EA	30 To 37.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure		6,387.38	1,023.43
23 22 23 13-0057	EA	45 GPM Duplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure		6,573.79	1,074.56
23 22 23 13-0058	EA	60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure		7,504.44	1,081.22
23 22 23 13-0059	EA	75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure		7,649.51	1,159.01
23 22 23 13-0060		50 PSI Discharge Pressure (23 22 23 13-0035)			
23 22 23 13-0061	EA	9 To 15 GPM Duplex Condensate Pump And 2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure		4,975.19	964.54
23 22 23 13-0062	EA	22.5 GPM Duplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure		5,372.81	1,060.11
23 22 23 13-0063	EA	30 To 45 GPM Duplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure		6,720.08	1,151.23
23 22 23 13-0064	EA	60 To 75 GPM Duplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure		11,573.40	1,246.80

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Refrigerant Piping

23 23

23

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
23 23 Refrigerant Piping (23 20)					
23 23 13 Refrigerant Piping Valves (23 23)					
23 23 13 00-0001 Ball Valves (23 23 13)					
23 23 13 00-0002 Refrigeration Ball Valves, Sweat, 1400 Series (23 23 13 00-0001)					
23 23 13 00-0003	EA	3/8" Refrigeration Ball Valve, Sweated	49.36		12.06
23 23 13 00-0004	EA	1/2" Refrigeration Ball Valve, Sweated	51.30		12.06
23 23 13 00-0005	EA	5/8" Refrigeration Ball Valve, Sweated	69.41		12.06
23 23 13 00-0006	EA	7/8" Refrigeration Ball Valve, Sweated	92.92		13.27
23 23 13 00-0007	EA	1-1/8" Refrigeration Ball Valve, Sweated	130.60		15.08
23 23 13 00-0008	EA	1-5/8" Refrigeration Ball Valve, Sweated	213.19		18.57
23 23 13 00-0009 Shut-Off Valves (23 23 13)					
23 23 13 00-0010 Packless (23 23 13 00-0009)					
23 23 13 00-0011	EA	1/2" Refrigeration Valve, Packless.....	66.85		12.55
23 23 13 00-0012	EA	5/8" Refrigeration Valve, Packless.....	83.76		13.76
23 23 13 00-0013	EA	7/8" Refrigeration Valve, Packless.....	172.55		18.82
23 23 13 00-0014 Packed (23 23 13 00-0009)					
23 23 13 00-0015	EA	1-1/8" Refrigeration Valve, Packed.....	307.10		27.39
23 23 13 00-0016	EA	1 3/8" Refrigeration Valve, Packed.....	410.86		33.54
23 23 13 00-0017	EA	1-5/8" Refrigeration Valve, Packed.....	500.76		37.76
23 23 13 00-0018	EA	2-1/8" Refrigeration Valve, Packed.....	716.46		43.08
23 23 13 00-0019	EA	2-5/8" Refrigeration Valve, Packed.....	1,184.41		120.66
23 23 13 00-0020	EA	3-1/8" Refrigeration Valve, Packed.....	1,554.88		150.83
23 23 13 00-0021	EA	4-1/8" Refrigeration Valve, Packed.....	2,212.26		201.14
23 23 13 00-0022 Check Valves (23 23 13)					
23 23 13 00-0023	EA	5/8" Check Valve, Refrigeration.....	84.19		12.06
23 23 13 00-0024	EA	7/8" Check Valve, Refrigeration.....	268.87		13.27
23 23 13 00-0025	EA	1-1/8" Check Valve, Refrigeration.....	311.71		15.08
23 23 13 00-0026	EA	1 3/8" Check Valve, Refrigeration.....	420.01		16.05
23 23 13 00-0027	EA	1-5/8" Check Valve, Refrigeration.....	553.54		18.58
23 23 13 00-0028	EA	2-1/8" Check Valve, Refrigeration.....	822.00		21.96
23 23 13 00-0029	EA	2-5/8" Check Valve, Refrigeration.....	1,150.39		32.21
23 23 13 00-0030	EA	3-1/8" Check Valve, Refrigeration.....	1,523.04		42.23
23 23 13 00-0031 Solenoid Valves (23 23 13)					
23 23 13 00-0032 Solenoid Valve, 24 Volt Coil (23 23 13 00-0031)					
23 23 13 00-0033	EA	1/2" Solenoid Valve, Refrigeration.....	229.50		12.06
23 23 13 00-0034	EA	5/8" Solenoid Valve, Refrigeration.....	235.03		12.06
23 23 13 00-0035	EA	3/4" Solenoid Valve, Refrigeration.....	290.49		13.27
23 23 13 00-0036	EA	7/8" Solenoid Valve, Refrigeration.....	290.49		13.27
23 23 13 00-0037	EA	1-1/8" Solenoid Valve, Refrigeration.....	406.94		15.08
23 23 13 00-0038	EA	1 3/8" Solenoid Valve, Refrigeration.....	653.74		16.05
23 23 13 00-0039	EA	1-5/8" Solenoid Valve, Refrigeration.....	1,204.79		18.58
23 23 13 00-0040	EA	2-1/8" Solenoid Valve, Refrigeration.....	1,221.66		21.96
23 23 16 Refrigerant Piping Specialties (23 23)					
23 23 16 00-0001 Soft Refrigeration Copper Tubing (23 23 16)					
Note: Based on outside diameter. Nitrogenized. Lengths up to 100' See CSI section 22 07 19 00-0375 for flexible elastomeric insulation (insulation on suction line only).					
23 23 16 00-0002	LF	1/8" Outside Diameter Soft Refrigeration Copper Tubing	5.05		2.87
23 23 16 00-0003	LF	3/16" Outside Diameter Soft Refrigeration Copper Tubing	5.30		2.94
23 23 16 00-0004	LF	1/4" Outside Diameter Soft Refrigeration Copper Tubing	5.54		3.03
23 23 16 00-0005	LF	5/16" Outside Diameter Soft Refrigeration Copper Tubing	5.95		3.08
23 23 16 00-0006	LF	3/8" Outside Diameter Soft Refrigeration Copper Tubing	6.13		3.12
23 23 16 00-0007	LF	1/2" Outside Diameter Soft Refrigeration Copper Tubing	6.90		3.28
23 23 16 00-0008	LF	5/8" Outside Diameter Soft Refrigeration Copper Tubing	7.60		3.32
23 23 16 00-0009	LF	3/4" Outside Diameter Soft Refrigeration Copper Tubing	8.33		3.43
23 23 16 00-0010	LF	7/8" Outside Diameter Soft Refrigeration Copper Tubing	10.76		4.03
23 23 16 00-0011	LF	1-1/8" Outside Diameter Soft Refrigeration Copper Tubing	13.69		4.62
23 23 16 00-0012	LF	1-3/8" Outside Diameter Soft Refrigeration Copper Tubing	19.84		5.47
23 23 16 00-0013	LF	1-5/8" Outside Diameter Soft Refrigeration Copper Tubing	23.94		6.12
23 23 16 00-0014 Refrigeration Copper Tubing Assembly (23 23 16)					
Note: Based on outside diameter. Nitrogenized. Includes pipe, 1/2" thick flexible elastomeric foam insulation, coupling fittings and fastener straps. See CSI section 22 07 19 00-0375 for flexible elastomeric insulation (insulation on suction line only).					
23 23 16 00-0015	LF	1/4" Outside Diameter, Soft Refrigeration Copper Tubing With 1/2" Elastomeric Insulation	8.45		3.24

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0016 LF 5/16" Outside Diameter, Soft Refrigeration Copper Tubing With 1/2" Elastomeric Insulation	8.85	3.29
23 23 16 00-0017 LF 3/8" Outside Diameter, Soft Refrigeration Copper Tubing With 1/2" Elastomeric Insulation	8.99	3.38
23 23 16 00-0018 LF 1/2" Outside Diameter, Soft Refrigeration Copper Tubing With 1/2" Elastomeric Insulation	10.00	3.62
23 23 16 00-0019 LF 5/8" Outside Diameter, Soft Refrigeration Copper Tubing With 1/2" Elastomeric Insulation	10.85	3.62
23 23 16 00-0020 LF 3/4" Outside Diameter, Soft Refrigeration Copper Tubing With 1/2" Elastomeric Insulation	12.44	4.22
23 23 16 00-0021 LF 7/8" Outside Diameter, Soft Refrigeration Copper Tubing With 1/2" Elastomeric Insulation	14.57	4.46
23 23 16 00-0022 LF 1-1/8" Outside Diameter, Soft Refrigeration Copper Tubing With 1/2" Elastomeric Insulation	18.53	5.43
23 23 16 00-0023 LF 1-3/8" Outside Diameter, Soft Refrigeration Copper Tubing With 1/2" Elastomeric Insulation	25.13	6.27
23 23 16 00-0024 LF 1-5/8" Outside Diameter, Soft Refrigeration Copper Tubing With 1/2" Elastomeric Insulation	29.63	6.76
23 23 16 00-0025 Type L Drawn, ACR Copper Tubing (23 23 16)		
Note: Nitrogenized. Lengths up to 20'. See CSI section 22 07 19 00-0375 for flexible elastomeric insulation (insulation on suction line only).		
23 23 16 00-0026 LF 3/8" Outside Diameter Type L Drawn, ACR Copper Tubing	6.78	3.38
For Medical Applications "Oxygen Clean", Add	0.60	
23 23 16 00-0027 LF 1/2" Outside Diameter Type L Drawn, ACR Copper Tubing	7.63	3.38
For Medical Applications "Oxygen Clean", Add	0.64	
23 23 16 00-0028 LF 5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	8.18	3.38
For Medical Applications "Oxygen Clean", Add	0.67	
23 23 16 00-0029 LF 3/4" Outside Diameter Type L Drawn, ACR Copper Tubing	11.81	5.07
For Medical Applications "Oxygen Clean", Add	0.97	
23 23 16 00-0030 LF 7/8" Outside Diameter Type L Drawn, ACR Copper Tubing	12.91	5.43
For Medical Applications "Oxygen Clean", Add	1.05	
23 23 16 00-0031 LF 1-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	15.05	5.43
For Medical Applications "Oxygen Clean", Add	1.16	
23 23 16 00-0032 LF 1-3/8" Outside Diameter Type L Drawn, ACR Copper Tubing	18.74	6.27
For Medical Applications "Oxygen Clean", Add	1.41	
23 23 16 00-0033 LF 1-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	22.70	7.24
For Medical Applications "Oxygen Clean", Add	1.68	
23 23 16 00-0034 LF 2-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	32.17	9.05
For Medical Applications "Oxygen Clean", Add	2.29	
23 23 16 00-0035 LF 2-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	48.26	13.63
For Medical Applications "Oxygen Clean", Add	3.44	
23 23 16 00-0036 LF 3-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	62.45	16.90
For Medical Applications "Oxygen Clean", Add	4.39	
23 23 16 00-0037 LF 3-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	78.63	20.02
For Medical Applications "Oxygen Clean", Add	5.44	
23 23 16 00-0038 LF 4-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	97.22	24.13
For Medical Applications "Oxygen Clean", Add	6.67	
23 23 16 00-0039 Refrigeration Fittings (23 23 16)		
23 23 16 00-0040 Brass Flare Fittings (23 23 16 00-0039)		
23 23 16 00-0041 Brass Flare Unions (23 23 16 00-0040)		
23 23 16 00-0042 EA 3/8" Brass Flare Union	27.29	13.03
23 23 16 00-0043 EA 1/2" Brass Flare Union	27.29	13.03
23 23 16 00-0044 EA 5/8" Brass Flare Union	29.31	13.03
23 23 16 00-0045 90 Degree Elbow Brass Flare Unions (23 23 16 00-0040)		
23 23 16 00-0046 EA 3/8" 90 Degree Brass Flare Elbow Union	28.52	13.03
23 23 16 00-0047 EA 1/2" 90 Degree Brass Flare Elbow Union	28.52	13.03
23 23 16 00-0048 EA 5/8" 90 Degree Brass Flare Elbow Union	35.26	13.03
23 23 16 00-0049 Brass Flare Tees (23 23 16 00-0040)		
23 23 16 00-0050 EA 3/8" Brass Flare Tee	44.08	21.71
23 23 16 00-0051 EA 1/2" Brass Flare Tee	47.10	21.71
23 23 16 00-0052 EA 5/8" Brass Flare Tee	63.48	21.71
23 23 16 00-0053 Male Connector, Half Brass Flare Unions (23 23 16 00-0040)		
23 23 16 00-0054 EA 3/8" Brass Flare Male Connector, Half Union	21.76	13.03
23 23 16 00-0055 EA 1/2" Brass Flare Male Connector, Half Union	23.77	13.03
23 23 16 00-0056 EA 5/8" Brass Flare Male Connector, Half Union	26.64	13.03
23 23 16 00-0057 Female Connector, Half Brass Flare Unions (23 23 16 00-0040)		
23 23 16 00-0058 EA 3/8" Brass Flare Female Connector, Half Union	24.35	13.03
23 23 16 00-0059 EA 1/2" Brass Flare Female Connector, Half Union	27.08	13.03
23 23 16 00-0060 EA 5/8" Brass Flare Female Connector, Half Union	27.08	13.03
23 23 16 00-0061 Long Forged Nuts (23 23 16 00-0040)		
23 23 16 00-0062 EA 3/8" Brass Long Forged Nut	22.98	13.03
23 23 16 00-0063 EA 1/2" Brass Long Forged Nut	23.77	13.03
23 23 16 00-0064 EA 5/8" Brass Long Forged Nut	32.53	13.03

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Refrigerant Piping

23 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0065 Short Forged Nuts (23 23 16 00-0040)		
23 23 16 00-0066 EA 3/8" Brass Short Forged Nut.....	21.84	13.03
23 23 16 00-0067 EA 1/2" Brass Short Forged Nut.....	23.66	13.03
23 23 16 00-0068 EA 5/8" Brass Short Forged Nut.....	24.04	13.03
23 23 16 00-0069 ACR Wrought Copper Fittings (23 23 16 00-0039) Note: Soldered.		
23 23 16 00-0070 ACR Wrought Copper Coupling (23 23 16 00-0069) Note: C x C		
23 23 16 00-0071 EA 1/4" ACR Wrought Copper Coupling	21.29	13.03
23 23 16 00-0072 EA 3/8" ACR Wrought Copper Coupling	20.97	13.03
23 23 16 00-0073 EA 1/2" ACR Wrought Copper Coupling	21.45	13.03
23 23 16 00-0074 EA 5/8" ACR Wrought Copper Coupling	22.11	13.63
23 23 16 00-0075 EA 3/4" ACR Wrought Copper Coupling	31.35	17.97
23 23 16 00-0076 EA 7/8" ACR Wrought Copper Coupling	30.94	18.46
23 23 16 00-0077 EA 1-1/8" ACR Wrought Copper Coupling	40.91	22.93
23 23 16 00-0078 EA 1-3/8" ACR Wrought Copper Coupling	58.59	31.37
23 23 16 00-0079 EA 1-5/8" ACR Wrought Copper Coupling	70.49	36.81
23 23 16 00-0080 EA 2-1/8" ACR Wrought Copper Coupling	92.35	44.64
23 23 16 00-0081 EA 2-5/8" ACR Wrought Copper Coupling	159.01	67.81
23 23 16 00-0082 EA 3-1/8" ACR Wrought Copper Coupling	211.90	89.17
23 23 16 00-0083 EA 4-1/8" ACR Wrought Copper Coupling	336.58	105.94
23 23 16 00-0084 ACR Wrought Copper Short Radius 90 Degree Elbows (23 23 16 00-0069) Note: C x C		
23 23 16 00-0085 EA 1/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	25.62	13.03
23 23 16 00-0086 EA 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	25.94	13.03
23 23 16 00-0087 EA 1/2" ACR Wrought Copper Short Radius 90 Degree Elbow.....	25.62	13.03
23 23 16 00-0088 EA 5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	27.73	13.63
23 23 16 00-0089 EA 3/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	40.19	17.97
23 23 16 00-0090 EA 7/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	40.72	18.46
23 23 16 00-0091 EA 1-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	51.84	22.93
23 23 16 00-0092 EA 1-3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	64.90	31.37
23 23 16 00-0093 EA 1-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow	83.05	36.81
23 23 16 00-0094 EA 2-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	117.57	44.64
23 23 16 00-0095 EA 2-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow	203.10	67.81
23 23 16 00-0096 EA 3-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	261.22	89.17
23 23 16 00-0097 EA 4-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	485.15	105.94
23 23 16 00-0098 ACR Wrought Copper Long Radius 90 Degree Elbows (23 23 16 00-0069) Note: C x C		
23 23 16 00-0099 EA 1/4" ACR Wrought Copper Long Radius 90 Degree Elbow	31.02	13.03
23 23 16 00-0100 EA 3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	28.16	13.03
23 23 16 00-0101 EA 1/2" ACR Wrought Copper Long Radius 90 Degree Elbow	30.43	13.03
23 23 16 00-0102 EA 5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	30.34	13.63
23 23 16 00-0103 EA 3/4" ACR Wrought Copper Long Radius 90 Degree Elbow	37.00	17.97
23 23 16 00-0104 EA 7/8" ACR Wrought Copper Long Radius 90 Degree Elbow	40.39	18.46
23 23 16 00-0105 EA 1-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	54.84	22.93
23 23 16 00-0106 EA 1-3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	80.32	31.37
23 23 16 00-0107 EA 1-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	99.88	36.81
23 23 16 00-0108 EA 2-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	184.36	44.64
23 23 16 00-0109 EA 2-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	287.63	67.81
23 23 16 00-0110 EA 3-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	380.01	89.17
23 23 16 00-0111 EA 4-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	818.59	105.94
23 23 16 00-0112 ACR Wrought Copper 45 Degree Elbow (23 23 16 00-0069) Note: C x C		
23 23 16 00-0113 EA 1/4" ACR Wrought Copper 45 Degree Elbow	34.95	13.03
23 23 16 00-0114 EA 3/8" ACR Wrought Copper 45 Degree Elbow	31.02	13.03
23 23 16 00-0115 EA 1/2" ACR Wrought Copper 45 Degree Elbow	29.35	13.03
23 23 16 00-0116 EA 5/8" ACR Wrought Copper 45 Degree Elbow	24.47	13.63
23 23 16 00-0117 EA 3/4" ACR Wrought Copper 45 Degree Elbow	44.37	17.97
23 23 16 00-0118 EA 7/8" ACR Wrought Copper 45 Degree Elbow	34.60	18.46
23 23 16 00-0119 EA 1-1/8" ACR Wrought Copper 45 Degree Elbow	51.80	22.93
23 23 16 00-0120 EA 1-3/8" ACR Wrought Copper 45 Degree Elbow	70.45	31.37
23 23 16 00-0121 EA 1-5/8" ACR Wrought Copper 45 Degree Elbow	83.40	36.81
23 23 16 00-0122 EA 2-1/8" ACR Wrought Copper 45 Degree Elbow	113.91	44.64
23 23 16 00-0123 EA 2-5/8" ACR Wrought Copper 45 Degree Elbow	201.87	67.81
23 23 16 00-0124 EA 3-1/8" ACR Wrought Copper 45 Degree Elbow	273.60	89.17
23 23 16 00-0125 EA 4-1/8" ACR Wrought Copper 45 Degree Elbow	456.84	105.94
23 23 16 00-0126 ACR Wrought Copper Tee (23 23 16 00-0069) Note: C x C x C		
23 23 16 00-0127 EA 1/4" ACR Wrought Copper Tee	44.86	21.71
23 23 16 00-0128 EA 3/8" ACR Wrought Copper Tee	45.55	21.71

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0129 EA 1/2" ACR Wrought Copper Tee.....	42.98	21.71
23 23 16 00-0130 EA 5/8" ACR Wrought Copper Tee.....	44.66	27.39
23 23 16 00-0131 EA 3/4" ACR Wrought Copper Tee.....	64.77	27.39
23 23 16 00-0132 EA 7/8" ACR Wrought Copper Tee.....	50.53	27.75
23 23 16 00-0133 EA 1-1/8" ACR Wrought Copper Tee.....	82.78	36.81
23 23 16 00-0134 EA 1-3/8" ACR Wrought Copper Tee.....	104.14	44.64
23 23 16 00-0135 EA 1-5/8" ACR Wrought Copper Tee.....	136.88	52.97
23 23 16 00-0136 EA 2-1/8" ACR Wrought Copper Tee.....	195.50	70.59
23 23 16 00-0137 EA 2-5/8" ACR Wrought Copper Tee.....	411.83	154.08
23 23 16 00-0138 EA 3-1/8" ACR Wrought Copper Tee.....	513.56	169.41
23 23 16 00-0139 EA 4-1/8" ACR Wrought Copper Tee.....	910.37	188.23
23 23 16 00-0140 ACR Wrought Copper Male Adapter (23 23 16 00-0069)		
Note: C x M		
23 23 16 00-0141 EA 1/4" ACR Wrought Copper Male Adapter.....	38.86	13.03
23 23 16 00-0142 EA 3/8" ACR Wrought Copper Male Adapter.....	45.14	13.03
23 23 16 00-0143 EA 1/2" ACR Wrought Copper Male Adapter.....	34.70	13.03
23 23 16 00-0144 ACR Wrought Copper Female Adapter (23 23 16 00-0069)		
Note: C x F		
23 23 16 00-0145 EA 1/4" ACR Wrought Copper Female Adapter.....	36.39	13.03
23 23 16 00-0146 EA 3/8" ACR Wrought Copper Female Adapter.....	32.78	13.03
23 23 16 00-0147 EA 1/2" ACR Wrought Copper Female Adapter.....	34.15	13.03
23 23 16 00-0148 ACR Wrought Copper Cap (23 23 16 00-0069)		
Note: C		
23 23 16 00-0149 EA 1/4" ACR Wrought Copper Cap.....	16.00	8.69
23 23 16 00-0150 EA 3/8" ACR Wrought Copper Cap.....	14.86	8.69
23 23 16 00-0151 EA 1/2" ACR Wrought Copper Cap.....	15.97	8.69
23 23 16 00-0152 ACR Wrought Copper P-Trap (23 23 16 00-0069)		
23 23 16 00-0153 EA 5/8" ACR Wrought Copper P-Trap.....	106.44	11.11
23 23 16 00-0154 EA 3/4" ACR Wrought Copper P-Trap.....	145.62	12.22
23 23 16 00-0155 EA 7/8" ACR Wrought Copper P-Trap.....	125.56	12.22
23 23 16 00-0156 EA 1-1/8" ACR Wrought Copper P-Trap.....	172.12	13.33
23 23 16 00-0157 EA 1-3/8" ACR Wrought Copper P-Trap.....	299.69	13.33
23 23 16 00-0158 EA 1-5/8" ACR Wrought Copper P-Trap.....	425.10	14.45
23 23 16 00-0159 EA 2-1/8" ACR Wrought Copper P-Trap.....	776.24	15.56
23 23 16 00-0160 Sight Glass With Moisture And Liquid Indicator, Solder Connection (23 23 16)		
23 23 16 00-0161 EA 1/4" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection.....	62.62	16.67
23 23 16 00-0162 EA 3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection.....	76.06	20.00
23 23 16 00-0163 EA 1/2" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection.....	91.97	24.44
23 23 16 00-0164 EA 5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection.....	100.97	27.78
23 23 16 00-0165 EA 7/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection.....	136.52	35.56
23 23 16 00-0166 EA 1-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection.....	157.58	43.34
23 23 16 00-0167 EA 1-3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection.....	245.12	51.12
23 23 16 00-0168 EA 1-5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection.....	301.38	70.01
23 23 16 00-0169 EA 2-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection.....	369.81	86.67
23 23 16 00-0170 Filter Driers, Solder Connections (23 23 16)		
23 23 16 00-0171 Replaceable Core Type Filter Driers, Solder Connections (23 23 16 00-0170)		
23 23 16 00-0172 EA 5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections.....	573.47	10.01
23 23 16 00-0173 EA 7/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections.....	575.03	12.22
23 23 16 00-0174 EA 1-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections.....	734.25	12.22
23 23 16 00-0175 EA 1-3/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections.....	729.72	13.33
23 23 16 00-0176 EA 1-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections.....	811.54	14.45
23 23 16 00-0177 EA 2-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections.....	910.70	15.56
23 23 16 00-0178 EA 2-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections.....	1,063.57	16.67
23 23 16 00-0179 EA 3-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections.....	1,327.75	16.67
23 23 16 00-0180 Sealed In-Line Filter Driers, Solder Connections (23 23 16 00-0170)		
23 23 16 00-0181 EA 1/4" Outside Diameter, 1/4 To 1 Ton, Sealed In-Line Filter Drier, Solder Connections.....	90.57	10.01
23 23 16 00-0182 EA 3/8" Outside Diameter, 1/2 To 2 Ton, Sealed In-Line Filter Drier, Solder Connections.....	115.71	10.01
23 23 16 00-0183 EA 1/2" Outside Diameter, 1 To 7 Ton, Sealed In-Line Filter Drier, Solder Connections.....	147.77	11.11
23 23 16 00-0184 EA 1/2" Outside Diameter, 2 To 7-1/2 Ton, Sealed In-Line Filter Drier, Solder Connections.....	171.28	11.11
23 23 16 00-0185 EA 5/8" Outside Diameter, 2 To 10 Ton, Sealed In-Line Filter Drier, Solder Connections.....	188.25	11.11
23 23 16 00-0186 EA 5/8" Outside Diameter, 4 To 8 Ton, Sealed In-Line Filter Drier, Solder Connections.....	218.23	11.11
23 23 16 00-0187 EA 7/8" Outside Diameter, 5 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections.....	245.52	12.22
23 23 16 00-0188 EA 7/8" Outside Diameter, 7-1/2 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections.....	364.34	12.22
23 23 16 00-0189 EA 1-1/8" Outside Diameter, 15 To 25 Ton, Sealed In-Line Filter Drier, Solder Connections.....	396.05	12.22

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Piping and Pumps

23 20

Refrigerant Piping

23 23

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0190 Bi-Flow Filter Driers, Solder Connections (23 23 16 00-0170)		
23 23 16 00-0191 EA 1/4" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	127.77	10.01
23 23 16 00-0192 EA 3/8" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	142.19	10.01
23 23 16 00-0193 EA 1/2" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	169.44	11.11
23 23 16 00-0194 EA 3/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	152.69	10.01
23 23 16 00-0195 EA 1/2" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	191.10	11.11
23 23 16 00-0196 EA 5/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	221.95	11.11
23 23 16 00-0197 Refrigerant Compressor Discharge Mufflers (23 23 16)		
23 23 16 00-0198 EA 3/8" Outside Diameter, 2 Ton, Refrigerant Compressor Discharge Muffler	114.85	10.01
23 23 16 00-0199 EA 1/2" Outside Diameter, 3 Ton, Refrigerant Compressor Discharge Muffler	126.80	10.01
23 23 16 00-0200 EA 5/8" Outside Diameter, 5 Ton, Refrigerant Compressor Discharge Muffler	152.92	10.01
23 23 16 00-0201 EA 7/8" Outside Diameter, 7-1/2 To 10 Ton, Refrigerant Compressor Discharge Muffler	204.86	12.22
23 23 16 00-0202 EA 1-1/8" Outside Diameter, 10 To 15 Ton, Refrigerant Compressor Discharge Muffler	267.17	12.22
23 23 16 00-0203 EA 1-3/8" Outside Diameter, 15 To 25 Ton, Refrigerant Compressor Discharge Muffler	317.38	13.33
23 23 16 00-0204 EA 1-5/8" Outside Diameter, 25 To 50 Ton, Refrigerant Compressor Discharge Muffler	402.32	14.45
23 23 16 00-0205 EA 2-1/8" Outside Diameter, 50 To 75 Ton, Refrigerant Compressor Discharge Muffler	746.36	15.56
23 23 16 00-0206 EA 2-5/8" Outside Diameter, 75 To 100 Ton, Refrigerant Compressor Discharge Muffler	833.08	16.67
23 23 16 00-0207 EA 3-1/8" Outside Diameter, 100 To 125 Ton, Refrigerant Compressor Discharge Muffler	1,030.80	16.67
23 23 16 00-0208 Expansion Valves And Vibration Absorbers (23 23 16)		
23 23 16 00-0209 Thermostatic Expansion Valves (23 23 16 00-0208)		
Note: Outside diameter pipe sizes. Sporlan TP-S.		
23 23 16 00-0210 EA 3/8" In x 5/8" Out, 1/2 To 3 Ton, Thermostatic Expansion Valve	247.96	10.01
23 23 16 00-0211 EA 1/2" In x 7/8" Out, 4 To 5 Ton, Thermostatic Expansion Valve	345.37	11.11
23 23 16 00-0212 EA 5/8" In x 7/8" Out, 6 To 8 Ton, Thermostatic Expansion Valve	589.94	11.11
23 23 16 00-0213 EA 7/8" In x 1-1/8" Out, 7 To 12 Ton, Thermostatic Expansion Valve	699.19	12.22
23 23 16 00-0214 EA 7/8" In x 1-3/8" Out, 15 To 20 Ton, Thermostatic Expansion Valve	754.75	12.22
23 23 16 00-0215 Electric Expansion Valves (23 23 16 00-0208)		
Note: Sporlan SEI or SEH.		
23 23 16 00-0216 EA 1/2 To 11 Ton Electric Expansion Valve	602.47	13.89
Note: Sporlan SEI.		
23 23 16 00-0217 EA 25 Ton Electric Expansion Valve	698.15	14.45
Note: Sporlan SEI.		
23 23 16 00-0218 EA 50 Ton Electric Expansion Valve	794.38	15.00
Note: Sporlan SEI.		
23 23 16 00-0219 EA 100 Ton Electric Expansion Valve	932.51	15.00
Note: Sporlan SEH.		
23 23 16 00-0220 EA 175 Ton Electric Expansion Valve	1,050.36	15.56
Note: Sporlan SEH.		
23 23 16 00-0221 Braided Stainless Steel Over Copper Vibration Absorber (23 23 16 00-0208)		
23 23 16 00-0222 EA 1/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	65.75	14.45
23 23 16 00-0223 EA 3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	65.90	16.67
23 23 16 00-0224 EA 1/2" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	85.52	21.11
23 23 16 00-0225 EA 5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	91.98	25.56
23 23 16 00-0226 EA 3/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	108.24	31.11
23 23 16 00-0227 EA 7/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	125.36	35.56
23 23 16 00-0228 EA 1-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	177.94	13.33
23 23 16 00-0229 EA 1-3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	251.59	14.45
23 23 16 00-0230 EA 1-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	315.61	14.45
23 23 16 00-0231 EA 2-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	433.27	15.56
23 23 16 00-0232 EA 2-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	740.77	16.67
23 23 16 00-0233 EA 3-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	971.39	16.67
23 23 16 00-0234 Accumulator, Refrigerant Suction Line (23 23 16)		
23 23 16 00-0235 EA 3/4" Accumulator, Refrigeration Suction Line	208.82	50.56
23 23 16 00-0236 EA 7/8" Accumulator, Refrigeration Suction Line	282.87	69.45
23 23 16 00-0237 EA 1-1/8" Accumulator, Refrigeration Suction Line	335.90	92.57
23 23 16 00-0238 EA 1 3/8" Accumulator, Refrigeration Suction Line	476.14	111.12
23 23 16 00-0239 EA 1-5/8" Accumulator, Refrigeration Suction Line	658.33	138.90
23 23 16 00-0240 EA 2-1/8" Accumulator, Refrigeration Suction Line	1,004.97	185.24
23 23 16 00-0241 Special Chemicals/Component (23 23 16)		
23 23 16 00-0242 GAL Special Chemical, Inhibited Propylene Glycol, 100%	28.64	
23 23 16 00-0243 GAL Removal And Storage For Reuse Of Inhibited Propylene Glycol.....	8.62	
23 23 16 00-0244 GAL Special Chemical, Inhibited Ethylene Glycol, 100%	19.77	
23 23 16 00-0245 EA Internal Coil/Refrigerant Piping Flush	361.48	
Note: Up to 10 ton AC system.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
23 23 16 00-0246	Copper Refrigeration Line Sets, Pre-Insulated (23 23 16) Note: Includes fasteners and insulation on suction line only				
23 23 16 00-0247	LF 5/16" Outside Diameter Liquid, And 5/8" Outside Diameter Suction, Refrigerant Line Set With 1/2" Insulation	14.73		0.93	
23 23 16 00-0248	LF 5/16" Outside Diameter Liquid, And 3/4" Outside Diameter Suction, Refrigerant Line Set With 1/2" Insulation	15.54		0.93	
23 23 16 00-0249	LF 3/8" Outside Diameter Liquid, And 5/8" Outside Diameter Suction, Refrigerant Line Set With 1/2" Insulation	13.88		0.94	
23 23 16 00-0250	LF 3/8" Outside Diameter Liquid, And 3/4" Outside Diameter Suction, Refrigerant Line Set With 1/2" Insulation	16.34		0.96	
23 23 16 00-0251	LF 3/8" Outside Diameter Liquid, And 7/8" Outside Diameter Suction, Refrigerant Line Set With 1/2" Insulation	19.71		0.98	
23 23 16 00-0252	LF 3/8" Outside Diameter Liquid, And 1-1/8" Outside Diameter Suction, Refrigerant Line Set With 1/2" Insulation	23.18		1.04	
23 23 16 00-0253	LF 1/2" Outside Diameter Liquid, And 3/4" Outside Diameter Suction, Refrigerant Line Set With 1/2" Insulation	17.23		0.98	
23 23 16 00-0254	LF 1/2" Outside Diameter Liquid, And 7/8" Outside Diameter Suction, Refrigerant Line Set With 1/2" Insulation	21.81		1.05	
23 23 16 00-0255	LF 1/2" Outside Diameter Liquid, And 1-1/8" Outside Diameter Suction, Refrigerant Line Set With 1/2" Insulation	26.39		1.11	
23 23 16 00-0256	Triple Copper Refrigeration Line Sets (23 23 16) Note: Includes fasteners and insulation				
23 23 16 00-0257	LF 1-3/8" / 1-1/8" / 3/4" Outside Diameter, Soft Refrigeration Copper Tubing Triple Copper Pipe Assembly, With 1/2" Elastomeric Insulation	56.13		9.13	
23 23 16 00-0258	LF 1-1/8" / 7/8" / 3/4" Outside Diameter, Soft Refrigeration Copper Tubing Triple Copper Pipe Assembly, With 1/2" Elastomeric Insulation	45.86		8.17	
23 23 16 00-0259	LF 1-1/8" / 7/8" / 5/8" Outside Diameter, Soft Refrigeration Copper Tubing Triple Copper Pipe Assembly, With 1/2" Elastomeric Insulation	44.27		7.87	
23 23 16 00-0260	LF 1-1/8" / 3/4" / 1/2" Outside Diameter, Soft Refrigeration Copper Tubing Triple Copper Pipe Assembly, With 1/2" Elastomeric Insulation	41.44		7.71	
23 23 16 00-0261	LF 7/8" / 3/4" / 1/2" Outside Diameter, Soft Refrigeration Copper Tubing Triple Copper Pipe Assembly, With 1/2" Elastomeric Insulation	36.76		7.14	
23 23 16 00-0262	LF 5/8" / 1/2" / 3/8" Outside Diameter, Soft Refrigeration Copper Tubing Triple Copper Pipe Assembly, With 1/2" Elastomeric Insulation	29.74		6.23	
23 23 23	Refrigerants (23 23)				
23 23 23 00-0001	Refrigerant (23 23 23)				
23 23 23 00-0002	LB R-123 Refrigerant	38.58			
23 23 23 00-0003	LB R-134A Refrigerant	13.75			
23 23 23 00-0004	LB R-404A Refrigerant	15.71			
23 23 23 00-0005	LB R-407C Refrigerant	14.13			
23 23 23 00-0006	LB R-408A Refrigerant	32.21			
23 23 23 00-0007	LB R-410A Refrigerant	13.84			
23 23 23 00-0008	LB R-500 Refrigerant	47.15			
23 23 23 00-0009	LB R-507 Refrigerant	8.81			
23 23 23 00-0010	LB R-32 Refrigerant	18.47			
23 23 23 00-0011	LB R-452A Refrigerant	20.65			
23 23 23 00-0012	LB R-453A Refrigerant	24.04			
23 23 23 00-0013	LB R-454A Refrigerant	32.87			
23 23 23 00-0014	LB R-454B Refrigerant	26.35			
23 25	HVAC Water Treatment (23 20)				
23 25 13	Water Treatment for Closed-Loop Hydronic Systems (23 25)				
23 25 13 00-0001	Polyethylene Chemical Storage Tanks (23 25 13)				
23 25 13 00-0002	EA 15 Gallon Chemical Storage Tank, Polyethylene	462.52		92.78	
23 25 13 00-0003	Gas Chlorinator (23 25 13)				
23 25 13 00-0004	EA Gas Chlorinator, Wall Or Cylinder Mounted (10 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit	1,194.46		422.15	
	For Booster Pump, Add	471.12			
23 25 13 00-0005	EA Gas Chlorinator, Wall Or Cylinder Mounted (25 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit	1,364.68		482.46	
	For Booster Pump, Add	538.53			
23 25 13 00-0006	EA Gas Chlorinator, Wall Or Cylinder Mounted (50 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit	1,869.61		365.46	
	For Booster Pump, Add	656.48			
23 25 13 00-0007	Bypass Shot Feeders (23 25 13) Note: Includes up to 4 ports (in, out, fill and drain). Excludes valves.				
23 25 13 00-0008	In Line Mount, 125 PSIG (23 25 13 00-0007)				
23 25 13 00-0009	EA 1.7 Gallon Bypass Shot Chemical Feeder In Line Mount, 125 PSIG	1,098.72		314.47	
23 25 13 00-0010	Floor Mount, 175 PSIG (23 25 13 00-0007)				
23 25 13 00-0011	EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG	1,617.84		473.38	
23 25 13 00-0012	EA 12 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG	2,133.64		626.73	
23 25 13 00-0013	Floor Mount, 150 Lb. ASME Code (23 25 13 00-0007)				
23 25 13 00-0014	EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 Lb. ASME Code	1,617.84		473.38	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Piping and Pumps			23 20	
HVAC Water Treatment			23 25	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 25 13 00-0015	EA		10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 Lb. ASME Code	2,133.64	626.73
23 25 13 00-0016			Floor Mount, 300 Lb. ASME Code ^(23 25 13 00-0007)		
23 25 13 00-0017	EA		5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 Lb. ASME Code	2,002.55	473.38
23 25 13 00-0018	EA		10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 Lb. ASME Code	2,533.11	626.73
23 30 HVAC Air Distribution ⁽²³⁾					
23 31 HVAC Ducts and Casings ^(23 30)					
Note: Excludes angle iron, threaded rod, anchor bolts or other external supporting devices other than normal sheet metal straps. See CSI section 05 12 23 00-0423 for angle iron, 23 05 29 00-0001 for threaded rod.					
23 31 13 Metal Ducts ^(23 31)					
23 31 13 13 Rectangular Metal Ducts ^(23 31 13)					
23 31 13 13-0001			Steel Sheet Metal Duct ^(23 31 13 13)		
Note: Includes all fittings, transitions, collars, straps, support straps, fabrication, installation and sealing the joints by tape, mastic, or spray on sealer. Duct Sealing: Class-C requires sealing transverse joints; Class-B requires sealing all transverse joint and longitudinal seams; Class-A requires sealing all transverse joints longitudinal seams and duct wall penetrations.					
23 31 13 13-0002			Galvanized Steel Sheet Metal Ductwork And Sealant ^(23 31 13 13-0001)		
Note: SMACNA weight for galvanized steel ductwork Lbs./SF (surface areas) by gauge: 26 gauge - 0.906 Lbs./SF; 24 gauge - 1.156 Lbs./SF; 22 gauge - 1.406 Lbs./SF; 20 gauge - 1.656 Lbs./SF; 18 gauge - 2.156 Lbs./SF; 16 gauge - 2.656 Lbs./SF					
23 31 13 13-0003	LB		Seal Class C, Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork	13.37	3.52
For Polyvinyl Chloride (PVC) Coated, Add				0.51	
For Up To 200, Add				4.77	
For >200 To 500, Add				3.04	
For >500 To 1,000, Add				2.05	
For >1,000 To 2,000, Add				1.15	
For >2,000 To 5,000, Add				0.51	
For Work In Restricted Working Space, Add				3.25	
For Elevated Installation >10' To 15' Above Floor, Add				0.65	
For Elevated Installation >15' To 20' Above Floor, Add				1.30	
For Elevated Installation >20' To 25' Above Floor, Add				1.63	
For Elevated Installation >25' To 30' Above Floor, Add				2.28	
For Elevated Installation >30' To 35' Above Floor, Add				2.60	
For Elevated Installation >35' To 40' Above Floor, Add				3.25	
For Elevated Installation >40' Above Floor, Add				3.58	
23 31 13 13-0004	LB		Seal Class B, Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork	15.25	3.52
For Polyvinyl Chloride (PVC) Coated, Add				0.56	
For Up To 200, Add				5.41	
For >200 To 500, Add				3.44	
For >500 To 1,000, Add				2.33	
For >1,000 To 2,000, Add				1.30	
For >2,000 To 5,000, Add				0.58	
For Work In Restricted Working Space, Add				3.74	
For Elevated Installation >10' To 15' Above Floor, Add				0.75	
For Elevated Installation >15' To 20' Above Floor, Add				1.50	
For Elevated Installation >20' To 25' Above Floor, Add				1.87	
For Elevated Installation >25' To 30' Above Floor, Add				2.62	
For Elevated Installation >30' To 35' Above Floor, Add				2.99	
For Elevated Installation >35' To 40' Above Floor, Add				3.74	
For Elevated Installation >40' Above Floor, Add				4.11	
23 31 13 13-0005	LB		Seal Class A, Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork	18.21	3.52
For Polyvinyl Chloride (PVC) Coated, Add				0.61	
For Up To 200, Add				6.38	
For >200 To 500, Add				4.04	
For >500 To 1,000, Add				2.76	
For >1,000 To 2,000, Add				1.55	
For >2,000 To 5,000, Add				0.70	
For Work In Restricted Working Space, Add				4.55	
For Elevated Installation >10' To 15' Above Floor, Add				0.91	
For Elevated Installation >15' To 20' Above Floor, Add				1.82	
For Elevated Installation >20' To 25' Above Floor, Add				2.28	
For Elevated Installation >25' To 30' Above Floor, Add				3.19	
For Elevated Installation >30' To 35' Above Floor, Add				3.64	
For Elevated Installation >35' To 40' Above Floor, Add				4.55	
For Elevated Installation >40' Above Floor, Add				5.01	
23 31 13 13-0006			Alloy 3003-H14, Aluminum Sheet Metal Ductwork ^(23 31 13 13-0001)		
Note: SMACNA weight for aluminum ductwork Lbs./SF (surface areas) by gauge: 26 gauge - 0.224 Lbs./SF; 24 gauge - 0.282 Lbs./SF; 22 gauge - 0.352 Lbs./SF; 20 gauge - 0.451 Lbs./SF; 18 gauge - 0.563 Lbs./SF; 16 gauge - 0.718 Lbs./SF; 14 gauge - 0.901 Lbs./SF; 12 gauge - 0.141 Lbs./SF					

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0007	LB		Seal Class C, Alloy 3003-H14, Aluminum Sheet Metal Ductwork.....	26.06	3.52
			<i>For Work In Restricted Working Space, Add</i>	6.43	
			<i>For Up To 200, Add</i>	9.21	
			<i>For >200 To 500, Add</i>	5.85	
			<i>For >500 To 1,000, Add</i>	3.97	
			<i>For >1,000 To 2,000, Add</i>	2.22	
			<i>For >2,000 To 5,000, Add</i>	1.00	
			<i>For Elevated Installation >10' To 15' Above Floor, Add</i>	1.29	
			<i>For Elevated Installation >15' To 20' Above Floor, Add</i>	2.57	
			<i>For Elevated Installation >20' To 25' Above Floor, Add</i>	3.21	
			<i>For Elevated Installation >25' To 30' Above Floor, Add</i>	4.50	
			<i>For Elevated Installation >30' To 35' Above Floor, Add</i>	5.14	
			<i>For Elevated Installation >35' To 40' Above Floor, Add</i>	6.43	
			<i>For Elevated Installation >40' Above Floor, Add</i>	7.07	
23 31 13 13-0008	LB		Seal Class B, Alloy 3003-H14, Aluminum Sheet Metal Ductwork.....	29.53	3.52
			<i>For Work In Restricted Working Space, Add</i>	7.39	
			<i>For Up To 200, Add</i>	10.33	
			<i>For >200 To 500, Add</i>	6.54	
			<i>For >500 To 1,000, Add</i>	4.48	
			<i>For >1,000 To 2,000, Add</i>	2.51	
			<i>For >2,000 To 5,000, Add</i>	1.13	
			<i>For Elevated Installation >10' To 15' Above Floor, Add</i>	1.48	
			<i>For Elevated Installation >15' To 20' Above Floor, Add</i>	2.96	
			<i>For Elevated Installation >20' To 25' Above Floor, Add</i>	3.69	
			<i>For Elevated Installation >25' To 30' Above Floor, Add</i>	5.17	
			<i>For Elevated Installation >30' To 35' Above Floor, Add</i>	5.91	
			<i>For Elevated Installation >35' To 40' Above Floor, Add</i>	7.39	
			<i>For Elevated Installation >40' Above Floor, Add</i>	8.13	
23 31 13 13-0009	LB		Seal Class A, Alloy 3003-H14, Aluminum Sheet Metal Ductwork.....	35.13	3.52
			<i>For Work In Restricted Working Space, Add</i>	8.99	
			<i>For Up To 200, Add</i>	12.08	
			<i>For >200 To 500, Add</i>	7.61	
			<i>For >500 To 1,000, Add</i>	5.28	
			<i>For >1,000 To 2,000, Add</i>	2.96	
			<i>For >2,000 To 5,000, Add</i>	1.35	
			<i>For Elevated Installation >10' To 15' Above Floor, Add</i>	1.80	
			<i>For Elevated Installation >15' To 20' Above Floor, Add</i>	3.60	
			<i>For Elevated Installation >20' To 25' Above Floor, Add</i>	4.50	
			<i>For Elevated Installation >25' To 30' Above Floor, Add</i>	6.30	
			<i>For Elevated Installation >30' To 35' Above Floor, Add</i>	7.20	
			<i>For Elevated Installation >35' To 40' Above Floor, Add</i>	8.99	
			<i>For Elevated Installation >40' Above Floor, Add</i>	9.89	
23 31 13 13-0010			Type 304, Stainless Steel Sheet Metal Ductwork (23 31 13 13-0001)		
			Note: SMACNA weight for stainless steel ductwork Lbs./SF (surface areas) by gauge: 26 gauge - 0.748 Lbs./SF;		
			24 gauge - 0.987 Lbs./SF; 22 gauge - 1.231 Lbs./SF; 20 gauge - 1.491 Lbs./SF; 18 gauge - 2.016 Lbs./SF; 16		
			gauge - 2.499 Lbs./SF; 14 gauge - 3.154 Lbs./SF; Lbs./SF; gauge - 4.427 Lbs./SF		
23 31 13 13-0011	LB		Seal Class C, Type 304, Stainless Steel Sheet Metal Ductwork.....	19.40	4.69
			<i>For Work In Restricted Working Space, Add</i>	3.95	
			<i>For Welded Seams, Add</i>	6.89	
			<i>For Up To 200, Add</i>	7.69	
			<i>For >200 To 500, Add</i>	5.05	
			<i>For >500 To 1,000, Add</i>	3.15	
			<i>For >1,000 To 2,000, Add</i>	1.74	
			<i>For >2,000 To 5,000, Add</i>	0.71	
			<i>For Elevated Installation >10' To 15' Above Floor, Add</i>	0.79	
			<i>For Elevated Installation >15' To 20' Above Floor, Add</i>	1.58	
			<i>For Elevated Installation >20' To 25' Above Floor, Add</i>	1.97	
			<i>For Elevated Installation >25' To 30' Above Floor, Add</i>	2.76	
			<i>For Elevated Installation >30' To 35' Above Floor, Add</i>	3.16	
			<i>For Elevated Installation >35' To 40' Above Floor, Add</i>	3.95	
			<i>For Elevated Installation >40' Above Floor, Add</i>	4.34	
23 31 13 13-0012	LB		Seal Class B, Type 304, Stainless Steel Sheet Metal Ductwork.....	22.37	4.69
			<i>For Work In Restricted Working Space, Add</i>	4.76	
			<i>For Welded Seams, Add</i>	8.26	
			<i>For Up To 200, Add</i>	8.66	
			<i>For >200 To 500, Add</i>	5.65	
			<i>For >500 To 1,000, Add</i>	3.59	
			<i>For >1,000 To 2,000, Add</i>	1.98	
			<i>For >2,000 To 5,000, Add</i>	0.83	
			<i>For Elevated Installation >10' To 15' Above Floor, Add</i>	0.95	
			<i>For Elevated Installation >15' To 20' Above Floor, Add</i>	1.91	
			<i>For Elevated Installation >20' To 25' Above Floor, Add</i>	2.38	
			<i>For Elevated Installation >25' To 30' Above Floor, Add</i>	3.33	
			<i>For Elevated Installation >30' To 35' Above Floor, Add</i>	3.81	
			<i>For Elevated Installation >35' To 40' Above Floor, Add</i>	4.76	
			<i>For Elevated Installation >40' Above Floor, Add</i>	5.24	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0013	LB		Seal Class A, Type 304, Stainless Steel Sheet Metal Ductwork.....	25.17	4.69
			For Work In Restricted Working Space, Add	5.53	
			For Welded Seams, Add	9.55	
			For Up To 200, Add	9.58	
			For >200 To 500, Add	6.22	
			For >500 To 1,000, Add	4.00	
			For >1,000 To 2,000, Add	2.22	
			For >2,000 To 5,000, Add	0.94	
			For Elevated Installation >10' To 15' Above Floor, Add	1.11	
			For Elevated Installation >15' To 20' Above Floor, Add	2.21	
			For Elevated Installation >20' To 25' Above Floor, Add	2.76	
			For Elevated Installation >25' To 30' Above Floor, Add	3.87	
			For Elevated Installation >30' To 35' Above Floor, Add	4.42	
			For Elevated Installation >35' To 40' Above Floor, Add	5.53	
			For Elevated Installation >40' Above Floor, Add	6.08	
23 31 13 13-0014			Galvanized Steel Sheet Metal Ductwork By LF (23 31 13 13-0001)		
			Note: Ductwork includes collars, straps, support straps, etc. Shop fabricated ductwork is designed and fabricated in shop with machines, delivered to site and installed. For fittings add the following equivalent lengths: 0.75' for duct end cap; 1.5' for tap-in; 2.5' for 45-degree elbows; 3' for 90-degree elbows, transition, taper, register box; 4' for 45-degree reducing elbow, offset, turning vanes installed in elbows; 5' for 90-degree reducing elbow, 135-degree angle gooseneck, boots; and 6' for transition/reducer.		
23 31 13 13-0015			30 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)		
			Note: Seal Class C		
23 31 13 13-0016	LF		4" x 4", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	14.22	7.23
			For Seal Class B, Add	1.81	
			For Seal Class A, Add	3.66	
			For Work In Restricted Working Space, Add	3.62	
23 31 13 13-0017	LF		4" x 6", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	17.75	9.05
			For Seal Class B, Add	2.26	
			For Seal Class A, Add	4.83	
			For Work In Restricted Working Space, Add	4.52	
23 31 13 13-0018	LF		4" x 8", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	21.31	10.86
			For Seal Class B, Add	2.71	
			For Seal Class A, Add	5.79	
			For Work In Restricted Working Space, Add	5.43	
23 31 13 13-0019	LF		4" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	24.86	12.66
			For Seal Class B, Add	3.17	
			For Seal Class A, Add	6.76	
			For Work In Restricted Working Space, Add	6.33	
23 31 13 13-0020	LF		4" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	28.43	14.48
			For Seal Class B, Add	3.62	
			For Seal Class A, Add	7.72	
			For Work In Restricted Working Space, Add	7.24	
23 31 13 13-0021	LF		4" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	31.96	16.29
			For Seal Class B, Add	4.07	
			For Seal Class A, Add	8.68	
			For Work In Restricted Working Space, Add	8.14	
23 31 13 13-0022	LF		4" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	35.51	18.09
			For Seal Class B, Add	4.52	
			For Seal Class A, Add	9.65	
			For Work In Restricted Working Space, Add	9.05	
23 31 13 13-0023	LF		6" x 6", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	21.31	10.86
			For Seal Class B, Add	2.71	
			For Seal Class A, Add	5.79	
			For Work In Restricted Working Space, Add	5.43	
23 31 13 13-0024	LF		6" x 8", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	24.86	12.66
			For Seal Class B, Add	3.17	
			For Seal Class A, Add	6.76	
			For Work In Restricted Working Space, Add	6.33	
23 31 13 13-0025	LF		6" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	28.43	14.48
			For Seal Class B, Add	3.62	
			For Seal Class A, Add	7.72	
			For Work In Restricted Working Space, Add	7.24	
23 31 13 13-0026	LF		6" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	31.96	16.29
			For Seal Class B, Add	4.07	
			For Seal Class A, Add	8.68	
			For Work In Restricted Working Space, Add	8.14	
23 31 13 13-0027	LF		6" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	35.51	18.09
			For Seal Class B, Add	4.52	
			For Seal Class A, Add	9.65	
			For Work In Restricted Working Space, Add	9.05	
23 31 13 13-0028	LF		6" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	39.07	19.91
			For Seal Class B, Add	4.98	
			For Seal Class A, Add	10.61	
			For Work In Restricted Working Space, Add	9.95	
23 31 13 13-0029	LF		8" x 8", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	28.43	14.48
			For Seal Class B, Add	3.62	
			For Seal Class A, Add	7.72	
			For Work In Restricted Working Space, Add	7.24	
23 31 13 13-0030	LF		8" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	31.96	16.29
			For Seal Class B, Add	4.07	
			For Seal Class A, Add	8.68	
			For Work In Restricted Working Space, Add	8.14	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0031	LF 8" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	35.51	18.09
		For Seal Class B, Add	4.52	
		For Seal Class A, Add	9.65	
		For Work In Restricted Working Space, Add	9.05	
23 31 13	13-0032	LF 8" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	39.07	19.91
		For Seal Class B, Add	4.98	
		For Seal Class A, Add	10.61	
		For Work In Restricted Working Space, Add	9.95	
23 31 13	13-0033	LF 8" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	42.61	21.71
		For Seal Class B, Add	5.43	
		For Seal Class A, Add	11.58	
		For Work In Restricted Working Space, Add	10.86	
23 31 13	13-0034	LF 8" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	46.18	23.52
		For Seal Class B, Add	5.88	
		For Seal Class A, Add	12.55	
		For Work In Restricted Working Space, Add	11.76	
23 31 13	13-0035	LF 8" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	49.71	25.34
		For Seal Class B, Add	6.33	
		For Seal Class A, Add	13.51	
		For Work In Restricted Working Space, Add	12.67	
23 31 13	13-0036	LF 8" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	53.27	27.14
		For Seal Class B, Add	6.78	
		For Seal Class A, Add	14.47	
		For Work In Restricted Working Space, Add	13.57	
23 31 13	13-0037	LF 8" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	56.81	28.95
		For Seal Class B, Add	7.24	
		For Seal Class A, Add	15.44	
		For Work In Restricted Working Space, Add	14.47	
23 31 13	13-0038	LF 10" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	35.51	18.09
		For Seal Class B, Add	4.52	
		For Seal Class A, Add	9.65	
		For Work In Restricted Working Space, Add	9.05	
23 31 13	13-0039	LF 10" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	39.07	19.91
		For Seal Class B, Add	4.98	
		For Seal Class A, Add	10.61	
		For Work In Restricted Working Space, Add	9.95	
23 31 13	13-0040	LF 10" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	42.61	21.71
		For Seal Class B, Add	5.43	
		For Seal Class A, Add	11.58	
		For Work In Restricted Working Space, Add	10.86	
23 31 13	13-0041	LF 10" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	46.18	23.52
		For Seal Class B, Add	5.88	
		For Seal Class A, Add	12.55	
		For Work In Restricted Working Space, Add	11.76	
23 31 13	13-0042	LF 10" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	49.71	25.34
		For Seal Class B, Add	6.33	
		For Seal Class A, Add	13.51	
		For Work In Restricted Working Space, Add	12.67	
23 31 13	13-0043	LF 10" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	53.27	27.14
		For Seal Class B, Add	6.78	
		For Seal Class A, Add	14.47	
		For Work In Restricted Working Space, Add	13.57	
23 31 13	13-0044	LF 10" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	56.81	28.95
		For Seal Class B, Add	7.24	
		For Seal Class A, Add	15.44	
		For Work In Restricted Working Space, Add	14.47	
23 31 13	13-0045	LF 10" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	60.39	30.76
		For Seal Class B, Add	7.69	
		For Seal Class A, Add	16.41	
		For Work In Restricted Working Space, Add	15.38	
23 31 13	13-0046	LF 12" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	42.61	21.71
		For Seal Class B, Add	5.43	
		For Seal Class A, Add	11.58	
		For Work In Restricted Working Space, Add	10.86	
23 31 13	13-0047	LF 12" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	46.18	23.52
		For Seal Class B, Add	5.88	
		For Seal Class A, Add	12.55	
		For Work In Restricted Working Space, Add	11.76	
23 31 13	13-0048	LF 12" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	49.71	25.34
		For Seal Class B, Add	6.33	
		For Seal Class A, Add	13.51	
		For Work In Restricted Working Space, Add	12.67	
23 31 13	13-0049	LF 12" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	53.27	27.14
		For Seal Class B, Add	6.78	
		For Seal Class A, Add	14.47	
		For Work In Restricted Working Space, Add	13.57	
23 31 13	13-0050	LF 12" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	56.81	28.95
		For Seal Class B, Add	7.24	
		For Seal Class A, Add	15.44	
		For Work In Restricted Working Space, Add	14.47	
23 31 13	13-0051	LF 12" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	60.39	30.76
		For Seal Class B, Add	7.69	
		For Seal Class A, Add	16.41	
		For Work In Restricted Working Space, Add	15.38	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0052	LF	12" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	63.93	32.57
			For Seal Class B, Add	8.14	
			For Seal Class A, Add	17.37	
			For Work In Restricted Working Space, Add	16.29	
23 31 13	13-0053	LF	14" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	49.71	25.34
			For Seal Class B, Add	6.33	
			For Seal Class A, Add	13.51	
			For Work In Restricted Working Space, Add	12.67	
23 31 13	13-0054	LF	14" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	53.27	27.14
			For Seal Class B, Add	6.78	
			For Seal Class A, Add	14.47	
			For Work In Restricted Working Space, Add	13.57	
23 31 13	13-0055	LF	14" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	56.81	28.95
			For Seal Class B, Add	7.24	
			For Seal Class A, Add	15.44	
			For Work In Restricted Working Space, Add	14.47	
23 31 13	13-0056	LF	14" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	60.39	30.76
			For Seal Class B, Add	7.69	
			For Seal Class A, Add	16.41	
			For Work In Restricted Working Space, Add	15.38	
23 31 13	13-0057	LF	14" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	63.93	32.57
			For Seal Class B, Add	8.14	
			For Seal Class A, Add	17.37	
			For Work In Restricted Working Space, Add	16.29	
23 31 13	13-0058	LF	14" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	67.49	34.38
			For Seal Class B, Add	8.60	
			For Seal Class A, Add	18.34	
			For Work In Restricted Working Space, Add	17.19	
23 31 13	13-0059	LF	16" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	56.81	28.95
			For Seal Class B, Add	7.24	
			For Seal Class A, Add	15.44	
			For Work In Restricted Working Space, Add	14.47	
23 31 13	13-0060	LF	16" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	60.39	30.76
			For Seal Class B, Add	7.69	
			For Seal Class A, Add	16.41	
			For Work In Restricted Working Space, Add	15.38	
23 31 13	13-0061	LF	16" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	63.93	32.57
			For Seal Class B, Add	8.14	
			For Seal Class A, Add	17.37	
			For Work In Restricted Working Space, Add	16.29	
23 31 13	13-0062	LF	16" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	67.49	34.38
			For Seal Class B, Add	8.60	
			For Seal Class A, Add	18.34	
			For Work In Restricted Working Space, Add	17.19	
23 31 13	13-0063	LF	16" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	71.03	36.19
			For Seal Class B, Add	9.05	
			For Seal Class A, Add	19.30	
			For Work In Restricted Working Space, Add	18.09	
23 31 13	13-0064	LF	18" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	63.93	32.57
			For Seal Class B, Add	8.14	
			For Seal Class A, Add	17.37	
			For Work In Restricted Working Space, Add	16.29	
23 31 13	13-0065	LF	18" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	67.49	34.38
			For Seal Class B, Add	8.60	
			For Seal Class A, Add	18.34	
			For Work In Restricted Working Space, Add	17.19	
23 31 13	13-0066	LF	18" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	71.03	36.19
			For Seal Class B, Add	9.05	
			For Seal Class A, Add	19.30	
			For Work In Restricted Working Space, Add	18.09	
23 31 13	13-0067	LF	18" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	74.57	38.00
			For Seal Class B, Add	9.50	
			For Seal Class A, Add	20.27	
			For Work In Restricted Working Space, Add	19.00	
23 31 13	13-0068	LF	20" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	71.03	36.19
			For Seal Class B, Add	9.05	
			For Seal Class A, Add	19.30	
			For Work In Restricted Working Space, Add	18.09	
23 31 13	13-0069	LF	20" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	74.57	38.00
			For Seal Class B, Add	9.50	
			For Seal Class A, Add	20.27	
			For Work In Restricted Working Space, Add	19.00	
23 31 13	13-0070	LF	20" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	78.13	39.80
			For Seal Class B, Add	9.95	
			For Seal Class A, Add	21.23	
			For Work In Restricted Working Space, Add	19.90	
23 31 13	13-0071	LF	22" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	78.13	39.80
			For Seal Class B, Add	9.95	
			For Seal Class A, Add	21.23	
			For Work In Restricted Working Space, Add	19.90	
23 31 13	13-0072	LF	22" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	81.68	41.62
			For Seal Class B, Add	10.40	
			For Seal Class A, Add	22.20	
			For Work In Restricted Working Space, Add	20.81	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0073	LF	24" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	85.25	43.43
		For Seal Class B, Add	10.86	
		For Seal Class A, Add	23.16	
		For Work In Restricted Working Space, Add	21.71	
23 31 13 13-0074		28 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)		
		Note: Seal Class C		
23 31 13 13-0075	LF	4" x 4", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	16.90	8.62
		For Seal Class B, Add	2.15	
		For Seal Class A, Add	4.60	
		For Work In Restricted Working Space, Add	4.31	
23 31 13 13-0076	LF	4" x 6", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	21.15	10.77
		For Seal Class B, Add	2.69	
		For Seal Class A, Add	5.74	
		For Work In Restricted Working Space, Add	5.39	
23 31 13 13-0077	LF	4" x 8", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	25.38	12.92
		For Seal Class B, Add	3.23	
		For Seal Class A, Add	6.90	
		For Work In Restricted Working Space, Add	6.47	
23 31 13 13-0078	LF	4" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	29.58	15.08
		For Seal Class B, Add	3.77	
		For Seal Class A, Add	8.04	
		For Work In Restricted Working Space, Add	7.54	
23 31 13 13-0079	LF	4" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	33.83	17.24
		For Seal Class B, Add	4.31	
		For Seal Class A, Add	9.19	
		For Work In Restricted Working Space, Add	8.62	
23 31 13 13-0080	LF	4" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	38.05	19.38
		For Seal Class B, Add	4.85	
		For Seal Class A, Add	10.34	
		For Work In Restricted Working Space, Add	9.69	
23 31 13 13-0081	LF	4" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	42.28	21.55
		For Seal Class B, Add	5.39	
		For Seal Class A, Add	11.49	
		For Work In Restricted Working Space, Add	10.77	
23 31 13 13-0082	LF	6" x 6", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	25.38	12.92
		For Seal Class B, Add	3.23	
		For Seal Class A, Add	6.90	
		For Work In Restricted Working Space, Add	6.47	
23 31 13 13-0083	LF	6" x 8", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	29.58	15.08
		For Seal Class B, Add	3.77	
		For Seal Class A, Add	8.04	
		For Work In Restricted Working Space, Add	7.54	
23 31 13 13-0084	LF	6" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	33.83	17.24
		For Seal Class B, Add	4.31	
		For Seal Class A, Add	9.19	
		For Work In Restricted Working Space, Add	8.62	
23 31 13 13-0085	LF	6" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	38.05	19.38
		For Seal Class B, Add	4.85	
		For Seal Class A, Add	10.34	
		For Work In Restricted Working Space, Add	9.69	
23 31 13 13-0086	LF	6" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	42.28	21.55
		For Seal Class B, Add	5.39	
		For Seal Class A, Add	11.49	
		For Work In Restricted Working Space, Add	10.77	
23 31 13 13-0087	LF	6" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	46.52	23.70
		For Seal Class B, Add	5.93	
		For Seal Class A, Add	12.64	
		For Work In Restricted Working Space, Add	11.85	
23 31 13 13-0088	LF	8" x 8", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	33.83	17.24
		For Seal Class B, Add	4.31	
		For Seal Class A, Add	9.19	
		For Work In Restricted Working Space, Add	8.62	
23 31 13 13-0089	LF	8" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	38.05	19.38
		For Seal Class B, Add	4.85	
		For Seal Class A, Add	10.34	
		For Work In Restricted Working Space, Add	9.69	
23 31 13 13-0090	LF	8" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	42.28	21.55
		For Seal Class B, Add	5.39	
		For Seal Class A, Add	11.49	
		For Work In Restricted Working Space, Add	10.77	
23 31 13 13-0091	LF	8" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	46.52	23.70
		For Seal Class B, Add	5.93	
		For Seal Class A, Add	12.64	
		For Work In Restricted Working Space, Add	11.85	
23 31 13 13-0092	LF	8" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	50.73	25.85
		For Seal Class B, Add	6.46	
		For Seal Class A, Add	13.79	
		For Work In Restricted Working Space, Add	12.92	
23 31 13 13-0093	LF	8" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	54.95	28.00
		For Seal Class B, Add	7.00	
		For Seal Class A, Add	14.93	
		For Work In Restricted Working Space, Add	14.00	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0094	LF	8" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	59.21	30.16
			For Seal Class B, Add	7.54	
			For Seal Class A, Add	16.09	
			For Work In Restricted Working Space, Add	15.08	
23 31 13	13-0095	LF	8" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	63.41	32.31
			For Seal Class B, Add	8.08	
			For Seal Class A, Add	17.23	
			For Work In Restricted Working Space, Add	16.16	
23 31 13	13-0096	LF	8" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	67.66	34.46
			For Seal Class B, Add	8.62	
			For Seal Class A, Add	18.38	
			For Work In Restricted Working Space, Add	17.23	
23 31 13	13-0097	LF	10" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	42.28	21.55
			For Seal Class B, Add	5.39	
			For Seal Class A, Add	11.49	
			For Work In Restricted Working Space, Add	10.77	
23 31 13	13-0098	LF	10" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	46.52	23.70
			For Seal Class B, Add	5.93	
			For Seal Class A, Add	12.64	
			For Work In Restricted Working Space, Add	11.85	
23 31 13	13-0099	LF	10" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	50.73	25.85
			For Seal Class B, Add	6.46	
			For Seal Class A, Add	13.79	
			For Work In Restricted Working Space, Add	12.92	
23 31 13	13-0100	LF	10" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	54.95	28.00
			For Seal Class B, Add	7.00	
			For Seal Class A, Add	14.93	
			For Work In Restricted Working Space, Add	14.00	
23 31 13	13-0101	LF	10" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	59.21	30.16
			For Seal Class B, Add	7.54	
			For Seal Class A, Add	16.09	
			For Work In Restricted Working Space, Add	15.08	
23 31 13	13-0102	LF	10" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	63.41	32.31
			For Seal Class B, Add	8.08	
			For Seal Class A, Add	17.23	
			For Work In Restricted Working Space, Add	16.16	
23 31 13	13-0103	LF	10" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	67.66	34.46
			For Seal Class B, Add	8.62	
			For Seal Class A, Add	18.38	
			For Work In Restricted Working Space, Add	17.23	
23 31 13	13-0104	LF	10" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	71.89	36.63
			For Seal Class B, Add	9.16	
			For Seal Class A, Add	19.53	
			For Work In Restricted Working Space, Add	18.31	
23 31 13	13-0105	LF	12" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	50.73	25.85
			For Seal Class B, Add	6.46	
			For Seal Class A, Add	13.79	
			For Work In Restricted Working Space, Add	12.92	
23 31 13	13-0106	LF	12" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	54.95	28.00
			For Seal Class B, Add	7.00	
			For Seal Class A, Add	14.93	
			For Work In Restricted Working Space, Add	14.00	
23 31 13	13-0107	LF	12" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	59.21	30.16
			For Seal Class B, Add	7.54	
			For Seal Class A, Add	16.09	
			For Work In Restricted Working Space, Add	15.08	
23 31 13	13-0108	LF	12" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	63.41	32.31
			For Seal Class B, Add	8.08	
			For Seal Class A, Add	17.23	
			For Work In Restricted Working Space, Add	16.16	
23 31 13	13-0109	LF	12" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	67.66	34.46
			For Seal Class B, Add	8.62	
			For Seal Class A, Add	18.38	
			For Work In Restricted Working Space, Add	17.23	
23 31 13	13-0110	LF	12" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	71.89	36.63
			For Seal Class B, Add	9.16	
			For Seal Class A, Add	19.53	
			For Work In Restricted Working Space, Add	18.31	
23 31 13	13-0111	LF	12" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	76.11	38.77
			For Seal Class B, Add	9.69	
			For Seal Class A, Add	20.68	
			For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0112	LF	14" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	59.21	30.16
			For Seal Class B, Add	7.54	
			For Seal Class A, Add	16.09	
			For Work In Restricted Working Space, Add	15.08	
23 31 13	13-0113	LF	14" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	63.41	32.31
			For Seal Class B, Add	8.08	
			For Seal Class A, Add	17.23	
			For Work In Restricted Working Space, Add	16.16	
23 31 13	13-0114	LF	14" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	67.66	34.46
			For Seal Class B, Add	8.62	
			For Seal Class A, Add	18.38	
			For Work In Restricted Working Space, Add	17.23	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0115	LF	14" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	71.89	36.63
			For Seal Class B, Add	9.16	
			For Seal Class A, Add	19.53	
			For Work In Restricted Working Space, Add	18.31	
23 31 13	13-0116	LF	14" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	76.11	38.77
			For Seal Class B, Add	9.69	
			For Seal Class A, Add	20.68	
			For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0117	LF	14" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	80.35	40.93
			For Seal Class B, Add	10.23	
			For Seal Class A, Add	21.83	
			For Work In Restricted Working Space, Add	20.47	
23 31 13	13-0118	LF	16" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	67.66	34.46
			For Seal Class B, Add	8.62	
			For Seal Class A, Add	18.38	
			For Work In Restricted Working Space, Add	17.23	
23 31 13	13-0119	LF	16" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	71.89	36.63
			For Seal Class B, Add	9.16	
			For Seal Class A, Add	19.53	
			For Work In Restricted Working Space, Add	18.31	
23 31 13	13-0120	LF	16" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	76.11	38.77
			For Seal Class B, Add	9.69	
			For Seal Class A, Add	20.68	
			For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0121	LF	16" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	80.35	40.93
			For Seal Class B, Add	10.23	
			For Seal Class A, Add	21.83	
			For Work In Restricted Working Space, Add	20.47	
23 31 13	13-0122	LF	16" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	84.56	43.08
			For Seal Class B, Add	10.77	
			For Seal Class A, Add	22.98	
			For Work In Restricted Working Space, Add	21.54	
23 31 13	13-0123	LF	18" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	76.11	38.77
			For Seal Class B, Add	9.69	
			For Seal Class A, Add	20.68	
			For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0124	LF	18" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	80.35	40.93
			For Seal Class B, Add	10.23	
			For Seal Class A, Add	21.83	
			For Work In Restricted Working Space, Add	20.47	
23 31 13	13-0125	LF	18" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	84.56	43.08
			For Seal Class B, Add	10.77	
			For Seal Class A, Add	22.98	
			For Work In Restricted Working Space, Add	21.54	
23 31 13	13-0126	LF	18" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	88.78	45.24
			For Seal Class B, Add	11.31	
			For Seal Class A, Add	24.12	
			For Work In Restricted Working Space, Add	22.62	
23 31 13	13-0127	LF	20" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	84.56	43.08
			For Seal Class B, Add	10.77	
			For Seal Class A, Add	22.98	
			For Work In Restricted Working Space, Add	21.54	
23 31 13	13-0128	LF	20" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	88.78	45.24
			For Seal Class B, Add	11.31	
			For Seal Class A, Add	24.12	
			For Work In Restricted Working Space, Add	22.62	
23 31 13	13-0129	LF	20" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	93.03	47.39
			For Seal Class B, Add	11.85	
			For Seal Class A, Add	25.28	
			For Work In Restricted Working Space, Add	23.70	
23 31 13	13-0130	LF	22" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	93.03	47.39
			For Seal Class B, Add	11.85	
			For Seal Class A, Add	25.28	
			For Work In Restricted Working Space, Add	23.70	
23 31 13	13-0131	LF	22" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	97.24	49.55
			For Seal Class B, Add	12.39	
			For Seal Class A, Add	26.42	
			For Work In Restricted Working Space, Add	24.77	
23 31 13	13-0132	LF	24" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	101.47	51.71
			For Seal Class B, Add	12.93	
			For Seal Class A, Add	27.57	
			For Work In Restricted Working Space, Add	25.85	
23 31 13	13-0133		26 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)		
			Note: Seal Class C		
23 31 13	13-0134	LF	4" x 4", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	19.62	9.99
			For Seal Class B, Add	2.50	
			For Seal Class A, Add	5.33	
			For Work In Restricted Working Space, Add	5.00	
23 31 13	13-0135	LF	4" x 6", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	24.53	12.49
			For Seal Class B, Add	3.12	
			For Seal Class A, Add	6.67	
			For Work In Restricted Working Space, Add	6.25	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0136	LF	4" x 8", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	29.43	15.00
			For Seal Class B, Add	3.75	
			For Seal Class A, Add	8.00	
			For Work In Restricted Working Space, Add	7.50	
23 31 13	13-0137	LF	4" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	34.33	17.50
			For Seal Class B, Add	4.37	
			For Seal Class A, Add	9.33	
			For Work In Restricted Working Space, Add	8.75	
23 31 13	13-0138	LF	4" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	39.23	20.00
			For Seal Class B, Add	5.00	
			For Seal Class A, Add	10.66	
			For Work In Restricted Working Space, Add	9.99	
23 31 13	13-0139	LF	4" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	44.14	22.49
			For Seal Class B, Add	5.62	
			For Seal Class A, Add	11.99	
			For Work In Restricted Working Space, Add	11.24	
23 31 13	13-0140	LF	4" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	49.04	24.99
			For Seal Class B, Add	6.25	
			For Seal Class A, Add	13.33	
			For Work In Restricted Working Space, Add	12.50	
23 31 13	13-0141	LF	6" x 6", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	29.43	15.00
			For Seal Class B, Add	3.75	
			For Seal Class A, Add	8.00	
			For Work In Restricted Working Space, Add	7.50	
23 31 13	13-0142	LF	6" x 8", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	34.33	17.50
			For Seal Class B, Add	4.37	
			For Seal Class A, Add	9.33	
			For Work In Restricted Working Space, Add	8.75	
23 31 13	13-0143	LF	6" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	39.23	20.00
			For Seal Class B, Add	5.00	
			For Seal Class A, Add	10.66	
			For Work In Restricted Working Space, Add	9.99	
23 31 13	13-0144	LF	6" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	44.14	22.49
			For Seal Class B, Add	5.62	
			For Seal Class A, Add	11.99	
			For Work In Restricted Working Space, Add	11.24	
23 31 13	13-0145	LF	6" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	49.04	24.99
			For Seal Class B, Add	6.25	
			For Seal Class A, Add	13.33	
			For Work In Restricted Working Space, Add	12.50	
23 31 13	13-0146	LF	6" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	53.96	27.49
			For Seal Class B, Add	6.87	
			For Seal Class A, Add	14.66	
			For Work In Restricted Working Space, Add	13.74	
23 31 13	13-0147	LF	8" x 8", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	39.23	20.00
			For Seal Class B, Add	5.00	
			For Seal Class A, Add	10.66	
			For Work In Restricted Working Space, Add	9.99	
23 31 13	13-0148	LF	8" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	44.14	22.49
			For Seal Class B, Add	5.62	
			For Seal Class A, Add	11.99	
			For Work In Restricted Working Space, Add	11.24	
23 31 13	13-0149	LF	8" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	49.05	24.99
			For Seal Class B, Add	6.25	
			For Seal Class A, Add	13.33	
			For Work In Restricted Working Space, Add	12.50	
23 31 13	13-0150	LF	8" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	53.96	27.49
			For Seal Class B, Add	6.87	
			For Seal Class A, Add	14.66	
			For Work In Restricted Working Space, Add	13.74	
23 31 13	13-0151	LF	8" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	58.87	29.99
			For Seal Class B, Add	7.50	
			For Seal Class A, Add	16.00	
			For Work In Restricted Working Space, Add	15.00	
23 31 13	13-0152	LF	8" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	63.77	32.49
			For Seal Class B, Add	8.12	
			For Seal Class A, Add	17.33	
			For Work In Restricted Working Space, Add	16.25	
23 31 13	13-0153	LF	8" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	68.66	34.99
			For Seal Class B, Add	8.75	
			For Seal Class A, Add	18.66	
			For Work In Restricted Working Space, Add	17.49	
23 31 13	13-0154	LF	8" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	73.59	37.48
			For Seal Class B, Add	9.37	
			For Seal Class A, Add	19.99	
			For Work In Restricted Working Space, Add	18.74	
23 31 13	13-0155	LF	8" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	78.48	39.98
			For Seal Class B, Add	10.00	
			For Seal Class A, Add	21.32	
			For Work In Restricted Working Space, Add	19.99	
23 31 13	13-0156	LF	10" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	49.05	24.99
			For Seal Class B, Add	6.25	
			For Seal Class A, Add	13.33	
			For Work In Restricted Working Space, Add	12.50	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0157	LF 10" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	53.95	27.49
		For Seal Class B, Add	6.87	
		For Seal Class A, Add	14.66	
		For Work In Restricted Working Space, Add	13.74	
23 31 13	13-0158	LF 10" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	58.87	29.99
		For Seal Class B, Add	7.50	
		For Seal Class A, Add	16.00	
		For Work In Restricted Working Space, Add	15.00	
23 31 13	13-0159	LF 10" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	63.77	32.49
		For Seal Class B, Add	8.12	
		For Seal Class A, Add	17.33	
		For Work In Restricted Working Space, Add	16.25	
23 31 13	13-0160	LF 10" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	68.66	34.99
		For Seal Class B, Add	8.75	
		For Seal Class A, Add	18.66	
		For Work In Restricted Working Space, Add	17.49	
23 31 13	13-0161	LF 10" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	73.59	37.48
		For Seal Class B, Add	9.37	
		For Seal Class A, Add	19.99	
		For Work In Restricted Working Space, Add	18.74	
23 31 13	13-0162	LF 10" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	78.48	39.98
		For Seal Class B, Add	10.00	
		For Seal Class A, Add	21.32	
		For Work In Restricted Working Space, Add	19.99	
23 31 13	13-0163	LF 10" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	83.39	42.49
		For Seal Class B, Add	10.62	
		For Seal Class A, Add	22.66	
		For Work In Restricted Working Space, Add	21.24	
23 31 13	13-0164	LF 12" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	58.87	29.99
		For Seal Class B, Add	7.50	
		For Seal Class A, Add	16.00	
		For Work In Restricted Working Space, Add	15.00	
23 31 13	13-0165	LF 12" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	63.77	32.49
		For Seal Class B, Add	8.12	
		For Seal Class A, Add	17.33	
		For Work In Restricted Working Space, Add	16.25	
23 31 13	13-0166	LF 12" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	68.66	34.99
		For Seal Class B, Add	8.75	
		For Seal Class A, Add	18.66	
		For Work In Restricted Working Space, Add	17.49	
23 31 13	13-0167	LF 12" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	73.59	37.48
		For Seal Class B, Add	9.37	
		For Seal Class A, Add	19.99	
		For Work In Restricted Working Space, Add	18.74	
23 31 13	13-0168	LF 12" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	78.48	39.98
		For Seal Class B, Add	10.00	
		For Seal Class A, Add	21.32	
		For Work In Restricted Working Space, Add	19.99	
23 31 13	13-0169	LF 12" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	83.39	42.49
		For Seal Class B, Add	10.62	
		For Seal Class A, Add	22.66	
		For Work In Restricted Working Space, Add	21.24	
23 31 13	13-0170	LF 12" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	88.29	44.99
		For Seal Class B, Add	11.25	
		For Seal Class A, Add	23.99	
		For Work In Restricted Working Space, Add	22.49	
23 31 13	13-0171	LF 14" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	68.66	34.99
		For Seal Class B, Add	8.75	
		For Seal Class A, Add	18.66	
		For Work In Restricted Working Space, Add	17.49	
23 31 13	13-0172	LF 14" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	73.59	37.48
		For Seal Class B, Add	9.37	
		For Seal Class A, Add	19.99	
		For Work In Restricted Working Space, Add	18.74	
23 31 13	13-0173	LF 14" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	78.48	39.98
		For Seal Class B, Add	10.00	
		For Seal Class A, Add	21.32	
		For Work In Restricted Working Space, Add	19.99	
23 31 13	13-0174	LF 14" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	83.39	42.49
		For Seal Class B, Add	10.62	
		For Seal Class A, Add	22.66	
		For Work In Restricted Working Space, Add	21.24	
23 31 13	13-0175	LF 14" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	88.29	44.99
		For Seal Class B, Add	11.25	
		For Seal Class A, Add	23.99	
		For Work In Restricted Working Space, Add	22.49	
23 31 13	13-0176	LF 14" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	93.21	47.49
		For Seal Class B, Add	11.87	
		For Seal Class A, Add	25.32	
		For Work In Restricted Working Space, Add	23.74	
23 31 13	13-0177	LF 16" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	78.48	39.98
		For Seal Class B, Add	10.00	
		For Seal Class A, Add	21.32	
		For Work In Restricted Working Space, Add	19.99	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0178	LF	16" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	83.39	42.49
		For Seal Class B, Add	.....	10.62	
		For Seal Class A, Add	.....	22.66	
		For Work In Restricted Working Space, Add	.....	21.24	
23 31 13 13-0179	LF	16" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	88.29	44.99
		For Seal Class B, Add	.....	11.25	
		For Seal Class A, Add	.....	23.99	
		For Work In Restricted Working Space, Add	.....	22.49	
23 31 13 13-0180	LF	16" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	93.21	47.49
		For Seal Class B, Add	.....	11.87	
		For Seal Class A, Add	.....	25.32	
		For Work In Restricted Working Space, Add	.....	23.74	
23 31 13 13-0181	LF	16" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	98.10	49.99
		For Seal Class B, Add	.....	12.50	
		For Seal Class A, Add	.....	26.66	
		For Work In Restricted Working Space, Add	.....	24.99	
23 31 13 13-0182	LF	18" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	88.29	44.99
		For Seal Class B, Add	.....	11.25	
		For Seal Class A, Add	.....	23.99	
		For Work In Restricted Working Space, Add	.....	22.49	
23 31 13 13-0183	LF	18" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	93.21	47.49
		For Seal Class B, Add	.....	11.87	
		For Seal Class A, Add	.....	25.32	
		For Work In Restricted Working Space, Add	.....	23.74	
23 31 13 13-0184	LF	18" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	98.10	49.99
		For Seal Class B, Add	.....	12.50	
		For Seal Class A, Add	.....	26.66	
		For Work In Restricted Working Space, Add	.....	24.99	
23 31 13 13-0185	LF	18" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	103.00	52.48
		For Seal Class B, Add	.....	13.12	
		For Seal Class A, Add	.....	27.99	
		For Work In Restricted Working Space, Add	.....	26.24	
23 31 13 13-0186	LF	20" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	98.10	49.99
		For Seal Class B, Add	.....	12.50	
		For Seal Class A, Add	.....	26.66	
		For Work In Restricted Working Space, Add	.....	24.99	
23 31 13 13-0187	LF	20" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	103.00	52.48
		For Seal Class B, Add	.....	13.12	
		For Seal Class A, Add	.....	27.99	
		For Work In Restricted Working Space, Add	.....	26.24	
23 31 13 13-0188	LF	20" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	107.90	54.98
		For Seal Class B, Add	.....	13.74	
		For Seal Class A, Add	.....	29.32	
		For Work In Restricted Working Space, Add	.....	27.49	
23 31 13 13-0189	LF	22" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	107.90	54.98
		For Seal Class B, Add	.....	13.74	
		For Seal Class A, Add	.....	29.32	
		For Work In Restricted Working Space, Add	.....	27.49	
23 31 13 13-0190	LF	22" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	112.82	57.48
		For Seal Class B, Add	.....	14.37	
		For Seal Class A, Add	.....	30.65	
		For Work In Restricted Working Space, Add	.....	28.74	
23 31 13 13-0191	LF	24" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	117.73	59.98
		For Seal Class B, Add	.....	14.99	
		For Seal Class A, Add	.....	31.99	
		For Work In Restricted Working Space, Add	.....	29.99	
23 31 13 13-0192		24 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)			
		Note: Seal Class C			
23 31 13 13-0193	LF	4" x 4", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	29.64	15.51
		For Seal Class B, Add	.....	3.88	
		For Seal Class A, Add	.....	8.28	
		For Work In Restricted Working Space, Add	.....	7.76	
23 31 13 13-0194	LF	4" x 6", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	37.04	19.38
		For Seal Class B, Add	.....	4.85	
		For Seal Class A, Add	.....	10.34	
		For Work In Restricted Working Space, Add	.....	9.70	
23 31 13 13-0195	LF	4" x 8", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	44.45	23.27
		For Seal Class B, Add	.....	5.82	
		For Seal Class A, Add	.....	12.41	
		For Work In Restricted Working Space, Add	.....	11.63	
23 31 13 13-0196	LF	4" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	51.85	27.15
		For Seal Class B, Add	.....	6.79	
		For Seal Class A, Add	.....	14.48	
		For Work In Restricted Working Space, Add	.....	13.57	
23 31 13 13-0197	LF	4" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	59.26	31.03
		For Seal Class B, Add	.....	7.76	
		For Seal Class A, Add	.....	16.55	
		For Work In Restricted Working Space, Add	.....	15.51	
23 31 13 13-0198	LF	4" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	66.67	34.91
		For Seal Class B, Add	.....	8.73	
		For Seal Class A, Add	.....	18.61	
		For Work In Restricted Working Space, Add	.....	17.45	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0199	LF 4" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	74.08	38.78
		For Seal Class B, Add	9.70	
		For Seal Class A, Add	20.68	
		For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0200	LF 6" x 6", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	44.45	23.27
		For Seal Class B, Add	5.82	
		For Seal Class A, Add	12.41	
		For Work In Restricted Working Space, Add	11.63	
23 31 13	13-0201	LF 6" x 8", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	51.85	27.15
		For Seal Class B, Add	6.79	
		For Seal Class A, Add	14.48	
		For Work In Restricted Working Space, Add	13.57	
23 31 13	13-0202	LF 6" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	59.26	31.03
		For Seal Class B, Add	7.76	
		For Seal Class A, Add	16.55	
		For Work In Restricted Working Space, Add	15.51	
23 31 13	13-0203	LF 6" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	66.67	34.91
		For Seal Class B, Add	8.73	
		For Seal Class A, Add	18.61	
		For Work In Restricted Working Space, Add	17.45	
23 31 13	13-0204	LF 6" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	74.08	38.78
		For Seal Class B, Add	9.70	
		For Seal Class A, Add	20.68	
		For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0205	LF 6" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	81.49	42.66
		For Seal Class B, Add	10.67	
		For Seal Class A, Add	22.75	
		For Work In Restricted Working Space, Add	21.33	
23 31 13	13-0206	LF 8" x 8", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	59.26	31.03
		For Seal Class B, Add	7.76	
		For Seal Class A, Add	16.55	
		For Work In Restricted Working Space, Add	15.51	
23 31 13	13-0207	LF 8" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	66.67	34.91
		For Seal Class B, Add	8.73	
		For Seal Class A, Add	18.61	
		For Work In Restricted Working Space, Add	17.45	
23 31 13	13-0208	LF 8" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	74.08	38.78
		For Seal Class B, Add	9.70	
		For Seal Class A, Add	20.68	
		For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0209	LF 8" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	81.49	42.66
		For Seal Class B, Add	10.67	
		For Seal Class A, Add	22.75	
		For Work In Restricted Working Space, Add	21.33	
23 31 13	13-0210	LF 8" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	88.90	46.53
		For Seal Class B, Add	11.64	
		For Seal Class A, Add	24.82	
		For Work In Restricted Working Space, Add	23.27	
23 31 13	13-0211	LF 8" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	96.29	50.42
		For Seal Class B, Add	12.60	
		For Seal Class A, Add	26.89	
		For Work In Restricted Working Space, Add	25.21	
23 31 13	13-0212	LF 8" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	103.71	54.30
		For Seal Class B, Add	13.57	
		For Seal Class A, Add	28.96	
		For Work In Restricted Working Space, Add	27.15	
23 31 13	13-0213	LF 8" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	111.11	58.17
		For Seal Class B, Add	14.54	
		For Seal Class A, Add	31.02	
		For Work In Restricted Working Space, Add	29.09	
23 31 13	13-0214	LF 8" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	118.53	62.05
		For Seal Class B, Add	15.51	
		For Seal Class A, Add	33.09	
		For Work In Restricted Working Space, Add	31.03	
23 31 13	13-0215	LF 10" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	74.08	38.78
		For Seal Class B, Add	9.70	
		For Seal Class A, Add	20.68	
		For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0216	LF 10" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	81.49	42.66
		For Seal Class B, Add	10.67	
		For Seal Class A, Add	22.75	
		For Work In Restricted Working Space, Add	21.33	
23 31 13	13-0217	LF 10" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	88.90	46.53
		For Seal Class B, Add	11.64	
		For Seal Class A, Add	24.82	
		For Work In Restricted Working Space, Add	23.27	
23 31 13	13-0218	LF 10" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	96.29	50.42
		For Seal Class B, Add	12.60	
		For Seal Class A, Add	26.89	
		For Work In Restricted Working Space, Add	25.21	
23 31 13	13-0219	LF 10" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	103.71	54.30
		For Seal Class B, Add	13.57	
		For Seal Class A, Add	28.96	
		For Work In Restricted Working Space, Add	27.15	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0220	LF	10" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	111.11	58.17
			For Seal Class B, Add	14.54	
			For Seal Class A, Add	31.02	
			For Work In Restricted Working Space, Add	29.09	
23 31 13	13-0221	LF	10" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	118.53	62.05
			For Seal Class B, Add	15.51	
			For Seal Class A, Add	33.09	
			For Work In Restricted Working Space, Add	31.03	
23 31 13	13-0222	LF	10" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	125.93	65.93
			For Seal Class B, Add	16.48	
			For Seal Class A, Add	35.16	
			For Work In Restricted Working Space, Add	32.96	
23 31 13	13-0223	LF	10" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	133.35	69.80
			For Seal Class B, Add	17.45	
			For Seal Class A, Add	37.23	
			For Work In Restricted Working Space, Add	34.91	
23 31 13	13-0224	LF	10" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	140.75	73.68
			For Seal Class B, Add	18.42	
			For Seal Class A, Add	39.30	
			For Work In Restricted Working Space, Add	36.84	
23 31 13	13-0225	LF	10" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	148.15	77.57
			For Seal Class B, Add	19.39	
			For Seal Class A, Add	41.37	
			For Work In Restricted Working Space, Add	38.78	
23 31 13	13-0226	LF	12" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	88.90	46.53
			For Seal Class B, Add	11.64	
			For Seal Class A, Add	24.82	
			For Work In Restricted Working Space, Add	23.27	
23 31 13	13-0227	LF	12" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	96.29	50.42
			For Seal Class B, Add	12.60	
			For Seal Class A, Add	26.89	
			For Work In Restricted Working Space, Add	25.21	
23 31 13	13-0228	LF	12" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	103.71	54.30
			For Seal Class B, Add	13.57	
			For Seal Class A, Add	28.96	
			For Work In Restricted Working Space, Add	27.15	
23 31 13	13-0229	LF	12" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	111.11	58.17
			For Seal Class B, Add	14.54	
			For Seal Class A, Add	31.02	
			For Work In Restricted Working Space, Add	29.09	
23 31 13	13-0230	LF	12" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	118.53	62.05
			For Seal Class B, Add	15.51	
			For Seal Class A, Add	33.09	
			For Work In Restricted Working Space, Add	31.03	
23 31 13	13-0231	LF	12" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	125.93	65.93
			For Seal Class B, Add	16.48	
			For Seal Class A, Add	35.16	
			For Work In Restricted Working Space, Add	32.96	
23 31 13	13-0232	LF	12" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	133.35	69.80
			For Seal Class B, Add	17.45	
			For Seal Class A, Add	37.23	
			For Work In Restricted Working Space, Add	34.91	
23 31 13	13-0233	LF	12" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	140.75	73.68
			For Seal Class B, Add	18.42	
			For Seal Class A, Add	39.30	
			For Work In Restricted Working Space, Add	36.84	
23 31 13	13-0234	LF	12" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	148.15	77.57
			For Seal Class B, Add	19.39	
			For Seal Class A, Add	41.37	
			For Work In Restricted Working Space, Add	38.78	
23 31 13	13-0235	LF	12" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	155.56	81.45
			For Seal Class B, Add	20.36	
			For Seal Class A, Add	43.43	
			For Work In Restricted Working Space, Add	40.72	
23 31 13	13-0236	LF	14" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	103.71	54.30
			For Seal Class B, Add	13.57	
			For Seal Class A, Add	28.96	
			For Work In Restricted Working Space, Add	27.15	
23 31 13	13-0237	LF	14" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	111.11	58.17
			For Seal Class B, Add	14.54	
			For Seal Class A, Add	31.02	
			For Work In Restricted Working Space, Add	29.09	
23 31 13	13-0238	LF	14" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	118.53	62.05
			For Seal Class B, Add	15.51	
			For Seal Class A, Add	33.09	
			For Work In Restricted Working Space, Add	31.03	
23 31 13	13-0239	LF	14" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	125.93	65.93
			For Seal Class B, Add	16.48	
			For Seal Class A, Add	35.16	
			For Work In Restricted Working Space, Add	32.96	
23 31 13	13-0240	LF	14" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	133.35	69.80
			For Seal Class B, Add	17.45	
			For Seal Class A, Add	37.23	
			For Work In Restricted Working Space, Add	34.91	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0241	LF 14" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	140.75	73.68
		For Seal Class B, Add	18.42	
		For Seal Class A, Add	39.30	
		For Work In Restricted Working Space, Add	36.84	
23 31 13	13-0242	LF 14" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	148.15	77.57
		For Seal Class B, Add	19.39	
		For Seal Class A, Add	41.37	
		For Work In Restricted Working Space, Add	38.78	
23 31 13	13-0243	LF 14" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	155.56	81.45
		For Seal Class B, Add	20.36	
		For Seal Class A, Add	43.43	
		For Work In Restricted Working Space, Add	40.72	
23 31 13	13-0244	LF 14" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	162.97	85.31
		For Seal Class B, Add	21.33	
		For Seal Class A, Add	45.50	
		For Work In Restricted Working Space, Add	42.66	
23 31 13	13-0245	LF 16" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	118.53	62.05
		For Seal Class B, Add	15.51	
		For Seal Class A, Add	33.09	
		For Work In Restricted Working Space, Add	31.03	
23 31 13	13-0246	LF 16" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	125.93	65.93
		For Seal Class B, Add	16.48	
		For Seal Class A, Add	35.16	
		For Work In Restricted Working Space, Add	32.96	
23 31 13	13-0247	LF 16" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	133.35	69.80
		For Seal Class B, Add	17.45	
		For Seal Class A, Add	37.23	
		For Work In Restricted Working Space, Add	34.91	
23 31 13	13-0248	LF 16" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	140.75	73.68
		For Seal Class B, Add	18.42	
		For Seal Class A, Add	39.30	
		For Work In Restricted Working Space, Add	36.84	
23 31 13	13-0249	LF 16" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	148.15	77.57
		For Seal Class B, Add	19.39	
		For Seal Class A, Add	41.37	
		For Work In Restricted Working Space, Add	38.78	
23 31 13	13-0250	LF 16" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	155.56	81.45
		For Seal Class B, Add	20.36	
		For Seal Class A, Add	43.43	
		For Work In Restricted Working Space, Add	40.72	
23 31 13	13-0251	LF 16" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	162.97	85.31
		For Seal Class B, Add	21.33	
		For Seal Class A, Add	45.50	
		For Work In Restricted Working Space, Add	42.66	
23 31 13	13-0252	LF 16" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	170.38	89.20
		For Seal Class B, Add	22.30	
		For Seal Class A, Add	47.57	
		For Work In Restricted Working Space, Add	44.60	
23 31 13	13-0253	LF 18" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	133.35	69.80
		For Seal Class B, Add	17.45	
		For Seal Class A, Add	37.23	
		For Work In Restricted Working Space, Add	34.91	
23 31 13	13-0254	LF 18" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	140.75	73.68
		For Seal Class B, Add	18.42	
		For Seal Class A, Add	39.30	
		For Work In Restricted Working Space, Add	36.84	
23 31 13	13-0255	LF 18" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	148.15	77.57
		For Seal Class B, Add	19.39	
		For Seal Class A, Add	41.37	
		For Work In Restricted Working Space, Add	38.78	
23 31 13	13-0256	LF 18" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	155.56	81.45
		For Seal Class B, Add	20.36	
		For Seal Class A, Add	43.43	
		For Work In Restricted Working Space, Add	40.72	
23 31 13	13-0257	LF 18" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	162.97	85.31
		For Seal Class B, Add	21.33	
		For Seal Class A, Add	45.50	
		For Work In Restricted Working Space, Add	42.66	
23 31 13	13-0258	LF 18" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	170.38	89.20
		For Seal Class B, Add	22.30	
		For Seal Class A, Add	47.57	
		For Work In Restricted Working Space, Add	44.60	
23 31 13	13-0259	LF 18" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	177.79	93.08
		For Seal Class B, Add	23.27	
		For Seal Class A, Add	49.64	
		For Work In Restricted Working Space, Add	46.54	
23 31 13	13-0260	LF 20" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	148.15	77.57
		For Seal Class B, Add	19.39	
		For Seal Class A, Add	41.37	
		For Work In Restricted Working Space, Add	38.78	
23 31 13	13-0261	LF 20" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	155.56	81.45
		For Seal Class B, Add	20.36	
		For Seal Class A, Add	43.43	
		For Work In Restricted Working Space, Add	40.72	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0262	LF	20" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	162.97	85.31
		For Seal Class B, Add	.....	21.33	
		For Seal Class A, Add	.....	45.50	
		For Work In Restricted Working Space, Add	.....	42.66	
23 31 13 13-0263	LF	20" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	170.38	89.20
		For Seal Class B, Add	.....	22.30	
		For Seal Class A, Add	.....	47.57	
		For Work In Restricted Working Space, Add	.....	44.60	
23 31 13 13-0264	LF	20" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	177.79	93.08
		For Seal Class B, Add	.....	23.27	
		For Seal Class A, Add	.....	49.64	
		For Work In Restricted Working Space, Add	.....	46.54	
23 31 13 13-0265	LF	20" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	185.19	96.95
		For Seal Class B, Add	.....	24.24	
		For Seal Class A, Add	.....	51.71	
		For Work In Restricted Working Space, Add	.....	48.48	
23 31 13 13-0266	LF	22" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	162.97	85.31
		For Seal Class B, Add	.....	21.33	
		For Seal Class A, Add	.....	45.50	
		For Work In Restricted Working Space, Add	.....	42.66	
23 31 13 13-0267	LF	22" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	170.38	89.20
		For Seal Class B, Add	.....	22.30	
		For Seal Class A, Add	.....	47.57	
		For Work In Restricted Working Space, Add	.....	44.60	
23 31 13 13-0268	LF	22" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	177.79	93.08
		For Seal Class B, Add	.....	23.27	
		For Seal Class A, Add	.....	49.64	
		For Work In Restricted Working Space, Add	.....	46.54	
23 31 13 13-0269	LF	22" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	185.19	96.95
		For Seal Class B, Add	.....	24.24	
		For Seal Class A, Add	.....	51.71	
		For Work In Restricted Working Space, Add	.....	48.48	
23 31 13 13-0270	LF	22" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	192.61	100.84
		For Seal Class B, Add	.....	25.21	
		For Seal Class A, Add	.....	53.78	
		For Work In Restricted Working Space, Add	.....	50.42	
23 31 13 13-0271	LF	24" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	177.79	93.08
		For Seal Class B, Add	.....	23.27	
		For Seal Class A, Add	.....	49.64	
		For Work In Restricted Working Space, Add	.....	46.54	
23 31 13 13-0272	LF	24" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	185.19	96.95
		For Seal Class B, Add	.....	24.24	
		For Seal Class A, Add	.....	51.71	
		For Work In Restricted Working Space, Add	.....	48.48	
23 31 13 13-0273	LF	24" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	192.61	100.84
		For Seal Class B, Add	.....	25.21	
		For Seal Class A, Add	.....	53.78	
		For Work In Restricted Working Space, Add	.....	50.42	
23 31 13 13-0274	LF	24" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	200.01	104.72
		For Seal Class B, Add	.....	26.18	
		For Seal Class A, Add	.....	55.85	
		For Work In Restricted Working Space, Add	.....	52.36	
23 31 13 13-0275	LF	26" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	192.61	100.84
		For Seal Class B, Add	.....	25.21	
		For Seal Class A, Add	.....	53.78	
		For Work In Restricted Working Space, Add	.....	50.42	
23 31 13 13-0276	LF	26" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	200.01	104.72
		For Seal Class B, Add	.....	26.18	
		For Seal Class A, Add	.....	55.85	
		For Work In Restricted Working Space, Add	.....	52.36	
23 31 13 13-0277	LF	26" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	207.41	108.58
		For Seal Class B, Add	.....	27.15	
		For Seal Class A, Add	.....	57.91	
		For Work In Restricted Working Space, Add	.....	54.29	
23 31 13 13-0278	LF	28" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	207.41	108.58
		For Seal Class B, Add	.....	27.15	
		For Seal Class A, Add	.....	57.91	
		For Work In Restricted Working Space, Add	.....	54.29	
23 31 13 13-0279	LF	28" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	214.82	112.46
		For Seal Class B, Add	.....	28.12	
		For Seal Class A, Add	.....	59.98	
		For Work In Restricted Working Space, Add	.....	56.23	
23 31 13 13-0280	LF	30" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	222.25	116.35
		For Seal Class B, Add	.....	29.09	
		For Seal Class A, Add	.....	62.05	
		For Work In Restricted Working Space, Add	.....	58.18	
23 31 13 13-0281		22 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)			
		Note: Seal Class C			
23 31 13 13-0282	LF	4" x 4", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	30.45	15.51
		For Seal Class B, Add	.....	3.88	
		For Seal Class A, Add	.....	8.28	
		For Work In Restricted Working Space, Add	.....	7.76	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0283	LF	4" x 6", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	38.06	19.38
			For Seal Class B, Add	4.85	
			For Seal Class A, Add	10.34	
			For Work In Restricted Working Space, Add	9.70	
23 31 13	13-0284	LF	4" x 8", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	45.67	23.27
			For Seal Class B, Add	5.82	
			For Seal Class A, Add	12.41	
			For Work In Restricted Working Space, Add	11.63	
23 31 13	13-0285	LF	4" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	53.28	27.15
			For Seal Class B, Add	6.79	
			For Seal Class A, Add	14.48	
			For Work In Restricted Working Space, Add	13.57	
23 31 13	13-0286	LF	4" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	60.90	31.03
			For Seal Class B, Add	7.76	
			For Seal Class A, Add	16.55	
			For Work In Restricted Working Space, Add	15.51	
23 31 13	13-0287	LF	4" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	68.51	34.91
			For Seal Class B, Add	8.73	
			For Seal Class A, Add	18.61	
			For Work In Restricted Working Space, Add	17.45	
23 31 13	13-0288	LF	4" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	76.12	38.78
			For Seal Class B, Add	9.70	
			For Seal Class A, Add	20.68	
			For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0289	LF	6" x 6", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	45.67	23.27
			For Seal Class B, Add	5.82	
			For Seal Class A, Add	12.41	
			For Work In Restricted Working Space, Add	11.63	
23 31 13	13-0290	LF	6" x 8", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	53.28	27.15
			For Seal Class B, Add	6.79	
			For Seal Class A, Add	14.48	
			For Work In Restricted Working Space, Add	13.57	
23 31 13	13-0291	LF	6" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	60.90	31.03
			For Seal Class B, Add	7.76	
			For Seal Class A, Add	16.55	
			For Work In Restricted Working Space, Add	15.51	
23 31 13	13-0292	LF	6" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	68.51	34.91
			For Seal Class B, Add	8.73	
			For Seal Class A, Add	18.61	
			For Work In Restricted Working Space, Add	17.45	
23 31 13	13-0293	LF	6" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	76.12	38.78
			For Seal Class B, Add	9.70	
			For Seal Class A, Add	20.68	
			For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0294	LF	6" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	83.73	42.66
			For Seal Class B, Add	10.67	
			For Seal Class A, Add	22.75	
			For Work In Restricted Working Space, Add	21.33	
23 31 13	13-0295	LF	8" x 8", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	60.90	31.03
			For Seal Class B, Add	7.76	
			For Seal Class A, Add	16.55	
			For Work In Restricted Working Space, Add	15.51	
23 31 13	13-0296	LF	8" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	68.51	34.91
			For Seal Class B, Add	8.73	
			For Seal Class A, Add	18.61	
			For Work In Restricted Working Space, Add	17.45	
23 31 13	13-0297	LF	8" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	76.12	38.78
			For Seal Class B, Add	9.70	
			For Seal Class A, Add	20.68	
			For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0298	LF	8" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	83.73	42.66
			For Seal Class B, Add	10.67	
			For Seal Class A, Add	22.75	
			For Work In Restricted Working Space, Add	21.33	
23 31 13	13-0299	LF	8" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	91.35	46.53
			For Seal Class B, Add	11.64	
			For Seal Class A, Add	24.82	
			For Work In Restricted Working Space, Add	23.27	
23 31 13	13-0300	LF	8" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	98.95	50.42
			For Seal Class B, Add	12.60	
			For Seal Class A, Add	26.89	
			For Work In Restricted Working Space, Add	25.21	
23 31 13	13-0301	LF	8" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	106.57	54.30
			For Seal Class B, Add	13.57	
			For Seal Class A, Add	28.96	
			For Work In Restricted Working Space, Add	27.15	
23 31 13	13-0302	LF	8" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	114.18	58.17
			For Seal Class B, Add	14.54	
			For Seal Class A, Add	31.02	
			For Work In Restricted Working Space, Add	29.09	
23 31 13	13-0303	LF	8" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	121.79	62.05
			For Seal Class B, Add	15.51	
			For Seal Class A, Add	33.09	
			For Work In Restricted Working Space, Add	31.03	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0304	LF	10" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	76.12	38.78
			For Seal Class B, Add	9.70	
			For Seal Class A, Add	20.68	
			For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0305	LF	10" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	83.73	42.66
			For Seal Class B, Add	10.67	
			For Seal Class A, Add	22.75	
			For Work In Restricted Working Space, Add	21.33	
23 31 13	13-0306	LF	10" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	91.35	46.53
			For Seal Class B, Add	11.64	
			For Seal Class A, Add	24.82	
			For Work In Restricted Working Space, Add	23.27	
23 31 13	13-0307	LF	10" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	98.95	50.42
			For Seal Class B, Add	12.60	
			For Seal Class A, Add	26.89	
			For Work In Restricted Working Space, Add	25.21	
23 31 13	13-0308	LF	10" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	106.57	54.30
			For Seal Class B, Add	13.57	
			For Seal Class A, Add	28.96	
			For Work In Restricted Working Space, Add	27.15	
23 31 13	13-0309	LF	10" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	114.18	58.17
			For Seal Class B, Add	14.54	
			For Seal Class A, Add	31.02	
			For Work In Restricted Working Space, Add	29.09	
23 31 13	13-0310	LF	10" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	121.79	62.05
			For Seal Class B, Add	15.51	
			For Seal Class A, Add	33.09	
			For Work In Restricted Working Space, Add	31.03	
23 31 13	13-0311	LF	10" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	129.40	65.93
			For Seal Class B, Add	16.48	
			For Seal Class A, Add	35.16	
			For Work In Restricted Working Space, Add	32.96	
23 31 13	13-0312	LF	10" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	137.02	69.80
			For Seal Class B, Add	17.45	
			For Seal Class A, Add	37.23	
			For Work In Restricted Working Space, Add	34.91	
23 31 13	13-0313	LF	10" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	144.63	73.68
			For Seal Class B, Add	18.42	
			For Seal Class A, Add	39.30	
			For Work In Restricted Working Space, Add	36.84	
23 31 13	13-0314	LF	10" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	152.24	77.57
			For Seal Class B, Add	19.39	
			For Seal Class A, Add	41.37	
			For Work In Restricted Working Space, Add	38.78	
23 31 13	13-0315	LF	10" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	159.85	81.45
			For Seal Class B, Add	20.36	
			For Seal Class A, Add	43.43	
			For Work In Restricted Working Space, Add	40.72	
23 31 13	13-0316	LF	12" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	91.35	46.53
			For Seal Class B, Add	11.64	
			For Seal Class A, Add	24.82	
			For Work In Restricted Working Space, Add	23.27	
23 31 13	13-0317	LF	12" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	98.95	50.42
			For Seal Class B, Add	12.60	
			For Seal Class A, Add	26.89	
			For Work In Restricted Working Space, Add	25.21	
23 31 13	13-0318	LF	12" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	106.57	54.30
			For Seal Class B, Add	13.57	
			For Seal Class A, Add	28.96	
			For Work In Restricted Working Space, Add	27.15	
23 31 13	13-0319	LF	12" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	114.18	58.17
			For Seal Class B, Add	14.54	
			For Seal Class A, Add	31.02	
			For Work In Restricted Working Space, Add	29.09	
23 31 13	13-0320	LF	12" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	121.79	62.05
			For Seal Class B, Add	15.51	
			For Seal Class A, Add	33.09	
			For Work In Restricted Working Space, Add	31.03	
23 31 13	13-0321	LF	12" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	129.40	65.93
			For Seal Class B, Add	16.48	
			For Seal Class A, Add	35.16	
			For Work In Restricted Working Space, Add	32.96	
23 31 13	13-0322	LF	12" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	137.02	69.80
			For Seal Class B, Add	17.45	
			For Seal Class A, Add	37.23	
			For Work In Restricted Working Space, Add	34.91	
23 31 13	13-0323	LF	12" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	144.63	73.68
			For Seal Class B, Add	18.42	
			For Seal Class A, Add	39.30	
			For Work In Restricted Working Space, Add	36.84	
23 31 13	13-0324	LF	12" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	152.24	77.57
			For Seal Class B, Add	19.39	
			For Seal Class A, Add	41.37	
			For Work In Restricted Working Space, Add	38.78	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0325	LF	12" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	159.85	81.45
			For Seal Class B, Add	20.36	
			For Seal Class A, Add	43.43	
			For Work In Restricted Working Space, Add	40.72	
23 31 13	13-0326	LF	12" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	167.46	85.31
			For Seal Class B, Add	21.33	
			For Seal Class A, Add	45.50	
			For Work In Restricted Working Space, Add	42.66	
23 31 13	13-0327	LF	12" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	175.07	89.20
			For Seal Class B, Add	22.30	
			For Seal Class A, Add	47.57	
			For Work In Restricted Working Space, Add	44.60	
23 31 13	13-0328	LF	12" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	182.69	93.08
			For Seal Class B, Add	23.27	
			For Seal Class A, Add	49.64	
			For Work In Restricted Working Space, Add	46.54	
23 31 13	13-0329	LF	14" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	106.57	54.30
			For Seal Class B, Add	13.57	
			For Seal Class A, Add	28.96	
			For Work In Restricted Working Space, Add	27.15	
23 31 13	13-0330	LF	14" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	114.18	58.17
			For Seal Class B, Add	14.54	
			For Seal Class A, Add	31.02	
			For Work In Restricted Working Space, Add	29.09	
23 31 13	13-0331	LF	14" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	121.79	62.05
			For Seal Class B, Add	15.51	
			For Seal Class A, Add	33.09	
			For Work In Restricted Working Space, Add	31.03	
23 31 13	13-0332	LF	14" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	129.40	65.93
			For Seal Class B, Add	16.48	
			For Seal Class A, Add	35.16	
			For Work In Restricted Working Space, Add	32.96	
23 31 13	13-0333	LF	14" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	137.02	69.80
			For Seal Class B, Add	17.45	
			For Seal Class A, Add	37.23	
			For Work In Restricted Working Space, Add	34.91	
23 31 13	13-0334	LF	14" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	144.63	73.68
			For Seal Class B, Add	18.42	
			For Seal Class A, Add	39.30	
			For Work In Restricted Working Space, Add	36.84	
23 31 13	13-0335	LF	14" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	152.24	77.57
			For Seal Class B, Add	19.39	
			For Seal Class A, Add	41.37	
			For Work In Restricted Working Space, Add	38.78	
23 31 13	13-0336	LF	14" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	159.85	81.45
			For Seal Class B, Add	20.36	
			For Seal Class A, Add	43.43	
			For Work In Restricted Working Space, Add	40.72	
23 31 13	13-0337	LF	14" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	167.46	85.31
			For Seal Class B, Add	21.33	
			For Seal Class A, Add	45.50	
			For Work In Restricted Working Space, Add	42.66	
23 31 13	13-0338	LF	14" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	175.07	89.20
			For Seal Class B, Add	22.30	
			For Seal Class A, Add	47.57	
			For Work In Restricted Working Space, Add	44.60	
23 31 13	13-0339	LF	14" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	182.69	93.08
			For Seal Class B, Add	23.27	
			For Seal Class A, Add	49.64	
			For Work In Restricted Working Space, Add	46.54	
23 31 13	13-0340	LF	14" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	190.30	96.95
			For Seal Class B, Add	24.24	
			For Seal Class A, Add	51.71	
			For Work In Restricted Working Space, Add	48.48	
23 31 13	13-0341	LF	16" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	121.79	62.05
			For Seal Class B, Add	15.51	
			For Seal Class A, Add	33.09	
			For Work In Restricted Working Space, Add	31.03	
23 31 13	13-0342	LF	16" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	129.40	65.93
			For Seal Class B, Add	16.48	
			For Seal Class A, Add	35.16	
			For Work In Restricted Working Space, Add	32.96	
23 31 13	13-0343	LF	16" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	137.02	69.80
			For Seal Class B, Add	17.45	
			For Seal Class A, Add	37.23	
			For Work In Restricted Working Space, Add	34.91	
23 31 13	13-0344	LF	16" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	144.63	73.68
			For Seal Class B, Add	18.42	
			For Seal Class A, Add	39.30	
			For Work In Restricted Working Space, Add	36.84	
23 31 13	13-0345	LF	16" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	152.24	77.57
			For Seal Class B, Add	19.39	
			For Seal Class A, Add	41.37	
			For Work In Restricted Working Space, Add	38.78	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0346	LF	16" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	159.85	81.45
			For Seal Class B, Add	20.36	
			For Seal Class A, Add	43.43	
			For Work In Restricted Working Space, Add	40.72	
23 31 13	13-0347	LF	16" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	167.46	85.31
			For Seal Class B, Add	21.33	
			For Seal Class A, Add	45.50	
			For Work In Restricted Working Space, Add	42.66	
23 31 13	13-0348	LF	16" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	175.07	89.20
			For Seal Class B, Add	22.30	
			For Seal Class A, Add	47.57	
			For Work In Restricted Working Space, Add	44.60	
23 31 13	13-0349	LF	16" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	182.69	93.08
			For Seal Class B, Add	23.27	
			For Seal Class A, Add	49.64	
			For Work In Restricted Working Space, Add	46.54	
23 31 13	13-0350	LF	16" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	190.30	96.95
			For Seal Class B, Add	24.24	
			For Seal Class A, Add	51.71	
			For Work In Restricted Working Space, Add	48.48	
23 31 13	13-0351	LF	16" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.92	100.84
			For Seal Class B, Add	25.21	
			For Seal Class A, Add	53.78	
			For Work In Restricted Working Space, Add	50.42	
23 31 13	13-0352	LF	16" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	205.53	104.72
			For Seal Class B, Add	26.18	
			For Seal Class A, Add	55.85	
			For Work In Restricted Working Space, Add	52.36	
23 31 13	13-0353	LF	16" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	213.12	108.58
			For Seal Class B, Add	27.15	
			For Seal Class A, Add	57.91	
			For Work In Restricted Working Space, Add	54.29	
23 31 13	13-0354	LF	16" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	220.74	112.46
			For Seal Class B, Add	28.12	
			For Seal Class A, Add	59.98	
			For Work In Restricted Working Space, Add	56.23	
23 31 13	13-0355	LF	16" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	228.37	116.35
			For Seal Class B, Add	29.09	
			For Seal Class A, Add	62.05	
			For Work In Restricted Working Space, Add	58.18	
23 31 13	13-0356	LF	18" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	137.02	69.80
			For Seal Class B, Add	17.45	
			For Seal Class A, Add	37.23	
			For Work In Restricted Working Space, Add	34.91	
23 31 13	13-0357	LF	18" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	144.63	73.68
			For Seal Class B, Add	18.42	
			For Seal Class A, Add	39.30	
			For Work In Restricted Working Space, Add	36.84	
23 31 13	13-0358	LF	18" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	152.24	77.57
			For Seal Class B, Add	19.39	
			For Seal Class A, Add	41.37	
			For Work In Restricted Working Space, Add	38.78	
23 31 13	13-0359	LF	18" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	159.85	81.45
			For Seal Class B, Add	20.36	
			For Seal Class A, Add	43.43	
			For Work In Restricted Working Space, Add	40.72	
23 31 13	13-0360	LF	18" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	167.46	85.31
			For Seal Class B, Add	21.33	
			For Seal Class A, Add	45.50	
			For Work In Restricted Working Space, Add	42.66	
23 31 13	13-0361	LF	18" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	175.07	89.20
			For Seal Class B, Add	22.30	
			For Seal Class A, Add	47.57	
			For Work In Restricted Working Space, Add	44.60	
23 31 13	13-0362	LF	18" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	182.69	93.08
			For Seal Class B, Add	23.27	
			For Seal Class A, Add	49.64	
			For Work In Restricted Working Space, Add	46.54	
23 31 13	13-0363	LF	18" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	190.30	96.95
			For Seal Class B, Add	24.24	
			For Seal Class A, Add	51.71	
			For Work In Restricted Working Space, Add	48.48	
23 31 13	13-0364	LF	18" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.92	100.84
			For Seal Class B, Add	25.21	
			For Seal Class A, Add	53.78	
			For Work In Restricted Working Space, Add	50.42	
23 31 13	13-0365	LF	18" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	205.53	104.72
			For Seal Class B, Add	26.18	
			For Seal Class A, Add	55.85	
			For Work In Restricted Working Space, Add	52.36	
23 31 13	13-0366	LF	18" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	213.12	108.58
			For Seal Class B, Add	27.15	
			For Seal Class A, Add	57.91	
			For Work In Restricted Working Space, Add	54.29	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0367	LF 18" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	220.74	112.46
		For Seal Class B, Add	28.12	
		For Seal Class A, Add	59.98	
		For Work In Restricted Working Space, Add	56.23	
23 31 13	13-0368	LF 18" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	228.37	116.35
		For Seal Class B, Add	29.09	
		For Seal Class A, Add	62.05	
		For Work In Restricted Working Space, Add	58.18	
23 31 13	13-0369	LF 18" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	235.97	120.22
		For Seal Class B, Add	30.06	
		For Seal Class A, Add	64.12	
		For Work In Restricted Working Space, Add	60.11	
23 31 13	13-0370	LF 18" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	243.58	124.10
		For Seal Class B, Add	31.02	
		For Seal Class A, Add	66.19	
		For Work In Restricted Working Space, Add	62.05	
23 31 13	13-0371	LF 20" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	152.24	77.57
		For Seal Class B, Add	19.39	
		For Seal Class A, Add	41.37	
		For Work In Restricted Working Space, Add	38.78	
23 31 13	13-0372	LF 20" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	159.85	81.45
		For Seal Class B, Add	20.36	
		For Seal Class A, Add	43.43	
		For Work In Restricted Working Space, Add	40.72	
23 31 13	13-0373	LF 20" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	167.46	85.31
		For Seal Class B, Add	21.33	
		For Seal Class A, Add	45.50	
		For Work In Restricted Working Space, Add	42.66	
23 31 13	13-0374	LF 20" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	175.07	89.20
		For Seal Class B, Add	22.30	
		For Seal Class A, Add	47.57	
		For Work In Restricted Working Space, Add	44.60	
23 31 13	13-0375	LF 20" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	182.69	93.08
		For Seal Class B, Add	23.27	
		For Seal Class A, Add	49.64	
		For Work In Restricted Working Space, Add	46.54	
23 31 13	13-0376	LF 20" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	190.30	96.95
		For Seal Class B, Add	24.24	
		For Seal Class A, Add	51.71	
		For Work In Restricted Working Space, Add	48.48	
23 31 13	13-0377	LF 20" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.92	100.84
		For Seal Class B, Add	25.21	
		For Seal Class A, Add	53.78	
		For Work In Restricted Working Space, Add	50.42	
23 31 13	13-0378	LF 20" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	205.53	104.72
		For Seal Class B, Add	26.18	
		For Seal Class A, Add	55.85	
		For Work In Restricted Working Space, Add	52.36	
23 31 13	13-0379	LF 20" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	213.12	108.58
		For Seal Class B, Add	27.15	
		For Seal Class A, Add	57.91	
		For Work In Restricted Working Space, Add	54.29	
23 31 13	13-0380	LF 20" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	220.74	112.46
		For Seal Class B, Add	28.12	
		For Seal Class A, Add	59.98	
		For Work In Restricted Working Space, Add	56.23	
23 31 13	13-0381	LF 20" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	228.37	116.35
		For Seal Class B, Add	29.09	
		For Seal Class A, Add	62.05	
		For Work In Restricted Working Space, Add	58.18	
23 31 13	13-0382	LF 20" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	235.97	120.22
		For Seal Class B, Add	30.06	
		For Seal Class A, Add	64.12	
		For Work In Restricted Working Space, Add	60.11	
23 31 13	13-0383	LF 20" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	243.58	124.10
		For Seal Class B, Add	31.02	
		For Seal Class A, Add	66.19	
		For Work In Restricted Working Space, Add	62.05	
23 31 13	13-0384	LF 20" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.20	127.99
		For Seal Class B, Add	32.00	
		For Seal Class A, Add	68.26	
		For Work In Restricted Working Space, Add	63.99	
23 31 13	13-0385	LF 20" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	258.80	131.86
		For Seal Class B, Add	32.96	
		For Seal Class A, Add	70.32	
		For Work In Restricted Working Space, Add	65.93	
23 31 13	13-0386	LF 22" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	167.46	85.31
		For Seal Class B, Add	21.33	
		For Seal Class A, Add	45.50	
		For Work In Restricted Working Space, Add	42.66	
23 31 13	13-0387	LF 22" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	175.07	89.20
		For Seal Class B, Add	22.30	
		For Seal Class A, Add	47.57	
		For Work In Restricted Working Space, Add	44.60	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
23 31 13 13-0388	LF	22" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	182.69	93.08
		For Seal Class B, Add	23.27	
		For Seal Class A, Add	49.64	
		For Work In Restricted Working Space, Add	46.54	
23 31 13 13-0389	LF	22" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	190.30	96.95
		For Seal Class B, Add	24.24	
		For Seal Class A, Add	51.71	
		For Work In Restricted Working Space, Add	48.48	
23 31 13 13-0390	LF	22" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.92	100.84
		For Seal Class B, Add	25.21	
		For Seal Class A, Add	53.78	
		For Work In Restricted Working Space, Add	50.42	
23 31 13 13-0391	LF	22" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	205.53	104.72
		For Seal Class B, Add	26.18	
		For Seal Class A, Add	55.85	
		For Work In Restricted Working Space, Add	52.36	
23 31 13 13-0392	LF	22" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	213.12	108.58
		For Seal Class B, Add	27.15	
		For Seal Class A, Add	57.91	
		For Work In Restricted Working Space, Add	54.29	
23 31 13 13-0393	LF	22" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	220.74	112.46
		For Seal Class B, Add	28.12	
		For Seal Class A, Add	59.98	
		For Work In Restricted Working Space, Add	56.23	
23 31 13 13-0394	LF	22" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	228.37	116.35
		For Seal Class B, Add	29.09	
		For Seal Class A, Add	62.05	
		For Work In Restricted Working Space, Add	58.18	
23 31 13 13-0395	LF	22" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	235.97	120.22
		For Seal Class B, Add	30.06	
		For Seal Class A, Add	64.12	
		For Work In Restricted Working Space, Add	60.11	
23 31 13 13-0396	LF	22" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	243.58	124.10
		For Seal Class B, Add	31.02	
		For Seal Class A, Add	66.19	
		For Work In Restricted Working Space, Add	62.05	
23 31 13 13-0397	LF	22" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.20	127.99
		For Seal Class B, Add	32.00	
		For Seal Class A, Add	68.26	
		For Work In Restricted Working Space, Add	63.99	
23 31 13 13-0398	LF	22" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	258.80	131.86
		For Seal Class B, Add	32.96	
		For Seal Class A, Add	70.32	
		For Work In Restricted Working Space, Add	65.93	
23 31 13 13-0399	LF	22" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	266.41	135.73
		For Seal Class B, Add	33.93	
		For Seal Class A, Add	72.39	
		For Work In Restricted Working Space, Add	67.87	
23 31 13 13-0400	LF	24" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	182.69	93.08
		For Seal Class B, Add	23.27	
		For Seal Class A, Add	49.64	
		For Work In Restricted Working Space, Add	46.54	
23 31 13 13-0401	LF	24" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	190.30	96.95
		For Seal Class B, Add	24.24	
		For Seal Class A, Add	51.71	
		For Work In Restricted Working Space, Add	48.48	
23 31 13 13-0402	LF	24" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.92	100.84
		For Seal Class B, Add	25.21	
		For Seal Class A, Add	53.78	
		For Work In Restricted Working Space, Add	50.42	
23 31 13 13-0403	LF	24" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	205.53	104.72
		For Seal Class B, Add	26.18	
		For Seal Class A, Add	55.85	
		For Work In Restricted Working Space, Add	52.36	
23 31 13 13-0404	LF	24" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	213.12	108.58
		For Seal Class B, Add	27.15	
		For Seal Class A, Add	57.91	
		For Work In Restricted Working Space, Add	54.29	
23 31 13 13-0405	LF	24" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	220.74	112.46
		For Seal Class B, Add	28.12	
		For Seal Class A, Add	59.98	
		For Work In Restricted Working Space, Add	56.23	
23 31 13 13-0406	LF	24" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	228.37	116.35
		For Seal Class B, Add	29.09	
		For Seal Class A, Add	62.05	
		For Work In Restricted Working Space, Add	58.18	
23 31 13 13-0407	LF	24" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	235.97	120.22
		For Seal Class B, Add	30.06	
		For Seal Class A, Add	64.12	
		For Work In Restricted Working Space, Add	60.11	
23 31 13 13-0408	LF	24" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	243.58	124.10
		For Seal Class B, Add	31.02	
		For Seal Class A, Add	66.19	
		For Work In Restricted Working Space, Add	62.05	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0409	LF 24" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.20	127.99
		For Seal Class B, Add	32.00	
		For Seal Class A, Add	68.26	
		For Work In Restricted Working Space, Add	63.99	
23 31 13	13-0410	LF 24" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	258.80	131.86
		For Seal Class B, Add	32.96	
		For Seal Class A, Add	70.32	
		For Work In Restricted Working Space, Add	65.93	
23 31 13	13-0411	LF 24" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	266.41	135.73
		For Seal Class B, Add	33.93	
		For Seal Class A, Add	72.39	
		For Work In Restricted Working Space, Add	67.87	
23 31 13	13-0412	LF 24" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	274.02	139.61
		For Seal Class B, Add	34.90	
		For Seal Class A, Add	74.46	
		For Work In Restricted Working Space, Add	69.80	
23 31 13	13-0413	LF 26" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.92	100.84
		For Seal Class B, Add	25.21	
		For Seal Class A, Add	53.78	
		For Work In Restricted Working Space, Add	50.42	
23 31 13	13-0414	LF 26" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	205.53	104.72
		For Seal Class B, Add	26.18	
		For Seal Class A, Add	55.85	
		For Work In Restricted Working Space, Add	52.36	
23 31 13	13-0415	LF 26" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	213.12	108.58
		For Seal Class B, Add	27.15	
		For Seal Class A, Add	57.91	
		For Work In Restricted Working Space, Add	54.29	
23 31 13	13-0416	LF 26" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	220.74	112.46
		For Seal Class B, Add	28.12	
		For Seal Class A, Add	59.98	
		For Work In Restricted Working Space, Add	56.23	
23 31 13	13-0417	LF 26" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	228.37	116.35
		For Seal Class B, Add	29.09	
		For Seal Class A, Add	62.05	
		For Work In Restricted Working Space, Add	58.18	
23 31 13	13-0418	LF 26" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	235.97	120.22
		For Seal Class B, Add	30.06	
		For Seal Class A, Add	64.12	
		For Work In Restricted Working Space, Add	60.11	
23 31 13	13-0419	LF 26" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	243.58	124.10
		For Seal Class B, Add	31.02	
		For Seal Class A, Add	66.19	
		For Work In Restricted Working Space, Add	62.05	
23 31 13	13-0420	LF 26" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.20	127.99
		For Seal Class B, Add	32.00	
		For Seal Class A, Add	68.26	
		For Work In Restricted Working Space, Add	63.99	
23 31 13	13-0421	LF 26" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	258.80	131.86
		For Seal Class B, Add	32.96	
		For Seal Class A, Add	70.32	
		For Work In Restricted Working Space, Add	65.93	
23 31 13	13-0422	LF 26" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	266.41	135.73
		For Seal Class B, Add	33.93	
		For Seal Class A, Add	72.39	
		For Work In Restricted Working Space, Add	67.87	
23 31 13	13-0423	LF 26" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	274.02	139.61
		For Seal Class B, Add	34.90	
		For Seal Class A, Add	74.46	
		For Work In Restricted Working Space, Add	69.80	
23 31 13	13-0424	LF 26" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	281.65	143.50
		For Seal Class B, Add	35.87	
		For Seal Class A, Add	76.53	
		For Work In Restricted Working Space, Add	71.75	
23 31 13	13-0425	LF 28" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	213.12	108.58
		For Seal Class B, Add	27.15	
		For Seal Class A, Add	57.91	
		For Work In Restricted Working Space, Add	54.29	
23 31 13	13-0426	LF 28" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	220.74	112.46
		For Seal Class B, Add	28.12	
		For Seal Class A, Add	59.98	
		For Work In Restricted Working Space, Add	56.23	
23 31 13	13-0427	LF 28" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	228.37	116.35
		For Seal Class B, Add	29.09	
		For Seal Class A, Add	62.05	
		For Work In Restricted Working Space, Add	58.18	
23 31 13	13-0428	LF 28" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	235.97	120.22
		For Seal Class B, Add	30.06	
		For Seal Class A, Add	64.12	
		For Work In Restricted Working Space, Add	60.11	
23 31 13	13-0429	LF 28" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	243.58	124.10
		For Seal Class B, Add	31.02	
		For Seal Class A, Add	66.19	
		For Work In Restricted Working Space, Add	62.05	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0430	LF	28" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.20	127.99	
		For Seal Class B, Add	32.00		
		For Seal Class A, Add	68.26		
		For Work In Restricted Working Space, Add	63.99		
23 31 13 13-0431	LF	28" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	258.80	131.86	
		For Seal Class B, Add	32.96		
		For Seal Class A, Add	70.32		
		For Work In Restricted Working Space, Add	65.93		
23 31 13 13-0432	LF	28" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	266.41	135.73	
		For Seal Class B, Add	33.93		
		For Seal Class A, Add	72.39		
		For Work In Restricted Working Space, Add	67.87		
23 31 13 13-0433	LF	28" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	274.02	139.61	
		For Seal Class B, Add	34.90		
		For Seal Class A, Add	74.46		
		For Work In Restricted Working Space, Add	69.80		
23 31 13 13-0434	LF	28" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	281.65	143.50	
		For Seal Class B, Add	35.87		
		For Seal Class A, Add	76.53		
		For Work In Restricted Working Space, Add	71.75		
23 31 13 13-0435	LF	28" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	289.26	147.37	
		For Seal Class B, Add	36.84		
		For Seal Class A, Add	78.60		
		For Work In Restricted Working Space, Add	73.69		
23 31 13 13-0436	LF	30" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	228.37	116.35	
		For Seal Class B, Add	29.09		
		For Seal Class A, Add	62.05		
		For Work In Restricted Working Space, Add	58.18		
23 31 13 13-0437	LF	30" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	235.97	120.22	
		For Seal Class B, Add	30.06		
		For Seal Class A, Add	64.12		
		For Work In Restricted Working Space, Add	60.11		
23 31 13 13-0438	LF	30" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	243.58	124.10	
		For Seal Class B, Add	31.02		
		For Seal Class A, Add	66.19		
		For Work In Restricted Working Space, Add	62.05		
23 31 13 13-0439	LF	30" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.20	127.99	
		For Seal Class B, Add	32.00		
		For Seal Class A, Add	68.26		
		For Work In Restricted Working Space, Add	63.99		
23 31 13 13-0440	LF	30" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	258.80	131.86	
		For Seal Class B, Add	32.96		
		For Seal Class A, Add	70.32		
		For Work In Restricted Working Space, Add	65.93		
23 31 13 13-0441	LF	30" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	266.41	135.73	
		For Seal Class B, Add	33.93		
		For Seal Class A, Add	72.39		
		For Work In Restricted Working Space, Add	67.87		
23 31 13 13-0442	LF	30" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	274.02	139.61	
		For Seal Class B, Add	34.90		
		For Seal Class A, Add	74.46		
		For Work In Restricted Working Space, Add	69.80		
23 31 13 13-0443	LF	30" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	281.65	143.50	
		For Seal Class B, Add	35.87		
		For Seal Class A, Add	76.53		
		For Work In Restricted Working Space, Add	71.75		
23 31 13 13-0444	LF	30" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	289.26	147.37	
		For Seal Class B, Add	36.84		
		For Seal Class A, Add	78.60		
		For Work In Restricted Working Space, Add	73.69		
23 31 13 13-0445	LF	30" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	296.87	151.25	
		For Seal Class B, Add	37.81		
		For Seal Class A, Add	80.67		
		For Work In Restricted Working Space, Add	75.62		
23 31 13 13-0446	LF	32" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	243.58	124.10	
		For Seal Class B, Add	31.02		
		For Seal Class A, Add	66.19		
		For Work In Restricted Working Space, Add	62.05		
23 31 13 13-0447	LF	32" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.20	127.99	
		For Seal Class B, Add	32.00		
		For Seal Class A, Add	68.26		
		For Work In Restricted Working Space, Add	63.99		
23 31 13 13-0448	LF	32" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	258.80	131.86	
		For Seal Class B, Add	32.96		
		For Seal Class A, Add	70.32		
		For Work In Restricted Working Space, Add	65.93		
23 31 13 13-0449	LF	32" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	266.41	135.73	
		For Seal Class B, Add	33.93		
		For Seal Class A, Add	72.39		
		For Work In Restricted Working Space, Add	67.87		
23 31 13 13-0450	LF	32" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	274.02	139.61	
		For Seal Class B, Add	34.90		
		For Seal Class A, Add	74.46		
		For Work In Restricted Working Space, Add	69.80		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0451	LF 32" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	281.65	143.50
		For Seal Class B, Add	35.87	
		For Seal Class A, Add	76.53	
		For Work In Restricted Working Space, Add	71.75	
23 31 13	13-0452	LF 32" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	289.26	147.37
		For Seal Class B, Add	36.84	
		For Seal Class A, Add	78.60	
		For Work In Restricted Working Space, Add	73.69	
23 31 13	13-0453	LF 32" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	296.87	151.25
		For Seal Class B, Add	37.81	
		For Seal Class A, Add	80.67	
		For Work In Restricted Working Space, Add	75.62	
23 31 13	13-0454	LF 32" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.47	155.13
		For Seal Class B, Add	38.78	
		For Seal Class A, Add	82.73	
		For Work In Restricted Working Space, Add	77.56	
23 31 13	13-0455	LF 34" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	258.80	131.86
		For Seal Class B, Add	32.96	
		For Seal Class A, Add	70.32	
		For Work In Restricted Working Space, Add	65.93	
23 31 13	13-0456	LF 34" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	266.41	135.73
		For Seal Class B, Add	33.93	
		For Seal Class A, Add	72.39	
		For Work In Restricted Working Space, Add	67.87	
23 31 13	13-0457	LF 34" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	274.02	139.61
		For Seal Class B, Add	34.90	
		For Seal Class A, Add	74.46	
		For Work In Restricted Working Space, Add	69.80	
23 31 13	13-0458	LF 34" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	281.65	143.50
		For Seal Class B, Add	35.87	
		For Seal Class A, Add	76.53	
		For Work In Restricted Working Space, Add	71.75	
23 31 13	13-0459	LF 34" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	289.26	147.37
		For Seal Class B, Add	36.84	
		For Seal Class A, Add	78.60	
		For Work In Restricted Working Space, Add	73.69	
23 31 13	13-0460	LF 34" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	296.87	151.25
		For Seal Class B, Add	37.81	
		For Seal Class A, Add	80.67	
		For Work In Restricted Working Space, Add	75.62	
23 31 13	13-0461	LF 34" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.47	155.13
		For Seal Class B, Add	38.78	
		For Seal Class A, Add	82.73	
		For Work In Restricted Working Space, Add	77.56	
23 31 13	13-0462	LF 34" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	312.09	159.00
		For Seal Class B, Add	39.75	
		For Seal Class A, Add	84.80	
		For Work In Restricted Working Space, Add	79.50	
23 31 13	13-0463	LF 36" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	274.02	139.61
		For Seal Class B, Add	34.90	
		For Seal Class A, Add	74.46	
		For Work In Restricted Working Space, Add	69.80	
23 31 13	13-0464	LF 36" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	281.65	143.50
		For Seal Class B, Add	35.87	
		For Seal Class A, Add	76.53	
		For Work In Restricted Working Space, Add	71.75	
23 31 13	13-0465	LF 36" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	289.26	147.37
		For Seal Class B, Add	36.84	
		For Seal Class A, Add	78.60	
		For Work In Restricted Working Space, Add	73.69	
23 31 13	13-0466	LF 36" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	296.87	151.25
		For Seal Class B, Add	37.81	
		For Seal Class A, Add	80.67	
		For Work In Restricted Working Space, Add	75.62	
23 31 13	13-0467	LF 36" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.47	155.13
		For Seal Class B, Add	38.78	
		For Seal Class A, Add	82.73	
		For Work In Restricted Working Space, Add	77.56	
23 31 13	13-0468	LF 36" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	312.09	159.00
		For Seal Class B, Add	39.75	
		For Seal Class A, Add	84.80	
		For Work In Restricted Working Space, Add	79.50	
23 31 13	13-0469	LF 36" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	319.69	162.88
		For Seal Class B, Add	40.72	
		For Seal Class A, Add	86.87	
		For Work In Restricted Working Space, Add	81.44	
23 31 13	13-0470	LF 38" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	289.26	147.37
		For Seal Class B, Add	36.84	
		For Seal Class A, Add	78.60	
		For Work In Restricted Working Space, Add	73.69	
23 31 13	13-0471	LF 38" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	296.87	151.25
		For Seal Class B, Add	37.81	
		For Seal Class A, Add	80.67	
		For Work In Restricted Working Space, Add	75.62	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0472	LF	38" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.47	155.13
			For Seal Class B, Add	38.78	
			For Seal Class A, Add	82.73	
			For Work In Restricted Working Space, Add	77.56	
23 31 13	13-0473	LF	38" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	312.09	159.00
			For Seal Class B, Add	39.75	
			For Seal Class A, Add	84.80	
			For Work In Restricted Working Space, Add	79.50	
23 31 13	13-0474	LF	38" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	319.69	162.88
			For Seal Class B, Add	40.72	
			For Seal Class A, Add	86.87	
			For Work In Restricted Working Space, Add	81.44	
23 31 13	13-0475	LF	38" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	327.32	166.76
			For Seal Class B, Add	41.69	
			For Seal Class A, Add	88.94	
			For Work In Restricted Working Space, Add	83.38	
23 31 13	13-0476	LF	38" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	334.93	170.64
			For Seal Class B, Add	42.66	
			For Seal Class A, Add	91.01	
			For Work In Restricted Working Space, Add	85.32	
23 31 13	13-0477	LF	40" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.47	155.13
			For Seal Class B, Add	38.78	
			For Seal Class A, Add	82.73	
			For Work In Restricted Working Space, Add	77.56	
23 31 13	13-0478	LF	40" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	312.09	159.00
			For Seal Class B, Add	39.75	
			For Seal Class A, Add	84.80	
			For Work In Restricted Working Space, Add	79.50	
23 31 13	13-0479	LF	40" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	319.69	162.88
			For Seal Class B, Add	40.72	
			For Seal Class A, Add	86.87	
			For Work In Restricted Working Space, Add	81.44	
23 31 13	13-0480	LF	40" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	327.32	166.76
			For Seal Class B, Add	41.69	
			For Seal Class A, Add	88.94	
			For Work In Restricted Working Space, Add	83.38	
23 31 13	13-0481	LF	40" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	334.93	170.64
			For Seal Class B, Add	42.66	
			For Seal Class A, Add	91.01	
			For Work In Restricted Working Space, Add	85.32	
23 31 13	13-0482	LF	40" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	342.55	174.52
			For Seal Class B, Add	43.63	
			For Seal Class A, Add	93.08	
			For Work In Restricted Working Space, Add	87.26	
23 31 13	13-0483	LF	40" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.14	178.39
			For Seal Class B, Add	44.60	
			For Seal Class A, Add	95.14	
			For Work In Restricted Working Space, Add	89.20	
23 31 13	13-0484	LF	40" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	357.76	182.27
			For Seal Class B, Add	45.57	
			For Seal Class A, Add	97.21	
			For Work In Restricted Working Space, Add	91.14	
23 31 13	13-0485	LF	42" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	319.69	162.88
			For Seal Class B, Add	40.72	
			For Seal Class A, Add	86.87	
			For Work In Restricted Working Space, Add	81.44	
23 31 13	13-0486	LF	42" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	327.32	166.76
			For Seal Class B, Add	41.69	
			For Seal Class A, Add	88.94	
			For Work In Restricted Working Space, Add	83.38	
23 31 13	13-0487	LF	42" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	334.93	170.64
			For Seal Class B, Add	42.66	
			For Seal Class A, Add	91.01	
			For Work In Restricted Working Space, Add	85.32	
23 31 13	13-0488	LF	42" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	342.55	174.52
			For Seal Class B, Add	43.63	
			For Seal Class A, Add	93.08	
			For Work In Restricted Working Space, Add	87.26	
23 31 13	13-0489	LF	42" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.14	178.39
			For Seal Class B, Add	44.60	
			For Seal Class A, Add	95.14	
			For Work In Restricted Working Space, Add	89.20	
23 31 13	13-0490	LF	42" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	357.76	182.27
			For Seal Class B, Add	45.57	
			For Seal Class A, Add	97.21	
			For Work In Restricted Working Space, Add	91.14	
23 31 13	13-0491	LF	42" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	365.37	186.15
			For Seal Class B, Add	46.54	
			For Seal Class A, Add	99.28	
			For Work In Restricted Working Space, Add	93.08	
23 31 13	13-0492	LF	44" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	334.93	170.64
			For Seal Class B, Add	42.66	
			For Seal Class A, Add	91.01	
			For Work In Restricted Working Space, Add	85.32	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0493	LF 44" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	342.55	174.52
		For Seal Class B, Add	43.63	
		For Seal Class A, Add	93.08	
		For Work In Restricted Working Space, Add	87.26	
23 31 13	13-0494	LF 44" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.14	178.39
		For Seal Class B, Add	44.60	
		For Seal Class A, Add	95.14	
		For Work In Restricted Working Space, Add	89.20	
23 31 13	13-0495	LF 44" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	357.76	182.27
		For Seal Class B, Add	45.57	
		For Seal Class A, Add	97.21	
		For Work In Restricted Working Space, Add	91.14	
23 31 13	13-0496	LF 44" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	365.37	186.15
		For Seal Class B, Add	46.54	
		For Seal Class A, Add	99.28	
		For Work In Restricted Working Space, Add	93.08	
23 31 13	13-0497	LF 44" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	372.98	190.03
		For Seal Class B, Add	47.51	
		For Seal Class A, Add	101.35	
		For Work In Restricted Working Space, Add	95.01	
23 31 13	13-0498	LF 46" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.14	178.39
		For Seal Class B, Add	44.60	
		For Seal Class A, Add	95.14	
		For Work In Restricted Working Space, Add	89.20	
23 31 13	13-0499	LF 46" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	357.76	182.27
		For Seal Class B, Add	45.57	
		For Seal Class A, Add	97.21	
		For Work In Restricted Working Space, Add	91.14	
23 31 13	13-0500	LF 46" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	365.37	186.15
		For Seal Class B, Add	46.54	
		For Seal Class A, Add	99.28	
		For Work In Restricted Working Space, Add	93.08	
23 31 13	13-0501	LF 46" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	372.98	190.03
		For Seal Class B, Add	47.51	
		For Seal Class A, Add	101.35	
		For Work In Restricted Working Space, Add	95.01	
23 31 13	13-0502	LF 46" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	380.60	193.92
		For Seal Class B, Add	48.48	
		For Seal Class A, Add	103.42	
		For Work In Restricted Working Space, Add	96.95	
23 31 13	13-0503	LF 48" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	365.37	186.15
		For Seal Class B, Add	46.54	
		For Seal Class A, Add	99.28	
		For Work In Restricted Working Space, Add	93.08	
23 31 13	13-0504	LF 48" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	372.98	190.03
		For Seal Class B, Add	47.51	
		For Seal Class A, Add	101.35	
		For Work In Restricted Working Space, Add	95.01	
23 31 13	13-0505	LF 48" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	380.60	193.92
		For Seal Class B, Add	48.48	
		For Seal Class A, Add	103.42	
		For Work In Restricted Working Space, Add	96.95	
23 31 13	13-0506	LF 48" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	388.22	197.79
		For Seal Class B, Add	49.45	
		For Seal Class A, Add	105.49	
		For Work In Restricted Working Space, Add	98.90	
23 31 13	13-0507	LF 50" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	380.60	193.92
		For Seal Class B, Add	48.48	
		For Seal Class A, Add	103.42	
		For Work In Restricted Working Space, Add	96.95	
23 31 13	13-0508	LF 50" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	388.22	197.79
		For Seal Class B, Add	49.45	
		For Seal Class A, Add	105.49	
		For Work In Restricted Working Space, Add	98.90	
23 31 13	13-0509	LF 50" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	395.82	201.66
		For Seal Class B, Add	50.42	
		For Seal Class A, Add	107.56	
		For Work In Restricted Working Space, Add	100.83	
23 31 13	13-0510	LF 52" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	395.82	201.66
		For Seal Class B, Add	50.42	
		For Seal Class A, Add	107.56	
		For Work In Restricted Working Space, Add	100.83	
23 31 13	13-0511	LF 52" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	403.43	205.54
		For Seal Class B, Add	51.39	
		For Seal Class A, Add	109.62	
		For Work In Restricted Working Space, Add	102.77	
23 31 13	13-0512	LF 54" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	411.04	209.42
		For Seal Class B, Add	52.35	
		For Seal Class A, Add	111.69	
		For Work In Restricted Working Space, Add	104.71	

23 31 13 13-0513 20 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)
Note: Seal Class C



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0514	LF	4" x 4", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	35.85	18.27
			For Seal Class B, Add	4.57	
			For Seal Class A, Add	9.74	
			For Work In Restricted Working Space, Add	9.14	
23 31 13	13-0515	LF	4" x 6", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	44.83	22.84
			For Seal Class B, Add	5.71	
			For Seal Class A, Add	12.18	
			For Work In Restricted Working Space, Add	11.42	
23 31 13	13-0516	LF	4" x 8", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	53.79	27.41
			For Seal Class B, Add	6.85	
			For Seal Class A, Add	14.61	
			For Work In Restricted Working Space, Add	13.70	
23 31 13	13-0517	LF	4" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	62.75	31.97
			For Seal Class B, Add	7.99	
			For Seal Class A, Add	17.05	
			For Work In Restricted Working Space, Add	15.99	
23 31 13	13-0518	LF	4" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	71.73	36.55
			For Seal Class B, Add	9.14	
			For Seal Class A, Add	19.49	
			For Work In Restricted Working Space, Add	18.27	
23 31 13	13-0519	LF	4" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	80.69	41.10
			For Seal Class B, Add	10.28	
			For Seal Class A, Add	21.92	
			For Work In Restricted Working Space, Add	20.55	
23 31 13	13-0520	LF	4" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	89.66	45.67
			For Seal Class B, Add	11.42	
			For Seal Class A, Add	24.36	
			For Work In Restricted Working Space, Add	22.84	
23 31 13	13-0521	LF	6" x 6", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	53.79	27.41
			For Seal Class B, Add	6.85	
			For Seal Class A, Add	14.61	
			For Work In Restricted Working Space, Add	13.70	
23 31 13	13-0522	LF	6" x 8", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	62.75	31.97
			For Seal Class B, Add	7.99	
			For Seal Class A, Add	17.05	
			For Work In Restricted Working Space, Add	15.99	
23 31 13	13-0523	LF	6" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	71.73	36.55
			For Seal Class B, Add	9.14	
			For Seal Class A, Add	19.49	
			For Work In Restricted Working Space, Add	18.27	
23 31 13	13-0524	LF	6" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	80.69	41.10
			For Seal Class B, Add	10.28	
			For Seal Class A, Add	21.92	
			For Work In Restricted Working Space, Add	20.55	
23 31 13	13-0525	LF	6" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	89.66	45.67
			For Seal Class B, Add	11.42	
			For Seal Class A, Add	24.36	
			For Work In Restricted Working Space, Add	22.84	
23 31 13	13-0526	LF	6" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	98.62	50.24
			For Seal Class B, Add	12.56	
			For Seal Class A, Add	26.80	
			For Work In Restricted Working Space, Add	25.12	
23 31 13	13-0527	LF	8" x 8", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	71.73	36.55
			For Seal Class B, Add	9.14	
			For Seal Class A, Add	19.49	
			For Work In Restricted Working Space, Add	18.27	
23 31 13	13-0528	LF	8" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	80.69	41.10
			For Seal Class B, Add	10.28	
			For Seal Class A, Add	21.92	
			For Work In Restricted Working Space, Add	20.55	
23 31 13	13-0529	LF	8" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	89.66	45.67
			For Seal Class B, Add	11.42	
			For Seal Class A, Add	24.36	
			For Work In Restricted Working Space, Add	22.84	
23 31 13	13-0530	LF	8" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	98.62	50.24
			For Seal Class B, Add	12.56	
			For Seal Class A, Add	26.80	
			For Work In Restricted Working Space, Add	25.12	
23 31 13	13-0531	LF	8" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	107.58	54.81
			For Seal Class B, Add	13.70	
			For Seal Class A, Add	29.24	
			For Work In Restricted Working Space, Add	27.41	
23 31 13	13-0532	LF	8" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	116.54	59.37
			For Seal Class B, Add	14.84	
			For Seal Class A, Add	31.67	
			For Work In Restricted Working Space, Add	29.69	
23 31 13	13-0533	LF	8" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	125.52	63.95
			For Seal Class B, Add	15.99	
			For Seal Class A, Add	34.11	
			For Work In Restricted Working Space, Add	31.97	
23 31 13	13-0534	LF	8" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	134.47	68.51
			For Seal Class B, Add	17.13	
			For Seal Class A, Add	36.54	
			For Work In Restricted Working Space, Add	34.26	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0535	LF 8" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	143.44	73.08
		For Seal Class B, Add	18.27	
		For Seal Class A, Add	38.98	
		For Work In Restricted Working Space, Add	36.54	
23 31 13	13-0536	LF 10" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	89.66	45.67
		For Seal Class B, Add	11.42	
		For Seal Class A, Add	24.36	
		For Work In Restricted Working Space, Add	22.84	
23 31 13	13-0537	LF 10" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	98.62	50.24
		For Seal Class B, Add	12.56	
		For Seal Class A, Add	26.80	
		For Work In Restricted Working Space, Add	25.12	
23 31 13	13-0538	LF 10" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	107.58	54.81
		For Seal Class B, Add	13.70	
		For Seal Class A, Add	29.24	
		For Work In Restricted Working Space, Add	27.41	
23 31 13	13-0539	LF 10" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	116.54	59.37
		For Seal Class B, Add	14.84	
		For Seal Class A, Add	31.67	
		For Work In Restricted Working Space, Add	29.69	
23 31 13	13-0540	LF 10" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	125.52	63.95
		For Seal Class B, Add	15.99	
		For Seal Class A, Add	34.11	
		For Work In Restricted Working Space, Add	31.97	
23 31 13	13-0541	LF 10" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	134.47	68.51
		For Seal Class B, Add	17.13	
		For Seal Class A, Add	36.54	
		For Work In Restricted Working Space, Add	34.26	
23 31 13	13-0542	LF 10" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	143.44	73.08
		For Seal Class B, Add	18.27	
		For Seal Class A, Add	38.98	
		For Work In Restricted Working Space, Add	36.54	
23 31 13	13-0543	LF 10" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	152.44	77.65
		For Seal Class B, Add	19.41	
		For Seal Class A, Add	41.42	
		For Work In Restricted Working Space, Add	38.83	
23 31 13	13-0544	LF 10" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	161.37	82.22
		For Seal Class B, Add	20.55	
		For Seal Class A, Add	43.85	
		For Work In Restricted Working Space, Add	41.11	
23 31 13	13-0545	LF 10" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	170.36	86.78
		For Seal Class B, Add	21.70	
		For Seal Class A, Add	46.29	
		For Work In Restricted Working Space, Add	43.40	
23 31 13	13-0546	LF 10" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	179.29	91.36
		For Seal Class B, Add	22.84	
		For Seal Class A, Add	48.72	
		For Work In Restricted Working Space, Add	45.68	
23 31 13	13-0547	LF 10" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	188.27	95.92
		For Seal Class B, Add	23.98	
		For Seal Class A, Add	51.16	
		For Work In Restricted Working Space, Add	47.96	
23 31 13	13-0548	LF 12" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	107.58	54.81
		For Seal Class B, Add	13.70	
		For Seal Class A, Add	29.24	
		For Work In Restricted Working Space, Add	27.41	
23 31 13	13-0549	LF 12" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	116.54	59.37
		For Seal Class B, Add	14.84	
		For Seal Class A, Add	31.67	
		For Work In Restricted Working Space, Add	29.69	
23 31 13	13-0550	LF 12" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	125.52	63.95
		For Seal Class B, Add	15.99	
		For Seal Class A, Add	34.11	
		For Work In Restricted Working Space, Add	31.97	
23 31 13	13-0551	LF 12" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	134.47	68.51
		For Seal Class B, Add	17.13	
		For Seal Class A, Add	36.54	
		For Work In Restricted Working Space, Add	34.26	
23 31 13	13-0552	LF 12" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	143.44	73.08
		For Seal Class B, Add	18.27	
		For Seal Class A, Add	38.98	
		For Work In Restricted Working Space, Add	36.54	
23 31 13	13-0553	LF 12" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	152.44	77.65
		For Seal Class B, Add	19.41	
		For Seal Class A, Add	41.42	
		For Work In Restricted Working Space, Add	38.83	
23 31 13	13-0554	LF 12" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	161.37	82.22
		For Seal Class B, Add	20.55	
		For Seal Class A, Add	43.85	
		For Work In Restricted Working Space, Add	41.11	
23 31 13	13-0555	LF 12" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	170.36	86.78
		For Seal Class B, Add	21.70	
		For Seal Class A, Add	46.29	
		For Work In Restricted Working Space, Add	43.40	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0556	LF	12" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	179.29	91.36
			For Seal Class B, Add	22.84	
			For Seal Class A, Add	48.72	
			For Work In Restricted Working Space, Add	45.68	
23 31 13	13-0557	LF	12" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	188.27	95.92
			For Seal Class B, Add	23.98	
			For Seal Class A, Add	51.16	
			For Work In Restricted Working Space, Add	47.96	
23 31 13	13-0558	LF	12" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.24	100.49
			For Seal Class B, Add	25.12	
			For Seal Class A, Add	53.59	
			For Work In Restricted Working Space, Add	50.24	
23 31 13	13-0559	LF	12" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	206.19	105.06
			For Seal Class B, Add	26.26	
			For Seal Class A, Add	56.03	
			For Work In Restricted Working Space, Add	52.53	
23 31 13	13-0560	LF	12" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	215.19	109.63
			For Seal Class B, Add	27.41	
			For Seal Class A, Add	58.47	
			For Work In Restricted Working Space, Add	54.82	
23 31 13	13-0561	LF	14" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	125.52	63.95
			For Seal Class B, Add	15.99	
			For Seal Class A, Add	34.11	
			For Work In Restricted Working Space, Add	31.97	
23 31 13	13-0562	LF	14" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	134.47	68.51
			For Seal Class B, Add	17.13	
			For Seal Class A, Add	36.54	
			For Work In Restricted Working Space, Add	34.26	
23 31 13	13-0563	LF	14" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	143.44	73.08
			For Seal Class B, Add	18.27	
			For Seal Class A, Add	38.98	
			For Work In Restricted Working Space, Add	36.54	
23 31 13	13-0564	LF	14" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	152.44	77.65
			For Seal Class B, Add	19.41	
			For Seal Class A, Add	41.42	
			For Work In Restricted Working Space, Add	38.83	
23 31 13	13-0565	LF	14" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	161.37	82.22
			For Seal Class B, Add	20.55	
			For Seal Class A, Add	43.85	
			For Work In Restricted Working Space, Add	41.11	
23 31 13	13-0566	LF	14" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	170.36	86.78
			For Seal Class B, Add	21.70	
			For Seal Class A, Add	46.29	
			For Work In Restricted Working Space, Add	43.40	
23 31 13	13-0567	LF	14" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	179.29	91.36
			For Seal Class B, Add	22.84	
			For Seal Class A, Add	48.72	
			For Work In Restricted Working Space, Add	45.68	
23 31 13	13-0568	LF	14" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	188.27	95.92
			For Seal Class B, Add	23.98	
			For Seal Class A, Add	51.16	
			For Work In Restricted Working Space, Add	47.96	
23 31 13	13-0569	LF	14" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.24	100.49
			For Seal Class B, Add	25.12	
			For Seal Class A, Add	53.59	
			For Work In Restricted Working Space, Add	50.24	
23 31 13	13-0570	LF	14" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	206.19	105.06
			For Seal Class B, Add	26.26	
			For Seal Class A, Add	56.03	
			For Work In Restricted Working Space, Add	52.53	
23 31 13	13-0571	LF	14" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	215.19	109.63
			For Seal Class B, Add	27.41	
			For Seal Class A, Add	58.47	
			For Work In Restricted Working Space, Add	54.82	
23 31 13	13-0572	LF	14" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	224.12	114.19
			For Seal Class B, Add	28.55	
			For Seal Class A, Add	60.90	
			For Work In Restricted Working Space, Add	57.10	
23 31 13	13-0573	LF	16" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	143.44	73.08
			For Seal Class B, Add	18.27	
			For Seal Class A, Add	38.98	
			For Work In Restricted Working Space, Add	36.54	
23 31 13	13-0574	LF	16" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	152.44	77.65
			For Seal Class B, Add	19.41	
			For Seal Class A, Add	41.42	
			For Work In Restricted Working Space, Add	38.83	
23 31 13	13-0575	LF	16" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	161.37	82.22
			For Seal Class B, Add	20.55	
			For Seal Class A, Add	43.85	
			For Work In Restricted Working Space, Add	41.11	
23 31 13	13-0576	LF	16" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	170.36	86.78
			For Seal Class B, Add	21.70	
			For Seal Class A, Add	46.29	
			For Work In Restricted Working Space, Add	43.40	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0577	LF	16" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	179.29	91.36
			For Seal Class B, Add	22.84	
			For Seal Class A, Add	48.72	
			For Work In Restricted Working Space, Add	45.68	
23 31 13	13-0578	LF	16" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	188.27	95.92
			For Seal Class B, Add	23.98	
			For Seal Class A, Add	51.16	
			For Work In Restricted Working Space, Add	47.96	
23 31 13	13-0579	LF	16" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.24	100.49
			For Seal Class B, Add	25.12	
			For Seal Class A, Add	53.59	
			For Work In Restricted Working Space, Add	50.24	
23 31 13	13-0580	LF	16" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	206.19	105.06
			For Seal Class B, Add	26.26	
			For Seal Class A, Add	56.03	
			For Work In Restricted Working Space, Add	52.53	
23 31 13	13-0581	LF	16" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	215.19	109.63
			For Seal Class B, Add	27.41	
			For Seal Class A, Add	58.47	
			For Work In Restricted Working Space, Add	54.82	
23 31 13	13-0582	LF	16" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	224.12	114.19
			For Seal Class B, Add	28.55	
			For Seal Class A, Add	60.90	
			For Work In Restricted Working Space, Add	57.10	
23 31 13	13-0583	LF	16" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.10	118.77
			For Seal Class B, Add	29.69	
			For Seal Class A, Add	63.34	
			For Work In Restricted Working Space, Add	59.38	
23 31 13	13-0584	LF	16" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	242.07	123.32
			For Seal Class B, Add	30.83	
			For Seal Class A, Add	65.77	
			For Work In Restricted Working Space, Add	61.66	
23 31 13	13-0585	LF	16" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.02	127.89
			For Seal Class B, Add	31.97	
			For Seal Class A, Add	68.21	
			For Work In Restricted Working Space, Add	63.95	
23 31 13	13-0586	LF	16" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	259.99	132.46
			For Seal Class B, Add	33.11	
			For Seal Class A, Add	70.64	
			For Work In Restricted Working Space, Add	66.23	
23 31 13	13-0587	LF	16" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.98	137.03
			For Seal Class B, Add	34.26	
			For Seal Class A, Add	73.08	
			For Work In Restricted Working Space, Add	68.52	
23 31 13	13-0588	LF	18" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	161.37	82.22
			For Seal Class B, Add	20.55	
			For Seal Class A, Add	43.85	
			For Work In Restricted Working Space, Add	41.11	
23 31 13	13-0589	LF	18" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	170.36	86.78
			For Seal Class B, Add	21.70	
			For Seal Class A, Add	46.29	
			For Work In Restricted Working Space, Add	43.40	
23 31 13	13-0590	LF	18" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	179.29	91.36
			For Seal Class B, Add	22.84	
			For Seal Class A, Add	48.72	
			For Work In Restricted Working Space, Add	45.68	
23 31 13	13-0591	LF	18" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	188.27	95.92
			For Seal Class B, Add	23.98	
			For Seal Class A, Add	51.16	
			For Work In Restricted Working Space, Add	47.96	
23 31 13	13-0592	LF	18" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.24	100.49
			For Seal Class B, Add	25.12	
			For Seal Class A, Add	53.59	
			For Work In Restricted Working Space, Add	50.24	
23 31 13	13-0593	LF	18" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	206.19	105.06
			For Seal Class B, Add	26.26	
			For Seal Class A, Add	56.03	
			For Work In Restricted Working Space, Add	52.53	
23 31 13	13-0594	LF	18" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	215.19	109.63
			For Seal Class B, Add	27.41	
			For Seal Class A, Add	58.47	
			For Work In Restricted Working Space, Add	54.82	
23 31 13	13-0595	LF	18" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	224.12	114.19
			For Seal Class B, Add	28.55	
			For Seal Class A, Add	60.90	
			For Work In Restricted Working Space, Add	57.10	
23 31 13	13-0596	LF	18" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.10	118.77
			For Seal Class B, Add	29.69	
			For Seal Class A, Add	63.34	
			For Work In Restricted Working Space, Add	59.38	
23 31 13	13-0597	LF	18" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	242.07	123.32
			For Seal Class B, Add	30.83	
			For Seal Class A, Add	65.77	
			For Work In Restricted Working Space, Add	61.66	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Ducts and Casings			23 31

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0598	LF	18" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.02	127.89
			For Seal Class B, Add	31.97	
			For Seal Class A, Add	68.21	
			For Work In Restricted Working Space, Add	63.95	
23 31 13	13-0599	LF	18" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	259.99	132.46
			For Seal Class B, Add	33.11	
			For Seal Class A, Add	70.64	
			For Work In Restricted Working Space, Add	66.23	
23 31 13	13-0600	LF	18" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.98	137.03
			For Seal Class B, Add	34.26	
			For Seal Class A, Add	73.08	
			For Work In Restricted Working Space, Add	68.52	
23 31 13	13-0601	LF	18" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	277.92	141.59
			For Seal Class B, Add	35.40	
			For Seal Class A, Add	75.52	
			For Work In Restricted Working Space, Add	70.80	
23 31 13	13-0602	LF	18" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	286.90	146.17
			For Seal Class B, Add	36.54	
			For Seal Class A, Add	77.96	
			For Work In Restricted Working Space, Add	73.08	
23 31 13	13-0603	LF	20" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	179.29	91.36
			For Seal Class B, Add	22.84	
			For Seal Class A, Add	48.72	
			For Work In Restricted Working Space, Add	45.68	
23 31 13	13-0604	LF	20" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	188.27	95.92
			For Seal Class B, Add	23.98	
			For Seal Class A, Add	51.16	
			For Work In Restricted Working Space, Add	47.96	
23 31 13	13-0605	LF	20" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.24	100.49
			For Seal Class B, Add	25.12	
			For Seal Class A, Add	53.59	
			For Work In Restricted Working Space, Add	50.24	
23 31 13	13-0606	LF	20" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	206.19	105.06
			For Seal Class B, Add	26.26	
			For Seal Class A, Add	56.03	
			For Work In Restricted Working Space, Add	52.53	
23 31 13	13-0607	LF	20" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	215.19	109.63
			For Seal Class B, Add	27.41	
			For Seal Class A, Add	58.47	
			For Work In Restricted Working Space, Add	54.82	
23 31 13	13-0608	LF	20" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	224.12	114.19
			For Seal Class B, Add	28.55	
			For Seal Class A, Add	60.90	
			For Work In Restricted Working Space, Add	57.10	
23 31 13	13-0609	LF	20" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.10	118.77
			For Seal Class B, Add	29.69	
			For Seal Class A, Add	63.34	
			For Work In Restricted Working Space, Add	59.38	
23 31 13	13-0610	LF	20" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	242.07	123.32
			For Seal Class B, Add	30.83	
			For Seal Class A, Add	65.77	
			For Work In Restricted Working Space, Add	61.66	
23 31 13	13-0611	LF	20" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.02	127.89
			For Seal Class B, Add	31.97	
			For Seal Class A, Add	68.21	
			For Work In Restricted Working Space, Add	63.95	
23 31 13	13-0612	LF	20" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	259.99	132.46
			For Seal Class B, Add	33.11	
			For Seal Class A, Add	70.64	
			For Work In Restricted Working Space, Add	66.23	
23 31 13	13-0613	LF	20" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.98	137.03
			For Seal Class B, Add	34.26	
			For Seal Class A, Add	73.08	
			For Work In Restricted Working Space, Add	68.52	
23 31 13	13-0614	LF	20" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	277.92	141.59
			For Seal Class B, Add	35.40	
			For Seal Class A, Add	75.52	
			For Work In Restricted Working Space, Add	70.80	
23 31 13	13-0615	LF	20" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	286.90	146.17
			For Seal Class B, Add	36.54	
			For Seal Class A, Add	77.96	
			For Work In Restricted Working Space, Add	73.08	
23 31 13	13-0616	LF	20" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	295.85	150.73
			For Seal Class B, Add	37.68	
			For Seal Class A, Add	80.39	
			For Work In Restricted Working Space, Add	75.37	
23 31 13	13-0617	LF	20" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.82	155.31
			For Seal Class B, Add	38.82	
			For Seal Class A, Add	82.83	
			For Work In Restricted Working Space, Add	77.65	
23 31 13	13-0618	LF	22" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	197.24	100.49
			For Seal Class B, Add	25.12	
			For Seal Class A, Add	53.59	
			For Work In Restricted Working Space, Add	50.24	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0619	LF 22" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	206.19	105.06
		For Seal Class B, Add	26.26	
		For Seal Class A, Add	56.03	
		For Work In Restricted Working Space, Add	52.53	
23 31 13	13-0620	LF 22" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	215.19	109.63
		For Seal Class B, Add	27.41	
		For Seal Class A, Add	58.47	
		For Work In Restricted Working Space, Add	54.82	
23 31 13	13-0621	LF 22" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	224.12	114.19
		For Seal Class B, Add	28.55	
		For Seal Class A, Add	60.90	
		For Work In Restricted Working Space, Add	57.10	
23 31 13	13-0622	LF 22" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.10	118.77
		For Seal Class B, Add	29.69	
		For Seal Class A, Add	63.34	
		For Work In Restricted Working Space, Add	59.38	
23 31 13	13-0623	LF 22" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	242.07	123.32
		For Seal Class B, Add	30.83	
		For Seal Class A, Add	65.77	
		For Work In Restricted Working Space, Add	61.66	
23 31 13	13-0624	LF 22" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.02	127.89
		For Seal Class B, Add	31.97	
		For Seal Class A, Add	68.21	
		For Work In Restricted Working Space, Add	63.95	
23 31 13	13-0625	LF 22" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	259.99	132.46
		For Seal Class B, Add	33.11	
		For Seal Class A, Add	70.64	
		For Work In Restricted Working Space, Add	66.23	
23 31 13	13-0626	LF 22" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.98	137.03
		For Seal Class B, Add	34.26	
		For Seal Class A, Add	73.08	
		For Work In Restricted Working Space, Add	68.52	
23 31 13	13-0627	LF 22" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	277.92	141.59
		For Seal Class B, Add	35.40	
		For Seal Class A, Add	75.52	
		For Work In Restricted Working Space, Add	70.80	
23 31 13	13-0628	LF 22" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	286.90	146.17
		For Seal Class B, Add	36.54	
		For Seal Class A, Add	77.96	
		For Work In Restricted Working Space, Add	73.08	
23 31 13	13-0629	LF 22" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	295.85	150.73
		For Seal Class B, Add	37.68	
		For Seal Class A, Add	80.39	
		For Work In Restricted Working Space, Add	75.37	
23 31 13	13-0630	LF 22" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.82	155.31
		For Seal Class B, Add	38.82	
		For Seal Class A, Add	82.83	
		For Work In Restricted Working Space, Add	77.65	
23 31 13	13-0631	LF 22" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	313.80	159.87
		For Seal Class B, Add	39.97	
		For Seal Class A, Add	85.26	
		For Work In Restricted Working Space, Add	79.94	
23 31 13	13-0632	LF 24" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	215.19	109.63
		For Seal Class B, Add	27.41	
		For Seal Class A, Add	58.47	
		For Work In Restricted Working Space, Add	54.82	
23 31 13	13-0633	LF 24" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	224.12	114.19
		For Seal Class B, Add	28.55	
		For Seal Class A, Add	60.90	
		For Work In Restricted Working Space, Add	57.10	
23 31 13	13-0634	LF 24" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.10	118.77
		For Seal Class B, Add	29.69	
		For Seal Class A, Add	63.34	
		For Work In Restricted Working Space, Add	59.38	
23 31 13	13-0635	LF 24" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	242.07	123.32
		For Seal Class B, Add	30.83	
		For Seal Class A, Add	65.77	
		For Work In Restricted Working Space, Add	61.66	
23 31 13	13-0636	LF 24" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.02	127.89
		For Seal Class B, Add	31.97	
		For Seal Class A, Add	68.21	
		For Work In Restricted Working Space, Add	63.95	
23 31 13	13-0637	LF 24" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	259.99	132.46
		For Seal Class B, Add	33.11	
		For Seal Class A, Add	70.64	
		For Work In Restricted Working Space, Add	66.23	
23 31 13	13-0638	LF 24" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.98	137.03
		For Seal Class B, Add	34.26	
		For Seal Class A, Add	73.08	
		For Work In Restricted Working Space, Add	68.52	
23 31 13	13-0639	LF 24" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	277.92	141.59
		For Seal Class B, Add	35.40	
		For Seal Class A, Add	75.52	
		For Work In Restricted Working Space, Add	70.80	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR		UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI				UNIT COST	UNIT COST
23 31 13 13-0640	LF		24" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	286.90	146.17
			For Seal Class B, Add	36.54	
			For Seal Class A, Add	77.96	
			For Work In Restricted Working Space, Add	73.08	
23 31 13 13-0641	LF		24" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	295.85	150.73
			For Seal Class B, Add	37.68	
			For Seal Class A, Add	80.39	
			For Work In Restricted Working Space, Add	75.37	
23 31 13 13-0642	LF		24" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.82	155.31
			For Seal Class B, Add	38.82	
			For Seal Class A, Add	82.83	
			For Work In Restricted Working Space, Add	77.65	
23 31 13 13-0643	LF		24" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	313.80	159.87
			For Seal Class B, Add	39.97	
			For Seal Class A, Add	85.26	
			For Work In Restricted Working Space, Add	79.94	
23 31 13 13-0644	LF		24" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	322.74	164.44
			For Seal Class B, Add	41.11	
			For Seal Class A, Add	87.70	
			For Work In Restricted Working Space, Add	82.22	
23 31 13 13-0645	LF		26" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.10	118.77
			For Seal Class B, Add	29.69	
			For Seal Class A, Add	63.34	
			For Work In Restricted Working Space, Add	59.38	
23 31 13 13-0646	LF		26" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	242.07	123.32
			For Seal Class B, Add	30.83	
			For Seal Class A, Add	65.77	
			For Work In Restricted Working Space, Add	61.66	
23 31 13 13-0647	LF		26" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.02	127.89
			For Seal Class B, Add	31.97	
			For Seal Class A, Add	68.21	
			For Work In Restricted Working Space, Add	63.95	
23 31 13 13-0648	LF		26" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	259.99	132.46
			For Seal Class B, Add	33.11	
			For Seal Class A, Add	70.64	
			For Work In Restricted Working Space, Add	66.23	
23 31 13 13-0649	LF		26" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.98	137.03
			For Seal Class B, Add	34.26	
			For Seal Class A, Add	73.08	
			For Work In Restricted Working Space, Add	68.52	
23 31 13 13-0650	LF		26" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	277.92	141.59
			For Seal Class B, Add	35.40	
			For Seal Class A, Add	75.52	
			For Work In Restricted Working Space, Add	70.80	
23 31 13 13-0651	LF		26" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	286.90	146.17
			For Seal Class B, Add	36.54	
			For Seal Class A, Add	77.96	
			For Work In Restricted Working Space, Add	73.08	
23 31 13 13-0652	LF		26" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	295.85	150.73
			For Seal Class B, Add	37.68	
			For Seal Class A, Add	80.39	
			For Work In Restricted Working Space, Add	75.37	
23 31 13 13-0653	LF		26" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.82	155.31
			For Seal Class B, Add	38.82	
			For Seal Class A, Add	82.83	
			For Work In Restricted Working Space, Add	77.65	
23 31 13 13-0654	LF		26" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	313.80	159.87
			For Seal Class B, Add	39.97	
			For Seal Class A, Add	85.26	
			For Work In Restricted Working Space, Add	79.94	
23 31 13 13-0655	LF		26" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	322.74	164.44
			For Seal Class B, Add	41.11	
			For Seal Class A, Add	87.70	
			For Work In Restricted Working Space, Add	82.22	
23 31 13 13-0656	LF		26" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	331.73	169.01
			For Seal Class B, Add	42.25	
			For Seal Class A, Add	90.14	
			For Work In Restricted Working Space, Add	84.50	
23 31 13 13-0657	LF		28" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	251.02	127.89
			For Seal Class B, Add	31.97	
			For Seal Class A, Add	68.21	
			For Work In Restricted Working Space, Add	63.95	
23 31 13 13-0658	LF		28" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	259.99	132.46
			For Seal Class B, Add	33.11	
			For Seal Class A, Add	70.64	
			For Work In Restricted Working Space, Add	66.23	
23 31 13 13-0659	LF		28" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.98	137.03
			For Seal Class B, Add	34.26	
			For Seal Class A, Add	73.08	
			For Work In Restricted Working Space, Add	68.52	
23 31 13 13-0660	LF		28" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	277.92	141.59
			For Seal Class B, Add	35.40	
			For Seal Class A, Add	75.52	
			For Work In Restricted Working Space, Add	70.80	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0661	LF	28" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	286.90	146.17
			For Seal Class B, Add	36.54	
			For Seal Class A, Add	77.96	
			For Work In Restricted Working Space, Add	73.08	
23 31 13	13-0662	LF	28" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	295.85	150.73
			For Seal Class B, Add	37.68	
			For Seal Class A, Add	80.39	
			For Work In Restricted Working Space, Add	75.37	
23 31 13	13-0663	LF	28" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.82	155.31
			For Seal Class B, Add	38.82	
			For Seal Class A, Add	82.83	
			For Work In Restricted Working Space, Add	77.65	
23 31 13	13-0664	LF	28" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	313.80	159.87
			For Seal Class B, Add	39.97	
			For Seal Class A, Add	85.26	
			For Work In Restricted Working Space, Add	79.94	
23 31 13	13-0665	LF	28" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	322.74	164.44
			For Seal Class B, Add	41.11	
			For Seal Class A, Add	87.70	
			For Work In Restricted Working Space, Add	82.22	
23 31 13	13-0666	LF	28" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	331.73	169.01
			For Seal Class B, Add	42.25	
			For Seal Class A, Add	90.14	
			For Work In Restricted Working Space, Add	84.50	
23 31 13	13-0667	LF	28" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	340.67	173.58
			For Seal Class B, Add	43.39	
			For Seal Class A, Add	92.57	
			For Work In Restricted Working Space, Add	86.79	
23 31 13	13-0668	LF	30" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.98	137.03
			For Seal Class B, Add	34.26	
			For Seal Class A, Add	73.08	
			For Work In Restricted Working Space, Add	68.52	
23 31 13	13-0669	LF	30" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	277.92	141.59
			For Seal Class B, Add	35.40	
			For Seal Class A, Add	75.52	
			For Work In Restricted Working Space, Add	70.80	
23 31 13	13-0670	LF	30" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	286.90	146.17
			For Seal Class B, Add	36.54	
			For Seal Class A, Add	77.96	
			For Work In Restricted Working Space, Add	73.08	
23 31 13	13-0671	LF	30" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	295.85	150.73
			For Seal Class B, Add	37.68	
			For Seal Class A, Add	80.39	
			For Work In Restricted Working Space, Add	75.37	
23 31 13	13-0672	LF	30" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.82	155.31
			For Seal Class B, Add	38.82	
			For Seal Class A, Add	82.83	
			For Work In Restricted Working Space, Add	77.65	
23 31 13	13-0673	LF	30" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	313.80	159.87
			For Seal Class B, Add	39.97	
			For Seal Class A, Add	85.26	
			For Work In Restricted Working Space, Add	79.94	
23 31 13	13-0674	LF	30" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	322.74	164.44
			For Seal Class B, Add	41.11	
			For Seal Class A, Add	87.70	
			For Work In Restricted Working Space, Add	82.22	
23 31 13	13-0675	LF	30" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	331.73	169.01
			For Seal Class B, Add	42.25	
			For Seal Class A, Add	90.14	
			For Work In Restricted Working Space, Add	84.50	
23 31 13	13-0676	LF	30" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	340.67	173.58
			For Seal Class B, Add	43.39	
			For Seal Class A, Add	92.57	
			For Work In Restricted Working Space, Add	86.79	
23 31 13	13-0677	LF	30" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	349.65	178.14
			For Seal Class B, Add	44.54	
			For Seal Class A, Add	95.01	
			For Work In Restricted Working Space, Add	89.07	
23 31 13	13-0678	LF	32" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	286.90	146.17
			For Seal Class B, Add	36.54	
			For Seal Class A, Add	77.96	
			For Work In Restricted Working Space, Add	73.08	
23 31 13	13-0679	LF	32" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	295.85	150.73
			For Seal Class B, Add	37.68	
			For Seal Class A, Add	80.39	
			For Work In Restricted Working Space, Add	75.37	
23 31 13	13-0680	LF	32" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.82	155.31
			For Seal Class B, Add	38.82	
			For Seal Class A, Add	82.83	
			For Work In Restricted Working Space, Add	77.65	
23 31 13	13-0681	LF	32" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	313.80	159.87
			For Seal Class B, Add	39.97	
			For Seal Class A, Add	85.26	
			For Work In Restricted Working Space, Add	79.94	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
23 31 13 13-0682	LF	32" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	322.74	164.44
		For Seal Class B, Add	41.11	
		For Seal Class A, Add	87.70	
		For Work In Restricted Working Space, Add	82.22	
23 31 13 13-0683	LF	32" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	331.73	169.01
		For Seal Class B, Add	42.25	
		For Seal Class A, Add	90.14	
		For Work In Restricted Working Space, Add	84.50	
23 31 13 13-0684	LF	32" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	340.67	173.58
		For Seal Class B, Add	43.39	
		For Seal Class A, Add	92.57	
		For Work In Restricted Working Space, Add	86.79	
23 31 13 13-0685	LF	32" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	349.65	178.14
		For Seal Class B, Add	44.54	
		For Seal Class A, Add	95.01	
		For Work In Restricted Working Space, Add	89.07	
23 31 13 13-0686	LF	32" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	358.63	182.72
		For Seal Class B, Add	45.68	
		For Seal Class A, Add	97.45	
		For Work In Restricted Working Space, Add	91.36	
23 31 13 13-0687	LF	34" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	304.82	155.31
		For Seal Class B, Add	38.82	
		For Seal Class A, Add	82.83	
		For Work In Restricted Working Space, Add	77.65	
23 31 13 13-0688	LF	34" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	313.80	159.87
		For Seal Class B, Add	39.97	
		For Seal Class A, Add	85.26	
		For Work In Restricted Working Space, Add	79.94	
23 31 13 13-0689	LF	34" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	322.74	164.44
		For Seal Class B, Add	41.11	
		For Seal Class A, Add	87.70	
		For Work In Restricted Working Space, Add	82.22	
23 31 13 13-0690	LF	34" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	331.73	169.01
		For Seal Class B, Add	42.25	
		For Seal Class A, Add	90.14	
		For Work In Restricted Working Space, Add	84.50	
23 31 13 13-0691	LF	34" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	340.67	173.58
		For Seal Class B, Add	43.39	
		For Seal Class A, Add	92.57	
		For Work In Restricted Working Space, Add	86.79	
23 31 13 13-0692	LF	34" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	349.65	178.14
		For Seal Class B, Add	44.54	
		For Seal Class A, Add	95.01	
		For Work In Restricted Working Space, Add	89.07	
23 31 13 13-0693	LF	34" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	358.63	182.72
		For Seal Class B, Add	45.68	
		For Seal Class A, Add	97.45	
		For Work In Restricted Working Space, Add	91.36	
23 31 13 13-0694	LF	34" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	367.57	187.28
		For Seal Class B, Add	46.82	
		For Seal Class A, Add	99.88	
		For Work In Restricted Working Space, Add	93.64	
23 31 13 13-0695	LF	36" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	322.74	164.44
		For Seal Class B, Add	41.11	
		For Seal Class A, Add	87.70	
		For Work In Restricted Working Space, Add	82.22	
23 31 13 13-0696	LF	36" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	331.73	169.01
		For Seal Class B, Add	42.25	
		For Seal Class A, Add	90.14	
		For Work In Restricted Working Space, Add	84.50	
23 31 13 13-0697	LF	36" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	340.67	173.58
		For Seal Class B, Add	43.39	
		For Seal Class A, Add	92.57	
		For Work In Restricted Working Space, Add	86.79	
23 31 13 13-0698	LF	36" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	349.65	178.14
		For Seal Class B, Add	44.54	
		For Seal Class A, Add	95.01	
		For Work In Restricted Working Space, Add	89.07	
23 31 13 13-0699	LF	36" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	358.63	182.72
		For Seal Class B, Add	45.68	
		For Seal Class A, Add	97.45	
		For Work In Restricted Working Space, Add	91.36	
23 31 13 13-0700	LF	36" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	367.57	187.28
		For Seal Class B, Add	46.82	
		For Seal Class A, Add	99.88	
		For Work In Restricted Working Space, Add	93.64	
23 31 13 13-0701	LF	36" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	376.55	191.85
		For Seal Class B, Add	47.96	
		For Seal Class A, Add	102.32	
		For Work In Restricted Working Space, Add	95.92	
23 31 13 13-0702	LF	38" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	340.67	173.58
		For Seal Class B, Add	43.39	
		For Seal Class A, Add	92.57	
		For Work In Restricted Working Space, Add	86.79	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0703	LF 38" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	349.65	178.14
		For Seal Class B, Add	44.54	
		For Seal Class A, Add	95.01	
		For Work In Restricted Working Space, Add	89.07	
23 31 13	13-0704	LF 38" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	358.63	182.72
		For Seal Class B, Add	45.68	
		For Seal Class A, Add	97.45	
		For Work In Restricted Working Space, Add	91.36	
23 31 13	13-0705	LF 38" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	367.57	187.28
		For Seal Class B, Add	46.82	
		For Seal Class A, Add	99.88	
		For Work In Restricted Working Space, Add	93.64	
23 31 13	13-0706	LF 38" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	376.55	191.85
		For Seal Class B, Add	47.96	
		For Seal Class A, Add	102.32	
		For Work In Restricted Working Space, Add	95.92	
23 31 13	13-0707	LF 38" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	385.53	196.41
		For Seal Class B, Add	49.10	
		For Seal Class A, Add	104.76	
		For Work In Restricted Working Space, Add	98.21	
23 31 13	13-0708	LF 38" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	394.48	200.99
		For Seal Class B, Add	50.25	
		For Seal Class A, Add	107.19	
		For Work In Restricted Working Space, Add	100.49	
23 31 13	13-0709	LF 40" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	358.63	182.72
		For Seal Class B, Add	45.68	
		For Seal Class A, Add	97.45	
		For Work In Restricted Working Space, Add	91.36	
23 31 13	13-0710	LF 40" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	367.57	187.28
		For Seal Class B, Add	46.82	
		For Seal Class A, Add	99.88	
		For Work In Restricted Working Space, Add	93.64	
23 31 13	13-0711	LF 40" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	376.55	191.85
		For Seal Class B, Add	47.96	
		For Seal Class A, Add	102.32	
		For Work In Restricted Working Space, Add	95.92	
23 31 13	13-0712	LF 40" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	385.53	196.41
		For Seal Class B, Add	49.10	
		For Seal Class A, Add	104.76	
		For Work In Restricted Working Space, Add	98.21	
23 31 13	13-0713	LF 40" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	394.48	200.99
		For Seal Class B, Add	50.25	
		For Seal Class A, Add	107.19	
		For Work In Restricted Working Space, Add	100.49	
23 31 13	13-0714	LF 40" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	403.45	205.54
		For Seal Class B, Add	51.39	
		For Seal Class A, Add	109.63	
		For Work In Restricted Working Space, Add	102.77	
23 31 13	13-0715	LF 40" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	412.40	210.12
		For Seal Class B, Add	52.53	
		For Seal Class A, Add	112.06	
		For Work In Restricted Working Space, Add	105.06	
23 31 13	13-0716	LF 40" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	421.37	214.68
		For Seal Class B, Add	53.67	
		For Seal Class A, Add	114.50	
		For Work In Restricted Working Space, Add	107.34	
23 31 13	13-0717	LF 40" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	430.34	219.25
		For Seal Class B, Add	54.81	
		For Seal Class A, Add	116.93	
		For Work In Restricted Working Space, Add	109.62	
23 31 13	13-0718	LF 42" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	376.55	191.85
		For Seal Class B, Add	47.96	
		For Seal Class A, Add	102.32	
		For Work In Restricted Working Space, Add	95.92	
23 31 13	13-0719	LF 42" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	385.53	196.41
		For Seal Class B, Add	49.10	
		For Seal Class A, Add	104.76	
		For Work In Restricted Working Space, Add	98.21	
23 31 13	13-0720	LF 42" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	394.48	200.99
		For Seal Class B, Add	50.25	
		For Seal Class A, Add	107.19	
		For Work In Restricted Working Space, Add	100.49	
23 31 13	13-0721	LF 42" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	403.45	205.54
		For Seal Class B, Add	51.39	
		For Seal Class A, Add	109.63	
		For Work In Restricted Working Space, Add	102.77	
23 31 13	13-0722	LF 42" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	412.40	210.12
		For Seal Class B, Add	52.53	
		For Seal Class A, Add	112.06	
		For Work In Restricted Working Space, Add	105.06	
23 31 13	13-0723	LF 42" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	421.37	214.68
		For Seal Class B, Add	53.67	
		For Seal Class A, Add	114.50	
		For Work In Restricted Working Space, Add	107.34	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0724	LF	42" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	430.34	219.25
			For Seal Class B, Add	54.81	
			For Seal Class A, Add	116.93	
			For Work In Restricted Working Space, Add	109.62	
23 31 13	13-0725	LF	42" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	439.30	223.82
			For Seal Class B, Add	55.95	
			For Seal Class A, Add	119.37	
			For Work In Restricted Working Space, Add	111.91	
23 31 13	13-0726	LF	44" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	394.48	200.99
			For Seal Class B, Add	50.25	
			For Seal Class A, Add	107.19	
			For Work In Restricted Working Space, Add	100.49	
23 31 13	13-0727	LF	44" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	403.45	205.54
			For Seal Class B, Add	51.39	
			For Seal Class A, Add	109.63	
			For Work In Restricted Working Space, Add	102.77	
23 31 13	13-0728	LF	44" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	412.40	210.12
			For Seal Class B, Add	52.53	
			For Seal Class A, Add	112.06	
			For Work In Restricted Working Space, Add	105.06	
23 31 13	13-0729	LF	44" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	421.37	214.68
			For Seal Class B, Add	53.67	
			For Seal Class A, Add	114.50	
			For Work In Restricted Working Space, Add	107.34	
23 31 13	13-0730	LF	44" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	430.34	219.25
			For Seal Class B, Add	54.81	
			For Seal Class A, Add	116.93	
			For Work In Restricted Working Space, Add	109.62	
23 31 13	13-0731	LF	44" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	439.30	223.82
			For Seal Class B, Add	55.95	
			For Seal Class A, Add	119.37	
			For Work In Restricted Working Space, Add	111.91	
23 31 13	13-0732	LF	44" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	448.28	228.39
			For Seal Class B, Add	57.10	
			For Seal Class A, Add	121.81	
			For Work In Restricted Working Space, Add	114.20	
23 31 13	13-0733	LF	46" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	412.40	210.12
			For Seal Class B, Add	52.53	
			For Seal Class A, Add	112.06	
			For Work In Restricted Working Space, Add	105.06	
23 31 13	13-0734	LF	46" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	421.37	214.68
			For Seal Class B, Add	53.67	
			For Seal Class A, Add	114.50	
			For Work In Restricted Working Space, Add	107.34	
23 31 13	13-0735	LF	46" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	430.34	219.25
			For Seal Class B, Add	54.81	
			For Seal Class A, Add	116.93	
			For Work In Restricted Working Space, Add	109.62	
23 31 13	13-0736	LF	46" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	439.30	223.82
			For Seal Class B, Add	55.95	
			For Seal Class A, Add	119.37	
			For Work In Restricted Working Space, Add	111.91	
23 31 13	13-0737	LF	46" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	448.28	228.39
			For Seal Class B, Add	57.10	
			For Seal Class A, Add	121.81	
			For Work In Restricted Working Space, Add	114.20	
23 31 13	13-0738	LF	46" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	464.86	237.53
			For Seal Class B, Add	59.38	
			For Seal Class A, Add	126.68	
			For Work In Restricted Working Space, Add	118.76	
23 31 13	13-0739	LF	46" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	473.81	242.09
			For Seal Class B, Add	60.52	
			For Seal Class A, Add	129.11	
			For Work In Restricted Working Space, Add	121.04	
23 31 13	13-0740	LF	48" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	430.34	219.25
			For Seal Class B, Add	54.81	
			For Seal Class A, Add	116.93	
			For Work In Restricted Working Space, Add	109.62	
23 31 13	13-0741	LF	48" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	439.30	223.82
			For Seal Class B, Add	55.95	
			For Seal Class A, Add	119.37	
			For Work In Restricted Working Space, Add	111.91	
23 31 13	13-0742	LF	48" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	448.28	228.39
			For Seal Class B, Add	57.10	
			For Seal Class A, Add	121.81	
			For Work In Restricted Working Space, Add	114.20	
23 31 13	13-0743	LF	48" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	457.25	232.95
			For Seal Class B, Add	58.24	
			For Seal Class A, Add	124.24	
			For Work In Restricted Working Space, Add	116.48	
23 31 13	13-0744	LF	48" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	466.20	237.53
			For Seal Class B, Add	59.38	
			For Seal Class A, Add	126.68	
			For Work In Restricted Working Space, Add	118.76	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0745	LF 48" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	475.17	242.09
		For Seal Class B, Add	60.52	
		For Seal Class A, Add	129.11	
		For Work In Restricted Working Space, Add	121.04	
23 31 13	13-0746	LF 48" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	484.12	246.66
		For Seal Class B, Add	61.66	
		For Seal Class A, Add	131.55	
		For Work In Restricted Working Space, Add	123.33	
23 31 13	13-0747	LF 50" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	448.28	228.39
		For Seal Class B, Add	57.10	
		For Seal Class A, Add	121.81	
		For Work In Restricted Working Space, Add	114.20	
23 31 13	13-0748	LF 50" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	457.25	232.95
		For Seal Class B, Add	58.24	
		For Seal Class A, Add	124.24	
		For Work In Restricted Working Space, Add	116.48	
23 31 13	13-0749	LF 50" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	466.20	237.53
		For Seal Class B, Add	59.38	
		For Seal Class A, Add	126.68	
		For Work In Restricted Working Space, Add	118.76	
23 31 13	13-0750	LF 50" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	475.17	242.09
		For Seal Class B, Add	60.52	
		For Seal Class A, Add	129.11	
		For Work In Restricted Working Space, Add	121.04	
23 31 13	13-0751	LF 50" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	484.12	246.66
		For Seal Class B, Add	61.66	
		For Seal Class A, Add	131.55	
		For Work In Restricted Working Space, Add	123.33	
23 31 13	13-0752	LF 50" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	493.09	251.23
		For Seal Class B, Add	62.81	
		For Seal Class A, Add	133.98	
		For Work In Restricted Working Space, Add	125.61	
23 31 13	13-0753	LF 52" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	466.20	237.53
		For Seal Class B, Add	59.38	
		For Seal Class A, Add	126.68	
		For Work In Restricted Working Space, Add	118.76	
23 31 13	13-0754	LF 52" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	475.17	242.09
		For Seal Class B, Add	60.52	
		For Seal Class A, Add	129.11	
		For Work In Restricted Working Space, Add	121.04	
23 31 13	13-0755	LF 52" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	484.12	246.66
		For Seal Class B, Add	61.66	
		For Seal Class A, Add	131.55	
		For Work In Restricted Working Space, Add	123.33	
23 31 13	13-0756	LF 52" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	493.09	251.23
		For Seal Class B, Add	62.81	
		For Seal Class A, Add	133.98	
		For Work In Restricted Working Space, Add	125.61	
23 31 13	13-0757	LF 52" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	502.08	255.80
		For Seal Class B, Add	63.95	
		For Seal Class A, Add	136.43	
		For Work In Restricted Working Space, Add	127.90	
23 31 13	13-0758	LF 54" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	484.12	246.66
		For Seal Class B, Add	61.66	
		For Seal Class A, Add	131.55	
		For Work In Restricted Working Space, Add	123.33	
23 31 13	13-0759	LF 54" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	493.09	251.23
		For Seal Class B, Add	62.81	
		For Seal Class A, Add	133.98	
		For Work In Restricted Working Space, Add	125.61	
23 31 13	13-0760	LF 54" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	502.08	255.80
		For Seal Class B, Add	63.95	
		For Seal Class A, Add	136.43	
		For Work In Restricted Working Space, Add	127.90	
23 31 13	13-0761	LF 54" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	511.03	260.36
		For Seal Class B, Add	65.09	
		For Seal Class A, Add	138.86	
		For Work In Restricted Working Space, Add	130.18	
23 31 13	13-0762	LF 54" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	520.00	264.93
		For Seal Class B, Add	66.23	
		For Seal Class A, Add	141.30	
		For Work In Restricted Working Space, Add	132.47	
23 31 13	13-0763	LF 54" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	528.95	269.50
		For Seal Class B, Add	67.37	
		For Seal Class A, Add	143.73	
		For Work In Restricted Working Space, Add	134.75	
23 31 13	13-0764	LF 56" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	502.08	255.80
		For Seal Class B, Add	63.95	
		For Seal Class A, Add	136.43	
		For Work In Restricted Working Space, Add	127.90	
23 31 13	13-0765	LF 56" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	511.03	260.36
		For Seal Class B, Add	65.09	
		For Seal Class A, Add	138.86	
		For Work In Restricted Working Space, Add	130.18	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0766	LF	56" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	520.00	264.93
			For Seal Class B, Add	66.23	
			For Seal Class A, Add	141.30	
			For Work In Restricted Working Space, Add	132.47	
23 31 13	13-0767	LF	56" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	528.95	269.50
			For Seal Class B, Add	67.37	
			For Seal Class A, Add	143.73	
			For Work In Restricted Working Space, Add	134.75	
23 31 13	13-0768	LF	56" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	537.92	274.05
			For Seal Class B, Add	68.52	
			For Seal Class A, Add	146.17	
			For Work In Restricted Working Space, Add	137.03	
23 31 13	13-0769	LF	58" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	520.00	264.93
			For Seal Class B, Add	66.23	
			For Seal Class A, Add	141.30	
			For Work In Restricted Working Space, Add	132.47	
23 31 13	13-0770	LF	58" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	528.95	269.50
			For Seal Class B, Add	67.37	
			For Seal Class A, Add	143.73	
			For Work In Restricted Working Space, Add	134.75	
23 31 13	13-0771	LF	58" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	537.92	274.05
			For Seal Class B, Add	68.52	
			For Seal Class A, Add	146.17	
			For Work In Restricted Working Space, Add	137.03	
23 31 13	13-0772	LF	58" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	546.89	278.63
			For Seal Class B, Add	69.66	
			For Seal Class A, Add	148.60	
			For Work In Restricted Working Space, Add	139.31	
23 31 13	13-0773	LF	58" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	555.84	283.19
			For Seal Class B, Add	70.80	
			For Seal Class A, Add	151.04	
			For Work In Restricted Working Space, Add	141.60	
23 31 13	13-0774	LF	60" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	537.92	274.05
			For Seal Class B, Add	68.52	
			For Seal Class A, Add	146.17	
			For Work In Restricted Working Space, Add	137.03	
23 31 13	13-0775	LF	60" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	546.89	278.63
			For Seal Class B, Add	69.66	
			For Seal Class A, Add	148.60	
			For Work In Restricted Working Space, Add	139.31	
23 31 13	13-0776	LF	60" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	555.84	283.19
			For Seal Class B, Add	70.80	
			For Seal Class A, Add	151.04	
			For Work In Restricted Working Space, Add	141.60	
23 31 13	13-0777	LF	60" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	564.83	287.76
			For Seal Class B, Add	71.94	
			For Seal Class A, Add	153.48	
			For Work In Restricted Working Space, Add	143.89	
23 31 13	13-0778	LF	60" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	573.80	292.33
			For Seal Class B, Add	73.08	
			For Seal Class A, Add	155.91	
			For Work In Restricted Working Space, Add	146.17	
23 31 13	13-0779	LF	62" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	555.84	283.19
			For Seal Class B, Add	70.80	
			For Seal Class A, Add	151.04	
			For Work In Restricted Working Space, Add	141.60	
23 31 13	13-0780	LF	62" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	564.83	287.76
			For Seal Class B, Add	71.94	
			For Seal Class A, Add	153.48	
			For Work In Restricted Working Space, Add	143.89	
23 31 13	13-0781	LF	62" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	573.80	292.33
			For Seal Class B, Add	73.08	
			For Seal Class A, Add	155.91	
			For Work In Restricted Working Space, Add	146.17	
23 31 13	13-0782	LF	62" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	582.75	296.90
			For Seal Class B, Add	74.23	
			For Seal Class A, Add	158.35	
			For Work In Restricted Working Space, Add	148.45	
23 31 13	13-0783	LF	62" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	591.72	301.46
			For Seal Class B, Add	75.37	
			For Seal Class A, Add	160.78	
			For Work In Restricted Working Space, Add	150.74	
23 31 13	13-0784	LF	64" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	573.80	292.33
			For Seal Class B, Add	73.08	
			For Seal Class A, Add	155.91	
			For Work In Restricted Working Space, Add	146.17	
23 31 13	13-0785	LF	64" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	582.75	296.90
			For Seal Class B, Add	74.23	
			For Seal Class A, Add	158.35	
			For Work In Restricted Working Space, Add	148.45	
23 31 13	13-0786	LF	64" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	591.72	301.46
			For Seal Class B, Add	75.37	
			For Seal Class A, Add	160.78	
			For Work In Restricted Working Space, Add	150.74	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0787	LF 64" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	600.67	306.04
		For Seal Class B, Add	76.51	
		For Seal Class A, Add	163.22	
		For Work In Restricted Working Space, Add	153.02	
23 31 13	13-0788	LF 66" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	591.72	301.46
		For Seal Class B, Add	75.37	
		For Seal Class A, Add	160.78	
		For Work In Restricted Working Space, Add	150.74	
23 31 13	13-0789	LF 66" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	600.67	306.04
		For Seal Class B, Add	76.51	
		For Seal Class A, Add	163.22	
		For Work In Restricted Working Space, Add	153.02	
23 31 13	13-0790	LF 66" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	609.64	310.60
		For Seal Class B, Add	77.65	
		For Seal Class A, Add	165.65	
		For Work In Restricted Working Space, Add	155.30	
23 31 13	13-0791	LF 66" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	618.62	315.17
		For Seal Class B, Add	78.79	
		For Seal Class A, Add	168.09	
		For Work In Restricted Working Space, Add	157.58	
23 31 13	13-0792	LF 68" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	609.64	310.60
		For Seal Class B, Add	77.65	
		For Seal Class A, Add	165.65	
		For Work In Restricted Working Space, Add	155.30	
23 31 13	13-0793	LF 68" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	618.62	315.17
		For Seal Class B, Add	78.79	
		For Seal Class A, Add	168.09	
		For Work In Restricted Working Space, Add	157.58	
23 31 13	13-0794	LF 68" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	627.57	319.74
		For Seal Class B, Add	79.94	
		For Seal Class A, Add	170.53	
		For Work In Restricted Working Space, Add	159.87	
23 31 13	13-0795	LF 68" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	636.54	324.31
		For Seal Class B, Add	81.08	
		For Seal Class A, Add	172.96	
		For Work In Restricted Working Space, Add	162.15	
23 31 13	13-0796	LF 70" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	627.57	319.74
		For Seal Class B, Add	79.94	
		For Seal Class A, Add	170.53	
		For Work In Restricted Working Space, Add	159.87	
23 31 13	13-0797	LF 70" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	636.54	324.31
		For Seal Class B, Add	81.08	
		For Seal Class A, Add	172.96	
		For Work In Restricted Working Space, Add	162.15	
23 31 13	13-0798	LF 70" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	645.53	328.87
		For Seal Class B, Add	82.22	
		For Seal Class A, Add	175.40	
		For Work In Restricted Working Space, Add	164.44	
23 31 13	13-0799	LF 70" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	654.47	333.45
		For Seal Class B, Add	83.36	
		For Seal Class A, Add	177.84	
		For Work In Restricted Working Space, Add	166.72	
23 31 13	13-0800	LF 70" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	663.45	338.01
		For Seal Class B, Add	84.50	
		For Seal Class A, Add	180.27	
		For Work In Restricted Working Space, Add	169.01	
23 31 13	13-0801	LF 70" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	672.39	342.58
		For Seal Class B, Add	85.64	
		For Seal Class A, Add	182.71	
		For Work In Restricted Working Space, Add	171.29	
23 31 13	13-0802	LF 70" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	681.37	347.15
		For Seal Class B, Add	86.79	
		For Seal Class A, Add	185.15	
		For Work In Restricted Working Space, Add	173.57	
23 31 13	13-0803	LF 70" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	690.35	351.72
		For Seal Class B, Add	87.93	
		For Seal Class A, Add	187.58	
		For Work In Restricted Working Space, Add	175.86	
23 31 13	13-0804	LF 72" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	645.53	328.87
		For Seal Class B, Add	82.22	
		For Seal Class A, Add	175.40	
		For Work In Restricted Working Space, Add	164.44	
23 31 13	13-0805	LF 72" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	654.47	333.45
		For Seal Class B, Add	83.36	
		For Seal Class A, Add	177.84	
		For Work In Restricted Working Space, Add	166.72	
23 31 13	13-0806	LF 72" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	663.45	338.01
		For Seal Class B, Add	84.50	
		For Seal Class A, Add	180.27	
		For Work In Restricted Working Space, Add	169.01	
23 31 13	13-0807	LF 72" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	672.39	342.58
		For Seal Class B, Add	85.64	
		For Seal Class A, Add	182.71	
		For Work In Restricted Working Space, Add	171.29	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0808	LF	72" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	681.37	347.15
			For Seal Class B, Add	86.79	
			For Seal Class A, Add	185.15	
			For Work In Restricted Working Space, Add	173.57	
23 31 13	13-0809	LF	72" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	690.35	351.72
			For Seal Class B, Add	87.93	
			For Seal Class A, Add	187.58	
			For Work In Restricted Working Space, Add	175.86	
23 31 13	13-0810	LF	72" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	699.29	356.27
			For Seal Class B, Add	89.07	
			For Seal Class A, Add	190.02	
			For Work In Restricted Working Space, Add	178.14	
23 31 13	13-0811	LF	74" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	663.45	338.01
			For Seal Class B, Add	84.50	
			For Seal Class A, Add	180.27	
			For Work In Restricted Working Space, Add	169.01	
23 31 13	13-0812	LF	74" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	672.39	342.58
			For Seal Class B, Add	85.64	
			For Seal Class A, Add	182.71	
			For Work In Restricted Working Space, Add	171.29	
23 31 13	13-0813	LF	74" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	681.37	347.15
			For Seal Class B, Add	86.79	
			For Seal Class A, Add	185.15	
			For Work In Restricted Working Space, Add	173.57	
23 31 13	13-0814	LF	74" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	690.35	351.72
			For Seal Class B, Add	87.93	
			For Seal Class A, Add	187.58	
			For Work In Restricted Working Space, Add	175.86	
23 31 13	13-0815	LF	74" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	699.29	356.27
			For Seal Class B, Add	89.07	
			For Seal Class A, Add	190.02	
			For Work In Restricted Working Space, Add	178.14	
23 31 13	13-0816	LF	74" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	708.28	360.85
			For Seal Class B, Add	90.21	
			For Seal Class A, Add	192.45	
			For Work In Restricted Working Space, Add	180.43	
23 31 13	13-0817	LF	76" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	681.37	347.15
			For Seal Class B, Add	86.79	
			For Seal Class A, Add	185.15	
			For Work In Restricted Working Space, Add	173.57	
23 31 13	13-0818	LF	76" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	690.35	351.72
			For Seal Class B, Add	87.93	
			For Seal Class A, Add	187.58	
			For Work In Restricted Working Space, Add	175.86	
23 31 13	13-0819	LF	76" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	699.29	356.27
			For Seal Class B, Add	89.07	
			For Seal Class A, Add	190.02	
			For Work In Restricted Working Space, Add	178.14	
23 31 13	13-0820	LF	76" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	708.28	360.85
			For Seal Class B, Add	90.21	
			For Seal Class A, Add	192.45	
			For Work In Restricted Working Space, Add	180.43	
23 31 13	13-0821	LF	76" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	717.22	365.41
			For Seal Class B, Add	91.35	
			For Seal Class A, Add	194.89	
			For Work In Restricted Working Space, Add	182.71	
23 31 13	13-0822	LF	78" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	699.29	356.27
			For Seal Class B, Add	89.07	
			For Seal Class A, Add	190.02	
			For Work In Restricted Working Space, Add	178.14	
23 31 13	13-0823	LF	78" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	708.28	360.85
			For Seal Class B, Add	90.21	
			For Seal Class A, Add	192.45	
			For Work In Restricted Working Space, Add	180.43	
23 31 13	13-0824	LF	78" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	717.22	365.41
			For Seal Class B, Add	91.35	
			For Seal Class A, Add	194.89	
			For Work In Restricted Working Space, Add	182.71	
23 31 13	13-0825	LF	78" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	726.19	369.98
			For Seal Class B, Add	92.50	
			For Seal Class A, Add	197.32	
			For Work In Restricted Working Space, Add	184.99	
23 31 13	13-0826	LF	80" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	717.22	365.41
			For Seal Class B, Add	91.35	
			For Seal Class A, Add	194.89	
			For Work In Restricted Working Space, Add	182.71	
23 31 13	13-0827	LF	80" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	726.19	369.98
			For Seal Class B, Add	92.50	
			For Seal Class A, Add	197.32	
			For Work In Restricted Working Space, Add	184.99	
23 31 13	13-0828	LF	80" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	735.17	374.55
			For Seal Class B, Add	93.64	
			For Seal Class A, Add	199.76	
			For Work In Restricted Working Space, Add	187.28	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0829	LF	82" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	735.17	374.55
		For Seal Class B, Add	93.64	
		For Seal Class A, Add	199.76	
		For Work In Restricted Working Space, Add	187.28	
23 31 13 13-0830	LF	82" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	744.12	379.12
		For Seal Class B, Add	94.78	
		For Seal Class A, Add	202.20	
		For Work In Restricted Working Space, Add	189.56	
23 31 13 13-0831	LF	84" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	753.10	383.68
		For Seal Class B, Add	95.92	
		For Seal Class A, Add	204.63	
		For Work In Restricted Working Space, Add	191.84	
23 31 13 13-0832 18 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)				
		Note: Seal Class C		
23 31 13 13-0833	LF	4" x 4", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	46.70	23.78
		For Seal Class B, Add	5.95	
		For Seal Class A, Add	12.69	
		For Work In Restricted Working Space, Add	11.90	
23 31 13 13-0834	LF	4" x 6", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	58.36	29.73
		For Seal Class B, Add	7.43	
		For Seal Class A, Add	15.86	
		For Work In Restricted Working Space, Add	14.87	
23 31 13 13-0835	LF	4" x 8", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	70.03	35.69
		For Seal Class B, Add	8.92	
		For Seal Class A, Add	19.03	
		For Work In Restricted Working Space, Add	17.84	
23 31 13 13-0836	LF	4" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	81.70	41.63
		For Seal Class B, Add	10.41	
		For Seal Class A, Add	22.20	
		For Work In Restricted Working Space, Add	20.81	
23 31 13 13-0837	LF	4" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	93.39	47.58
		For Seal Class B, Add	11.89	
		For Seal Class A, Add	25.37	
		For Work In Restricted Working Space, Add	23.79	
23 31 13 13-0838	LF	4" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	105.05	53.52
		For Seal Class B, Add	13.38	
		For Seal Class A, Add	28.54	
		For Work In Restricted Working Space, Add	26.76	
23 31 13 13-0839	LF	4" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	116.73	59.47
		For Seal Class B, Add	14.87	
		For Seal Class A, Add	31.72	
		For Work In Restricted Working Space, Add	29.74	
23 31 13 13-0840	LF	6" x 6", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	70.03	35.69
		For Seal Class B, Add	8.92	
		For Seal Class A, Add	19.03	
		For Work In Restricted Working Space, Add	17.84	
23 31 13 13-0841	LF	6" x 8", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	81.70	41.63
		For Seal Class B, Add	10.41	
		For Seal Class A, Add	22.20	
		For Work In Restricted Working Space, Add	20.81	
23 31 13 13-0842	LF	6" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	93.39	47.58
		For Seal Class B, Add	11.89	
		For Seal Class A, Add	25.37	
		For Work In Restricted Working Space, Add	23.79	
23 31 13 13-0843	LF	6" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	105.05	53.52
		For Seal Class B, Add	13.38	
		For Seal Class A, Add	28.54	
		For Work In Restricted Working Space, Add	26.76	
23 31 13 13-0844	LF	6" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	116.73	59.47
		For Seal Class B, Add	14.87	
		For Seal Class A, Add	31.72	
		For Work In Restricted Working Space, Add	29.74	
23 31 13 13-0845	LF	6" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	128.39	65.42
		For Seal Class B, Add	16.35	
		For Seal Class A, Add	34.89	
		For Work In Restricted Working Space, Add	32.71	
23 31 13 13-0846	LF	8" x 8", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	93.39	47.58
		For Seal Class B, Add	11.89	
		For Seal Class A, Add	25.37	
		For Work In Restricted Working Space, Add	23.79	
23 31 13 13-0847	LF	8" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	105.05	53.52
		For Seal Class B, Add	13.38	
		For Seal Class A, Add	28.54	
		For Work In Restricted Working Space, Add	26.76	
23 31 13 13-0848	LF	8" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	116.73	59.47
		For Seal Class B, Add	14.87	
		For Seal Class A, Add	31.72	
		For Work In Restricted Working Space, Add	29.74	
23 31 13 13-0849	LF	8" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	128.39	65.42
		For Seal Class B, Add	16.35	
		For Seal Class A, Add	34.89	
		For Work In Restricted Working Space, Add	32.71	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0850	LF	8" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	140.06	71.36
			For Seal Class B, Add	17.84	
			For Seal Class A, Add	38.06	
			For Work In Restricted Working Space, Add	35.68	
23 31 13	13-0851	LF	8" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	151.75	77.30
			For Seal Class B, Add	19.33	
			For Seal Class A, Add	41.23	
			For Work In Restricted Working Space, Add	38.66	
23 31 13	13-0852	LF	8" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	163.41	83.25
			For Seal Class B, Add	20.81	
			For Seal Class A, Add	44.40	
			For Work In Restricted Working Space, Add	41.63	
23 31 13	13-0853	LF	8" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	175.08	89.20
			For Seal Class B, Add	22.30	
			For Seal Class A, Add	47.57	
			For Work In Restricted Working Space, Add	44.60	
23 31 13	13-0854	LF	8" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	186.75	95.15
			For Seal Class B, Add	23.79	
			For Seal Class A, Add	50.75	
			For Work In Restricted Working Space, Add	47.57	
23 31 13	13-0855	LF	10" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	116.73	59.47
			For Seal Class B, Add	14.87	
			For Seal Class A, Add	31.72	
			For Work In Restricted Working Space, Add	29.74	
23 31 13	13-0856	LF	10" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	128.39	65.42
			For Seal Class B, Add	16.35	
			For Seal Class A, Add	34.89	
			For Work In Restricted Working Space, Add	32.71	
23 31 13	13-0857	LF	10" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	140.06	71.36
			For Seal Class B, Add	17.84	
			For Seal Class A, Add	38.06	
			For Work In Restricted Working Space, Add	35.68	
23 31 13	13-0858	LF	10" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	151.75	77.30
			For Seal Class B, Add	19.33	
			For Seal Class A, Add	41.23	
			For Work In Restricted Working Space, Add	38.66	
23 31 13	13-0859	LF	10" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	163.41	83.25
			For Seal Class B, Add	20.81	
			For Seal Class A, Add	44.40	
			For Work In Restricted Working Space, Add	41.63	
23 31 13	13-0860	LF	10" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	175.08	89.20
			For Seal Class B, Add	22.30	
			For Seal Class A, Add	47.57	
			For Work In Restricted Working Space, Add	44.60	
23 31 13	13-0861	LF	10" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	186.75	95.15
			For Seal Class B, Add	23.79	
			For Seal Class A, Add	50.75	
			For Work In Restricted Working Space, Add	47.57	
23 31 13	13-0862	LF	10" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	198.42	101.10
			For Seal Class B, Add	25.28	
			For Seal Class A, Add	53.92	
			For Work In Restricted Working Space, Add	50.55	
23 31 13	13-0863	LF	10" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	210.11	107.05
			For Seal Class B, Add	26.76	
			For Seal Class A, Add	57.09	
			For Work In Restricted Working Space, Add	53.52	
23 31 13	13-0864	LF	10" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	221.78	113.00
			For Seal Class B, Add	28.25	
			For Seal Class A, Add	60.26	
			For Work In Restricted Working Space, Add	56.50	
23 31 13	13-0865	LF	10" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.45	118.94
			For Seal Class B, Add	29.73	
			For Seal Class A, Add	63.43	
			For Work In Restricted Working Space, Add	59.47	
23 31 13	13-0866	LF	10" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	245.11	124.88
			For Seal Class B, Add	31.22	
			For Seal Class A, Add	66.60	
			For Work In Restricted Working Space, Add	62.44	
23 31 13	13-0867	LF	12" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	140.06	71.36
			For Seal Class B, Add	17.84	
			For Seal Class A, Add	38.06	
			For Work In Restricted Working Space, Add	35.68	
23 31 13	13-0868	LF	12" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	151.75	77.30
			For Seal Class B, Add	19.33	
			For Seal Class A, Add	41.23	
			For Work In Restricted Working Space, Add	38.66	
23 31 13	13-0869	LF	12" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	163.41	83.25
			For Seal Class B, Add	20.81	
			For Seal Class A, Add	44.40	
			For Work In Restricted Working Space, Add	41.63	
23 31 13	13-0870	LF	12" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	175.08	89.20
			For Seal Class B, Add	22.30	
			For Seal Class A, Add	47.57	
			For Work In Restricted Working Space, Add	44.60	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0871	LF 12" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	186.75	95.15
		For Seal Class B, Add	23.79	
		For Seal Class A, Add	50.75	
		For Work In Restricted Working Space, Add	47.57	
23 31 13	13-0872	LF 12" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	198.42	101.10
		For Seal Class B, Add	25.28	
		For Seal Class A, Add	53.92	
		For Work In Restricted Working Space, Add	50.55	
23 31 13	13-0873	LF 12" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	210.11	107.05
		For Seal Class B, Add	26.76	
		For Seal Class A, Add	57.09	
		For Work In Restricted Working Space, Add	53.52	
23 31 13	13-0874	LF 12" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	221.78	113.00
		For Seal Class B, Add	28.25	
		For Seal Class A, Add	60.26	
		For Work In Restricted Working Space, Add	56.50	
23 31 13	13-0875	LF 12" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.45	118.94
		For Seal Class B, Add	29.73	
		For Seal Class A, Add	63.43	
		For Work In Restricted Working Space, Add	59.47	
23 31 13	13-0876	LF 12" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	245.11	124.88
		For Seal Class B, Add	31.22	
		For Seal Class A, Add	66.60	
		For Work In Restricted Working Space, Add	62.44	
23 31 13	13-0877	LF 12" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	256.77	130.83
		For Seal Class B, Add	32.71	
		For Seal Class A, Add	69.77	
		For Work In Restricted Working Space, Add	65.41	
23 31 13	13-0878	LF 12" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.47	136.78
		For Seal Class B, Add	34.19	
		For Seal Class A, Add	72.95	
		For Work In Restricted Working Space, Add	68.39	
23 31 13	13-0879	LF 12" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	280.15	142.72
		For Seal Class B, Add	35.68	
		For Seal Class A, Add	76.12	
		For Work In Restricted Working Space, Add	71.36	
23 31 13	13-0880	LF 14" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	163.41	83.25
		For Seal Class B, Add	20.81	
		For Seal Class A, Add	44.40	
		For Work In Restricted Working Space, Add	41.63	
23 31 13	13-0881	LF 14" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	175.08	89.20
		For Seal Class B, Add	22.30	
		For Seal Class A, Add	47.57	
		For Work In Restricted Working Space, Add	44.60	
23 31 13	13-0882	LF 14" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	186.75	95.15
		For Seal Class B, Add	23.79	
		For Seal Class A, Add	50.75	
		For Work In Restricted Working Space, Add	47.57	
23 31 13	13-0883	LF 14" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	198.42	101.10
		For Seal Class B, Add	25.28	
		For Seal Class A, Add	53.92	
		For Work In Restricted Working Space, Add	50.55	
23 31 13	13-0884	LF 14" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	210.11	107.05
		For Seal Class B, Add	26.76	
		For Seal Class A, Add	57.09	
		For Work In Restricted Working Space, Add	53.52	
23 31 13	13-0885	LF 14" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	221.78	113.00
		For Seal Class B, Add	28.25	
		For Seal Class A, Add	60.26	
		For Work In Restricted Working Space, Add	56.50	
23 31 13	13-0886	LF 14" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.45	118.94
		For Seal Class B, Add	29.73	
		For Seal Class A, Add	63.43	
		For Work In Restricted Working Space, Add	59.47	
23 31 13	13-0887	LF 14" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	245.11	124.88
		For Seal Class B, Add	31.22	
		For Seal Class A, Add	66.60	
		For Work In Restricted Working Space, Add	62.44	
23 31 13	13-0888	LF 14" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	256.77	130.83
		For Seal Class B, Add	32.71	
		For Seal Class A, Add	69.77	
		For Work In Restricted Working Space, Add	65.41	
23 31 13	13-0889	LF 14" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.47	136.78
		For Seal Class B, Add	34.19	
		For Seal Class A, Add	72.95	
		For Work In Restricted Working Space, Add	68.39	
23 31 13	13-0890	LF 14" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	280.15	142.72
		For Seal Class B, Add	35.68	
		For Seal Class A, Add	76.12	
		For Work In Restricted Working Space, Add	71.36	
23 31 13	13-0891	LF 14" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	291.81	148.67
		For Seal Class B, Add	37.17	
		For Seal Class A, Add	79.29	
		For Work In Restricted Working Space, Add	74.34	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0892	LF	16" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	186.75	95.15
			For Seal Class B, Add	23.79	
			For Seal Class A, Add	50.75	
			For Work In Restricted Working Space, Add	47.57	
23 31 13	13-0893	LF	16" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	198.42	101.10
			For Seal Class B, Add	25.28	
			For Seal Class A, Add	53.92	
			For Work In Restricted Working Space, Add	50.55	
23 31 13	13-0894	LF	16" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	210.11	107.05
			For Seal Class B, Add	26.76	
			For Seal Class A, Add	57.09	
			For Work In Restricted Working Space, Add	53.52	
23 31 13	13-0895	LF	16" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	221.78	113.00
			For Seal Class B, Add	28.25	
			For Seal Class A, Add	60.26	
			For Work In Restricted Working Space, Add	56.50	
23 31 13	13-0896	LF	16" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.45	118.94
			For Seal Class B, Add	29.73	
			For Seal Class A, Add	63.43	
			For Work In Restricted Working Space, Add	59.47	
23 31 13	13-0897	LF	16" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	245.11	124.88
			For Seal Class B, Add	31.22	
			For Seal Class A, Add	66.60	
			For Work In Restricted Working Space, Add	62.44	
23 31 13	13-0898	LF	16" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	256.77	130.83
			For Seal Class B, Add	32.71	
			For Seal Class A, Add	69.77	
			For Work In Restricted Working Space, Add	65.41	
23 31 13	13-0899	LF	16" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.47	136.78
			For Seal Class B, Add	34.19	
			For Seal Class A, Add	72.95	
			For Work In Restricted Working Space, Add	68.39	
23 31 13	13-0900	LF	16" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	280.15	142.72
			For Seal Class B, Add	35.68	
			For Seal Class A, Add	76.12	
			For Work In Restricted Working Space, Add	71.36	
23 31 13	13-0901	LF	16" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	291.81	148.67
			For Seal Class B, Add	37.17	
			For Seal Class A, Add	79.29	
			For Work In Restricted Working Space, Add	74.34	
23 31 13	13-0902	LF	16" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	303.47	154.61
			For Seal Class B, Add	38.65	
			For Seal Class A, Add	82.46	
			For Work In Restricted Working Space, Add	77.31	
23 31 13	13-0903	LF	16" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	315.14	160.56
			For Seal Class B, Add	40.14	
			For Seal Class A, Add	85.64	
			For Work In Restricted Working Space, Add	80.28	
23 31 13	13-0904	LF	16" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	326.83	166.52
			For Seal Class B, Add	41.63	
			For Seal Class A, Add	88.81	
			For Work In Restricted Working Space, Add	83.26	
23 31 13	13-0905	LF	16" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	338.50	172.46
			For Seal Class B, Add	43.11	
			For Seal Class A, Add	91.98	
			For Work In Restricted Working Space, Add	86.23	
23 31 13	13-0906	LF	16" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.17	178.40
			For Seal Class B, Add	44.60	
			For Seal Class A, Add	95.15	
			For Work In Restricted Working Space, Add	89.20	
23 31 13	13-0907	LF	18" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	210.11	107.05
			For Seal Class B, Add	26.76	
			For Seal Class A, Add	57.09	
			For Work In Restricted Working Space, Add	53.52	
23 31 13	13-0908	LF	18" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	221.78	113.00
			For Seal Class B, Add	28.25	
			For Seal Class A, Add	60.26	
			For Work In Restricted Working Space, Add	56.50	
23 31 13	13-0909	LF	18" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.45	118.94
			For Seal Class B, Add	29.73	
			For Seal Class A, Add	63.43	
			For Work In Restricted Working Space, Add	59.47	
23 31 13	13-0910	LF	18" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	245.11	124.88
			For Seal Class B, Add	31.22	
			For Seal Class A, Add	66.60	
			For Work In Restricted Working Space, Add	62.44	
23 31 13	13-0911	LF	18" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	256.77	130.83
			For Seal Class B, Add	32.71	
			For Seal Class A, Add	69.77	
			For Work In Restricted Working Space, Add	65.41	
23 31 13	13-0912	LF	18" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.47	136.78
			For Seal Class B, Add	34.19	
			For Seal Class A, Add	72.95	
			For Work In Restricted Working Space, Add	68.39	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0913	LF 18" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	280.15	142.72
		For Seal Class B, Add	35.68	
		For Seal Class A, Add	76.12	
		For Work In Restricted Working Space, Add	71.36	
23 31 13	13-0914	LF 18" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	291.81	148.67
		For Seal Class B, Add	37.17	
		For Seal Class A, Add	79.29	
		For Work In Restricted Working Space, Add	74.34	
23 31 13	13-0915	LF 18" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	303.47	154.61
		For Seal Class B, Add	38.65	
		For Seal Class A, Add	82.46	
		For Work In Restricted Working Space, Add	77.31	
23 31 13	13-0916	LF 18" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	315.14	160.56
		For Seal Class B, Add	40.14	
		For Seal Class A, Add	85.64	
		For Work In Restricted Working Space, Add	80.28	
23 31 13	13-0917	LF 18" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	326.83	166.52
		For Seal Class B, Add	41.63	
		For Seal Class A, Add	88.81	
		For Work In Restricted Working Space, Add	83.26	
23 31 13	13-0918	LF 18" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	338.50	172.46
		For Seal Class B, Add	43.11	
		For Seal Class A, Add	91.98	
		For Work In Restricted Working Space, Add	86.23	
23 31 13	13-0919	LF 18" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.17	178.40
		For Seal Class B, Add	44.60	
		For Seal Class A, Add	95.15	
		For Work In Restricted Working Space, Add	89.20	
23 31 13	13-0920	LF 18" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	361.84	184.36
		For Seal Class B, Add	46.09	
		For Seal Class A, Add	98.32	
		For Work In Restricted Working Space, Add	92.18	
23 31 13	13-0921	LF 18" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	373.53	190.30
		For Seal Class B, Add	47.58	
		For Seal Class A, Add	101.49	
		For Work In Restricted Working Space, Add	95.15	
23 31 13	13-0922	LF 20" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	233.45	118.94
		For Seal Class B, Add	29.73	
		For Seal Class A, Add	63.43	
		For Work In Restricted Working Space, Add	59.47	
23 31 13	13-0923	LF 20" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	245.11	124.88
		For Seal Class B, Add	31.22	
		For Seal Class A, Add	66.60	
		For Work In Restricted Working Space, Add	62.44	
23 31 13	13-0924	LF 20" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	256.77	130.83
		For Seal Class B, Add	32.71	
		For Seal Class A, Add	69.77	
		For Work In Restricted Working Space, Add	65.41	
23 31 13	13-0925	LF 20" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.47	136.78
		For Seal Class B, Add	34.19	
		For Seal Class A, Add	72.95	
		For Work In Restricted Working Space, Add	68.39	
23 31 13	13-0926	LF 20" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	280.15	142.72
		For Seal Class B, Add	35.68	
		For Seal Class A, Add	76.12	
		For Work In Restricted Working Space, Add	71.36	
23 31 13	13-0927	LF 20" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	291.81	148.67
		For Seal Class B, Add	37.17	
		For Seal Class A, Add	79.29	
		For Work In Restricted Working Space, Add	74.34	
23 31 13	13-0928	LF 20" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	303.47	154.61
		For Seal Class B, Add	38.65	
		For Seal Class A, Add	82.46	
		For Work In Restricted Working Space, Add	77.31	
23 31 13	13-0929	LF 20" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	315.14	160.56
		For Seal Class B, Add	40.14	
		For Seal Class A, Add	85.64	
		For Work In Restricted Working Space, Add	80.28	
23 31 13	13-0930	LF 20" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	326.83	166.52
		For Seal Class B, Add	41.63	
		For Seal Class A, Add	88.81	
		For Work In Restricted Working Space, Add	83.26	
23 31 13	13-0931	LF 20" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	338.50	172.46
		For Seal Class B, Add	43.11	
		For Seal Class A, Add	91.98	
		For Work In Restricted Working Space, Add	86.23	
23 31 13	13-0932	LF 20" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.17	178.40
		For Seal Class B, Add	44.60	
		For Seal Class A, Add	95.15	
		For Work In Restricted Working Space, Add	89.20	
23 31 13	13-0933	LF 20" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	361.84	184.36
		For Seal Class B, Add	46.09	
		For Seal Class A, Add	98.32	
		For Work In Restricted Working Space, Add	92.18	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
23 31 13 13-0934	LF	20" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	373.53	190.30
		For Seal Class B, Add	47.58	
		For Seal Class A, Add	101.49	
		For Work In Restricted Working Space, Add	95.15	
23 31 13 13-0935	LF	20" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	385.20	196.24
		For Seal Class B, Add	49.06	
		For Seal Class A, Add	104.67	
		For Work In Restricted Working Space, Add	98.12	
23 31 13 13-0936	LF	20" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	396.85	202.19
		For Seal Class B, Add	50.55	
		For Seal Class A, Add	107.83	
		For Work In Restricted Working Space, Add	101.09	
23 31 13 13-0937	LF	22" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	256.77	130.83
		For Seal Class B, Add	32.71	
		For Seal Class A, Add	69.77	
		For Work In Restricted Working Space, Add	65.41	
23 31 13 13-0938	LF	22" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	268.47	136.78
		For Seal Class B, Add	34.19	
		For Seal Class A, Add	72.95	
		For Work In Restricted Working Space, Add	68.39	
23 31 13 13-0939	LF	22" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	280.15	142.72
		For Seal Class B, Add	35.68	
		For Seal Class A, Add	76.12	
		For Work In Restricted Working Space, Add	71.36	
23 31 13 13-0940	LF	22" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	291.81	148.67
		For Seal Class B, Add	37.17	
		For Seal Class A, Add	79.29	
		For Work In Restricted Working Space, Add	74.34	
23 31 13 13-0941	LF	22" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	303.47	154.61
		For Seal Class B, Add	38.65	
		For Seal Class A, Add	82.46	
		For Work In Restricted Working Space, Add	77.31	
23 31 13 13-0942	LF	22" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	315.14	160.56
		For Seal Class B, Add	40.14	
		For Seal Class A, Add	85.64	
		For Work In Restricted Working Space, Add	80.28	
23 31 13 13-0943	LF	22" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	326.83	166.52
		For Seal Class B, Add	41.63	
		For Seal Class A, Add	88.81	
		For Work In Restricted Working Space, Add	83.26	
23 31 13 13-0944	LF	22" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	338.50	172.46
		For Seal Class B, Add	43.11	
		For Seal Class A, Add	91.98	
		For Work In Restricted Working Space, Add	86.23	
23 31 13 13-0945	LF	22" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.17	178.40
		For Seal Class B, Add	44.60	
		For Seal Class A, Add	95.15	
		For Work In Restricted Working Space, Add	89.20	
23 31 13 13-0946	LF	22" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	361.84	184.36
		For Seal Class B, Add	46.09	
		For Seal Class A, Add	98.32	
		For Work In Restricted Working Space, Add	92.18	
23 31 13 13-0947	LF	22" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	373.53	190.30
		For Seal Class B, Add	47.58	
		For Seal Class A, Add	101.49	
		For Work In Restricted Working Space, Add	95.15	
23 31 13 13-0948	LF	22" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	385.20	196.24
		For Seal Class B, Add	49.06	
		For Seal Class A, Add	104.67	
		For Work In Restricted Working Space, Add	98.12	
23 31 13 13-0949	LF	22" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	396.85	202.19
		For Seal Class B, Add	50.55	
		For Seal Class A, Add	107.83	
		For Work In Restricted Working Space, Add	101.09	
23 31 13 13-0950	LF	22" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	408.53	208.14
		For Seal Class B, Add	52.04	
		For Seal Class A, Add	111.01	
		For Work In Restricted Working Space, Add	104.07	
23 31 13 13-0951	LF	24" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	280.15	142.72
		For Seal Class B, Add	35.68	
		For Seal Class A, Add	76.12	
		For Work In Restricted Working Space, Add	71.36	
23 31 13 13-0952	LF	24" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	291.81	148.67
		For Seal Class B, Add	37.17	
		For Seal Class A, Add	79.29	
		For Work In Restricted Working Space, Add	74.34	
23 31 13 13-0953	LF	24" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	303.47	154.61
		For Seal Class B, Add	38.65	
		For Seal Class A, Add	82.46	
		For Work In Restricted Working Space, Add	77.31	
23 31 13 13-0954	LF	24" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	315.14	160.56
		For Seal Class B, Add	40.14	
		For Seal Class A, Add	85.64	
		For Work In Restricted Working Space, Add	80.28	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0955	LF 24" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	326.83	166.52
		For Seal Class B, Add	41.63	
		For Seal Class A, Add	88.81	
		For Work In Restricted Working Space, Add	83.26	
23 31 13	13-0956	LF 24" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	338.50	172.46
		For Seal Class B, Add	43.11	
		For Seal Class A, Add	91.98	
		For Work In Restricted Working Space, Add	86.23	
23 31 13	13-0957	LF 24" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.17	178.40
		For Seal Class B, Add	44.60	
		For Seal Class A, Add	95.15	
		For Work In Restricted Working Space, Add	89.20	
23 31 13	13-0958	LF 24" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	361.84	184.36
		For Seal Class B, Add	46.09	
		For Seal Class A, Add	98.32	
		For Work In Restricted Working Space, Add	92.18	
23 31 13	13-0959	LF 24" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	373.53	190.30
		For Seal Class B, Add	47.58	
		For Seal Class A, Add	101.49	
		For Work In Restricted Working Space, Add	95.15	
23 31 13	13-0960	LF 24" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	385.20	196.24
		For Seal Class B, Add	49.06	
		For Seal Class A, Add	104.67	
		For Work In Restricted Working Space, Add	98.12	
23 31 13	13-0961	LF 24" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	396.85	202.19
		For Seal Class B, Add	50.55	
		For Seal Class A, Add	107.83	
		For Work In Restricted Working Space, Add	101.09	
23 31 13	13-0962	LF 24" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	408.53	208.14
		For Seal Class B, Add	52.04	
		For Seal Class A, Add	111.01	
		For Work In Restricted Working Space, Add	104.07	
23 31 13	13-0963	LF 24" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	420.20	214.08
		For Seal Class B, Add	53.52	
		For Seal Class A, Add	114.18	
		For Work In Restricted Working Space, Add	107.04	
23 31 13	13-0964	LF 26" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	303.47	154.61
		For Seal Class B, Add	38.65	
		For Seal Class A, Add	82.46	
		For Work In Restricted Working Space, Add	77.31	
23 31 13	13-0965	LF 26" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	315.14	160.56
		For Seal Class B, Add	40.14	
		For Seal Class A, Add	85.64	
		For Work In Restricted Working Space, Add	80.28	
23 31 13	13-0966	LF 26" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	326.83	166.52
		For Seal Class B, Add	41.63	
		For Seal Class A, Add	88.81	
		For Work In Restricted Working Space, Add	83.26	
23 31 13	13-0967	LF 26" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	338.50	172.46
		For Seal Class B, Add	43.11	
		For Seal Class A, Add	91.98	
		For Work In Restricted Working Space, Add	86.23	
23 31 13	13-0968	LF 26" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.17	178.40
		For Seal Class B, Add	44.60	
		For Seal Class A, Add	95.15	
		For Work In Restricted Working Space, Add	89.20	
23 31 13	13-0969	LF 26" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	361.84	184.36
		For Seal Class B, Add	46.09	
		For Seal Class A, Add	98.32	
		For Work In Restricted Working Space, Add	92.18	
23 31 13	13-0970	LF 26" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	373.53	190.30
		For Seal Class B, Add	47.58	
		For Seal Class A, Add	101.49	
		For Work In Restricted Working Space, Add	95.15	
23 31 13	13-0971	LF 26" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	385.20	196.24
		For Seal Class B, Add	49.06	
		For Seal Class A, Add	104.67	
		For Work In Restricted Working Space, Add	98.12	
23 31 13	13-0972	LF 26" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	396.85	202.19
		For Seal Class B, Add	50.55	
		For Seal Class A, Add	107.83	
		For Work In Restricted Working Space, Add	101.09	
23 31 13	13-0973	LF 26" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	408.53	208.14
		For Seal Class B, Add	52.04	
		For Seal Class A, Add	111.01	
		For Work In Restricted Working Space, Add	104.07	
23 31 13	13-0974	LF 26" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	420.20	214.08
		For Seal Class B, Add	53.52	
		For Seal Class A, Add	114.18	
		For Work In Restricted Working Space, Add	107.04	
23 31 13	13-0975	LF 26" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	431.90	220.03
		For Seal Class B, Add	55.01	
		For Seal Class A, Add	117.35	
		For Work In Restricted Working Space, Add	110.02	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0976	LF	28" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	326.83	166.52
			For Seal Class B, Add	41.63	
			For Seal Class A, Add	88.81	
			For Work In Restricted Working Space, Add	83.26	
23 31 13	13-0977	LF	28" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	338.50	172.46
			For Seal Class B, Add	43.11	
			For Seal Class A, Add	91.98	
			For Work In Restricted Working Space, Add	86.23	
23 31 13	13-0978	LF	28" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.17	178.40
			For Seal Class B, Add	44.60	
			For Seal Class A, Add	95.15	
			For Work In Restricted Working Space, Add	89.20	
23 31 13	13-0979	LF	28" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	361.84	184.36
			For Seal Class B, Add	46.09	
			For Seal Class A, Add	98.32	
			For Work In Restricted Working Space, Add	92.18	
23 31 13	13-0980	LF	28" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	373.53	190.30
			For Seal Class B, Add	47.58	
			For Seal Class A, Add	101.49	
			For Work In Restricted Working Space, Add	95.15	
23 31 13	13-0981	LF	28" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	385.20	196.24
			For Seal Class B, Add	49.06	
			For Seal Class A, Add	104.67	
			For Work In Restricted Working Space, Add	98.12	
23 31 13	13-0982	LF	28" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	396.85	202.19
			For Seal Class B, Add	50.55	
			For Seal Class A, Add	107.83	
			For Work In Restricted Working Space, Add	101.09	
23 31 13	13-0983	LF	28" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	408.53	208.14
			For Seal Class B, Add	52.04	
			For Seal Class A, Add	111.01	
			For Work In Restricted Working Space, Add	104.07	
23 31 13	13-0984	LF	28" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	420.20	214.08
			For Seal Class B, Add	53.52	
			For Seal Class A, Add	114.18	
			For Work In Restricted Working Space, Add	107.04	
23 31 13	13-0985	LF	28" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	431.90	220.03
			For Seal Class B, Add	55.01	
			For Seal Class A, Add	117.35	
			For Work In Restricted Working Space, Add	110.02	
23 31 13	13-0986	LF	28" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	443.55	225.97
			For Seal Class B, Add	56.49	
			For Seal Class A, Add	120.52	
			For Work In Restricted Working Space, Add	112.99	
23 31 13	13-0987	LF	30" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.17	178.40
			For Seal Class B, Add	44.60	
			For Seal Class A, Add	95.15	
			For Work In Restricted Working Space, Add	89.20	
23 31 13	13-0988	LF	30" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	361.84	184.36
			For Seal Class B, Add	46.09	
			For Seal Class A, Add	98.32	
			For Work In Restricted Working Space, Add	92.18	
23 31 13	13-0989	LF	30" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	373.53	190.30
			For Seal Class B, Add	47.58	
			For Seal Class A, Add	101.49	
			For Work In Restricted Working Space, Add	95.15	
23 31 13	13-0990	LF	30" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	385.20	196.24
			For Seal Class B, Add	49.06	
			For Seal Class A, Add	104.67	
			For Work In Restricted Working Space, Add	98.12	
23 31 13	13-0991	LF	30" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	396.85	202.19
			For Seal Class B, Add	50.55	
			For Seal Class A, Add	107.83	
			For Work In Restricted Working Space, Add	101.09	
23 31 13	13-0992	LF	30" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	408.53	208.14
			For Seal Class B, Add	52.04	
			For Seal Class A, Add	111.01	
			For Work In Restricted Working Space, Add	104.07	
23 31 13	13-0993	LF	30" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	420.20	214.08
			For Seal Class B, Add	53.52	
			For Seal Class A, Add	114.18	
			For Work In Restricted Working Space, Add	107.04	
23 31 13	13-0994	LF	30" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	431.90	220.03
			For Seal Class B, Add	55.01	
			For Seal Class A, Add	117.35	
			For Work In Restricted Working Space, Add	110.02	
23 31 13	13-0995	LF	30" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	443.55	225.97
			For Seal Class B, Add	56.49	
			For Seal Class A, Add	120.52	
			For Work In Restricted Working Space, Add	112.99	
23 31 13	13-0996	LF	30" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	455.22	231.94
			For Seal Class B, Add	57.98	
			For Seal Class A, Add	123.69	
			For Work In Restricted Working Space, Add	115.96	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0997	LF 32" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	373.53	190.30
		For Seal Class B, Add	47.58	
		For Seal Class A, Add	101.49	
		For Work In Restricted Working Space, Add	95.15	
23 31 13	13-0998	LF 32" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	385.20	196.24
		For Seal Class B, Add	49.06	
		For Seal Class A, Add	104.67	
		For Work In Restricted Working Space, Add	98.12	
23 31 13	13-0999	LF 32" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	396.85	202.19
		For Seal Class B, Add	50.55	
		For Seal Class A, Add	107.83	
		For Work In Restricted Working Space, Add	101.09	
23 31 13	13-1000	LF 32" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	408.53	208.14
		For Seal Class B, Add	52.04	
		For Seal Class A, Add	111.01	
		For Work In Restricted Working Space, Add	104.07	
23 31 13	13-1001	LF 32" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	420.20	214.08
		For Seal Class B, Add	53.52	
		For Seal Class A, Add	114.18	
		For Work In Restricted Working Space, Add	107.04	
23 31 13	13-1002	LF 32" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	431.90	220.03
		For Seal Class B, Add	55.01	
		For Seal Class A, Add	117.35	
		For Work In Restricted Working Space, Add	110.02	
23 31 13	13-1003	LF 32" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	443.55	225.97
		For Seal Class B, Add	56.49	
		For Seal Class A, Add	120.52	
		For Work In Restricted Working Space, Add	112.99	
23 31 13	13-1004	LF 32" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	455.22	231.94
		For Seal Class B, Add	57.98	
		For Seal Class A, Add	123.69	
		For Work In Restricted Working Space, Add	115.96	
23 31 13	13-1005	LF 32" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	466.89	237.88
		For Seal Class B, Add	59.47	
		For Seal Class A, Add	126.87	
		For Work In Restricted Working Space, Add	118.94	
23 31 13	13-1006	LF 34" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	396.85	202.19
		For Seal Class B, Add	50.55	
		For Seal Class A, Add	107.83	
		For Work In Restricted Working Space, Add	101.09	
23 31 13	13-1007	LF 34" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	408.53	208.14
		For Seal Class B, Add	52.04	
		For Seal Class A, Add	111.01	
		For Work In Restricted Working Space, Add	104.07	
23 31 13	13-1008	LF 34" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	420.20	214.08
		For Seal Class B, Add	53.52	
		For Seal Class A, Add	114.18	
		For Work In Restricted Working Space, Add	107.04	
23 31 13	13-1009	LF 34" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	431.90	220.03
		For Seal Class B, Add	55.01	
		For Seal Class A, Add	117.35	
		For Work In Restricted Working Space, Add	110.02	
23 31 13	13-1010	LF 34" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	443.55	225.97
		For Seal Class B, Add	56.49	
		For Seal Class A, Add	120.52	
		For Work In Restricted Working Space, Add	112.99	
23 31 13	13-1011	LF 34" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	455.22	231.94
		For Seal Class B, Add	57.98	
		For Seal Class A, Add	123.69	
		For Work In Restricted Working Space, Add	115.96	
23 31 13	13-1012	LF 34" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	466.89	237.88
		For Seal Class B, Add	59.47	
		For Seal Class A, Add	126.87	
		For Work In Restricted Working Space, Add	118.94	
23 31 13	13-1013	LF 34" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	478.56	243.82
		For Seal Class B, Add	60.96	
		For Seal Class A, Add	130.04	
		For Work In Restricted Working Space, Add	121.91	
23 31 13	13-1014	LF 36" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	420.20	214.08
		For Seal Class B, Add	53.52	
		For Seal Class A, Add	114.18	
		For Work In Restricted Working Space, Add	107.04	
23 31 13	13-1015	LF 36" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	431.90	220.03
		For Seal Class B, Add	55.01	
		For Seal Class A, Add	117.35	
		For Work In Restricted Working Space, Add	110.02	
23 31 13	13-1016	LF 36" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	443.55	225.97
		For Seal Class B, Add	56.49	
		For Seal Class A, Add	120.52	
		For Work In Restricted Working Space, Add	112.99	
23 31 13	13-1017	LF 36" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	455.22	231.94
		For Seal Class B, Add	57.98	
		For Seal Class A, Add	123.69	
		For Work In Restricted Working Space, Add	115.96	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-1018	LF	36" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	466.89	237.88
			For Seal Class B, Add	59.47	
			For Seal Class A, Add	126.87	
			For Work In Restricted Working Space, Add	118.94	
23 31 13	13-1019	LF	36" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	478.56	243.82
			For Seal Class B, Add	60.96	
			For Seal Class A, Add	130.04	
			For Work In Restricted Working Space, Add	121.91	
23 31 13	13-1020	LF	36" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	490.24	249.77
			For Seal Class B, Add	62.44	
			For Seal Class A, Add	133.21	
			For Work In Restricted Working Space, Add	124.88	
23 31 13	13-1021	LF	38" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	443.55	225.97
			For Seal Class B, Add	56.49	
			For Seal Class A, Add	120.52	
			For Work In Restricted Working Space, Add	112.99	
23 31 13	13-1022	LF	38" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	455.22	231.94
			For Seal Class B, Add	57.98	
			For Seal Class A, Add	123.69	
			For Work In Restricted Working Space, Add	115.96	
23 31 13	13-1023	LF	38" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	466.89	237.88
			For Seal Class B, Add	59.47	
			For Seal Class A, Add	126.87	
			For Work In Restricted Working Space, Add	118.94	
23 31 13	13-1024	LF	38" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	478.56	243.82
			For Seal Class B, Add	60.96	
			For Seal Class A, Add	130.04	
			For Work In Restricted Working Space, Add	121.91	
23 31 13	13-1025	LF	38" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	490.24	249.77
			For Seal Class B, Add	62.44	
			For Seal Class A, Add	133.21	
			For Work In Restricted Working Space, Add	124.88	
23 31 13	13-1026	LF	38" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	501.92	255.72
			For Seal Class B, Add	63.93	
			For Seal Class A, Add	136.38	
			For Work In Restricted Working Space, Add	127.86	
23 31 13	13-1027	LF	38" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	513.59	261.66
			For Seal Class B, Add	65.42	
			For Seal Class A, Add	139.56	
			For Work In Restricted Working Space, Add	130.83	
23 31 13	13-1028	LF	40" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	466.89	237.88
			For Seal Class B, Add	59.47	
			For Seal Class A, Add	126.87	
			For Work In Restricted Working Space, Add	118.94	
23 31 13	13-1029	LF	40" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	478.56	243.82
			For Seal Class B, Add	60.96	
			For Seal Class A, Add	130.04	
			For Work In Restricted Working Space, Add	121.91	
23 31 13	13-1030	LF	40" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	490.24	249.77
			For Seal Class B, Add	62.44	
			For Seal Class A, Add	133.21	
			For Work In Restricted Working Space, Add	124.88	
23 31 13	13-1031	LF	40" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	501.92	255.72
			For Seal Class B, Add	63.93	
			For Seal Class A, Add	136.38	
			For Work In Restricted Working Space, Add	127.86	
23 31 13	13-1032	LF	40" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	513.59	261.66
			For Seal Class B, Add	65.42	
			For Seal Class A, Add	139.56	
			For Work In Restricted Working Space, Add	130.83	
23 31 13	13-1033	LF	40" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	525.26	267.61
			For Seal Class B, Add	66.90	
			For Seal Class A, Add	142.73	
			For Work In Restricted Working Space, Add	133.81	
23 31 13	13-1034	LF	40" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	536.91	273.55
			For Seal Class B, Add	68.39	
			For Seal Class A, Add	145.89	
			For Work In Restricted Working Space, Add	136.78	
23 31 13	13-1035	LF	40" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	548.61	279.50
			For Seal Class B, Add	69.87	
			For Seal Class A, Add	149.07	
			For Work In Restricted Working Space, Add	139.75	
23 31 13	13-1036	LF	40" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	560.28	285.45
			For Seal Class B, Add	71.36	
			For Seal Class A, Add	152.24	
			For Work In Restricted Working Space, Add	142.73	
23 31 13	13-1037	LF	42" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	490.24	249.77
			For Seal Class B, Add	62.44	
			For Seal Class A, Add	133.21	
			For Work In Restricted Working Space, Add	124.88	
23 31 13	13-1038	LF	42" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	501.92	255.72
			For Seal Class B, Add	63.93	
			For Seal Class A, Add	136.38	
			For Work In Restricted Working Space, Add	127.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-1039	LF	42" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	513.59	261.66
			For Seal Class B, Add	65.42	
			For Seal Class A, Add	139.56	
			For Work In Restricted Working Space, Add	130.83	
23 31 13	13-1040	LF	42" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	525.26	267.61
			For Seal Class B, Add	66.90	
			For Seal Class A, Add	142.73	
			For Work In Restricted Working Space, Add	133.81	
23 31 13	13-1041	LF	42" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	536.91	273.55
			For Seal Class B, Add	68.39	
			For Seal Class A, Add	145.89	
			For Work In Restricted Working Space, Add	136.78	
23 31 13	13-1042	LF	42" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	548.61	279.50
			For Seal Class B, Add	69.87	
			For Seal Class A, Add	149.07	
			For Work In Restricted Working Space, Add	139.75	
23 31 13	13-1043	LF	42" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	560.28	285.45
			For Seal Class B, Add	71.36	
			For Seal Class A, Add	152.24	
			For Work In Restricted Working Space, Add	142.73	
23 31 13	13-1044	LF	42" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	571.95	291.39
			For Seal Class B, Add	72.85	
			For Seal Class A, Add	155.41	
			For Work In Restricted Working Space, Add	145.70	
23 31 13	13-1045	LF	44" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	513.59	261.66
			For Seal Class B, Add	65.42	
			For Seal Class A, Add	139.56	
			For Work In Restricted Working Space, Add	130.83	
23 31 13	13-1046	LF	44" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	525.26	267.61
			For Seal Class B, Add	66.90	
			For Seal Class A, Add	142.73	
			For Work In Restricted Working Space, Add	133.81	
23 31 13	13-1047	LF	44" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	536.91	273.55
			For Seal Class B, Add	68.39	
			For Seal Class A, Add	145.89	
			For Work In Restricted Working Space, Add	136.78	
23 31 13	13-1048	LF	44" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	548.61	279.50
			For Seal Class B, Add	69.87	
			For Seal Class A, Add	149.07	
			For Work In Restricted Working Space, Add	139.75	
23 31 13	13-1049	LF	44" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	560.28	285.45
			For Seal Class B, Add	71.36	
			For Seal Class A, Add	152.24	
			For Work In Restricted Working Space, Add	142.73	
23 31 13	13-1050	LF	44" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	571.95	291.39
			For Seal Class B, Add	72.85	
			For Seal Class A, Add	155.41	
			For Work In Restricted Working Space, Add	145.70	
23 31 13	13-1051	LF	44" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	583.61	297.34
			For Seal Class B, Add	74.34	
			For Seal Class A, Add	158.58	
			For Work In Restricted Working Space, Add	148.67	
23 31 13	13-1052	LF	46" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	536.91	273.55
			For Seal Class B, Add	68.39	
			For Seal Class A, Add	145.89	
			For Work In Restricted Working Space, Add	136.78	
23 31 13	13-1053	LF	46" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	548.61	279.50
			For Seal Class B, Add	69.87	
			For Seal Class A, Add	149.07	
			For Work In Restricted Working Space, Add	139.75	
23 31 13	13-1054	LF	46" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	560.28	285.45
			For Seal Class B, Add	71.36	
			For Seal Class A, Add	152.24	
			For Work In Restricted Working Space, Add	142.73	
23 31 13	13-1055	LF	46" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	571.95	291.39
			For Seal Class B, Add	72.85	
			For Seal Class A, Add	155.41	
			For Work In Restricted Working Space, Add	145.70	
23 31 13	13-1056	LF	46" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	583.61	297.34
			For Seal Class B, Add	74.34	
			For Seal Class A, Add	158.58	
			For Work In Restricted Working Space, Add	148.67	
23 31 13	13-1057	LF	46" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	605.20	309.24
			For Seal Class B, Add	77.31	
			For Seal Class A, Add	164.93	
			For Work In Restricted Working Space, Add	154.62	
23 31 13	13-1058	LF	46" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	616.89	315.18
			For Seal Class B, Add	78.80	
			For Seal Class A, Add	168.10	
			For Work In Restricted Working Space, Add	157.59	
23 31 13	13-1059	LF	48" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	560.28	285.45
			For Seal Class B, Add	71.36	
			For Seal Class A, Add	152.24	
			For Work In Restricted Working Space, Add	142.73	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1060	LF	48" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	571.95	291.39
		For Seal Class B, Add	.....	72.85	
		For Seal Class A, Add	.....	155.41	
		For Work In Restricted Working Space, Add	.....	145.70	
23 31 13 13-1061	LF	48" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	583.61	297.34
		For Seal Class B, Add	.....	74.34	
		For Seal Class A, Add	.....	158.58	
		For Work In Restricted Working Space, Add	.....	148.67	
23 31 13 13-1062	LF	48" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	595.28	303.30
		For Seal Class B, Add	.....	75.82	
		For Seal Class A, Add	.....	161.75	
		For Work In Restricted Working Space, Add	.....	151.64	
23 31 13 13-1063	LF	48" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	606.98	309.24
		For Seal Class B, Add	.....	77.31	
		For Seal Class A, Add	.....	164.93	
		For Work In Restricted Working Space, Add	.....	154.62	
23 31 13 13-1064	LF	48" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	618.65	315.18
		For Seal Class B, Add	.....	78.80	
		For Seal Class A, Add	.....	168.10	
		For Work In Restricted Working Space, Add	.....	157.59	
23 31 13 13-1065	LF	48" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	630.30	321.13
		For Seal Class B, Add	.....	80.28	
		For Seal Class A, Add	.....	171.27	
		For Work In Restricted Working Space, Add	.....	160.56	
23 31 13 13-1066	LF	50" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	583.61	297.34
		For Seal Class B, Add	.....	74.34	
		For Seal Class A, Add	.....	158.58	
		For Work In Restricted Working Space, Add	.....	148.67	
23 31 13 13-1067	LF	50" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	595.28	303.30
		For Seal Class B, Add	.....	75.82	
		For Seal Class A, Add	.....	161.75	
		For Work In Restricted Working Space, Add	.....	151.64	
23 31 13 13-1068	LF	50" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	606.98	309.24
		For Seal Class B, Add	.....	77.31	
		For Seal Class A, Add	.....	164.93	
		For Work In Restricted Working Space, Add	.....	154.62	
23 31 13 13-1069	LF	50" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	618.65	315.18
		For Seal Class B, Add	.....	78.80	
		For Seal Class A, Add	.....	168.10	
		For Work In Restricted Working Space, Add	.....	157.59	
23 31 13 13-1070	LF	50" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	630.30	321.13
		For Seal Class B, Add	.....	80.28	
		For Seal Class A, Add	.....	171.27	
		For Work In Restricted Working Space, Add	.....	160.56	
23 31 13 13-1071	LF	50" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	641.97	327.08
		For Seal Class B, Add	.....	81.77	
		For Seal Class A, Add	.....	174.44	
		For Work In Restricted Working Space, Add	.....	163.54	
23 31 13 13-1072	LF	52" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	606.98	309.24
		For Seal Class B, Add	.....	77.31	
		For Seal Class A, Add	.....	164.93	
		For Work In Restricted Working Space, Add	.....	154.62	
23 31 13 13-1073	LF	52" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	618.65	315.18
		For Seal Class B, Add	.....	78.80	
		For Seal Class A, Add	.....	168.10	
		For Work In Restricted Working Space, Add	.....	157.59	
23 31 13 13-1074	LF	52" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	630.30	321.13
		For Seal Class B, Add	.....	80.28	
		For Seal Class A, Add	.....	171.27	
		For Work In Restricted Working Space, Add	.....	160.56	
23 31 13 13-1075	LF	52" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	641.97	327.08
		For Seal Class B, Add	.....	81.77	
		For Seal Class A, Add	.....	174.44	
		For Work In Restricted Working Space, Add	.....	163.54	
23 31 13 13-1076	LF	52" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	653.65	333.02
		For Seal Class B, Add	.....	83.26	
		For Seal Class A, Add	.....	177.62	
		For Work In Restricted Working Space, Add	.....	166.52	
23 31 13 13-1077	LF	54" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	630.30	321.13
		For Seal Class B, Add	.....	80.28	
		For Seal Class A, Add	.....	171.27	
		For Work In Restricted Working Space, Add	.....	160.56	
23 31 13 13-1078	LF	54" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	641.97	327.08
		For Seal Class B, Add	.....	81.77	
		For Seal Class A, Add	.....	174.44	
		For Work In Restricted Working Space, Add	.....	163.54	
23 31 13 13-1079	LF	54" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	653.65	333.02
		For Seal Class B, Add	.....	83.26	
		For Seal Class A, Add	.....	177.62	
		For Work In Restricted Working Space, Add	.....	166.52	
23 31 13 13-1080	LF	54" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	.....	665.34	338.97
		For Seal Class B, Add	.....	84.74	
		For Seal Class A, Add	.....	180.79	
		For Work In Restricted Working Space, Add	.....	169.49	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-1081	LF 54" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	677.00	344.91
		For Seal Class B, Add	86.23	
		For Seal Class A, Add	183.96	
		For Work In Restricted Working Space, Add	172.46	
23 31 13	13-1082	LF 54" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	688.66	350.86
		For Seal Class B, Add	87.72	
		For Seal Class A, Add	187.13	
		For Work In Restricted Working Space, Add	175.43	
23 31 13	13-1083	LF 56" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	653.65	333.02
		For Seal Class B, Add	83.26	
		For Seal Class A, Add	177.62	
		For Work In Restricted Working Space, Add	166.52	
23 31 13	13-1084	LF 56" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	665.34	338.97
		For Seal Class B, Add	84.74	
		For Seal Class A, Add	180.79	
		For Work In Restricted Working Space, Add	169.49	
23 31 13	13-1085	LF 56" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	677.00	344.91
		For Seal Class B, Add	86.23	
		For Seal Class A, Add	183.96	
		For Work In Restricted Working Space, Add	172.46	
23 31 13	13-1086	LF 56" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	688.66	350.86
		For Seal Class B, Add	87.72	
		For Seal Class A, Add	187.13	
		For Work In Restricted Working Space, Add	175.43	
23 31 13	13-1087	LF 56" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	700.34	356.81
		For Seal Class B, Add	89.20	
		For Seal Class A, Add	190.30	
		For Work In Restricted Working Space, Add	178.41	
23 31 13	13-1088	LF 58" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	677.00	344.91
		For Seal Class B, Add	86.23	
		For Seal Class A, Add	183.96	
		For Work In Restricted Working Space, Add	172.46	
23 31 13	13-1089	LF 58" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	688.66	350.86
		For Seal Class B, Add	87.72	
		For Seal Class A, Add	187.13	
		For Work In Restricted Working Space, Add	175.43	
23 31 13	13-1090	LF 58" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	700.34	356.81
		For Seal Class B, Add	89.20	
		For Seal Class A, Add	190.30	
		For Work In Restricted Working Space, Add	178.41	
23 31 13	13-1091	LF 58" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	712.01	362.76
		For Seal Class B, Add	90.69	
		For Seal Class A, Add	193.47	
		For Work In Restricted Working Space, Add	181.38	
23 31 13	13-1092	LF 58" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	723.69	368.70
		For Seal Class B, Add	92.18	
		For Seal Class A, Add	196.64	
		For Work In Restricted Working Space, Add	184.35	
23 31 13	13-1093	LF 60" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	700.34	356.81
		For Seal Class B, Add	89.20	
		For Seal Class A, Add	190.30	
		For Work In Restricted Working Space, Add	178.41	
23 31 13	13-1094	LF 60" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	712.01	362.76
		For Seal Class B, Add	90.69	
		For Seal Class A, Add	193.47	
		For Work In Restricted Working Space, Add	181.38	
23 31 13	13-1095	LF 60" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	723.69	368.70
		For Seal Class B, Add	92.18	
		For Seal Class A, Add	196.64	
		For Work In Restricted Working Space, Add	184.35	
23 31 13	13-1096	LF 60" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	735.36	374.66
		For Seal Class B, Add	93.66	
		For Seal Class A, Add	199.81	
		For Work In Restricted Working Space, Add	187.33	
23 31 13	13-1097	LF 60" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	747.04	380.60
		For Seal Class B, Add	95.15	
		For Seal Class A, Add	202.99	
		For Work In Restricted Working Space, Add	190.30	
23 31 13	13-1098	LF 62" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	723.69	368.70
		For Seal Class B, Add	92.18	
		For Seal Class A, Add	196.64	
		For Work In Restricted Working Space, Add	184.35	
23 31 13	13-1099	LF 62" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	735.36	374.66
		For Seal Class B, Add	93.66	
		For Seal Class A, Add	199.81	
		For Work In Restricted Working Space, Add	187.33	
23 31 13	13-1100	LF 62" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	747.04	380.60
		For Seal Class B, Add	95.15	
		For Seal Class A, Add	202.99	
		For Work In Restricted Working Space, Add	190.30	
23 31 13	13-1101	LF 62" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	758.70	386.54
		For Seal Class B, Add	96.64	
		For Seal Class A, Add	206.16	
		For Work In Restricted Working Space, Add	193.28	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1102	LF	62" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	770.36	392.49	
		For Seal Class B, Add	98.12		
		For Seal Class A, Add	209.33		
		For Work In Restricted Working Space, Add	196.25		
23 31 13 13-1103	LF	64" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	747.04	380.60	
		For Seal Class B, Add	95.15		
		For Seal Class A, Add	202.99		
		For Work In Restricted Working Space, Add	190.30		
23 31 13 13-1104	LF	64" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	758.70	386.54	
		For Seal Class B, Add	96.64		
		For Seal Class A, Add	206.16		
		For Work In Restricted Working Space, Add	193.28		
23 31 13 13-1105	LF	64" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	770.36	392.49	
		For Seal Class B, Add	98.12		
		For Seal Class A, Add	209.33		
		For Work In Restricted Working Space, Add	196.25		
23 31 13 13-1106	LF	64" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	782.05	398.44	
		For Seal Class B, Add	99.61		
		For Seal Class A, Add	212.50		
		For Work In Restricted Working Space, Add	199.22		
23 31 13 13-1107	LF	66" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	770.36	392.49	
		For Seal Class B, Add	98.12		
		For Seal Class A, Add	209.33		
		For Work In Restricted Working Space, Add	196.25		
23 31 13 13-1108	LF	66" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	782.05	398.44	
		For Seal Class B, Add	99.61		
		For Seal Class A, Add	212.50		
		For Work In Restricted Working Space, Add	199.22		
23 31 13 13-1109	LF	66" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	793.73	404.39	
		For Seal Class B, Add	101.10		
		For Seal Class A, Add	215.67		
		For Work In Restricted Working Space, Add	202.19		
23 31 13 13-1110	LF	66" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	805.38	410.33	
		For Seal Class B, Add	102.58		
		For Seal Class A, Add	218.84		
		For Work In Restricted Working Space, Add	205.16		
23 31 13 13-1111	LF	68" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	793.73	404.39	
		For Seal Class B, Add	101.10		
		For Seal Class A, Add	215.67		
		For Work In Restricted Working Space, Add	202.19		
23 31 13 13-1112	LF	68" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	805.38	410.33	
		For Seal Class B, Add	102.58		
		For Seal Class A, Add	218.84		
		For Work In Restricted Working Space, Add	205.16		
23 31 13 13-1113	LF	68" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	817.06	416.27	
		For Seal Class B, Add	104.07		
		For Seal Class A, Add	222.02		
		For Work In Restricted Working Space, Add	208.14		
23 31 13 13-1114	LF	68" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	828.72	422.23	
		For Seal Class B, Add	105.56		
		For Seal Class A, Add	225.19		
		For Work In Restricted Working Space, Add	211.11		
23 31 13 13-1115	LF	70" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	817.06	416.27	
		For Seal Class B, Add	104.07		
		For Seal Class A, Add	222.02		
		For Work In Restricted Working Space, Add	208.14		
23 31 13 13-1116	LF	70" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	828.72	422.23	
		For Seal Class B, Add	105.56		
		For Seal Class A, Add	225.19		
		For Work In Restricted Working Space, Add	211.11		
23 31 13 13-1117	LF	70" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	840.43	428.18	
		For Seal Class B, Add	107.04		
		For Seal Class A, Add	228.36		
		For Work In Restricted Working Space, Add	214.09		
23 31 13 13-1118	LF	70" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	852.09	434.12	
		For Seal Class B, Add	108.53		
		For Seal Class A, Add	231.53		
		For Work In Restricted Working Space, Add	217.06		
23 31 13 13-1119	LF	70" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	863.75	440.07	
		For Seal Class B, Add	110.02		
		For Seal Class A, Add	234.70		
		For Work In Restricted Working Space, Add	220.03		
23 31 13 13-1120	LF	70" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	875.41	446.02	
		For Seal Class B, Add	111.50		
		For Seal Class A, Add	237.87		
		For Work In Restricted Working Space, Add	223.01		
23 31 13 13-1121	LF	70" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	887.10	451.96	
		For Seal Class B, Add	112.99		
		For Seal Class A, Add	241.05		
		For Work In Restricted Working Space, Add	225.98		
23 31 13 13-1122	LF	70" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	898.79	457.91	
		For Seal Class B, Add	114.48		
		For Seal Class A, Add	244.22		
		For Work In Restricted Working Space, Add	228.96		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-1123	LF 70" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	910.45	463.85
		For Seal Class B, Add	115.96	
		For Seal Class A, Add	247.39	
		For Work In Restricted Working Space, Add	231.93	
23 31 13	13-1124	LF 72" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	840.43	428.18
		For Seal Class B, Add	107.04	
		For Seal Class A, Add	228.36	
		For Work In Restricted Working Space, Add	214.09	
23 31 13	13-1125	LF 72" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	852.09	434.12
		For Seal Class B, Add	108.53	
		For Seal Class A, Add	231.53	
		For Work In Restricted Working Space, Add	217.06	
23 31 13	13-1126	LF 72" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	863.75	440.07
		For Seal Class B, Add	110.02	
		For Seal Class A, Add	234.70	
		For Work In Restricted Working Space, Add	220.03	
23 31 13	13-1127	LF 72" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	875.41	446.02
		For Seal Class B, Add	111.50	
		For Seal Class A, Add	237.87	
		For Work In Restricted Working Space, Add	223.01	
23 31 13	13-1128	LF 72" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	887.10	451.96
		For Seal Class B, Add	112.99	
		For Seal Class A, Add	241.05	
		For Work In Restricted Working Space, Add	225.98	
23 31 13	13-1129	LF 72" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	898.79	457.91
		For Seal Class B, Add	114.48	
		For Seal Class A, Add	244.22	
		For Work In Restricted Working Space, Add	228.96	
23 31 13	13-1130	LF 72" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	910.45	463.85
		For Seal Class B, Add	115.96	
		For Seal Class A, Add	247.39	
		For Work In Restricted Working Space, Add	231.93	
23 31 13	13-1131	LF 72" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	922.11	469.80
		For Seal Class B, Add	117.45	
		For Seal Class A, Add	250.56	
		For Work In Restricted Working Space, Add	234.90	
23 31 13	13-1132	LF 74" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	863.75	440.07
		For Seal Class B, Add	110.02	
		For Seal Class A, Add	234.70	
		For Work In Restricted Working Space, Add	220.03	
23 31 13	13-1133	LF 74" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	875.41	446.02
		For Seal Class B, Add	111.50	
		For Seal Class A, Add	237.87	
		For Work In Restricted Working Space, Add	223.01	
23 31 13	13-1134	LF 74" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	887.10	451.96
		For Seal Class B, Add	112.99	
		For Seal Class A, Add	241.05	
		For Work In Restricted Working Space, Add	225.98	
23 31 13	13-1135	LF 74" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	898.79	457.91
		For Seal Class B, Add	114.48	
		For Seal Class A, Add	244.22	
		For Work In Restricted Working Space, Add	228.96	
23 31 13	13-1136	LF 74" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	910.45	463.85
		For Seal Class B, Add	115.96	
		For Seal Class A, Add	247.39	
		For Work In Restricted Working Space, Add	231.93	
23 31 13	13-1137	LF 74" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	922.11	469.80
		For Seal Class B, Add	117.45	
		For Seal Class A, Add	250.56	
		For Work In Restricted Working Space, Add	234.90	
23 31 13	13-1138	LF 74" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	933.78	475.75
		For Seal Class B, Add	118.94	
		For Seal Class A, Add	253.73	
		For Work In Restricted Working Space, Add	237.87	
23 31 13	13-1139	LF 76" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	887.10	451.96
		For Seal Class B, Add	112.99	
		For Seal Class A, Add	241.05	
		For Work In Restricted Working Space, Add	225.98	
23 31 13	13-1140	LF 76" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	898.79	457.91
		For Seal Class B, Add	114.48	
		For Seal Class A, Add	244.22	
		For Work In Restricted Working Space, Add	228.96	
23 31 13	13-1141	LF 76" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	910.45	463.85
		For Seal Class B, Add	115.96	
		For Seal Class A, Add	247.39	
		For Work In Restricted Working Space, Add	231.93	
23 31 13	13-1142	LF 76" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	922.11	469.80
		For Seal Class B, Add	117.45	
		For Seal Class A, Add	250.56	
		For Work In Restricted Working Space, Add	234.90	
23 31 13	13-1143	LF 76" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	933.78	475.75
		For Seal Class B, Add	118.94	
		For Seal Class A, Add	253.73	
		For Work In Restricted Working Space, Add	237.87	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
23 31 13 13-1144	LF	76" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	945.44	481.69
		For Seal Class B, Add	120.42	
		For Seal Class A, Add	256.90	
		For Work In Restricted Working Space, Add	240.85	
23 31 13 13-1145	LF	78" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	910.45	463.85
		For Seal Class B, Add	115.96	
		For Seal Class A, Add	247.39	
		For Work In Restricted Working Space, Add	231.93	
23 31 13 13-1146	LF	78" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	922.11	469.80
		For Seal Class B, Add	117.45	
		For Seal Class A, Add	250.56	
		For Work In Restricted Working Space, Add	234.90	
23 31 13 13-1147	LF	78" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	933.78	475.75
		For Seal Class B, Add	118.94	
		For Seal Class A, Add	253.73	
		For Work In Restricted Working Space, Add	237.87	
23 31 13 13-1148	LF	78" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	945.44	481.69
		For Seal Class B, Add	120.42	
		For Seal Class A, Add	256.90	
		For Work In Restricted Working Space, Add	240.85	
23 31 13 13-1149	LF	78" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	957.13	487.63
		For Seal Class B, Add	121.91	
		For Seal Class A, Add	260.07	
		For Work In Restricted Working Space, Add	243.82	
23 31 13 13-1150	LF	80" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	933.78	475.75
		For Seal Class B, Add	118.94	
		For Seal Class A, Add	253.73	
		For Work In Restricted Working Space, Add	237.87	
23 31 13 13-1151	LF	80" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	945.44	481.69
		For Seal Class B, Add	120.42	
		For Seal Class A, Add	256.90	
		For Work In Restricted Working Space, Add	240.85	
23 31 13 13-1152	LF	80" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	957.13	487.63
		For Seal Class B, Add	121.91	
		For Seal Class A, Add	260.07	
		For Work In Restricted Working Space, Add	243.82	
23 31 13 13-1153	LF	80" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	978.72	499.54
		For Seal Class B, Add	124.88	
		For Seal Class A, Add	266.42	
		For Work In Restricted Working Space, Add	249.77	
23 31 13 13-1154	LF	82" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	957.13	487.63
		For Seal Class B, Add	121.91	
		For Seal Class A, Add	260.07	
		For Work In Restricted Working Space, Add	243.82	
23 31 13 13-1155	LF	82" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	968.81	493.60
		For Seal Class B, Add	123.40	
		For Seal Class A, Add	263.25	
		For Work In Restricted Working Space, Add	246.80	
23 31 13 13-1156	LF	82" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	980.48	499.54
		For Seal Class B, Add	124.88	
		For Seal Class A, Add	266.42	
		For Work In Restricted Working Space, Add	249.77	
23 31 13 13-1157	LF	84" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	980.48	499.54
		For Seal Class B, Add	124.88	
		For Seal Class A, Add	266.42	
		For Work In Restricted Working Space, Add	249.77	
23 31 13 13-1158	LF	84" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	992.15	505.48
		For Seal Class B, Add	126.37	
		For Seal Class A, Add	269.59	
		For Work In Restricted Working Space, Add	252.74	
23 31 13 13-1159	LF	86" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	1,003.81	511.43
		For Seal Class B, Add	127.86	
		For Seal Class A, Add	272.76	
		For Work In Restricted Working Space, Add	255.71	

23 31 13 16 Round and Flat-Oval Spiral Ducts (23 31 13)

23 31 13 16-0001 Low Pressure Round And Flat-Oval Duct (23 31 13 16)

Note: 7" diameter round = 4" x 11.85" flat oval. 8" diameter round = 4" x 15" flat oval. 10" diameter round = 4" x 25.99" or 6" x 15.42" or 8" x 11.14" flat oval. 12" diameter round = 6" x 23.28" or 8" x 15.85" flat oval. 14" diameter round = 6" x 32.70" or 8" x 22.14" or 10" x 17.85 or 12" x 15.14" flat oval. 16" diameter round = 6" x 43.70" or 8" x 29.99" or 10" x 24.14" or 12" x 19.85" or 14" x 17.14" flat oval. 18" diameter round = 6" x 59.41" or 8" x 39.42" or 10" x 30.42" or 12" x 24.57" or 14" x 21.85" or 16" x 19.14" flat oval. 20" diameter round = 8" x 51.98" or 10" x 38.27" or 12" x 30.85" or 14" x 26.57" or 16" x 23.85" or 18" x 21.14" flat oval. Includes sealing the joints by tape, mastic, or spray on sealer.

23 31 13 16-0002 Galvanized Sheet Metal Round And Flat-Oval Ducts (23 31 13 16-0001)

Note: Includes straps and supports.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0003	LF		4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	8.42	2.92
			For Seal Class B, Add	0.89	
			For Seal Class A, Add	2.38	
			For Up To 20', Add	0.74	
			For >20' To 50', Add	0.30	
			For >200' To 500', Deduct	-0.18	
			For >500', Deduct	-0.31	
			For 28 Gauge, Deduct	-0.34	
			For 24 Gauge, Add	0.34	
			For 22 Gauge, Add	0.68	
			For 20 Gauge, Add	1.02	
			For 18 Gauge, Add	1.35	
			For 16 Gauge, Add	1.66	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.82	
			For Work In Restricted Working Space, Add	1.79	
			For Elevated Installation >10' To 15' Above Floor, Add	0.60	
			For Elevated Installation >15' To 20' Above Floor, Add	1.19	
			For Elevated Installation >20' To 25' Above Floor, Add	1.49	
			For Elevated Installation >25' To 30' Above Floor, Add	2.09	
			For Elevated Installation >30' To 35' Above Floor, Add	2.38	
			For Elevated Installation >35' To 40' Above Floor, Add	2.98	
			For Elevated Installation >40' Above Floor, Add	3.28	
23 31 13 16-0004	LF		5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	9.73	3.31
			For Seal Class B, Add	0.99	
			For Seal Class A, Add	2.65	
			For Up To 20', Add	0.93	
			For >20' To 50', Add	0.37	
			For >200' To 500', Deduct	-0.23	
			For >500', Deduct	-0.39	
			For 28 Gauge, Deduct	-0.43	
			For 24 Gauge, Add	0.43	
			For 22 Gauge, Add	0.86	
			For 20 Gauge, Add	1.29	
			For 18 Gauge, Add	1.71	
			For 16 Gauge, Add	2.10	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.30	
			For Work In Restricted Working Space, Add	1.99	
			For Elevated Installation >10' To 15' Above Floor, Add	0.66	
			For Elevated Installation >15' To 20' Above Floor, Add	1.32	
			For Elevated Installation >20' To 25' Above Floor, Add	1.66	
			For Elevated Installation >25' To 30' Above Floor, Add	2.32	
			For Elevated Installation >30' To 35' Above Floor, Add	2.65	
			For Elevated Installation >35' To 40' Above Floor, Add	3.31	
			For Elevated Installation >40' Above Floor, Add	3.64	
23 31 13 16-0005	LF		6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	11.04	3.97
			For Seal Class B, Add	1.12	
			For Seal Class A, Add	2.98	
			For Up To 20', Add	1.08	
			For >20' To 50', Add	0.43	
			For >200' To 500', Deduct	-0.27	
			For >500', Deduct	-0.45	
			For 28 Gauge, Deduct	-0.50	
			For 24 Gauge, Add	0.50	
			For 22 Gauge, Add	0.99	
			For 20 Gauge, Add	1.49	
			For 18 Gauge, Add	1.97	
			For 16 Gauge, Add	2.42	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.66	
			For Work In Restricted Working Space, Add	2.24	
			For Elevated Installation >10' To 15' Above Floor, Add	0.75	
			For Elevated Installation >15' To 20' Above Floor, Add	1.49	
			For Elevated Installation >20' To 25' Above Floor, Add	1.86	
			For Elevated Installation >25' To 30' Above Floor, Add	2.61	
			For Elevated Installation >30' To 35' Above Floor, Add	2.98	
			For Elevated Installation >35' To 40' Above Floor, Add	3.73	
			For Elevated Installation >40' Above Floor, Add	4.10	
23 31 13 16-0006	LF		7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	12.38	4.64
			For Seal Class B, Add	1.28	
			For Seal Class A, Add	3.40	
			For Up To 20', Add	1.16	
			For >20' To 50', Add	0.46	
			For >200' To 500', Deduct	-0.29	
			For >500', Deduct	-0.48	
			For 28 Gauge, Deduct	-0.54	
			For 24 Gauge, Add	0.53	
			For 22 Gauge, Add	1.07	
			For 20 Gauge, Add	1.60	
			For 18 Gauge, Add	2.13	
			For 16 Gauge, Add	2.61	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.86	
			For Work In Restricted Working Space, Add	2.55	
			For Elevated Installation >10' To 15' Above Floor, Add	0.85	
			For Elevated Installation >15' To 20' Above Floor, Add	1.70	
			For Elevated Installation >20' To 25' Above Floor, Add	2.13	
			For Elevated Installation >25' To 30' Above Floor, Add	2.98	
			For Elevated Installation >30' To 35' Above Floor, Add	3.40	
			For Elevated Installation >35' To 40' Above Floor, Add	4.26	
			For Elevated Installation >40' Above Floor, Add	4.68	



Heating, Ventilating, and Air-Conditioning (HVAC)		23	23
HVAC Air Distribution		23 30	
HVAC Ducts and Casings		23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0007	LF		8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	14.08	5.29
			For Seal Class B, Add	1.49	
			For Seal Class A, Add	3.97	
			For Up To 20', Add	1.25	
			For >20' To 50', Add	0.50	
			For >200' To 500', Deduct	-0.31	
			For >500', Deduct	-0.52	
			For 28 Gauge, Deduct	-0.57	
			For 24 Gauge, Add	0.57	
			For 22 Gauge, Add	1.14	
			For 20 Gauge, Add	1.72	
			For 18 Gauge, Add	2.28	
			For 16 Gauge, Add	2.80	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.07	
			For Work In Restricted Working Space, Add	2.98	
			For Elevated Installation >10' To 15' Above Floor, Add	0.99	
			For Elevated Installation >15' To 20' Above Floor, Add	1.99	
			For Elevated Installation >20' To 25' Above Floor, Add	2.48	
			For Elevated Installation >25' To 30' Above Floor, Add	3.48	
			For Elevated Installation >30' To 35' Above Floor, Add	3.97	
			For Elevated Installation >35' To 40' Above Floor, Add	4.97	
			For Elevated Installation >40' Above Floor, Add	5.46	
23 31 13 16-0008	LF		10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	17.97	6.62
			For Seal Class B, Add	1.79	
			For Seal Class A, Add	4.77	
			For Up To 20', Add	1.82	
			For >20' To 50', Add	0.73	
			For >200' To 500', Deduct	-0.45	
			For >500', Deduct	-0.76	
			For 28 Gauge, Deduct	-0.84	
			For 24 Gauge, Add	0.83	
			For 22 Gauge, Add	1.67	
			For 20 Gauge, Add	2.50	
			For 18 Gauge, Add	3.33	
			For 16 Gauge, Add	4.08	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.48	
			For Work In Restricted Working Space, Add	3.58	
			For Elevated Installation >10' To 15' Above Floor, Add	1.19	
			For Elevated Installation >15' To 20' Above Floor, Add	2.38	
			For Elevated Installation >20' To 25' Above Floor, Add	2.98	
			For Elevated Installation >25' To 30' Above Floor, Add	4.17	
			For Elevated Installation >30' To 35' Above Floor, Add	4.77	
			For Elevated Installation >35' To 40' Above Floor, Add	5.96	
			For Elevated Installation >40' Above Floor, Add	6.56	
23 31 13 16-0009	LF		12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	21.97	8.88
			For Seal Class B, Add	2.24	
			For Seal Class A, Add	5.96	
			For Up To 20', Add	2.12	
			For >20' To 50', Add	0.85	
			For >200' To 500', Deduct	-0.53	
			For >500', Deduct	-0.88	
			For 28 Gauge, Deduct	-0.98	
			For 24 Gauge, Add	0.98	
			For 22 Gauge, Add	1.95	
			For 20 Gauge, Add	2.93	
			For 18 Gauge, Add	3.89	
			For 16 Gauge, Add	4.77	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.23	
			For Work In Restricted Working Space, Add	4.47	
			For Elevated Installation >10' To 15' Above Floor, Add	1.49	
			For Elevated Installation >15' To 20' Above Floor, Add	2.98	
			For Elevated Installation >20' To 25' Above Floor, Add	3.73	
			For Elevated Installation >25' To 30' Above Floor, Add	5.22	
			For Elevated Installation >30' To 35' Above Floor, Add	5.96	
			For Elevated Installation >35' To 40' Above Floor, Add	7.45	
			For Elevated Installation >40' Above Floor, Add	8.20	
23 31 13 16-0010	LF		14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	26.66	13.24
			For Seal Class B, Add	2.79	
			For Seal Class A, Add	7.45	
			For Up To 20', Add	2.41	
			For >20' To 50', Add	0.96	
			For >200' To 500', Deduct	-0.60	
			For >500', Deduct	-1.00	
			For 28 Gauge, Deduct	-1.11	
			For 24 Gauge, Add	1.11	
			For 22 Gauge, Add	2.21	
			For 20 Gauge, Add	3.32	
			For 18 Gauge, Add	4.42	
			For 16 Gauge, Add	5.42	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.94	
			For Work In Restricted Working Space, Add	5.59	
			For Elevated Installation >10' To 15' Above Floor, Add	1.86	
			For Elevated Installation >15' To 20' Above Floor, Add	3.73	
			For Elevated Installation >20' To 25' Above Floor, Add	4.66	
			For Elevated Installation >25' To 30' Above Floor, Add	6.52	
			For Elevated Installation >30' To 35' Above Floor, Add	7.45	
			For Elevated Installation >35' To 40' Above Floor, Add	9.32	
			For Elevated Installation >40' Above Floor, Add	10.25	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0011	LF		16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct	35.87	17.75
			For Seal Class B, Add	3.73	
			For Seal Class A, Add	9.94	
			For Up To 20', Add	3.31	
			For >20' To 50', Add	1.32	
			For >200' To 500', Deduct	-0.83	
			For >500', Deduct	-1.38	
			For 28 Gauge, Deduct	-1.53	
			For 24 Gauge, Add	1.52	
			For 22 Gauge, Add	3.04	
			For 20 Gauge, Add	4.57	
			For 18 Gauge, Add	6.07	
			For 16 Gauge, Add	7.45	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.16	
			For Work In Restricted Working Space, Add	7.45	
			For Elevated Installation >10' To 15' Above Floor, Add	2.48	
			For Elevated Installation >15' To 20' Above Floor, Add	4.97	
			For Elevated Installation >20' To 25' Above Floor, Add	6.21	
			For Elevated Installation >25' To 30' Above Floor, Add	8.69	
			For Elevated Installation >30' To 35' Above Floor, Add	9.94	
			For Elevated Installation >35' To 40' Above Floor, Add	12.42	
			For Elevated Installation >40' Above Floor, Add	13.66	
23 31 13 16-0012	LF		18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct	51.12	21.32
			For Up To 20', Add	6.40	
			For >20' To 50', Add	2.56	
			For >200' To 500', Deduct	-1.60	
			For >500', Deduct	-2.67	
			For 28 Gauge, Deduct	-2.95	
			For 24 Gauge, Add	2.94	
			For 22 Gauge, Add	5.87	
			For 20 Gauge, Add	8.83	
			For 18 Gauge, Add	11.73	
			For 16 Gauge, Add	14.39	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	15.78	
			For Work In Restricted Working Space, Add	8.94	
			For Elevated Installation >10' To 15' Above Floor, Add	2.98	
			For Elevated Installation >15' To 20' Above Floor, Add	5.96	
			For Elevated Installation >20' To 25' Above Floor, Add	7.45	
			For Elevated Installation >25' To 30' Above Floor, Add	10.43	
			For Elevated Installation >30' To 35' Above Floor, Add	11.92	
			For Elevated Installation >35' To 40' Above Floor, Add	14.90	
			For Elevated Installation >40' Above Floor, Add	16.39	
23 31 13 16-0013	LF		20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct	58.24	24.63
			For Up To 20', Add	7.14	
			For >20' To 50', Add	2.86	
			For >200' To 500', Deduct	-1.79	
			For >500', Deduct	-2.98	
			For 28 Gauge, Deduct	-3.30	
			For 24 Gauge, Add	3.28	
			For 22 Gauge, Add	6.56	
			For 20 Gauge, Add	9.85	
			For 18 Gauge, Add	13.09	
			For 16 Gauge, Add	16.07	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	17.61	
			For Work In Restricted Working Space, Add	10.33	
			For Elevated Installation >10' To 15' Above Floor, Add	3.44	
			For Elevated Installation >15' To 20' Above Floor, Add	6.89	
			For Elevated Installation >20' To 25' Above Floor, Add	8.61	
			For Elevated Installation >25' To 30' Above Floor, Add	12.05	
			For Elevated Installation >30' To 35' Above Floor, Add	13.78	
			For Elevated Installation >35' To 40' Above Floor, Add	17.22	
			For Elevated Installation >40' Above Floor, Add	18.94	
23 31 13 16-0014			Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbows (23 31 13 16-0001)		
			Note: Up to 90 degree.		
23 31 13 16-0015	EA		4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	42.38	17.68
			For Seal Class B, Add	5.30	
			For Seal Class A, Add	14.14	
			For 28 Gauge, Deduct	-0.97	
			For 24 Gauge, Add	0.97	
			For 22 Gauge, Add	1.93	
			For 20 Gauge, Add	2.91	
			For 18 Gauge, Add	3.86	
			For 16 Gauge, Add	4.74	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.19	
			For Work In Restricted Working Space, Add	10.61	
			For Elevated Installation >10' To 15' Above Floor, Add	3.54	
			For Elevated Installation >15' To 20' Above Floor, Add	7.07	
			For Elevated Installation >20' To 25' Above Floor, Add	8.84	
			For Elevated Installation >25' To 30' Above Floor, Add	12.38	
			For Elevated Installation >30' To 35' Above Floor, Add	14.14	
			For Elevated Installation >35' To 40' Above Floor, Add	17.68	
			For Elevated Installation >40' Above Floor, Add	19.45	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
23 31 13 16-0016	EA	5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	48.44	20.40
		For Seal Class B, Add	6.12	
		For Seal Class A, Add	16.32	
		For 28 Gauge, Deduct	-1.06	
		For 24 Gauge, Add	1.05	
		For 22 Gauge, Add	2.10	
		For 20 Gauge, Add	3.16	
		For 18 Gauge, Add	4.20	
		For 16 Gauge, Add	5.16	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.65	
		For Work In Restricted Working Space, Add	12.24	
		For Elevated Installation >10' To 15' Above Floor, Add	4.08	
		For Elevated Installation >15' To 20' Above Floor, Add	8.16	
		For Elevated Installation >20' To 25' Above Floor, Add	10.20	
		For Elevated Installation >25' To 30' Above Floor, Add	14.28	
		For Elevated Installation >30' To 35' Above Floor, Add	16.32	
		For Elevated Installation >35' To 40' Above Floor, Add	20.40	
		For Elevated Installation >40' Above Floor, Add	22.44	
23 31 13 16-0017	EA	6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	56.81	24.10
		For Seal Class B, Add	7.23	
		For Seal Class A, Add	19.28	
		For 28 Gauge, Deduct	-1.19	
		For 24 Gauge, Add	1.19	
		For 22 Gauge, Add	2.37	
		For 20 Gauge, Add	3.56	
		For 18 Gauge, Add	4.73	
		For 16 Gauge, Add	5.81	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.36	
		For Work In Restricted Working Space, Add	14.46	
		For Elevated Installation >10' To 15' Above Floor, Add	4.82	
		For Elevated Installation >15' To 20' Above Floor, Add	9.64	
		For Elevated Installation >20' To 25' Above Floor, Add	12.05	
		For Elevated Installation >25' To 30' Above Floor, Add	16.87	
		For Elevated Installation >30' To 35' Above Floor, Add	19.28	
		For Elevated Installation >35' To 40' Above Floor, Add	24.11	
		For Elevated Installation >40' Above Floor, Add	26.52	
23 31 13 16-0018	EA	7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	72.56	30.99
		For Seal Class B, Add	9.30	
		For Seal Class A, Add	24.80	
		For 28 Gauge, Deduct	-1.46	
		For 24 Gauge, Add	1.46	
		For 22 Gauge, Add	2.91	
		For 20 Gauge, Add	4.38	
		For 18 Gauge, Add	5.81	
		For 16 Gauge, Add	7.13	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.82	
		For Work In Restricted Working Space, Add	18.60	
		For Elevated Installation >10' To 15' Above Floor, Add	6.20	
		For Elevated Installation >15' To 20' Above Floor, Add	12.40	
		For Elevated Installation >20' To 25' Above Floor, Add	15.50	
		For Elevated Installation >25' To 30' Above Floor, Add	21.70	
		For Elevated Installation >30' To 35' Above Floor, Add	24.80	
		For Elevated Installation >35' To 40' Above Floor, Add	31.00	
		For Elevated Installation >40' Above Floor, Add	34.09	
23 31 13 16-0019	EA	8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	86.90	37.75
		For Seal Class B, Add	11.32	
		For Seal Class A, Add	30.20	
		For 28 Gauge, Deduct	-1.58	
		For 24 Gauge, Add	1.57	
		For 22 Gauge, Add	3.14	
		For 20 Gauge, Add	4.72	
		For 18 Gauge, Add	6.28	
		For 16 Gauge, Add	7.70	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.44	
		For Work In Restricted Working Space, Add	22.65	
		For Elevated Installation >10' To 15' Above Floor, Add	7.55	
		For Elevated Installation >15' To 20' Above Floor, Add	15.10	
		For Elevated Installation >20' To 25' Above Floor, Add	18.87	
		For Elevated Installation >25' To 30' Above Floor, Add	26.42	
		For Elevated Installation >30' To 35' Above Floor, Add	30.20	
		For Elevated Installation >35' To 40' Above Floor, Add	37.75	
		For Elevated Installation >40' Above Floor, Add	41.52	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 31 13 16-0020	EA	10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	132.94		58.94
		For Seal Class B, Add		17.68	
		For Seal Class A, Add		47.15	
		For 28 Gauge, Deduct		-2.09	
		For 24 Gauge, Add		2.08	
		For 22 Gauge, Add		4.15	
		For 20 Gauge, Add		6.23	
		For 18 Gauge, Add		8.28	
		For 16 Gauge, Add		10.17	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add		11.14	
		For Work In Restricted Working Space, Add		35.36	
		For Elevated Installation >10' To 15' Above Floor, Add		11.79	
		For Elevated Installation >15' To 20' Above Floor, Add		23.58	
		For Elevated Installation >20' To 25' Above Floor, Add		29.47	
		For Elevated Installation >25' To 30' Above Floor, Add		41.26	
		For Elevated Installation >30' To 35' Above Floor, Add		47.15	
		For Elevated Installation >35' To 40' Above Floor, Add		58.94	
		For Elevated Installation >40' Above Floor, Add		64.83	
23 31 13 16-0021	EA	12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	183.32		81.45
		For Seal Class B, Add		24.44	
		For Seal Class A, Add		65.16	
		For 28 Gauge, Deduct		-2.83	
		For 24 Gauge, Add		2.82	
		For 22 Gauge, Add		5.62	
		For 20 Gauge, Add		8.45	
		For 18 Gauge, Add		11.23	
		For 16 Gauge, Add		13.78	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add		15.10	
		For Work In Restricted Working Space, Add		48.87	
		For Elevated Installation >10' To 15' Above Floor, Add		16.29	
		For Elevated Installation >15' To 20' Above Floor, Add		32.58	
		For Elevated Installation >20' To 25' Above Floor, Add		40.73	
		For Elevated Installation >25' To 30' Above Floor, Add		57.02	
		For Elevated Installation >30' To 35' Above Floor, Add		65.16	
		For Elevated Installation >35' To 40' Above Floor, Add		81.46	
		For Elevated Installation >40' Above Floor, Add		89.60	
23 31 13 16-0022	EA	14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	223.99		96.35
		For Seal Class B, Add		28.91	
		For Seal Class A, Add		77.08	
		For 28 Gauge, Deduct		-4.33	
		For 24 Gauge, Add		4.32	
		For 22 Gauge, Add		8.62	
		For 20 Gauge, Add		12.95	
		For 18 Gauge, Add		17.20	
		For 16 Gauge, Add		21.11	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add		23.15	
		For Work In Restricted Working Space, Add		57.81	
		For Elevated Installation >10' To 15' Above Floor, Add		19.27	
		For Elevated Installation >15' To 20' Above Floor, Add		38.54	
		For Elevated Installation >20' To 25' Above Floor, Add		48.18	
		For Elevated Installation >25' To 30' Above Floor, Add		67.45	
		For Elevated Installation >30' To 35' Above Floor, Add		77.08	
		For Elevated Installation >35' To 40' Above Floor, Add		96.36	
		For Elevated Installation >40' Above Floor, Add		105.99	
23 31 13 16-0023	EA	16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	256.74		105.95
		For Seal Class B, Add		31.79	
		For Seal Class A, Add		84.76	
		For 28 Gauge, Deduct		-6.21	
		For 24 Gauge, Add		6.19	
		For 22 Gauge, Add		12.35	
		For 20 Gauge, Add		18.56	
		For 18 Gauge, Add		24.66	
		For 16 Gauge, Add		30.26	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add		33.17	
		For Work In Restricted Working Space, Add		63.57	
		For Elevated Installation >10' To 15' Above Floor, Add		21.19	
		For Elevated Installation >15' To 20' Above Floor, Add		42.38	
		For Elevated Installation >20' To 25' Above Floor, Add		52.98	
		For Elevated Installation >25' To 30' Above Floor, Add		74.17	
		For Elevated Installation >30' To 35' Above Floor, Add		84.76	
		For Elevated Installation >35' To 40' Above Floor, Add		105.96	
		For Elevated Installation >40' Above Floor, Add		116.55	



Heating, Ventilating, and Air-Conditioning (HVAC)		23	23
HVAC Air Distribution		23 30	
HVAC Ducts and Casings		23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0024	EA		18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	287.64	110.26
			For Seal Class B, Add	33.08	
			For Seal Class A, Add	88.21	
			For 28 Gauge, Deduct	-9.30	
			For 24 Gauge, Add	9.26	
			For 22 Gauge, Add	18.49	
			For 20 Gauge, Add	27.79	
			For 18 Gauge, Add	36.92	
			For 16 Gauge, Add	45.31	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	49.67	
			For Work In Restricted Working Space, Add	66.16	
			For Elevated Installation >10' To 15' Above Floor, Add	22.05	
			For Elevated Installation >15' To 20' Above Floor, Add	44.10	
			For Elevated Installation >20' To 25' Above Floor, Add	55.13	
			For Elevated Installation >25' To 30' Above Floor, Add	77.18	
			For Elevated Installation >30' To 35' Above Floor, Add	88.21	
			For Elevated Installation >35' To 40' Above Floor, Add	110.26	
			For Elevated Installation >40' Above Floor, Add	121.29	
23 31 13 16-0025	EA		20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	317.29	113.90
			For Seal Class B, Add	34.17	
			For Seal Class A, Add	91.12	
			For 28 Gauge, Deduct	-12.39	
			For 24 Gauge, Add	12.35	
			For 22 Gauge, Add	24.65	
			For 20 Gauge, Add	37.05	
			For 18 Gauge, Add	49.22	
			For 16 Gauge, Add	60.41	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	66.22	
			For Work In Restricted Working Space, Add	68.34	
			For Elevated Installation >10' To 15' Above Floor, Add	22.78	
			For Elevated Installation >15' To 20' Above Floor, Add	45.56	
			For Elevated Installation >20' To 25' Above Floor, Add	56.95	
			For Elevated Installation >25' To 30' Above Floor, Add	79.73	
			For Elevated Installation >30' To 35' Above Floor, Add	91.12	
			For Elevated Installation >35' To 40' Above Floor, Add	113.90	
			For Elevated Installation >40' Above Floor, Add	125.29	
23 31 13 16-0026			Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbows (23 31 13 16-0001)		
23 31 13 16-0027	EA		4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	35.70	11.92
			For Seal Class B, Add	4.47	
			For Seal Class A, Add	11.92	
			For 28 Gauge, Deduct	-0.82	
			For 24 Gauge, Add	0.81	
			For 22 Gauge, Add	1.63	
			For 20 Gauge, Add	2.44	
			For 18 Gauge, Add	3.25	
			For 16 Gauge, Add	3.98	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.37	
			For Work In Restricted Working Space, Add	8.94	
			For Elevated Installation >10' To 15' Above Floor, Add	2.98	
			For Elevated Installation >15' To 20' Above Floor, Add	5.96	
			For Elevated Installation >20' To 25' Above Floor, Add	7.45	
			For Elevated Installation >25' To 30' Above Floor, Add	10.43	
			For Elevated Installation >30' To 35' Above Floor, Add	11.92	
			For Elevated Installation >35' To 40' Above Floor, Add	14.90	
			For Elevated Installation >40' Above Floor, Add	16.39	
23 31 13 16-0028	EA		5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	40.78	13.65
			For Seal Class B, Add	5.11	
			For Seal Class A, Add	13.62	
			For 28 Gauge, Deduct	-0.93	
			For 24 Gauge, Add	0.93	
			For 22 Gauge, Add	1.85	
			For 20 Gauge, Add	2.79	
			For 18 Gauge, Add	3.70	
			For 16 Gauge, Add	4.54	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.98	
			For Work In Restricted Working Space, Add	10.22	
			For Elevated Installation >10' To 15' Above Floor, Add	3.41	
			For Elevated Installation >15' To 20' Above Floor, Add	6.81	
			For Elevated Installation >20' To 25' Above Floor, Add	8.51	
			For Elevated Installation >25' To 30' Above Floor, Add	11.92	
			For Elevated Installation >30' To 35' Above Floor, Add	13.62	
			For Elevated Installation >35' To 40' Above Floor, Add	17.03	
			For Elevated Installation >40' Above Floor, Add	18.73	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 31 13 16-0029	EA 6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	47.39		15.89
	For Seal Class B, Add	5.96		
	For Seal Class A, Add	15.89		
	For 28 Gauge, Deduct	-1.06		
	For 24 Gauge, Add	1.06		
	For 22 Gauge, Add	2.11		
	For 20 Gauge, Add	3.17		
	For 18 Gauge, Add	4.21		
	For 16 Gauge, Add	5.17		
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.67		
	For Work In Restricted Working Space, Add	11.92		
	For Elevated Installation >10' To 15' Above Floor, Add	3.97		
	For Elevated Installation >15' To 20' Above Floor, Add	7.95		
	For Elevated Installation >20' To 25' Above Floor, Add	9.93		
	For Elevated Installation >25' To 30' Above Floor, Add	13.91		
	For Elevated Installation >30' To 35' Above Floor, Add	15.89		
	For Elevated Installation >35' To 40' Above Floor, Add	19.87		
	For Elevated Installation >40' Above Floor, Add	21.85		
23 31 13 16-0030	EA 7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	55.80		19.07
	For Seal Class B, Add	7.15		
	For Seal Class A, Add	19.07		
	For 28 Gauge, Deduct	-1.12		
	For 24 Gauge, Add	1.12		
	For 22 Gauge, Add	2.24		
	For 20 Gauge, Add	3.36		
	For 18 Gauge, Add	4.47		
	For 16 Gauge, Add	5.48		
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.01		
	For Work In Restricted Working Space, Add	14.30		
	For Elevated Installation >10' To 15' Above Floor, Add	4.77		
	For Elevated Installation >15' To 20' Above Floor, Add	9.54		
	For Elevated Installation >20' To 25' Above Floor, Add	11.92		
	For Elevated Installation >25' To 30' Above Floor, Add	16.69		
	For Elevated Installation >30' To 35' Above Floor, Add	19.07		
	For Elevated Installation >35' To 40' Above Floor, Add	23.84		
	For Elevated Installation >40' Above Floor, Add	26.22		
23 31 13 16-0031	EA 8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	69.03		23.84
	For Seal Class B, Add	8.94		
	For Seal Class A, Add	23.84		
	For 28 Gauge, Deduct	-1.31		
	For 24 Gauge, Add	1.30		
	For 22 Gauge, Add	2.60		
	For 20 Gauge, Add	3.90		
	For 18 Gauge, Add	5.19		
	For 16 Gauge, Add	6.37		
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.98		
	For Work In Restricted Working Space, Add	17.88		
	For Elevated Installation >10' To 15' Above Floor, Add	5.96		
	For Elevated Installation >15' To 20' Above Floor, Add	11.92		
	For Elevated Installation >20' To 25' Above Floor, Add	14.90		
	For Elevated Installation >25' To 30' Above Floor, Add	20.86		
	For Elevated Installation >30' To 35' Above Floor, Add	23.84		
	For Elevated Installation >35' To 40' Above Floor, Add	29.80		
	For Elevated Installation >40' Above Floor, Add	32.78		
23 31 13 16-0032	EA 10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	92.94		31.79
	For Seal Class B, Add	11.92		
	For Seal Class A, Add	31.79		
	For 28 Gauge, Deduct	-1.87		
	For 24 Gauge, Add	1.86		
	For 22 Gauge, Add	3.71		
	For 20 Gauge, Add	5.58		
	For 18 Gauge, Add	7.41		
	For 16 Gauge, Add	9.09		
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.97		
	For Work In Restricted Working Space, Add	23.84		
	For Elevated Installation >10' To 15' Above Floor, Add	7.95		
	For Elevated Installation >15' To 20' Above Floor, Add	15.89		
	For Elevated Installation >20' To 25' Above Floor, Add	19.87		
	For Elevated Installation >25' To 30' Above Floor, Add	27.81		
	For Elevated Installation >30' To 35' Above Floor, Add	31.79		
	For Elevated Installation >35' To 40' Above Floor, Add	39.74		
	For Elevated Installation >40' Above Floor, Add	43.71		



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
23 31 13 16-0033	EA	12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	137.02	47.68
		For Seal Class B, Add	17.88	
		For Seal Class A, Add	47.68	
		For 28 Gauge, Deduct	-2.47	
		For 24 Gauge, Add	2.46	
		For 22 Gauge, Add	4.91	
		For 20 Gauge, Add	7.38	
		For 18 Gauge, Add	9.80	
		For 16 Gauge, Add	12.03	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.19	
		For Work In Restricted Working Space, Add	35.76	
		For Elevated Installation >15' To 15' Above Floor, Add	11.92	
		For Elevated Installation >15' To 20' Above Floor, Add	23.84	
		For Elevated Installation >20' To 25' Above Floor, Add	29.80	
		For Elevated Installation >25' To 30' Above Floor, Add	41.72	
		For Elevated Installation >30' To 35' Above Floor, Add	47.68	
		For Elevated Installation >35' To 40' Above Floor, Add	59.60	
		For Elevated Installation >40' Above Floor, Add	65.56	
23 31 13 16-0034	EA	14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	185.66	60.92
		For Seal Class B, Add	22.85	
		For Seal Class A, Add	60.92	
		For 28 Gauge, Deduct	-4.62	
		For 24 Gauge, Add	4.60	
		For 22 Gauge, Add	9.19	
		For 20 Gauge, Add	13.81	
		For 18 Gauge, Add	18.34	
		For 16 Gauge, Add	22.51	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	24.68	
		For Work In Restricted Working Space, Add	45.69	
		For Elevated Installation >10' To 15' Above Floor, Add	15.23	
		For Elevated Installation >15' To 20' Above Floor, Add	30.46	
		For Elevated Installation >20' To 25' Above Floor, Add	38.08	
		For Elevated Installation >25' To 30' Above Floor, Add	53.31	
		For Elevated Installation >30' To 35' Above Floor, Add	60.92	
		For Elevated Installation >35' To 40' Above Floor, Add	76.16	
		For Elevated Installation >40' Above Floor, Add	83.77	
23 31 13 16-0035	EA	16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	232.86	76.82
		For Seal Class B, Add	28.81	
		For Seal Class A, Add	76.82	
		For 28 Gauge, Deduct	-5.65	
		For 24 Gauge, Add	5.63	
		For 22 Gauge, Add	11.24	
		For 20 Gauge, Add	16.90	
		For 18 Gauge, Add	22.45	
		For 16 Gauge, Add	27.55	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	30.20	
		For Work In Restricted Working Space, Add	57.62	
		For Elevated Installation >10' To 15' Above Floor, Add	19.21	
		For Elevated Installation >15' To 20' Above Floor, Add	38.41	
		For Elevated Installation >20' To 25' Above Floor, Add	48.01	
		For Elevated Installation >25' To 30' Above Floor, Add	67.22	
		For Elevated Installation >30' To 35' Above Floor, Add	76.82	
		For Elevated Installation >35' To 40' Above Floor, Add	96.03	
		For Elevated Installation >40' Above Floor, Add	105.63	
23 31 13 16-0036	EA	18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	263.38	80.13
		For Seal Class B, Add	30.00	
		For Seal Class A, Add	80.00	
		For 28 Gauge, Deduct	-8.78	
		For 24 Gauge, Add	8.75	
		For 22 Gauge, Add	17.46	
		For 20 Gauge, Add	26.24	
		For 18 Gauge, Add	34.86	
		For 16 Gauge, Add	42.79	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	46.91	
		For Work In Restricted Working Space, Add	60.00	
		For Elevated Installation >10' To 15' Above Floor, Add	20.00	
		For Elevated Installation >15' To 20' Above Floor, Add	40.00	
		For Elevated Installation >20' To 25' Above Floor, Add	50.00	
		For Elevated Installation >25' To 30' Above Floor, Add	70.00	
		For Elevated Installation >30' To 35' Above Floor, Add	80.00	
		For Elevated Installation >35' To 40' Above Floor, Add	100.00	
		For Elevated Installation >40' Above Floor, Add	109.99	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0037	EA		20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	289.80	82.11
			For Seal Class B, Add	30.79	
			For Seal Class A, Add	82.11	
			For 28 Gauge, Deduct	-11.71	
			For 24 Gauge, Add	11.66	
			For 22 Gauge, Add	23.29	
			For 20 Gauge, Add	34.99	
			For 18 Gauge, Add	46.49	
			For 16 Gauge, Add	57.05	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	62.54	
			For Work In Restricted Working Space, Add	61.58	
			For Elevated Installation >10' To 15' Above Floor, Add	20.53	
			For Elevated Installation >15' To 20' Above Floor, Add	41.06	
			For Elevated Installation >20' To 25' Above Floor, Add	51.32	
			For Elevated Installation >25' To 30' Above Floor, Add	71.85	
			For Elevated Installation >30' To 35' Above Floor, Add	82.11	
			For Elevated Installation >35' To 40' Above Floor, Add	102.64	
			For Elevated Installation >40' Above Floor, Add	112.90	
23 31 13 16-0038			Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbows (23 31 13 16-0001)		
23 31 13 16-0039	EA		4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	33.51	11.92
			For Seal Class B, Add	4.47	
			For Seal Class A, Add	11.92	
			For 28 Gauge, Deduct	-0.51	
			For 24 Gauge, Add	0.51	
			For 22 Gauge, Add	1.02	
			For 20 Gauge, Add	1.54	
			For 18 Gauge, Add	2.04	
			For 16 Gauge, Add	2.50	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.75	
			For Work In Restricted Working Space, Add	8.94	
			For Elevated Installation >10' To 15' Above Floor, Add	2.98	
			For Elevated Installation >15' To 20' Above Floor, Add	5.96	
			For Elevated Installation >20' To 25' Above Floor, Add	7.45	
			For Elevated Installation >25' To 30' Above Floor, Add	10.43	
			For Elevated Installation >30' To 35' Above Floor, Add	11.92	
			For Elevated Installation >35' To 40' Above Floor, Add	14.90	
			For Elevated Installation >40' Above Floor, Add	16.39	
23 31 13 16-0040	EA		5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	38.81	13.65
			For Seal Class B, Add	5.11	
			For Seal Class A, Add	13.62	
			For 28 Gauge, Deduct	-0.66	
			For 24 Gauge, Add	0.66	
			For 22 Gauge, Add	1.31	
			For 20 Gauge, Add	1.97	
			For 18 Gauge, Add	2.62	
			For 16 Gauge, Add	3.21	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.52	
			For Work In Restricted Working Space, Add	10.22	
			For Elevated Installation >10' To 15' Above Floor, Add	3.41	
			For Elevated Installation >15' To 20' Above Floor, Add	6.81	
			For Elevated Installation >20' To 25' Above Floor, Add	8.51	
			For Elevated Installation >25' To 30' Above Floor, Add	11.92	
			For Elevated Installation >30' To 35' Above Floor, Add	13.62	
			For Elevated Installation >35' To 40' Above Floor, Add	17.03	
			For Elevated Installation >40' Above Floor, Add	18.73	
23 31 13 16-0041	EA		6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	44.93	15.89
			For Seal Class B, Add	5.96	
			For Seal Class A, Add	15.89	
			For 28 Gauge, Deduct	-0.72	
			For 24 Gauge, Add	0.72	
			For 22 Gauge, Add	1.43	
			For 20 Gauge, Add	2.15	
			For 18 Gauge, Add	2.86	
			For 16 Gauge, Add	3.51	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.85	
			For Work In Restricted Working Space, Add	11.92	
			For Elevated Installation >10' To 15' Above Floor, Add	3.97	
			For Elevated Installation >15' To 20' Above Floor, Add	7.95	
			For Elevated Installation >20' To 25' Above Floor, Add	9.93	
			For Elevated Installation >25' To 30' Above Floor, Add	13.91	
			For Elevated Installation >30' To 35' Above Floor, Add	15.89	
			For Elevated Installation >35' To 40' Above Floor, Add	19.87	
			For Elevated Installation >40' Above Floor, Add	21.85	



Heating, Ventilating, and Air-Conditioning (HVAC)		23	23
HVAC Air Distribution		23 30	
HVAC Ducts and Casings		23 31	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 31 13 16-0042	EA 7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	53.71		19.07
	For Seal Class B, Add	7.15		
	For Seal Class A, Add	19.07		
	For 28 Gauge, Deduct	-0.84		
	For 24 Gauge, Add	0.83		
	For 22 Gauge, Add	1.66		
	For 20 Gauge, Add	2.50		
	For 18 Gauge, Add	3.32		
	For 16 Gauge, Add	4.07		
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.46		
	For Work In Restricted Working Space, Add	14.30		
	For Elevated Installation >10' To 15' Above Floor, Add	4.77		
	For Elevated Installation >15' To 20' Above Floor, Add	9.54		
	For Elevated Installation >20' To 25' Above Floor, Add	11.92		
	For Elevated Installation >25' To 30' Above Floor, Add	16.69		
	For Elevated Installation >30' To 35' Above Floor, Add	19.07		
	For Elevated Installation >35' To 40' Above Floor, Add	23.84		
	For Elevated Installation >40' Above Floor, Add	26.22		
23 31 13 16-0043	EA 8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	66.46		23.84
	For Seal Class B, Add	8.94		
	For Seal Class A, Add	23.84		
	For 28 Gauge, Deduct	-0.95		
	For 24 Gauge, Add	0.95		
	For 22 Gauge, Add	1.89		
	For 20 Gauge, Add	2.84		
	For 18 Gauge, Add	3.77		
	For 16 Gauge, Add	4.63		
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.08		
	For Work In Restricted Working Space, Add	17.88		
	For Elevated Installation >10' To 15' Above Floor, Add	5.96		
	For Elevated Installation >15' To 20' Above Floor, Add	11.92		
	For Elevated Installation >20' To 25' Above Floor, Add	14.90		
	For Elevated Installation >25' To 30' Above Floor, Add	20.86		
	For Elevated Installation >30' To 35' Above Floor, Add	23.84		
	For Elevated Installation >35' To 40' Above Floor, Add	29.80		
	For Elevated Installation >40' Above Floor, Add	32.78		
23 31 13 16-0044	EA 10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	89.93		31.79
	For Seal Class B, Add	11.92		
	For Seal Class A, Add	31.79		
	For 28 Gauge, Deduct	-1.45		
	For 24 Gauge, Add	1.44		
	For 22 Gauge, Add	2.88		
	For 20 Gauge, Add	4.33		
	For 18 Gauge, Add	5.75		
	For 16 Gauge, Add	7.06		
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.74		
	For Work In Restricted Working Space, Add	23.84		
	For Elevated Installation >10' To 15' Above Floor, Add	7.95		
	For Elevated Installation >15' To 20' Above Floor, Add	15.89		
	For Elevated Installation >20' To 25' Above Floor, Add	19.87		
	For Elevated Installation >25' To 30' Above Floor, Add	27.81		
	For Elevated Installation >30' To 35' Above Floor, Add	31.79		
	For Elevated Installation >35' To 40' Above Floor, Add	39.74		
	For Elevated Installation >40' Above Floor, Add	43.71		
23 31 13 16-0045	EA 12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	132.67		47.68
	For Seal Class B, Add	17.88		
	For Seal Class A, Add	47.68		
	For 28 Gauge, Deduct	-1.87		
	For 24 Gauge, Add	1.86		
	For 22 Gauge, Add	3.71		
	For 20 Gauge, Add	5.58		
	For 18 Gauge, Add	7.41		
	For 16 Gauge, Add	9.09		
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.97		
	For Work In Restricted Working Space, Add	35.76		
	For Elevated Installation >10' To 15' Above Floor, Add	11.92		
	For Elevated Installation >15' To 20' Above Floor, Add	23.84		
	For Elevated Installation >20' To 25' Above Floor, Add	29.80		
	For Elevated Installation >25' To 30' Above Floor, Add	41.72		
	For Elevated Installation >30' To 35' Above Floor, Add	47.68		
	For Elevated Installation >35' To 40' Above Floor, Add	59.60		
	For Elevated Installation >40' Above Floor, Add	65.56		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0046	EA		14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	175.62	60.92
			For Seal Class B, Add	22.85	
			For Seal Class A, Add	60.92	
			For 28 Gauge, Deduct	-3.23	
			For 24 Gauge, Add	3.22	
			For 22 Gauge, Add	6.42	
			For 20 Gauge, Add	9.65	
			For 18 Gauge, Add	12.82	
			For 16 Gauge, Add	15.73	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	17.25	
			For Work In Restricted Working Space, Add	45.69	
			For Elevated Installation >10' To 15' Above Floor, Add	15.23	
			For Elevated Installation >15' To 20' Above Floor, Add	30.46	
			For Elevated Installation >20' To 25' Above Floor, Add	38.08	
			For Elevated Installation >25' To 30' Above Floor, Add	53.31	
			For Elevated Installation >30' To 35' Above Floor, Add	60.92	
			For Elevated Installation >35' To 40' Above Floor, Add	76.16	
			For Elevated Installation >40' Above Floor, Add	83.77	
23 31 13 16-0047	EA		16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	230.27	76.82
			For Seal Class B, Add	28.81	
			For Seal Class A, Add	76.82	
			For 28 Gauge, Deduct	-5.29	
			For 24 Gauge, Add	5.27	
			For 22 Gauge, Add	10.53	
			For 20 Gauge, Add	15.82	
			For 18 Gauge, Add	21.02	
			For 16 Gauge, Add	25.80	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	28.28	
			For Work In Restricted Working Space, Add	57.62	
			For Elevated Installation >10' To 15' Above Floor, Add	19.21	
			For Elevated Installation >15' To 20' Above Floor, Add	38.41	
			For Elevated Installation >20' To 25' Above Floor, Add	48.01	
			For Elevated Installation >25' To 30' Above Floor, Add	67.22	
			For Elevated Installation >30' To 35' Above Floor, Add	76.82	
			For Elevated Installation >35' To 40' Above Floor, Add	96.03	
			For Elevated Installation >40' Above Floor, Add	105.63	
23 31 13 16-0048	EA		18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	246.19	80.13
			For Seal Class B, Add	30.00	
			For Seal Class A, Add	80.00	
			For 28 Gauge, Deduct	-6.40	
			For 24 Gauge, Add	6.38	
			For 22 Gauge, Add	12.73	
			For 20 Gauge, Add	19.13	
			For 18 Gauge, Add	25.41	
			For 16 Gauge, Add	31.19	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	34.19	
			For Work In Restricted Working Space, Add	60.00	
			For Elevated Installation >10' To 15' Above Floor, Add	20.00	
			For Elevated Installation >15' To 20' Above Floor, Add	40.00	
			For Elevated Installation >20' To 25' Above Floor, Add	50.00	
			For Elevated Installation >25' To 30' Above Floor, Add	70.00	
			For Elevated Installation >30' To 35' Above Floor, Add	80.00	
			For Elevated Installation >35' To 40' Above Floor, Add	100.00	
			For Elevated Installation >40' Above Floor, Add	109.99	
23 31 13 16-0049	EA		20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	264.47	82.11
			For Seal Class B, Add	30.79	
			For Seal Class A, Add	82.11	
			For 28 Gauge, Deduct	-8.20	
			For 24 Gauge, Add	8.17	
			For 22 Gauge, Add	16.31	
			For 20 Gauge, Add	24.50	
			For 18 Gauge, Add	32.55	
			For 16 Gauge, Add	39.95	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	43.80	
			For Work In Restricted Working Space, Add	61.58	
			For Elevated Installation >10' To 15' Above Floor, Add	20.53	
			For Elevated Installation >15' To 20' Above Floor, Add	41.06	
			For Elevated Installation >20' To 25' Above Floor, Add	51.32	
			For Elevated Installation >25' To 30' Above Floor, Add	71.85	
			For Elevated Installation >30' To 35' Above Floor, Add	82.11	
			For Elevated Installation >35' To 40' Above Floor, Add	102.64	
			For Elevated Installation >40' Above Floor, Add	112.90	

23 31 13 16-0050 Galvanized Sheet Metal Round And Flat-Oval Tees (23 31 13 16-0001)



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
23 31 13 16-0051	EA	4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee	52.97	17.88
		For Seal Class B, Add	6.71	
		For Seal Class A, Add	17.88	
		For 28 Gauge, Deduct	-1.15	
		For 24 Gauge, Add	1.14	
		For 22 Gauge, Add	2.28	
		For 20 Gauge, Add	3.42	
		For 18 Gauge, Add	4.55	
		For 16 Gauge, Add	5.58	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.12	
		For Work In Restricted Working Space, Add	13.41	
		For Elevated Installation >10' To 15' Above Floor, Add	4.47	
		For Elevated Installation >15' To 20' Above Floor, Add	8.94	
		For Elevated Installation >20' To 25' Above Floor, Add	11.18	
		For Elevated Installation >25' To 30' Above Floor, Add	15.65	
		For Elevated Installation >30' To 35' Above Floor, Add	17.88	
		For Elevated Installation >35' To 40' Above Floor, Add	22.35	
		For Elevated Installation >40' Above Floor, Add	24.59	
23 31 13 16-0052	EA	5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee	62.07	20.40
		For Seal Class B, Add	7.66	
		For Seal Class A, Add	20.44	
		For 28 Gauge, Deduct	-1.52	
		For 24 Gauge, Add	1.52	
		For 22 Gauge, Add	3.02	
		For 20 Gauge, Add	4.55	
		For 18 Gauge, Add	6.04	
		For 16 Gauge, Add	7.41	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.13	
		For Work In Restricted Working Space, Add	15.33	
		For Elevated Installation >10' To 15' Above Floor, Add	5.11	
		For Elevated Installation >15' To 20' Above Floor, Add	10.22	
		For Elevated Installation >20' To 25' Above Floor, Add	12.77	
		For Elevated Installation >25' To 30' Above Floor, Add	17.88	
		For Elevated Installation >30' To 35' Above Floor, Add	20.44	
		For Elevated Installation >35' To 40' Above Floor, Add	25.55	
		For Elevated Installation >40' Above Floor, Add	28.10	
23 31 13 16-0053	EA	6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee	71.51	23.84
		For Seal Class B, Add	8.94	
		For Seal Class A, Add	23.84	
		For 28 Gauge, Deduct	-1.65	
		For 24 Gauge, Add	1.64	
		For 22 Gauge, Add	3.28	
		For 20 Gauge, Add	4.93	
		For 18 Gauge, Add	6.55	
		For 16 Gauge, Add	8.04	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.81	
		For Work In Restricted Working Space, Add	17.88	
		For Elevated Installation >10' To 15' Above Floor, Add	5.96	
		For Elevated Installation >15' To 20' Above Floor, Add	11.92	
		For Elevated Installation >20' To 25' Above Floor, Add	14.90	
		For Elevated Installation >25' To 30' Above Floor, Add	20.86	
		For Elevated Installation >30' To 35' Above Floor, Add	23.84	
		For Elevated Installation >35' To 40' Above Floor, Add	29.80	
		For Elevated Installation >40' Above Floor, Add	32.78	
23 31 13 16-0054	EA	7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee	85.23	28.61
		For Seal Class B, Add	10.73	
		For Seal Class A, Add	28.61	
		For 28 Gauge, Deduct	-1.90	
		For 24 Gauge, Add	1.89	
		For 22 Gauge, Add	3.78	
		For 20 Gauge, Add	5.68	
		For 18 Gauge, Add	7.54	
		For 16 Gauge, Add	9.25	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.15	
		For Work In Restricted Working Space, Add	21.46	
		For Elevated Installation >10' To 15' Above Floor, Add	7.15	
		For Elevated Installation >15' To 20' Above Floor, Add	14.30	
		For Elevated Installation >20' To 25' Above Floor, Add	17.88	
		For Elevated Installation >25' To 30' Above Floor, Add	25.03	
		For Elevated Installation >30' To 35' Above Floor, Add	28.61	
		For Elevated Installation >35' To 40' Above Floor, Add	35.76	
		For Elevated Installation >40' Above Floor, Add	39.34	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0055	EA		8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee	111.58	35.76
			For Seal Class B, Add	13.41	
			For Seal Class A, Add	35.76	
			For 28 Gauge, Deduct	-3.07	
			For 24 Gauge, Add	3.06	
			For 22 Gauge, Add	6.11	
			For 20 Gauge, Add	9.18	
			For 18 Gauge, Add	12.19	
			For 16 Gauge, Add	14.96	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.41	
			For Work In Restricted Working Space, Add	26.82	
			For Elevated Installation >10' To 15' Above Floor, Add	8.94	
			For Elevated Installation >15' To 20' Above Floor, Add	17.88	
			For Elevated Installation >20' To 25' Above Floor, Add	22.35	
			For Elevated Installation >25' To 30' Above Floor, Add	31.29	
			For Elevated Installation >30' To 35' Above Floor, Add	35.76	
			For Elevated Installation >35' To 40' Above Floor, Add	44.71	
			For Elevated Installation >40' Above Floor, Add	49.18	
23 31 13 16-0056	EA		10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee	147.48	47.68
			For Seal Class B, Add	17.88	
			For Seal Class A, Add	47.68	
			For 28 Gauge, Deduct	-3.92	
			For 24 Gauge, Add	3.90	
			For 22 Gauge, Add	7.79	
			For 20 Gauge, Add	11.71	
			For 18 Gauge, Add	15.55	
			For 16 Gauge, Add	19.09	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	20.93	
			For Work In Restricted Working Space, Add	35.76	
			For Elevated Installation >10' To 15' Above Floor, Add	11.92	
			For Elevated Installation >15' To 20' Above Floor, Add	23.84	
			For Elevated Installation >20' To 25' Above Floor, Add	29.80	
			For Elevated Installation >25' To 30' Above Floor, Add	41.72	
			For Elevated Installation >30' To 35' Above Floor, Add	47.68	
			For Elevated Installation >35' To 40' Above Floor, Add	59.60	
			For Elevated Installation >40' Above Floor, Add	65.56	
23 31 13 16-0057	EA		12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee	207.05	71.52
			For Seal Class B, Add	26.82	
			For Seal Class A, Add	71.51	
			For 28 Gauge, Deduct	-3.92	
			For 24 Gauge, Add	3.90	
			For 22 Gauge, Add	7.79	
			For 20 Gauge, Add	11.71	
			For 18 Gauge, Add	15.55	
			For 16 Gauge, Add	19.09	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	20.93	
			For Work In Restricted Working Space, Add	53.63	
			For Elevated Installation >10' To 15' Above Floor, Add	17.88	
			For Elevated Installation >15' To 20' Above Floor, Add	35.75	
			For Elevated Installation >20' To 25' Above Floor, Add	44.69	
			For Elevated Installation >25' To 30' Above Floor, Add	62.57	
			For Elevated Installation >30' To 35' Above Floor, Add	71.51	
			For Elevated Installation >35' To 40' Above Floor, Add	89.39	
			For Elevated Installation >40' Above Floor, Add	98.32	
23 31 13 16-0058	EA		14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee	282.21	91.12
			For Seal Class B, Add	34.25	
			For Seal Class A, Add	91.34	
			For 28 Gauge, Deduct	-7.46	
			For 24 Gauge, Add	7.43	
			For 22 Gauge, Add	14.84	
			For 20 Gauge, Add	22.30	
			For 18 Gauge, Add	29.62	
			For 16 Gauge, Add	36.36	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	39.86	
			For Work In Restricted Working Space, Add	68.51	
			For Elevated Installation >10' To 15' Above Floor, Add	22.84	
			For Elevated Installation >15' To 20' Above Floor, Add	45.67	
			For Elevated Installation >20' To 25' Above Floor, Add	57.09	
			For Elevated Installation >25' To 30' Above Floor, Add	79.92	
			For Elevated Installation >30' To 35' Above Floor, Add	91.34	
			For Elevated Installation >35' To 40' Above Floor, Add	114.18	
			For Elevated Installation >40' Above Floor, Add	125.59	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
23 31 13 16-0059	EA	16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee	363.53	115.49
		For Seal Class B, Add	43.19	
		For Seal Class A, Add	115.17	
		For 28 Gauge, Deduct	-10.47	
		For 24 Gauge, Add	10.43	
		For 22 Gauge, Add	20.83	
		For 20 Gauge, Add	31.30	
		For 18 Gauge, Add	41.59	
		For 16 Gauge, Add	51.04	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	55.95	
		For Work In Restricted Working Space, Add	86.38	
		For Elevated Installation >10' To 15' Above Floor, Add	28.79	
		For Elevated Installation >15' To 20' Above Floor, Add	57.58	
		For Elevated Installation >20' To 25' Above Floor, Add	71.98	
		For Elevated Installation >25' To 30' Above Floor, Add	100.77	
		For Elevated Installation >30' To 35' Above Floor, Add	115.17	
		For Elevated Installation >35' To 40' Above Floor, Add	143.96	
		For Elevated Installation >40' Above Floor, Add	158.36	
23 31 13 16-0060	EA	18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee	418.17	128.47
		For Seal Class B, Add	48.28	
		For Seal Class A, Add	128.74	
		For 28 Gauge, Deduct	-13.34	
		For 24 Gauge, Add	13.29	
		For 22 Gauge, Add	26.54	
		For 20 Gauge, Add	39.88	
		For 18 Gauge, Add	52.98	
		For 16 Gauge, Add	65.02	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	71.28	
		For Work In Restricted Working Space, Add	96.55	
		For Elevated Installation >10' To 15' Above Floor, Add	32.18	
		For Elevated Installation >15' To 20' Above Floor, Add	64.37	
		For Elevated Installation >20' To 25' Above Floor, Add	80.46	
		For Elevated Installation >25' To 30' Above Floor, Add	112.64	
		For Elevated Installation >30' To 35' Above Floor, Add	128.74	
		For Elevated Installation >35' To 40' Above Floor, Add	160.92	
		For Elevated Installation >40' Above Floor, Add	177.01	
23 31 13 16-0061	EA	20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee	439.32	133.10
		For Seal Class B, Add	49.86	
		For Seal Class A, Add	132.97	
		For 28 Gauge, Deduct	-14.80	
		For 24 Gauge, Add	14.75	
		For 22 Gauge, Add	29.45	
		For 20 Gauge, Add	44.25	
		For 18 Gauge, Add	58.79	
		For 16 Gauge, Add	72.15	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	79.10	
		For Work In Restricted Working Space, Add	99.73	
		For Elevated Installation >10' To 15' Above Floor, Add	33.24	
		For Elevated Installation >15' To 20' Above Floor, Add	66.49	
		For Elevated Installation >20' To 25' Above Floor, Add	83.11	
		For Elevated Installation >25' To 30' Above Floor, Add	116.35	
		For Elevated Installation >30' To 35' Above Floor, Add	132.97	
		For Elevated Installation >35' To 40' Above Floor, Add	166.22	
		For Elevated Installation >40' Above Floor, Add	182.84	
23 31 13 16-0062		Galvanized Sheet Metal Round And Flat-Oval Connectors (23 31 13 16-0001)		
23 31 13 16-0063	EA	4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector	23.97	
		For Seal Class B, Add	3.18	
		For Seal Class A, Add	8.48	
		For Work In Restricted Working Space, Add	6.36	
		For Elevated Installation >10' To 15' Above Floor, Add	2.12	
		For Elevated Installation >15' To 20' Above Floor, Add	4.24	
		For Elevated Installation >20' To 25' Above Floor, Add	5.30	
		For Elevated Installation >25' To 30' Above Floor, Add	7.42	
		For Elevated Installation >30' To 35' Above Floor, Add	8.48	
		For Elevated Installation >35' To 40' Above Floor, Add	10.60	
		For Elevated Installation >40' Above Floor, Add	11.65	
23 31 13 16-0064	EA	5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector	25.25	
		For Seal Class B, Add	3.34	
		For Seal Class A, Add	8.91	
		For Work In Restricted Working Space, Add	6.68	
		For Elevated Installation >10' To 15' Above Floor, Add	2.23	
		For Elevated Installation >15' To 20' Above Floor, Add	4.45	
		For Elevated Installation >20' To 25' Above Floor, Add	5.57	
		For Elevated Installation >25' To 30' Above Floor, Add	7.79	
		For Elevated Installation >30' To 35' Above Floor, Add	8.91	
		For Elevated Installation >35' To 40' Above Floor, Add	11.14	
		For Elevated Installation >40' Above Floor, Add	12.25	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0065	EA		6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector	27.05	
			For Seal Class B, Add	3.58	
			For Seal Class A, Add	9.54	
			For Work In Restricted Working Space, Add	7.15	
			For Elevated Installation >10' To 15' Above Floor, Add	2.38	
			For Elevated Installation >15' To 20' Above Floor, Add	4.77	
			For Elevated Installation >20' To 25' Above Floor, Add	5.96	
			For Elevated Installation >25' To 30' Above Floor, Add	8.34	
			For Elevated Installation >30' To 35' Above Floor, Add	9.54	
			For Elevated Installation >35' To 40' Above Floor, Add	11.92	
			For Elevated Installation >40' Above Floor, Add	13.11	
23 31 13 16-0066	EA		7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector	28.84	
			For Seal Class B, Add	3.78	
			For Seal Class A, Add	10.07	
			For Work In Restricted Working Space, Add	7.55	
			For Elevated Installation >10' To 15' Above Floor, Add	2.52	
			For Elevated Installation >15' To 20' Above Floor, Add	5.03	
			For Elevated Installation >20' To 25' Above Floor, Add	6.29	
			For Elevated Installation >25' To 30' Above Floor, Add	8.81	
			For Elevated Installation >30' To 35' Above Floor, Add	10.07	
			For Elevated Installation >35' To 40' Above Floor, Add	12.59	
			For Elevated Installation >40' Above Floor, Add	13.84	
23 31 13 16-0067	EA		8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector	31.29	
			For Seal Class B, Add	4.07	
			For Seal Class A, Add	10.86	
			For Work In Restricted Working Space, Add	8.15	
			For Elevated Installation >10' To 15' Above Floor, Add	2.72	
			For Elevated Installation >15' To 20' Above Floor, Add	5.43	
			For Elevated Installation >20' To 25' Above Floor, Add	6.79	
			For Elevated Installation >25' To 30' Above Floor, Add	9.50	
			For Elevated Installation >30' To 35' Above Floor, Add	10.86	
			For Elevated Installation >35' To 40' Above Floor, Add	13.58	
			For Elevated Installation >40' Above Floor, Add	14.93	
23 31 13 16-0068	EA		10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector	36.86	
			For Seal Class B, Add	4.55	
			For Seal Class A, Add	12.13	
			For Work In Restricted Working Space, Add	9.10	
			For Elevated Installation >10' To 15' Above Floor, Add	3.03	
			For Elevated Installation >15' To 20' Above Floor, Add	6.07	
			For Elevated Installation >20' To 25' Above Floor, Add	7.58	
			For Elevated Installation >25' To 30' Above Floor, Add	10.62	
			For Elevated Installation >30' To 35' Above Floor, Add	12.13	
			For Elevated Installation >35' To 40' Above Floor, Add	15.17	
			For Elevated Installation >40' Above Floor, Add	16.68	
23 31 13 16-0069	EA		12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector	50.26	
			For Seal Class B, Add	6.36	
			For Seal Class A, Add	16.96	
			For Work In Restricted Working Space, Add	12.72	
			For Elevated Installation >10' To 15' Above Floor, Add	4.24	
			For Elevated Installation >15' To 20' Above Floor, Add	8.48	
			For Elevated Installation >20' To 25' Above Floor, Add	10.60	
			For Elevated Installation >25' To 30' Above Floor, Add	14.84	
			For Elevated Installation >30' To 35' Above Floor, Add	16.96	
			For Elevated Installation >35' To 40' Above Floor, Add	21.20	
			For Elevated Installation >40' Above Floor, Add	23.31	
23 31 13 16-0070	EA		14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector	57.39	
			For Seal Class B, Add	7.23	
			For Seal Class A, Add	19.29	
			For Work In Restricted Working Space, Add	14.47	
			For Elevated Installation >10' To 15' Above Floor, Add	4.82	
			For Elevated Installation >15' To 20' Above Floor, Add	9.65	
			For Elevated Installation >20' To 25' Above Floor, Add	12.06	
			For Elevated Installation >25' To 30' Above Floor, Add	16.88	
			For Elevated Installation >30' To 35' Above Floor, Add	19.29	
			For Elevated Installation >35' To 40' Above Floor, Add	24.12	
			For Elevated Installation >40' Above Floor, Add	26.53	
23 31 13 16-0071	EA		16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector	63.10	
			For Seal Class B, Add	7.93	
			For Seal Class A, Add	21.14	
			For Work In Restricted Working Space, Add	15.86	
			For Elevated Installation >10' To 15' Above Floor, Add	5.29	
			For Elevated Installation >15' To 20' Above Floor, Add	10.57	
			For Elevated Installation >20' To 25' Above Floor, Add	13.21	
			For Elevated Installation >25' To 30' Above Floor, Add	18.50	
			For Elevated Installation >30' To 35' Above Floor, Add	21.14	
			For Elevated Installation >35' To 40' Above Floor, Add	26.43	
			For Elevated Installation >40' Above Floor, Add	29.07	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR		DESCRIPTION	TOTAL DIRECT		DEMOLITION
CSI	UOM		UNIT	COST	
23 31 13 16-0072	EA	18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....	68.68		
		For Seal Class B, Add	8.58		
		For Seal Class A, Add	22.89		
		For Work In Restricted Working Space, Add	17.17		
		For Elevated Installation >10' To 15' Above Floor, Add	5.72		
		For Elevated Installation >15' To 20' Above Floor, Add	11.44		
		For Elevated Installation >20' To 25' Above Floor, Add	14.31		
		For Elevated Installation >25' To 30' Above Floor, Add	20.03		
		For Elevated Installation >30' To 35' Above Floor, Add	22.89		
		For Elevated Installation >35' To 40' Above Floor, Add	28.61		
		For Elevated Installation >40' Above Floor, Add	31.47		
23 31 13 16-0073	EA	20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....	74.81		
		For Seal Class B, Add	9.36		
		For Seal Class A, Add	24.95		
		For Work In Restricted Working Space, Add	18.71		
		For Elevated Installation >10' To 15' Above Floor, Add	6.24		
		For Elevated Installation >15' To 20' Above Floor, Add	12.48		
		For Elevated Installation >20' To 25' Above Floor, Add	15.60		
		For Elevated Installation >25' To 30' Above Floor, Add	21.83		
		For Elevated Installation >30' To 35' Above Floor, Add	24.95		
		For Elevated Installation >35' To 40' Above Floor, Add	31.19		
		For Elevated Installation >40' Above Floor, Add	34.31		
23 31 13 16-0074		Slip Joint, Galvanized, Spiral Duct And Fittings (23 31 13 16)			
23 31 13 16-0075		Slip Joint, Galvanized, Spiral Duct (23 31 13 16-0074)			
23 31 13 16-0076	LF	4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	11.06		1.22
		For Seal Class B, Add	0.98		
		For Seal Class A, Add	2.62		
		For Up To 20', Add	1.35		
		For >20' To 50', Add	0.54		
		For >200' To 500', Deduct	-0.34		
		For >500', Deduct	-0.56		
		For 24 Gauge, Add	0.90		
		For 22 Gauge, Add	2.07		
		For 20 Gauge, Add	3.38		
		For 18 Gauge, Add	5.19		
		For 16 Gauge, Add	6.31		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.34		
		For Work In Restricted Working Space, Add	1.97		
23 31 13 16-0077	LF	6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	14.39		2.45
		For Seal Class B, Add	1.18		
		For Seal Class A, Add	3.14		
		For Up To 20', Add	1.96		
		For >20' To 50', Add	0.78		
		For >200' To 500', Deduct	-0.49		
		For >500', Deduct	-0.82		
		For 24 Gauge, Add	1.31		
		For 22 Gauge, Add	3.00		
		For 20 Gauge, Add	4.90		
		For 18 Gauge, Add	7.51		
		For 16 Gauge, Add	9.14		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.83		
		For Work In Restricted Working Space, Add	2.36		
23 31 13 16-0078	LF	8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	18.34		2.45
		For Seal Class B, Add	1.46		
		For Seal Class A, Add	3.90		
		For Up To 20', Add	2.58		
		For >20' To 50', Add	1.03		
		For >200' To 500', Deduct	-0.65		
		For >500', Deduct	-1.08		
		For 24 Gauge, Add	1.72		
		For 22 Gauge, Add	3.96		
		For 20 Gauge, Add	6.45		
		For 18 Gauge, Add	9.89		
		For 16 Gauge, Add	12.04		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.36		
		For Work In Restricted Working Space, Add	2.92		
23 31 13 16-0079	LF	10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	22.32		2.45
		For Seal Class B, Add	1.76		
		For Seal Class A, Add	4.68		
		For Up To 20', Add	3.18		
		For >20' To 50', Add	1.27		
		For >200' To 500', Deduct	-0.80		
		For >500', Deduct	-1.33		
		For 24 Gauge, Add	2.12		
		For 22 Gauge, Add	4.88		
		For 20 Gauge, Add	7.96		
		For 18 Gauge, Add	12.20		
		For 16 Gauge, Add	14.85		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.85		
		For Work In Restricted Working Space, Add	3.51		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0080	LF		12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	27.72	3.66
			For Seal Class B, Add	2.20	
			For Seal Class A, Add	5.86	
			For Up To 20', Add	3.92	
			For >20' To 50', Add	1.57	
			For >200' To 500', Deduct	-0.98	
			For >500', Deduct	-1.63	
			For 24 Gauge, Add	2.61	
			For 22 Gauge, Add	6.01	
			For 20 Gauge, Add	9.80	
			For 18 Gauge, Add	15.02	
			For 16 Gauge, Add	18.28	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.66	
			For Work In Restricted Working Space, Add	4.40	
23 31 13 16-0081	LF		14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	33.45	3.66
			For Seal Class B, Add	2.75	
			For Seal Class A, Add	7.33	
			For Up To 20', Add	4.54	
			For >20' To 50', Add	1.81	
			For >200' To 500', Deduct	-1.13	
			For >500', Deduct	-1.89	
			For 24 Gauge, Add	3.02	
			For 22 Gauge, Add	6.96	
			For 20 Gauge, Add	11.34	
			For 18 Gauge, Add	17.39	
			For 16 Gauge, Add	21.17	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.19	
			For Work In Restricted Working Space, Add	5.50	
23 31 13 16-0082	LF		16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	46.38	3.66
			For Seal Class B, Add	3.66	
			For Seal Class A, Add	9.76	
			For Up To 20', Add	6.59	
			For >20' To 50', Add	2.64	
			For >200' To 500', Deduct	-1.65	
			For >500', Deduct	-2.75	
			For 24 Gauge, Add	4.39	
			For 22 Gauge, Add	10.11	
			For 20 Gauge, Add	16.48	
			For 18 Gauge, Add	25.27	
			For 16 Gauge, Add	30.76	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.26	
			For Work In Restricted Working Space, Add	7.32	
23 31 13 16-0083	LF		18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	52.81	4.89
			For Seal Class B, Add	4.27	
			For Seal Class A, Add	11.38	
			For Up To 20', Add	7.31	
			For >20' To 50', Add	2.92	
			For >200' To 500', Deduct	-1.83	
			For >500', Deduct	-3.05	
			For 24 Gauge, Add	4.87	
			For 22 Gauge, Add	11.21	
			For 20 Gauge, Add	18.27	
			For 18 Gauge, Add	28.01	
			For 16 Gauge, Add	34.10	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	18.03	
			For Work In Restricted Working Space, Add	8.54	
23 31 13 16-0084	LF		20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	59.48	4.89
			For Seal Class B, Add	4.85	
			For Seal Class A, Add	12.92	
			For Up To 20', Add	8.15	
			For >20' To 50', Add	3.26	
			For >200' To 500', Deduct	-2.04	
			For >500', Deduct	-3.40	
			For 24 Gauge, Add	5.43	
			For 22 Gauge, Add	12.50	
			For 20 Gauge, Add	20.38	
			For 18 Gauge, Add	31.25	
			For 16 Gauge, Add	38.04	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	20.11	
			For Work In Restricted Working Space, Add	9.69	
23 31 13 16-0085	LF		22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	66.43	6.11
			For Seal Class B, Add	5.46	
			For Seal Class A, Add	14.56	
			For Up To 20', Add	9.01	
			For >20' To 50', Add	3.60	
			For >200' To 500', Deduct	-2.25	
			For >500', Deduct	-3.76	
			For 24 Gauge, Add	6.01	
			For 22 Gauge, Add	13.82	
			For 20 Gauge, Add	22.53	
			For 18 Gauge, Add	34.55	
			For 16 Gauge, Add	42.06	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	22.23	
			For Work In Restricted Working Space, Add	10.92	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0086	LF		24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	73.36	7.33
			For Seal Class B, Add	6.11	
			For Seal Class A, Add	16.29	
			For Up To 20', Add	9.79	
			For >20' To 50', Add	3.92	
			For >200' To 500', Deduct	-2.45	
			For >500', Deduct	-4.08	
			For 24 Gauge, Add	6.53	
			For 22 Gauge, Add	15.01	
			For 20 Gauge, Add	24.48	
			For 18 Gauge, Add	37.54	
			For 16 Gauge, Add	45.70	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	24.15	
			For Work In Restricted Working Space, Add	12.22	
23 31 13 16-0087			Slip Joint, Galvanized, Spiral 90 Degree Elbows (23 31 13 16-0074)		
23 31 13 16-0088	EA		4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	87.60	17.10
			For Seal Class B, Add	9.91	
			For Seal Class A, Add	26.42	
			For 24 Gauge, Add	4.31	
			For 22 Gauge, Add	9.92	
			For 20 Gauge, Add	16.17	
			For 18 Gauge, Add	24.79	
			For 16 Gauge, Add	30.18	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	15.95	
			For Work In Restricted Working Space, Add	19.81	
23 31 13 16-0089	EA		6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	128.34	24.44
			For Seal Class B, Add	14.66	
			For Seal Class A, Add	39.10	
			For 24 Gauge, Add	6.12	
			For 22 Gauge, Add	14.08	
			For 20 Gauge, Add	22.95	
			For 18 Gauge, Add	35.19	
			For 16 Gauge, Add	42.84	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	22.64	
			For Work In Restricted Working Space, Add	29.32	
23 31 13 16-0090	EA		8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	186.98	31.77
			For Seal Class B, Add	19.29	
			For Seal Class A, Add	51.45	
			For 24 Gauge, Add	11.67	
			For 22 Gauge, Add	26.85	
			For 20 Gauge, Add	43.77	
			For 18 Gauge, Add	67.11	
			For 16 Gauge, Add	81.70	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	43.19	
			For Work In Restricted Working Space, Add	38.59	
23 31 13 16-0091	EA		10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	231.63	40.33
			For Seal Class B, Add	24.44	
			For Seal Class A, Add	65.16	
			For 24 Gauge, Add	13.74	
			For 22 Gauge, Add	31.61	
			For 20 Gauge, Add	51.54	
			For 18 Gauge, Add	79.03	
			For 16 Gauge, Add	96.21	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	50.85	
			For Work In Restricted Working Space, Add	48.87	
23 31 13 16-0092	EA		12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	284.32	51.32
			For Seal Class B, Add	30.55	
			For Seal Class A, Add	81.46	
			For 24 Gauge, Add	16.14	
			For 22 Gauge, Add	37.11	
			For 20 Gauge, Add	60.51	
			For 18 Gauge, Add	92.78	
			For 16 Gauge, Add	112.95	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	59.70	
			For Work In Restricted Working Space, Add	61.09	
23 31 13 16-0093	EA		14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	311.97	56.20
			For Seal Class B, Add	33.32	
			For Seal Class A, Add	88.86	
			For 24 Gauge, Add	17.96	
			For 22 Gauge, Add	41.32	
			For 20 Gauge, Add	67.37	
			For 18 Gauge, Add	103.29	
			For 16 Gauge, Add	125.75	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	66.47	
			For Work In Restricted Working Space, Add	66.65	
23 31 13 16-0094	EA		16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	367.88	65.97
			For Seal Class B, Add	39.41	
			For Seal Class A, Add	105.10	
			For 24 Gauge, Add	21.02	
			For 22 Gauge, Add	48.36	
			For 20 Gauge, Add	78.84	
			For 18 Gauge, Add	120.89	
			For 16 Gauge, Add	147.17	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	77.79	
			For Work In Restricted Working Space, Add	78.83	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0095	EA		18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	446.78	81.86
			For Seal Class B, Add	48.87	
			For Seal Class A, Add	130.33	
			For 24 Gauge, Add	24.19	
			For 22 Gauge, Add	55.64	
			For 20 Gauge, Add	90.72	
			For 18 Gauge, Add	139.10	
			For 16 Gauge, Add	169.34	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	89.51	
			For Work In Restricted Working Space, Add	97.75	
23 31 13 16-0096	EA		20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	536.92	98.97
			For Seal Class B, Add	59.12	
			For Seal Class A, Add	157.66	
			For 24 Gauge, Add	28.56	
			For 22 Gauge, Add	65.68	
			For 20 Gauge, Add	107.09	
			For 18 Gauge, Add	164.20	
			For 16 Gauge, Add	199.89	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	105.66	
			For Work In Restricted Working Space, Add	118.24	
23 31 13 16-0097	EA		22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	623.11	114.86
			For Seal Class B, Add	69.16	
			For Seal Class A, Add	184.43	
			For 24 Gauge, Add	32.41	
			For 22 Gauge, Add	74.54	
			For 20 Gauge, Add	121.53	
			For 18 Gauge, Add	186.35	
			For 16 Gauge, Add	226.86	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	119.91	
			For Work In Restricted Working Space, Add	138.32	
23 31 13 16-0098	EA		24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	719.91	130.74
			For Seal Class B, Add	77.99	
			For Seal Class A, Add	207.97	
			For 24 Gauge, Add	40.00	
			For 22 Gauge, Add	91.99	
			For 20 Gauge, Add	149.99	
			For 18 Gauge, Add	229.98	
			For 16 Gauge, Add	279.97	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	147.99	
			For Work In Restricted Working Space, Add	155.98	
23 31 13 16-0099			Slip Joint, Galvanized, Spiral Duct 45 Degree Elbows (23 31 13 16-0074)		
23 31 13 16-0100	EA		4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	88.61	17.10
			For Seal Class B, Add	9.91	
			For Seal Class A, Add	26.42	
			For 24 Gauge, Add	4.51	
			For 22 Gauge, Add	10.38	
			For 20 Gauge, Add	16.93	
			For 18 Gauge, Add	25.96	
			For 16 Gauge, Add	31.60	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.70	
			For Work In Restricted Working Space, Add	19.81	
23 31 13 16-0101	EA		6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	123.09	24.44
			For Seal Class B, Add	14.66	
			For Seal Class A, Add	39.10	
			For 24 Gauge, Add	5.07	
			For 22 Gauge, Add	11.66	
			For 20 Gauge, Add	19.01	
			For 18 Gauge, Add	29.15	
			For 16 Gauge, Add	35.49	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	18.76	
			For Work In Restricted Working Space, Add	29.32	
23 31 13 16-0102	EA		8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	162.62	31.77
			For Seal Class B, Add	19.29	
			For Seal Class A, Add	51.45	
			For 24 Gauge, Add	6.80	
			For 22 Gauge, Add	15.64	
			For 20 Gauge, Add	25.50	
			For 18 Gauge, Add	39.10	
			For 16 Gauge, Add	47.60	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	25.16	
			For Work In Restricted Working Space, Add	38.59	
23 31 13 16-0103	EA		10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	205.41	40.33
			For Seal Class B, Add	24.44	
			For Seal Class A, Add	65.16	
			For 24 Gauge, Add	8.50	
			For 22 Gauge, Add	19.55	
			For 20 Gauge, Add	31.88	
			For 18 Gauge, Add	48.88	
			For 16 Gauge, Add	59.50	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	31.45	
			For Work In Restricted Working Space, Add	48.87	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0104	EA		12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	253.03	51.32
			For Seal Class B, Add	30.55	
			For Seal Class A, Add	81.46	
			For 24 Gauge, Add	9.88	
			For 22 Gauge, Add	22.72	
			For 20 Gauge, Add	37.04	
			For 18 Gauge, Add	56.80	
			For 16 Gauge, Add	69.15	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	36.55	
			For Work In Restricted Working Space, Add	61.09	
23 31 13 16-0105	EA		14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	277.05	56.20
			For Seal Class B, Add	33.32	
			For Seal Class A, Add	88.86	
			For 24 Gauge, Add	10.98	
			For 22 Gauge, Add	25.25	
			For 20 Gauge, Add	41.18	
			For 18 Gauge, Add	63.14	
			For 16 Gauge, Add	76.86	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	40.63	
			For Work In Restricted Working Space, Add	66.65	
23 31 13 16-0106	EA		16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	352.76	65.97
			For Seal Class B, Add	39.41	
			For Seal Class A, Add	105.10	
			For 24 Gauge, Add	18.00	
			For 22 Gauge, Add	41.40	
			For 20 Gauge, Add	67.50	
			For 18 Gauge, Add	103.50	
			For 16 Gauge, Add	126.00	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	66.60	
			For Work In Restricted Working Space, Add	78.83	
23 31 13 16-0107	EA		18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	436.07	81.86
			For Seal Class B, Add	48.87	
			For Seal Class A, Add	130.33	
			For 24 Gauge, Add	22.05	
			For 22 Gauge, Add	50.72	
			For 20 Gauge, Add	82.69	
			For 18 Gauge, Add	126.79	
			For 16 Gauge, Add	154.35	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	81.59	
			For Work In Restricted Working Space, Add	97.75	
23 31 13 16-0108	EA		20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	533.64	98.97
			For Seal Class B, Add	59.12	
			For Seal Class A, Add	157.66	
			For 24 Gauge, Add	27.90	
			For 22 Gauge, Add	64.17	
			For 20 Gauge, Add	104.63	
			For 18 Gauge, Add	160.43	
			For 16 Gauge, Add	195.30	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	103.23	
			For Work In Restricted Working Space, Add	118.24	
23 31 13 16-0109	EA		22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	585.95	114.86
			For Seal Class B, Add	69.16	
			For Seal Class A, Add	184.43	
			For 24 Gauge, Add	24.98	
			For 22 Gauge, Add	57.44	
			For 20 Gauge, Add	93.66	
			For 18 Gauge, Add	143.61	
			For 16 Gauge, Add	174.83	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	92.41	
			For Work In Restricted Working Space, Add	138.32	
23 31 13 16-0110	EA		24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	706.68	130.74
			For Seal Class B, Add	77.99	
			For Seal Class A, Add	207.97	
			For 24 Gauge, Add	37.35	
			For 22 Gauge, Add	85.91	
			For 20 Gauge, Add	140.06	
			For 18 Gauge, Add	214.76	
			For 16 Gauge, Add	261.45	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	138.20	
			For Work In Restricted Working Space, Add	155.98	
23 31 13 16-0111			Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Laterals (23 31 13 16-0074)		
23 31 13 16-0112	EA		6" x 6" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	177.13	31.77
			For Seal Class B, Add	19.29	
			For Seal Class A, Add	51.45	
			For 24 Gauge, Add	9.70	
			For 22 Gauge, Add	22.31	
			For 20 Gauge, Add	36.38	
			For 18 Gauge, Add	55.79	
			For 16 Gauge, Add	67.91	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	35.90	
			For Work In Restricted Working Space, Add	38.59	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0113	EA		8" x 8" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	254.49	51.32
			For Seal Class B, Add	30.55	
			For Seal Class A, Add	81.46	
			For 24 Gauge, Add	10.17	
			For 22 Gauge, Add	23.39	
			For 20 Gauge, Add	38.14	
			For 18 Gauge, Add	58.48	
			For 16 Gauge, Add	71.19	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	37.63	
			For Work In Restricted Working Space, Add	61.09	
23 31 13 16-0114	EA		10" x 10" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	318.59	65.97
			For Seal Class B, Add	39.41	
			For Seal Class A, Add	105.10	
			For 24 Gauge, Add	11.17	
			For 22 Gauge, Add	25.68	
			For 20 Gauge, Add	41.87	
			For 18 Gauge, Add	64.20	
			For 16 Gauge, Add	78.16	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	41.31	
			For Work In Restricted Working Space, Add	78.83	
23 31 13 16-0115	EA		12" x 12" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	384.15	81.86
			For Seal Class B, Add	48.87	
			For Seal Class A, Add	130.33	
			For 24 Gauge, Add	11.67	
			For 22 Gauge, Add	26.83	
			For 20 Gauge, Add	43.75	
			For 18 Gauge, Add	67.08	
			For 16 Gauge, Add	81.66	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	43.16	
			For Work In Restricted Working Space, Add	97.75	
23 31 13 16-0116	EA		14" x 14" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	454.37	98.97
			For Seal Class B, Add	59.12	
			For Seal Class A, Add	157.66	
			For 24 Gauge, Add	12.05	
			For 22 Gauge, Add	27.71	
			For 20 Gauge, Add	45.17	
			For 18 Gauge, Add	69.26	
			For 16 Gauge, Add	84.32	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	44.57	
			For Work In Restricted Working Space, Add	118.24	
23 31 13 16-0117	EA		16" x 16" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	526.58	114.86
			For Seal Class B, Add	69.16	
			For Seal Class A, Add	184.43	
			For 24 Gauge, Add	13.10	
			For 22 Gauge, Add	30.13	
			For 20 Gauge, Add	49.13	
			For 18 Gauge, Add	75.34	
			For 16 Gauge, Add	91.71	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	48.48	
			For Work In Restricted Working Space, Add	138.32	
23 31 13 16-0118	EA		18" x 18" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	588.07	130.74
			For Seal Class B, Add	77.99	
			For Seal Class A, Add	207.97	
			For 24 Gauge, Add	13.63	
			For 22 Gauge, Add	31.34	
			For 20 Gauge, Add	51.11	
			For 18 Gauge, Add	78.36	
			For 16 Gauge, Add	95.40	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	50.42	
			For Work In Restricted Working Space, Add	155.98	
23 31 13 16-0119	EA		20" x 20" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	666.66	149.06
			For Seal Class B, Add	89.40	
			For Seal Class A, Add	238.41	
			For 24 Gauge, Add	14.13	
			For 22 Gauge, Add	32.49	
			For 20 Gauge, Add	52.98	
			For 18 Gauge, Add	81.24	
			For 16 Gauge, Add	98.90	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	52.27	
			For Work In Restricted Working Space, Add	178.81	
23 31 13 16-0120	EA		22" x 22" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	745.45	164.95
			For Seal Class B, Add	99.07	
			For Seal Class A, Add	264.18	
			For 24 Gauge, Add	17.00	
			For 22 Gauge, Add	39.10	
			For 20 Gauge, Add	63.75	
			For 18 Gauge, Add	97.75	
			For 16 Gauge, Add	119.00	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	62.90	
			For Work In Restricted Working Space, Add	198.14	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0121	EA	24" x 24" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	806.51	179.61	
		For Seal Class B, Add	107.81		
		For Seal Class A, Add	287.49		
		For 24 Gauge, Add	17.56		
		For 22 Gauge, Add	40.38		
		For 20 Gauge, Add	65.84		
		For 18 Gauge, Add	100.95		
		For 16 Gauge, Add	122.89		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	64.96		
		For Work In Restricted Working Space, Add	215.62		
23 31 13 16-0122	EA	8" x 8" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	264.24	55.34	
		For Seal Class B, Add	33.23		
		For Seal Class A, Add	88.60		
		For 24 Gauge, Add	8.55		
		For 22 Gauge, Add	19.66		
		For 20 Gauge, Add	32.05		
		For 18 Gauge, Add	49.14		
		For 16 Gauge, Add	59.82		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	31.62		
		For Work In Restricted Working Space, Add	66.45		
23 31 13 16-0123	EA	10" x 10" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	320.25	66.59	
		For Seal Class B, Add	39.95		
		For Seal Class A, Add	106.52		
		For 24 Gauge, Add	10.79		
		For 22 Gauge, Add	24.81		
		For 20 Gauge, Add	40.46		
		For 18 Gauge, Add	62.03		
		For 16 Gauge, Add	75.52		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	39.92		
		For Work In Restricted Working Space, Add	79.89		
23 31 13 16-0124	EA	12" x 12" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	389.06	80.88	
		For Seal Class B, Add	48.54		
		For Seal Class A, Add	129.43		
		For 24 Gauge, Add	13.10		
		For 22 Gauge, Add	30.12		
		For 20 Gauge, Add	49.11		
		For 18 Gauge, Add	75.30		
		For 16 Gauge, Add	91.67		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	48.46		
		For Work In Restricted Working Space, Add	97.07		
23 31 13 16-0125	EA	14" x 14" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	463.16	96.16	
		For Seal Class B, Add	57.78		
		For Seal Class A, Add	154.08		
		For 24 Gauge, Add	15.59		
		For 22 Gauge, Add	35.87		
		For 20 Gauge, Add	58.48		
		For 18 Gauge, Add	89.67		
		For 16 Gauge, Add	109.16		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	57.70		
		For Work In Restricted Working Space, Add	115.56		
23 31 13 16-0126	EA	16" x 16" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	584.66	123.65	
		For Seal Class B, Add	74.14		
		For Seal Class A, Add	197.71		
		For 24 Gauge, Add	18.08		
		For 22 Gauge, Add	41.58		
		For 20 Gauge, Add	67.79		
		For 18 Gauge, Add	103.95		
		For 16 Gauge, Add	126.55		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	66.89		
		For Work In Restricted Working Space, Add	148.28		
23 31 13 16-0127	EA	18" x 18" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	649.68	137.21	
		For Seal Class B, Add	82.26		
		For Seal Class A, Add	219.36		
		For 24 Gauge, Add	20.26		
		For 22 Gauge, Add	46.59		
		For 20 Gauge, Add	75.96		
		For 18 Gauge, Add	116.47		
		For 16 Gauge, Add	141.79		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	74.95		
		For Work In Restricted Working Space, Add	164.52		
23 31 13 16-0128	EA	20" x 20" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	738.67	156.15	
		For Seal Class B, Add	93.51		
		For Seal Class A, Add	249.35		
		For 24 Gauge, Add	23.06		
		For 22 Gauge, Add	53.03		
		For 20 Gauge, Add	86.47		
		For 18 Gauge, Add	132.58		
		For 16 Gauge, Add	161.41		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	85.31		
		For Work In Restricted Working Space, Add	187.01		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0129	EA		22" x 22" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	793.99	166.54
			For Seal Class B, Add	99.82	
			For Seal Class A, Add	266.20	
			For 24 Gauge, Add	25.70	
			For 22 Gauge, Add	59.11	
			For 20 Gauge, Add	96.38	
			For 18 Gauge, Add	147.78	
			For 16 Gauge, Add	179.90	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	95.09	
			For Work In Restricted Working Space, Add	199.65	
23 31 13 16-0130	EA		24" x 24" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	861.36	180.59
			For Seal Class B, Add	108.32	
			For Seal Class A, Add	288.85	
			For 24 Gauge, Add	27.85	
			For 22 Gauge, Add	64.05	
			For 20 Gauge, Add	104.43	
			For 18 Gauge, Add	160.13	
			For 16 Gauge, Add	194.94	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	103.04	
			For Work In Restricted Working Space, Add	216.64	
23 31 13 16-0131	EA		10" x 10" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	349.68	73.31
			For Seal Class B, Add	43.93	
			For Seal Class A, Add	117.15	
			For 24 Gauge, Add	11.36	
			For 22 Gauge, Add	26.13	
			For 20 Gauge, Add	42.61	
			For 18 Gauge, Add	65.33	
			For 16 Gauge, Add	79.53	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	42.04	
			For Work In Restricted Working Space, Add	87.86	
23 31 13 16-0132	EA		12" x 12" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	424.91	89.20
			For Seal Class B, Add	53.40	
			For Seal Class A, Add	142.40	
			For 24 Gauge, Add	13.78	
			For 22 Gauge, Add	31.69	
			For 20 Gauge, Add	51.68	
			For 18 Gauge, Add	79.24	
			For 16 Gauge, Add	96.46	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	50.99	
			For Work In Restricted Working Space, Add	106.80	
23 31 13 16-0133	EA		14" x 14" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	505.77	105.69
			For Seal Class B, Add	63.55	
			For Seal Class A, Add	169.46	
			For 24 Gauge, Add	16.42	
			For 22 Gauge, Add	37.77	
			For 20 Gauge, Add	61.58	
			For 18 Gauge, Add	94.43	
			For 16 Gauge, Add	114.95	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	60.76	
			For Work In Restricted Working Space, Add	127.10	
23 31 13 16-0134	EA		16" x 16" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	587.05	123.16
			For Seal Class B, Add	73.78	
			For Seal Class A, Add	196.76	
			For 24 Gauge, Add	19.03	
			For 22 Gauge, Add	43.77	
			For 20 Gauge, Add	71.37	
			For 18 Gauge, Add	109.43	
			For 16 Gauge, Add	133.22	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	70.42	
			For Work In Restricted Working Space, Add	147.57	
23 31 13 16-0135	EA		18" x 18" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	656.99	137.70
			For Seal Class B, Add	82.56	
			For Seal Class A, Add	220.15	
			For 24 Gauge, Add	21.32	
			For 22 Gauge, Add	49.05	
			For 20 Gauge, Add	79.97	
			For 18 Gauge, Add	122.61	
			For 16 Gauge, Add	149.27	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	78.90	
			For Work In Restricted Working Space, Add	165.11	
23 31 13 16-0136	EA		20" x 20" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	747.28	156.64
			For Seal Class B, Add	93.89	
			For Seal Class A, Add	250.38	
			For 24 Gauge, Add	24.27	
			For 22 Gauge, Add	55.82	
			For 20 Gauge, Add	91.01	
			For 18 Gauge, Add	139.54	
			For 16 Gauge, Add	169.88	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	89.79	
			For Work In Restricted Working Space, Add	187.78	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0137	EA		22" x 22" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	834.25	174.72
			For Seal Class B, Add	104.85	
			For Seal Class A, Add	279.60	
			For 24 Gauge, Add	27.05	
			For 22 Gauge, Add	62.22	
			For 20 Gauge, Add	101.45	
			For 18 Gauge, Add	155.55	
			For 16 Gauge, Add	189.36	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	100.09	
			For Work In Restricted Working Space, Add	209.70	
23 31 13 16-0138	EA		24" x 24" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	904.52	189.63
			For Seal Class B, Add	113.69	
			For Seal Class A, Add	303.18	
			For 24 Gauge, Add	29.31	
			For 22 Gauge, Add	67.42	
			For 20 Gauge, Add	109.92	
			For 18 Gauge, Add	168.54	
			For 16 Gauge, Add	205.18	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	108.45	
			For Work In Restricted Working Space, Add	227.39	
23 31 13 16-0139 Slip Joint, Galvanized, Spiral Duct Reducers (23 31 13 16-0074)					
23 31 13 16-0140	EA		6" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	115.18	24.44
			For Seal Class B, Add	14.66	
			For Seal Class A, Add	39.10	
			For 24 Gauge, Add	3.49	
			For 22 Gauge, Add	8.02	
			For 20 Gauge, Add	13.08	
			For 18 Gauge, Add	20.06	
			For 16 Gauge, Add	24.42	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	12.91	
			For Work In Restricted Working Space, Add	29.32	
23 31 13 16-0141	EA		8" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	147.82	31.77
			For Seal Class B, Add	19.29	
			For Seal Class A, Add	51.45	
			For 24 Gauge, Add	3.64	
			For 22 Gauge, Add	8.83	
			For 20 Gauge, Add	14.40	
			For 18 Gauge, Add	22.08	
			For 16 Gauge, Add	26.88	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.21	
			For Work In Restricted Working Space, Add	38.59	
23 31 13 16-0142	EA		10" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	184.16	40.33
			For Seal Class B, Add	24.44	
			For Seal Class A, Add	65.16	
			For 24 Gauge, Add	4.25	
			For 22 Gauge, Add	9.78	
			For 20 Gauge, Add	15.94	
			For 18 Gauge, Add	24.44	
			For 16 Gauge, Add	29.75	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	15.73	
			For Work In Restricted Working Space, Add	48.87	
23 31 13 16-0143	EA		12" x 10", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	226.94	51.32
			For Seal Class B, Add	30.55	
			For Seal Class A, Add	81.46	
			For 24 Gauge, Add	4.66	
			For 22 Gauge, Add	10.72	
			For 20 Gauge, Add	17.48	
			For 18 Gauge, Add	26.80	
			For 16 Gauge, Add	32.62	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	17.24	
			For Work In Restricted Working Space, Add	61.09	
23 31 13 16-0144	EA		14" x 12", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	248.09	56.20
			For Seal Class B, Add	33.32	
			For Seal Class A, Add	88.86	
			For 24 Gauge, Add	5.19	
			For 22 Gauge, Add	11.93	
			For 20 Gauge, Add	19.46	
			For 18 Gauge, Add	29.83	
			For 16 Gauge, Add	36.32	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.20	
			For Work In Restricted Working Space, Add	66.65	
23 31 13 16-0145	EA		16" x 14", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	307.60	65.97
			For Seal Class B, Add	39.41	
			For Seal Class A, Add	105.10	
			For 24 Gauge, Add	8.97	
			For 22 Gauge, Add	20.63	
			For 20 Gauge, Add	33.63	
			For 18 Gauge, Add	51.57	
			For 16 Gauge, Add	62.78	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	33.18	
			For Work In Restricted Working Space, Add	78.83	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0146	EA		18" x 16", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	373.74	81.86
			For Seal Class B, Add	48.87	
			For Seal Class A, Add	130.33	
			For 24 Gauge, Add	9.58	
			For 22 Gauge, Add	22.04	
			For 20 Gauge, Add	35.94	
			For 18 Gauge, Add	55.11	
			For 16 Gauge, Add	67.09	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	35.46	
			For Work In Restricted Working Space, Add	97.75	
23 31 13 16-0147	EA		20" x 18", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	445.29	98.97
			For Seal Class B, Add	59.12	
			For Seal Class A, Add	157.66	
			For 24 Gauge, Add	10.23	
			For 22 Gauge, Add	23.53	
			For 20 Gauge, Add	38.36	
			For 18 Gauge, Add	58.82	
			For 16 Gauge, Add	71.61	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	37.85	
			For Work In Restricted Working Space, Add	118.24	
23 31 13 16-0148	EA		22" x 20", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	515.44	114.86
			For Seal Class B, Add	69.16	
			For Seal Class A, Add	184.43	
			For 24 Gauge, Add	10.87	
			For 22 Gauge, Add	25.01	
			For 20 Gauge, Add	40.78	
			For 18 Gauge, Add	62.53	
			For 16 Gauge, Add	76.12	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	40.23	
			For Work In Restricted Working Space, Add	138.32	
23 31 13 16-0149	EA		24" x 22", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	577.23	130.74
			For Seal Class B, Add	77.99	
			For Seal Class A, Add	207.97	
			For 24 Gauge, Add	11.46	
			For 22 Gauge, Add	26.36	
			For 20 Gauge, Add	42.98	
			For 18 Gauge, Add	65.90	
			For 16 Gauge, Add	80.22	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	42.40	
			For Work In Restricted Working Space, Add	155.98	
23 31 13 16-0150			Slip Joint, Galvanized, Spiral Duct Couplings (23 31 13 16-0074)		
23 31 13 16-0151	EA		4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	74.29	17.10
			For Seal Class B, Add	9.91	
			For Seal Class A, Add	26.42	
			For 24 Gauge, Add	1.65	
			For 22 Gauge, Add	3.80	
			For 20 Gauge, Add	6.19	
			For 18 Gauge, Add	9.49	
			For 16 Gauge, Add	11.55	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.11	
			For Work In Restricted Working Space, Add	19.81	
23 31 13 16-0152	EA		6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	107.12	24.44
			For Seal Class B, Add	14.66	
			For Seal Class A, Add	39.10	
			For 24 Gauge, Add	1.88	
			For 22 Gauge, Add	4.31	
			For 20 Gauge, Add	7.04	
			For 18 Gauge, Add	10.79	
			For 16 Gauge, Add	13.13	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.94	
			For Work In Restricted Working Space, Add	29.32	
23 31 13 16-0153	EA		8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	138.73	31.77
			For Seal Class B, Add	19.29	
			For Seal Class A, Add	51.45	
			For 24 Gauge, Add	2.02	
			For 22 Gauge, Add	4.65	
			For 20 Gauge, Add	7.58	
			For 18 Gauge, Add	11.63	
			For 16 Gauge, Add	14.15	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.48	
			For Work In Restricted Working Space, Add	38.59	
23 31 13 16-0154	EA		10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	173.76	40.33
			For Seal Class B, Add	24.44	
			For Seal Class A, Add	65.16	
			For 24 Gauge, Add	2.17	
			For 22 Gauge, Add	4.99	
			For 20 Gauge, Add	8.14	
			For 18 Gauge, Add	12.48	
			For 16 Gauge, Add	15.19	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.03	
			For Work In Restricted Working Space, Add	48.87	



Heating, Ventilating, and Air-Conditioning (HVAC)		23	23
HVAC Air Distribution		23 30	
HVAC Ducts and Casings		23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0155	EA		12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	215.22	51.32
			For Seal Class B, Add	30.55	
			For Seal Class A, Add	81.46	
			For 24 Gauge, Add	2.32	
			For 22 Gauge, Add	5.33	
			For 20 Gauge, Add	8.69	
			For 18 Gauge, Add	13.32	
			For 16 Gauge, Add	16.21	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.57	
			For Work In Restricted Working Space, Add	61.09	
23 31 13 16-0156	EA		14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	234.46	56.20
			For Seal Class B, Add	33.32	
			For Seal Class A, Add	88.86	
			For 24 Gauge, Add	2.46	
			For 22 Gauge, Add	5.66	
			For 20 Gauge, Add	9.23	
			For 18 Gauge, Add	14.16	
			For 16 Gauge, Add	17.23	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.11	
			For Work In Restricted Working Space, Add	66.65	
23 31 13 16-0157	EA		16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	276.39	65.97
			For Seal Class B, Add	39.41	
			For Seal Class A, Add	105.10	
			For 24 Gauge, Add	2.73	
			For 22 Gauge, Add	6.27	
			For 20 Gauge, Add	10.22	
			For 18 Gauge, Add	15.67	
			For 16 Gauge, Add	19.08	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.09	
			For Work In Restricted Working Space, Add	78.83	
23 31 13 16-0158	EA		18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	340.18	81.86
			For Seal Class B, Add	48.87	
			For Seal Class A, Add	130.33	
			For 24 Gauge, Add	2.87	
			For 22 Gauge, Add	6.61	
			For 20 Gauge, Add	10.77	
			For 18 Gauge, Add	16.51	
			For 16 Gauge, Add	20.10	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.63	
			For Work In Restricted Working Space, Add	97.75	
23 31 13 16-0159	EA		20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	409.38	98.97
			For Seal Class B, Add	59.12	
			For Seal Class A, Add	157.66	
			For 24 Gauge, Add	3.05	
			For 22 Gauge, Add	7.01	
			For 20 Gauge, Add	11.43	
			For 18 Gauge, Add	17.53	
			For 16 Gauge, Add	21.34	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.28	
			For Work In Restricted Working Space, Add	118.24	
23 31 13 16-0160	EA		22 Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	476.90	230.93
			For Seal Class B, Add	69.16	
			For Seal Class A, Add	184.43	
			For 24 Gauge, Add	3.17	
			For 22 Gauge, Add	7.28	
			For 20 Gauge, Add	11.87	
			For 18 Gauge, Add	18.20	
			For 16 Gauge, Add	22.16	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.71	
			For Work In Restricted Working Space, Add	138.32	
23 31 13 16-0161	EA		24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	536.64	260.25
			For Seal Class B, Add	77.99	
			For Seal Class A, Add	207.97	
			For 24 Gauge, Add	3.34	
			For 22 Gauge, Add	7.69	
			For 20 Gauge, Add	12.53	
			For 18 Gauge, Add	19.22	
			For 16 Gauge, Add	23.39	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	12.37	
			For Work In Restricted Working Space, Add	155.98	
23 31 13 16-0162			Slip Joint, Galvanized, Spiral Duct Caps (23 31 13 16-0074)		
23 31 13 16-0163	EA		4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap	42.70	17.10
			For Seal Class B, Add	4.95	
			For Seal Class A, Add	13.21	
			For 24 Gauge, Add	1.93	
			For 22 Gauge, Add	4.45	
			For 20 Gauge, Add	7.25	
			For 18 Gauge, Add	11.12	
			For 16 Gauge, Add	13.54	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.16	
			For Work In Restricted Working Space, Add	9.91	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0164	EA		6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap	59.72	24.44
			For Seal Class B, Add	7.33	
			For Seal Class A, Add	19.55	
			For 24 Gauge, Add	2.17	
			For 22 Gauge, Add	4.99	
			For 20 Gauge, Add	8.14	
			For 18 Gauge, Add	12.48	
			For 16 Gauge, Add	15.19	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.03	
			For Work In Restricted Working Space, Add	14.66	
23 31 13 16-0165	EA		8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap	76.17	32.99
			For Seal Class B, Add	9.65	
			For Seal Class A, Add	25.72	
			For 24 Gauge, Add	2.37	
			For 22 Gauge, Add	5.46	
			For 20 Gauge, Add	8.90	
			For 18 Gauge, Add	13.65	
			For 16 Gauge, Add	16.62	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.78	
			For Work In Restricted Working Space, Add	19.29	
23 31 13 16-0166	EA		10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap	94.65	41.54
			For Seal Class B, Add	12.22	
			For Seal Class A, Add	32.58	
			For 24 Gauge, Add	2.64	
			For 22 Gauge, Add	6.07	
			For 20 Gauge, Add	9.89	
			For 18 Gauge, Add	15.17	
			For 16 Gauge, Add	18.47	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.76	
			For Work In Restricted Working Space, Add	24.44	
23 31 13 16-0167	EA		12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap	116.48	51.32
			For Seal Class B, Add	15.27	
			For Seal Class A, Add	40.73	
			For 24 Gauge, Add	2.93	
			For 22 Gauge, Add	6.74	
			For 20 Gauge, Add	11.00	
			For 18 Gauge, Add	16.86	
			For 16 Gauge, Add	20.52	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.85	
			For Work In Restricted Working Space, Add	30.55	
23 31 13 16-0168	EA		14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap	127.20	56.20
			For Seal Class B, Add	16.66	
			For Seal Class A, Add	44.43	
			For 24 Gauge, Add	3.22	
			For 22 Gauge, Add	7.42	
			For 20 Gauge, Add	12.09	
			For 18 Gauge, Add	18.54	
			For 16 Gauge, Add	22.57	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.93	
			For Work In Restricted Working Space, Add	33.32	
23 31 13 16-0169	EA		16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap	147.23	64.76
			For Seal Class B, Add	19.29	
			For Seal Class A, Add	51.45	
			For 24 Gauge, Add	3.72	
			For 22 Gauge, Add	8.56	
			For 20 Gauge, Add	13.96	
			For 18 Gauge, Add	21.40	
			For 16 Gauge, Add	26.05	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.77	
			For Work In Restricted Working Space, Add	38.59	
23 31 13 16-0170	EA		18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap	225.63	81.86
			For Seal Class B, Add	24.44	
			For Seal Class A, Add	65.16	
			For 24 Gauge, Add	12.54	
			For 22 Gauge, Add	28.85	
			For 20 Gauge, Add	47.04	
			For 18 Gauge, Add	72.13	
			For 16 Gauge, Add	87.81	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	46.41	
			For Work In Restricted Working Space, Add	48.87	
23 31 13 16-0171	EA		20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap	271.64	101.41
			For Seal Class B, Add	30.55	
			For Seal Class A, Add	81.46	
			For 24 Gauge, Add	13.60	
			For 22 Gauge, Add	31.28	
			For 20 Gauge, Add	51.00	
			For 18 Gauge, Add	78.20	
			For 16 Gauge, Add	95.20	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	50.32	
			For Work In Restricted Working Space, Add	61.09	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts and Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0172	EA		22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap	295.42	111.19
			For Seal Class B, Add	33.32	
			For Seal Class A, Add	88.86	
			For 24 Gauge, Add	14.65	
			For 22 Gauge, Add	33.70	
			For 20 Gauge, Add	54.95	
			For 18 Gauge, Add	84.26	
			For 16 Gauge, Add	102.58	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	54.22	
			For Work In Restricted Working Space, Add	66.65	
23 31 13 16-0173	EA		24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap	338.66	129.51
			For Seal Class B, Add	38.99	
			For Seal Class A, Add	103.98	
			For 24 Gauge, Add	15.74	
			For 22 Gauge, Add	36.20	
			For 20 Gauge, Add	59.03	
			For 18 Gauge, Add	90.51	
			For 16 Gauge, Add	110.18	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	58.24	
			For Work In Restricted Working Space, Add	77.99	
23 31 13 19 Metal Duct Fittings (23 31 13)					
23 31 13 19-0001 Sheet Metal Baffles (23 31 13 19)					
23 31 13 19-0002	LF		Sheet Metal Baffles Under Raised Floor	46.75	37.52
			For Work In Restricted Working Space, Add	13.72	
			For Elevated Installation >10' To 15' Above Floor, Add	4.57	
			For Elevated Installation >15' To 20' Above Floor, Add	9.15	
			For Elevated Installation >20' To 25' Above Floor, Add	11.43	
			For Elevated Installation >25' To 30' Above Floor, Add	16.01	
			For Elevated Installation >30' To 35' Above Floor, Add	18.29	
			For Elevated Installation >35' To 40' Above Floor, Add	22.87	
			For Elevated Installation >40' Above Floor, Add	25.15	
23 31 13 19-0003 Duct Register Boots (23 31 13 19)					
23 31 13 19-0004	EA		10" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel	42.90	16.55
			For Stainless Steel, Add	11.75	
23 31 13 19-0005	EA		10" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel	42.90	16.55
			For Stainless Steel, Add	11.75	
23 31 13 19-0006	EA		12" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel	45.77	17.88
			For Stainless Steel, Add	12.01	
23 31 13 19-0007	EA		12" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel	45.77	17.88
			For Stainless Steel, Add	12.01	
23 31 13 19-0008	EA		12" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel	48.18	17.88
			For Stainless Steel, Add	14.90	
23 31 13 19-0009	EA		14" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel	49.61	19.20
			For Stainless Steel, Add	13.44	
23 31 13 19-0010	EA		14" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel	49.61	19.20
			For Stainless Steel, Add	13.44	
23 31 13 19-0011	EA		14" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel	51.11	19.20
			For Stainless Steel, Add	15.24	
23 31 13 19-0012	EA		10" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel	49.87	20.53
			For Stainless Steel, Add	10.57	
23 31 13 19-0013	EA		12" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel	52.77	21.86
			For Stainless Steel, Add	10.88	
23 31 13 19-0014	EA		12" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel	58.93	21.86
			For Stainless Steel, Add	18.28	
23 31 13 19-0015	EA		14" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel	55.97	23.17
			For Stainless Steel, Add	11.53	
23 31 13 19-0016	EA		14" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel	62.00	23.17
			For Stainless Steel, Add	18.77	
23 31 13 19-0017	EA		12" x 2-1/4" x 5" Register Boot, Center, Galvanized Steel	44.31	17.88
			For Stainless Steel, Add	10.26	
23 31 13 19-0018	EA		12" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel	44.31	17.88
			For Stainless Steel, Add	10.26	
23 31 13 19-0019	EA		14" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel	47.94	19.20
			For Stainless Steel, Add	11.44	
23 31 13 19-0020	EA		14" x 2-1/4" x 7" Register Boot, Center, Galvanized Steel	49.37	19.20
			For Stainless Steel, Add	13.15	
23 31 13 19-0021	EA		10" x 4" x 6" Register Boot, Center, Galvanized Steel	50.07	20.53
			For Stainless Steel, Add	10.81	
23 31 13 19-0022	EA		12" x 4" x 6" Register Boot, Center, Galvanized Steel	52.94	21.86
			For Stainless Steel, Add	11.09	
23 31 13 19-0023	EA		12" x 2-1/4" x 6" Register Boot, End, Galvanized Steel	45.29	17.88
			For Stainless Steel, Add	11.44	
23 31 13 19-0024	EA		14" x 2-1/4" x 6" Register Boot, End, Galvanized Steel	48.52	19.20
			For Stainless Steel, Add	12.13	
23 31 13 19-0025	EA		10" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel	42.90	16.55
			For Stainless Steel, Add	11.75	
23 31 13 19-0026	EA		12" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel	45.77	17.88
			For Stainless Steel, Add	12.01	
23 31 13 19-0027	EA		14" x 2-1/4" x 5" Register Boot, Universal, Galvanized Steel	49.61	19.20
			For Stainless Steel, Add	13.44	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 19-0028 EA 14" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	49.61	19.20
For Stainless Steel, Add	13.44	
23 31 13 19-0029 EA 10" x 4" x 6" Register Boot, Universal, Galvanized Steel.....	49.87	20.53
For Stainless Steel, Add	10.57	
23 31 13 19-0030 EA 12" x 4" x 6" Register Boot, Universal, Galvanized Steel.....	52.77	21.86
For Stainless Steel, Add	10.88	
23 31 13 19-0031 EA 12" x 4" x 7" Register Boot, Universal, Galvanized Steel.....	58.93	21.86
For Stainless Steel, Add	18.28	
23 31 13 19-0032 EA 14" x 4" x 7" Register Boot, Universal, Galvanized Steel.....	61.59	23.17
For Stainless Steel, Add	18.28	
23 31 13 23 Galvanized Steel Welded Duct (23 31 13)		
Note: All field fabricated duct is assembled from flat duct sheets on site to fit to exact field conditions. Ductwork which is fabricated off site or snap-fitting duct is considered as shop fabricated.		
23 31 13 23-0001 Welded Steel Ductwork (23 31 13 23)		
Note: Ductwork poundage includes all fittings, transitions, collars, straps, support straps, etc.		
23 31 13 23-0002 Galvanized Steel Welded Duct, For Kitchen (23 31 13 23-0001)		
Note: Also includes special exhaust systems and waste.		
23 31 13 23-0003 LB Galvanized Steel Welded Duct.....	26.96	11.37
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.07	
For Work In Restricted Working Space, Add	6.84	
For Elevated Installation >10' To 15' Above Floor, Add	2.28	
For Elevated Installation >15' To 20' Above Floor, Add	4.56	
For Elevated Installation >20' To 25' Above Floor, Add	5.70	
For Elevated Installation >25' To 30' Above Floor, Add	7.98	
For Elevated Installation >30' To 35' Above Floor, Add	9.12	
For Elevated Installation >35' To 40' Above Floor, Add	11.41	
For Elevated Installation >40' Above Floor, Add	12.55	
23 31 13 23-0004 Black Steel Ductwork (23 31 13 23-0001)		
23 31 13 23-0005 LB Black Steel Ductwork.....	24.38	11.73
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	0.69	
For Work In Restricted Working Space, Add	7.04	
For Elevated Installation >10' To 15' Above Floor, Add	2.35	
For Elevated Installation >15' To 20' Above Floor, Add	4.69	
For Elevated Installation >20' To 25' Above Floor, Add	5.86	
For Elevated Installation >25' To 30' Above Floor, Add	8.21	
For Elevated Installation >30' To 35' Above Floor, Add	9.38	
For Elevated Installation >35' To 40' Above Floor, Add	11.73	
For Elevated Installation >40' Above Floor, Add	12.90	
23 31 16 Non-metal Ducts (23 31)		
23 31 16 13 Fibrous-Glass Ducts (23 31 16)		
23 31 16 13-0001 Glass Fiber Duct Board (23 31 16 13)		
Note: Rigid, rectangular boards faced on one side with a fire-resistant foil-scrim-kraft (FSK) vapor retarder and a lightweight fiber glass mat on the airstream surface.		
23 31 16 13-0002 SF 1" Glass Fiber Duct Board (EI-475).....	11.81	2.35
23 31 16 13-0003 SF 1-1/2" Glass Fiber Duct Board (EI-800).....	13.96	2.58
23 31 16 13-0004 SF 2" Glass Fiber Duct Board (EI-800).....	16.20	2.84
23 31 16 16 Thermoset Fiberglass-Reinforced Plastic Ducts (23 31 16)		
23 31 16 16-0001 Fiber Reinforced Round Plastic Duct (23 31 16 16)		
23 31 16 16-0002 Fiber Reinforced Round Plastic Duct (23 31 16 16-0001)		
23 31 16 16-0003 LF 2" Fiber Reinforced Plastic Duct.....	19.89	5.88
23 31 16 16-0004 LF 3" Fiber Reinforced Plastic Duct.....	25.04	6.89
23 31 16 16-0005 LF 4" Fiber Reinforced Plastic Duct.....	33.75	10.11
23 31 16 16-0006 LF 6" Fiber Reinforced Plastic Duct.....	44.93	12.77
23 31 16 16-0007 LF 8" Fiber Reinforced Plastic Duct.....	57.02	15.99
23 31 16 16-0008 LF 10" Fiber Reinforced Plastic Duct.....	68.78	19.22
23 31 16 16-0009 LF 12" Fiber Reinforced Plastic Duct.....	77.18	22.44
23 31 16 16-0010 LF 14" Fiber Reinforced Plastic Duct.....	88.40	24.54
23 31 16 16-0011 LF 16" Fiber Reinforced Plastic Duct.....	95.67	26.10
23 31 16 16-0012 LF 18" Fiber Reinforced Plastic Duct.....	120.01	29.32
23 31 16 16-0013 LF 20" Fiber Reinforced Plastic Duct.....	126.01	31.43
23 31 16 16-0014 LF 24" Fiber Reinforced Plastic Duct.....	157.16	33.55
23 31 16 16-0015 LF 30" Fiber Reinforced Plastic Duct.....	179.86	38.87
23 31 16 16-0016 LF 36" Fiber Reinforced Plastic Duct.....	206.98	46.87
23 31 16 16-0017 LF 42" Fiber Reinforced Plastic Duct.....	280.25	52.20
23 31 16 16-0018 LF 48" Fiber Reinforced Plastic Duct.....	313.92	58.64
23 31 16 16-0019 LF 54" Fiber Reinforced Plastic Duct.....	348.07	67.19
23 31 16 16-0020 LF 60" Fiber Reinforced Plastic Duct.....	394.32	78.41
23 31 16 16-0021 LF 66" Fiber Reinforced Plastic Duct.....	419.04	95.96
23 31 16 16-0022 LF 72" Fiber Reinforced Plastic Duct.....	511.30	117.28



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Ducts and Casings			23 31

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0023 Fiber Reinforced Plastic Bell (23 31 16 16-0001)		
23 31 16 16-0024 EA 2" Fiber Reinforced Plastic Bell	66.76	23.88
23 31 16 16-0025 EA 3" Fiber Reinforced Plastic Bell	80.39	28.32
23 31 16 16-0026 EA 4" Fiber Reinforced Plastic Bell	92.76	33.32
23 31 16 16-0027 EA 6" Fiber Reinforced Plastic Bell	122.10	44.42
23 31 16 16-0028 EA 8" Fiber Reinforced Plastic Bell	149.06	55.53
23 31 16 16-0029 EA 10" Fiber Reinforced Plastic Bell	173.65	66.64
23 31 16 16-0030 EA 12" Fiber Reinforced Plastic Bell	215.35	82.74
23 31 16 16-0031 EA 14" Fiber Reinforced Plastic Bell	230.10	88.85
23 31 16 16-0032 EA 16" Fiber Reinforced Plastic Bell	249.28	94.96
23 31 16 16-0033 EA 18" Fiber Reinforced Plastic Bell	268.48	102.18
23 31 16 16-0034 EA 20" Fiber Reinforced Plastic Bell	293.37	111.06
23 31 16 16-0035 EA 24" Fiber Reinforced Plastic Bell	339.33	122.17
23 31 16 16-0036 EA 30" Fiber Reinforced Plastic Bell	392.40	133.28
23 31 16 16-0037 EA 36" Fiber Reinforced Plastic Bell	444.74	149.93
23 31 16 16-0038 EA 42" Fiber Reinforced Plastic Bell	497.06	166.60
23 31 16 16-0039 EA 48" Fiber Reinforced Plastic Bell	549.37	183.26
23 31 16 16-0040 EA 54" Fiber Reinforced Plastic Bell	681.73	222.13
23 31 16 16-0041 EA 60" Fiber Reinforced Plastic Bell	816.54	277.66
23 31 16 16-0042 EA 66" Fiber Reinforced Plastic Bell	979.80	333.19
23 31 16 16-0043 EA 72" Fiber Reinforced Plastic Bell	1,121.05	377.62
23 31 16 16-0044 Fiber Reinforced Plastic Flange (23 31 16 16-0001)		
23 31 16 16-0045 EA 2" Fiber Reinforced Plastic Flange	104.75	23.88
23 31 16 16-0046 EA 3" Fiber Reinforced Plastic Flange	120.76	28.32
23 31 16 16-0047 EA 4" Fiber Reinforced Plastic Flange	137.88	33.32
23 31 16 16-0048 EA 6" Fiber Reinforced Plastic Flange	179.09	44.42
23 31 16 16-0049 EA 8" Fiber Reinforced Plastic Flange	217.92	55.53
23 31 16 16-0050 EA 10" Fiber Reinforced Plastic Flange	256.77	66.64
23 31 16 16-0051 EA 12" Fiber Reinforced Plastic Flange	303.21	82.74
23 31 16 16-0052 EA 14" Fiber Reinforced Plastic Flange	336.96	88.85
23 31 16 16-0053 EA 16" Fiber Reinforced Plastic Flange	368.02	94.96
23 31 16 16-0054 EA 18" Fiber Reinforced Plastic Flange	391.96	102.18
23 31 16 16-0055 EA 20" Fiber Reinforced Plastic Flange	412.11	111.06
23 31 16 16-0056 EA 24" Fiber Reinforced Plastic Flange	481.81	122.17
23 31 16 16-0057 EA 30" Fiber Reinforced Plastic Flange	530.14	133.28
23 31 16 16-0058 EA 36" Fiber Reinforced Plastic Flange	651.34	149.93
23 31 16 16-0059 EA 42" Fiber Reinforced Plastic Flange	725.03	166.60
23 31 16 16-0060 EA 48" Fiber Reinforced Plastic Flange	822.46	183.26
23 31 16 16-0061 EA 54" Fiber Reinforced Plastic Flange	966.70	222.13
23 31 16 16-0062 EA 60" Fiber Reinforced Plastic Flange	1,156.13	277.66
23 31 16 16-0063 EA 66" Fiber Reinforced Plastic Flange	1,345.51	333.19
23 31 16 16-0064 EA 72" Fiber Reinforced Plastic Flange	1,539.00	377.62
23 31 16 16-0065 Fiber Reinforced Plastic 90 Degree Elbow (23 31 16 16-0001)		
23 31 16 16-0066 EA 2" Fiber Reinforced Plastic 90 Degree Elbow	174.33	57.53
23 31 16 16-0067 EA 3" Fiber Reinforced Plastic 90 Degree Elbow	204.86	68.75
23 31 16 16-0068 EA 4" Fiber Reinforced Plastic 90 Degree Elbow	237.77	79.96
23 31 16 16-0069 EA 6" Fiber Reinforced Plastic 90 Degree Elbow	308.31	106.62
23 31 16 16-0070 EA 8" Fiber Reinforced Plastic 90 Degree Elbow	378.86	133.28
23 31 16 16-0071 EA 10" Fiber Reinforced Plastic 90 Degree Elbow	449.43	159.93
23 31 16 16-0072 EA 12" Fiber Reinforced Plastic 90 Degree Elbow	552.31	198.92
23 31 16 16-0073 EA 14" Fiber Reinforced Plastic 90 Degree Elbow	624.08	210.58
23 31 16 16-0074 EA 16" Fiber Reinforced Plastic 90 Degree Elbow	708.90	228.68
23 31 16 16-0075 EA 18" Fiber Reinforced Plastic 90 Degree Elbow	840.94	245.23
23 31 16 16-0076 EA 20" Fiber Reinforced Plastic 90 Degree Elbow	966.77	266.55
23 31 16 16-0077 EA 24" Fiber Reinforced Plastic 90 Degree Elbow	1,118.06	293.21
23 31 16 16-0078 EA 30" Fiber Reinforced Plastic 90 Degree Elbow	1,494.92	319.87
23 31 16 16-0079 EA 36" Fiber Reinforced Plastic 90 Degree Elbow	1,905.94	359.85
23 31 16 16-0080 EA 42" Fiber Reinforced Plastic 90 Degree Elbow	2,495.04	399.94
23 31 16 16-0081 EA 48" Fiber Reinforced Plastic 90 Degree Elbow	2,953.57	439.92
23 31 16 16-0082 EA 54" Fiber Reinforced Plastic 90 Degree Elbow	3,500.72	533.11
23 31 16 16-0083 EA 60" Fiber Reinforced Plastic 90 Degree Elbow	4,245.30	666.38
23 31 16 16-0084 EA 66" Fiber Reinforced Plastic 90 Degree Elbow	4,989.44	799.44
23 31 16 16-0085 EA 72" Fiber Reinforced Plastic 90 Degree Elbow	5,689.39	905.96
23 31 16 16-0086 Fiber Reinforced Plastic 45 Degree Elbow (23 31 16 16-0001)		
23 31 16 16-0087 EA 2" Fiber Reinforced Plastic 45 Degree Elbow	148.19	57.53
23 31 16 16-0088 EA 3" Fiber Reinforced Plastic 45 Degree Elbow	173.99	68.75
23 31 16 16-0089 EA 4" Fiber Reinforced Plastic 45 Degree Elbow	202.12	79.96
23 31 16 16-0090 EA 6" Fiber Reinforced Plastic 45 Degree Elbow	256.07	106.62
23 31 16 16-0091 EA 8" Fiber Reinforced Plastic 45 Degree Elbow	310.00	133.28
23 31 16 16-0092 EA 10" Fiber Reinforced Plastic 45 Degree Elbow	368.75	159.93
23 31 16 16-0093 EA 12" Fiber Reinforced Plastic 45 Degree Elbow	455.03	198.92
23 31 16 16-0094 EA 14" Fiber Reinforced Plastic 45 Degree Elbow	493.38	210.58
23 31 16 16-0095 EA 16" Fiber Reinforced Plastic 45 Degree Elbow	585.22	228.57
23 31 16 16-0096 EA 18" Fiber Reinforced Plastic 45 Degree Elbow	670.26	245.45

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0097 EA 20" Fiber Reinforced Plastic 45 Degree Elbow	771.97	266.55
23 31 16 16-0098 EA 24" Fiber Reinforced Plastic 45 Degree Elbow	887.20	292.99
23 31 16 16-0099 EA 30" Fiber Reinforced Plastic 45 Degree Elbow	1,114.54	319.65
23 31 16 16-0100 EA 36" Fiber Reinforced Plastic 45 Degree Elbow	1,357.89	360.18
23 31 16 16-0101 EA 42" Fiber Reinforced Plastic 45 Degree Elbow	1,718.99	400.16
23 31 16 16-0102 EA 48" Fiber Reinforced Plastic 45 Degree Elbow	2,015.55	439.92
23 31 16 16-0103 EA 54" Fiber Reinforced Plastic 45 Degree Elbow	2,403.59	533.11
23 31 16 16-0104 EA 60" Fiber Reinforced Plastic 45 Degree Elbow	2,886.95	666.38
23 31 16 16-0105 EA 66" Fiber Reinforced Plastic 45 Degree Elbow	3,395.81	797.89
23 31 16 16-0106 EA 72" Fiber Reinforced Plastic 45 Degree Elbow	3,838.74	906.84
23 31 16 16-0107 Fiber Reinforced Plastic Tee (23 31 16 16-0001)		
23 31 16 16-0108 EA 2" Fiber Reinforced Plastic Tee	226.18	85.85
23 31 16 16-0109 EA 3" Fiber Reinforced Plastic Tee	267.35	103.40
23 31 16 16-0110 EA 4" Fiber Reinforced Plastic Tee	306.77	119.95
23 31 16 16-0111 EA 6" Fiber Reinforced Plastic Tee	397.18	159.93
23 31 16 16-0112 EA 8" Fiber Reinforced Plastic Tee	485.82	198.92
23 31 16 16-0113 EA 10" Fiber Reinforced Plastic Tee	579.70	241.01
23 31 16 16-0114 EA 12" Fiber Reinforced Plastic Tee	700.60	292.10
23 31 16 16-0115 EA 14" Fiber Reinforced Plastic Tee	764.34	316.09
23 31 16 16-0116 EA 16" Fiber Reinforced Plastic Tee	880.98	343.41
23 31 16 16-0117 EA 18" Fiber Reinforced Plastic Tee	993.04	367.84
23 31 16 16-0118 EA 20" Fiber Reinforced Plastic Tee	1,141.44	399.94
23 31 16 16-0119 EA 24" Fiber Reinforced Plastic Tee	1,303.13	439.92
23 31 16 16-0120 EA 30" Fiber Reinforced Plastic Tee	1,547.53	479.69
23 31 16 16-0121 EA 36" Fiber Reinforced Plastic Tee	1,849.93	539.99
23 31 16 16-0122 EA 42" Fiber Reinforced Plastic Tee	2,424.70	599.97
23 31 16 16-0123 EA 48" Fiber Reinforced Plastic Tee	2,881.14	660.06
23 31 16 16-0124 EA 54" Fiber Reinforced Plastic Tee	3,470.89	800.22
23 31 16 16-0125 EA 60" Fiber Reinforced Plastic Tee	4,160.11	1,000.03
23 31 16 16-0126 EA 66" Fiber Reinforced Plastic Tee	4,848.69	1,199.39
23 31 16 16-0127 EA 72" Fiber Reinforced Plastic Tee	5,472.52	1,359.99
23 31 16 16-0128 Fiber Reinforced Plastic Lateral Joint (23 31 16 16-0001)		
23 31 16 16-0129 EA 2" Fiber Reinforced Plastic Lateral Joint	190.53	85.85
23 31 16 16-0130 EA 3" Fiber Reinforced Plastic Lateral Joint	224.57	103.40
23 31 16 16-0131 EA 4" Fiber Reinforced Plastic Lateral Joint	256.94	119.95
23 31 16 16-0132 EA 6" Fiber Reinforced Plastic Lateral Joint	328.38	159.93
23 31 16 16-0133 EA 8" Fiber Reinforced Plastic Lateral Joint	398.03	198.92
23 31 16 16-0134 EA 10" Fiber Reinforced Plastic Lateral Joint	477.64	241.01
23 31 16 16-0135 EA 12" Fiber Reinforced Plastic Lateral Joint	572.61	292.32
23 31 16 16-0136 EA 14" Fiber Reinforced Plastic Lateral Joint	621.36	315.87
23 31 16 16-0137 EA 16" Fiber Reinforced Plastic Lateral Joint	681.73	343.52
23 31 16 16-0138 EA 18" Fiber Reinforced Plastic Lateral Joint	737.10	368.18
23 31 16 16-0139 EA 20" Fiber Reinforced Plastic Lateral Joint	804.71	400.16
23 31 16 16-0140 EA 24" Fiber Reinforced Plastic Lateral Joint	889.92	439.92
23 31 16 16-0141 EA 30" Fiber Reinforced Plastic Lateral Joint	981.89	479.47
23 31 16 16-0142 EA 36" Fiber Reinforced Plastic Lateral Joint	1,108.43	539.66
23 31 16 16-0143 EA 42" Fiber Reinforced Plastic Lateral Joint	1,238.05	600.30
23 31 16 16-0144 EA 48" Fiber Reinforced Plastic Lateral Joint	1,360.87	659.84
23 31 16 16-0145 EA 54" Fiber Reinforced Plastic Lateral Joint	1,626.63	797.89
23 31 16 16-0146 EA 60" Fiber Reinforced Plastic Lateral Joint	1,990.23	1,001.80
23 31 16 16-0147 EA 66" Fiber Reinforced Plastic Lateral Joint	2,404.15	1,200.27
23 31 16 16-0148 EA 72" Fiber Reinforced Plastic Lateral Joint	2,694.07	1,359.99
23 31 16 16-0149 Fiber Reinforced Plastic One Piece Reducer (23 31 16 16-0001)		
23 31 16 16-0150 EA 2" Fiber Reinforced Plastic One Piece Reducer	157.73	57.65
23 31 16 16-0151 EA 3" Fiber Reinforced Plastic One Piece Reducer	185.92	68.86
23 31 16 16-0152 EA 4" Fiber Reinforced Plastic One Piece Reducer	218.82	79.96
23 31 16 16-0153 EA 6" Fiber Reinforced Plastic One Piece Reducer	282.19	106.62
23 31 16 16-0154 EA 8" Fiber Reinforced Plastic One Piece Reducer	340.87	133.28
23 31 16 16-0155 EA 10" Fiber Reinforced Plastic One Piece Reducer	410.10	160.60
23 31 16 16-0156 EA 12" Fiber Reinforced Plastic One Piece Reducer	488.27	198.92
23 31 16 16-0157 EA 14" Fiber Reinforced Plastic One Piece Reducer	521.88	210.58
23 31 16 16-0158 EA 16" Fiber Reinforced Plastic One Piece Reducer	575.72	228.57
23 31 16 16-0159 EA 18" Fiber Reinforced Plastic One Piece Reducer	632.27	245.45
23 31 16 16-0160 EA 20" Fiber Reinforced Plastic One Piece Reducer	705.48	266.55
23 31 16 16-0161 EA 24" Fiber Reinforced Plastic One Piece Reducer	802.74	293.54
23 31 16 16-0162 EA 30" Fiber Reinforced Plastic One Piece Reducer	899.67	320.42
23 31 16 16-0163 EA 36" Fiber Reinforced Plastic One Piece Reducer	1,018.30	360.18
23 31 16 16-0164 EA 42" Fiber Reinforced Plastic One Piece Reducer	1,137.18	400.16
23 31 16 16-0165 EA 48" Fiber Reinforced Plastic One Piece Reducer	1,279.38	439.92
23 31 16 16-0166 EA 54" Fiber Reinforced Plastic One Piece Reducer	1,517.82	533.11
23 31 16 16-0167 EA 60" Fiber Reinforced Plastic One Piece Reducer	1,815.94	666.38
23 31 16 16-0168 EA 66" Fiber Reinforced Plastic One Piece Reducer	2,042.21	797.89
23 31 16 16-0169 EA 72" Fiber Reinforced Plastic One Piece Reducer	2,295.15	906.84

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts and Casings

23 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0170 Fiber Reinforced Plastic Two Piece Reducer (23 31 16 16-0001)		
23 31 16 16-0171 EA 2" Fiber Reinforced Plastic Two Piece Reducer	186.23	57.65
23 31 16 16-0172 EA 3" Fiber Reinforced Plastic Two Piece Reducer	204.92	68.86
23 31 16 16-0173 EA 4" Fiber Reinforced Plastic Two Piece Reducer	237.82	79.96
23 31 16 16-0174 EA 6" Fiber Reinforced Plastic Two Piece Reducer	308.31	106.62
23 31 16 16-0175 EA 8" Fiber Reinforced Plastic Two Piece Reducer	378.86	133.28
23 31 16 16-0176 EA 10" Fiber Reinforced Plastic Two Piece Reducer	450.48	160.60
23 31 16 16-0177 EA 12" Fiber Reinforced Plastic Two Piece Reducer	540.52	198.92
23 31 16 16-0178 EA 14" Fiber Reinforced Plastic Two Piece Reducer	588.37	210.58
23 31 16 16-0179 EA 16" Fiber Reinforced Plastic Two Piece Reducer	642.21	228.57
23 31 16 16-0180 EA 18" Fiber Reinforced Plastic Two Piece Reducer	722.51	245.45
23 31 16 16-0181 EA 20" Fiber Reinforced Plastic Two Piece Reducer	904.96	266.55
23 31 16 16-0182 EA 24" Fiber Reinforced Plastic Two Piece Reducer	1,094.83	293.54
23 31 16 16-0183 EA 30" Fiber Reinforced Plastic Two Piece Reducer	1,175.14	320.42
23 31 16 16-0184 EA 36" Fiber Reinforced Plastic Two Piece Reducer	1,336.52	360.18
23 31 16 16-0185 EA 42" Fiber Reinforced Plastic Two Piece Reducer	1,450.64	400.16
23 31 16 16-0186 EA 48" Fiber Reinforced Plastic Two Piece Reducer	1,588.10	439.92
23 31 16 16-0187 EA 54" Fiber Reinforced Plastic Two Piece Reducer	1,767.16	533.11
23 31 16 16-0188 EA 60" Fiber Reinforced Plastic Two Piece Reducer	2,051.04	666.38
23 31 16 16-0189 EA 66" Fiber Reinforced Plastic Two Piece Reducer	2,303.43	797.89
23 31 16 16-0190 EA 72" Fiber Reinforced Plastic Two Piece Reducer	2,532.63	906.84
23 31 16 16-0191 Fiber Reinforced Plastic Butterfly Dampers (23 31 16 16-0001)		
23 31 16 16-0192 EA 2" Fiber Reinforced Plastic Damper	484.35	57.53
23 31 16 16-0193 EA 3" Fiber Reinforced Plastic Damper	543.91	68.75
23 31 16 16-0194 EA 4" Fiber Reinforced Plastic Damper	603.46	79.96
23 31 16 16-0195 EA 6" Fiber Reinforced Plastic Damper	709.21	106.62
23 31 16 16-0196 EA 8" Fiber Reinforced Plastic Damper	835.41	133.28
23 31 16 16-0197 EA 10" Fiber Reinforced Plastic Damper	941.18	159.93
23 31 16 16-0198 EA 12" Fiber Reinforced Plastic Damper	1,067.39	198.92
23 31 16 16-0199 EA 14" Fiber Reinforced Plastic Damper	1,189.13	210.58
23 31 16 16-0200 EA 16" Fiber Reinforced Plastic Damper	1,321.55	228.68
23 31 16 16-0201 EA 18" Fiber Reinforced Plastic Damper	1,451.31	245.23
23 31 16 16-0202 EA 20" Fiber Reinforced Plastic Damper	1,548.23	266.55
23 31 16 16-0203 EA 24" Fiber Reinforced Plastic Damper	1,756.19	293.21
23 31 16 16-0204 EA 30" Fiber Reinforced Plastic Damper	2,045.90	319.87
23 31 16 16-0205 EA 36" Fiber Reinforced Plastic Damper	2,357.89	359.85
23 31 16 16-0206 EA 42" Fiber Reinforced Plastic Damper	2,710.75	399.94
23 31 16 16-0207 EA 48" Fiber Reinforced Plastic Damper	3,022.76	439.92
23 31 16 16-0208 EA 54" Fiber Reinforced Plastic Damper	3,546.05	533.11
23 31 16 16-0209 EA 60" Fiber Reinforced Plastic Damper	4,136.14	666.38
23 31 16 16-0210 EA 66" Fiber Reinforced Plastic Damper	4,684.93	799.44
23 31 16 16-0211 EA 72" Fiber Reinforced Plastic Damper	5,393.94	905.96
23 31 16 23 Fabric Ducts (23 31 16)		
23 31 16 23-0001 Heavy-Duty Fabric Ducts (Zip-A-Duct™) (23 31 16 23)		
23 31 16 23-0002 Heavy-Duty Fabric Duct Without Vents (23 31 16 23-0001)		
Note: Includes fabric loops for cable hooks. Requires Suspension Hardware as well as an Inlet Section and Endcap per complete run. See CSI section 23 31 16 23-0064 for suspension hardware.		
23 31 16 23-0003 EA 12" Diameter x 5' Long Gray Heavy-Duty Fabric Duct Without Vents	254.89	9.19
Note: Excludes suspension cable and hardware.		
23 31 16 23-0004 EA 12" Diameter x 10' Long Gray Heavy-Duty Fabric Duct Without Vents	400.47	12.26
Note: Excludes suspension cable and hardware.		
23 31 16 23-0005 EA 16" Diameter x 5' Long Gray Heavy-Duty Fabric Duct Without Vents	303.75	15.32
Note: Excludes suspension cable and hardware.		
23 31 16 23-0006 EA 16" Diameter x 10' Long Gray Heavy-Duty Fabric Duct Without Vents	454.64	20.14
Note: Excludes suspension cable and hardware.		
23 31 16 23-0007 EA 20" Diameter x 5' Long Gray Heavy-Duty Fabric Duct Without Vents	366.42	21.02
Note: Excludes suspension cable and hardware.		
23 31 16 23-0008 EA 20" Diameter x 10' Long Gray Heavy-Duty Fabric Duct Without Vents	526.98	28.02
Note: Excludes suspension cable and hardware.		
23 31 16 23-0009 EA 24" Diameter x 5' Long Gray Heavy-Duty Fabric Duct Without Vents	424.37	27.14
Note: Excludes suspension cable and hardware.		
23 31 16 23-0010 EA 24" Diameter x 10' Long Gray Heavy-Duty Fabric Duct Without Vents	599.32	35.90
Note: Excludes suspension cable and hardware.		
23 31 16 23-0011 EA 28" Diameter x 5' Long Gray Heavy-Duty Fabric Duct Without Vents	472.66	31.09
Note: Excludes suspension cable and hardware.		
23 31 16 23-0012 EA 28" Diameter x 10' Long Gray Heavy-Duty Fabric Duct Without Vents	713.50	41.59
Note: Excludes suspension cable and hardware.		
23 31 16 23-0013 EA 32" Diameter x 5' Long Gray Heavy-Duty Fabric Duct Without Vents	519.63	34.59
Note: Excludes suspension cable and hardware.		
23 31 16 23-0014 EA 32" Diameter x 10' Long Gray Heavy-Duty Fabric Duct Without Vents	796.43	45.97
Note: Excludes suspension cable and hardware.		
23 31 16 23-0015 EA 36" Diameter x 5' Long Gray Heavy-Duty Fabric Duct Without Vents	564.50	39.41
Note: Excludes suspension cable and hardware.		
23 31 16 23-0016 EA 36" Diameter x 10' Long Gray Heavy-Duty Fabric Duct Without Vents	919.31	52.54
Note: Excludes suspension cable and hardware.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 23-0017		Heavy-Duty Fabric Duct With Vents (23 31 16 23-0001)		
23 31 16 23-0018	EA	12" Diameter x 10' Long Gray Heavy-Duty Fabric Duct With Vents..... Note: Excludes suspension cable and hardware.	703.36	12.26
23 31 16 23-0019	EA	16" Diameter x 10' Long Gray Heavy-Duty Fabric Duct With Vents..... Note: Excludes suspension cable and hardware.	775.70	20.14
23 31 16 23-0020	EA	20" Diameter x 10' Long Gray Heavy-Duty Fabric Duct With Vents..... Note: Excludes suspension cable and hardware.	863.19	28.02
23 31 16 23-0021	EA	24" Diameter x 10' Long Gray Heavy-Duty Fabric Duct With Vents..... Note: Excludes suspension cable and hardware.	953.70	35.90
23 31 16 23-0022	EA	28" Diameter x 10' Long Gray Heavy-Duty Fabric Duct With Vents..... Note: Excludes suspension cable and hardware.	1,149.66	41.59
23 31 16 23-0023	EA	32" Diameter x 10' Long Gray Heavy-Duty Fabric Duct With Vents..... Note: Excludes suspension cable and hardware.	1,232.59	45.97
23 31 16 23-0024	EA	36" Diameter x 10' Long Gray Heavy-Duty Fabric Duct With Vents..... Note: Excludes suspension cable and hardware.	1,391.82	52.54
23 31 16 23-0025		Heavy-Duty Fabric Duct 90 Degree Elbow (23 31 16 23-0001)		
23 31 16 23-0026	EA	12" Diameter Gray Heavy-Duty Fabric Duct 90 Degree Elbow Note: Excludes suspension cable and hardware.	521.24	13.14
23 31 16 23-0027	EA	16" Diameter Gray Heavy-Duty Fabric Duct 90 Degree Elbow Note: Excludes suspension cable and hardware.	578.44	21.02
23 31 16 23-0028	EA	20" Diameter Gray Heavy-Duty Fabric Duct 90 Degree Elbow Note: Excludes suspension cable and hardware.	786.69	22.77
23 31 16 23-0029	EA	24" Diameter Gray Heavy-Duty Fabric Duct 90 Degree Elbow Note: Excludes suspension cable and hardware.	958.98	30.64
23 31 16 23-0030	EA	28" Diameter Gray Heavy-Duty Fabric Duct 90 Degree Elbow Note: Excludes suspension cable and hardware.	1,214.94	34.15
23 31 16 23-0031	EA	32" Diameter Gray Heavy-Duty Fabric Duct 90 Degree Elbow Note: Excludes suspension cable and hardware.	1,518.03	37.21
23 31 16 23-0032	EA	36" Diameter Gray Heavy-Duty Fabric Duct 90 Degree Elbow Note: Excludes suspension cable and hardware.	1,725.30	41.59
23 31 16 23-0033		Heavy-Duty Fabric Duct 45 Degree Elbow (23 31 16 23-0001)		
23 31 16 23-0034	EA	12" Diameter Gray Heavy-Duty Fabric Duct 45 Degree Elbow Note: Excludes suspension cable and hardware.	397.06	13.14
23 31 16 23-0035	EA	16" Diameter Gray Heavy-Duty Fabric Duct 45 Degree Elbow Note: Excludes suspension cable and hardware.	463.34	21.02
23 31 16 23-0036	EA	20" Diameter Gray Heavy-Duty Fabric Duct 45 Degree Elbow Note: Excludes suspension cable and hardware.	520.14	22.77
23 31 16 23-0037	EA	24" Diameter Gray Heavy-Duty Fabric Duct 45 Degree Elbow Note: Excludes suspension cable and hardware.	604.60	30.64
23 31 16 23-0038	EA	28" Diameter Gray Heavy-Duty Fabric Duct 45 Degree Elbow Note: Excludes suspension cable and hardware.	700.03	34.15
23 31 16 23-0039	EA	32" Diameter Gray Heavy-Duty Fabric Duct 45 Degree Elbow Note: Excludes suspension cable and hardware.	842.58	37.21
23 31 16 23-0040	EA	36" Diameter Gray Heavy-Duty Fabric Duct 45 Degree Elbow Note: Excludes suspension cable and hardware.	961.86	41.59
23 31 16 23-0041		Heavy-Duty Fabric Duct Tee (23 31 16 23-0001)		
23 31 16 23-0042	EA	16" x 12" x 12" Gray Heavy-Duty Fabric Duct Tee..... Note: Excludes suspension cable and hardware.	1,273.99	30.64
23 31 16 23-0043	EA	20" x 16" x 16" Gray Heavy-Duty Fabric Duct Tee..... Note: Excludes suspension cable and hardware.	1,341.20	32.84
23 31 16 23-0044	EA	24" x 16" x 16" Gray Heavy-Duty Fabric Duct Tee..... Note: Excludes suspension cable and hardware.	1,448.39	44.22
23 31 16 23-0045	EA	28" x 20" x 20" Gray Heavy-Duty Fabric Duct Tee..... Note: Excludes suspension cable and hardware.	1,521.87	49.48
23 31 16 23-0046	EA	32" x 24" x 24" Gray Heavy-Duty Fabric Duct Tee..... Note: Excludes suspension cable and hardware.	1,577.53	53.85
23 31 16 23-0047	EA	36" x 28" x 28" Gray Heavy-Duty Fabric Duct Tee..... Note: Excludes suspension cable and hardware.	1,651.96	60.42
23 31 16 23-0048		Heavy-Duty Fabric Duct Inlets (23 31 16 23-0001)		
23 31 16 23-0049	EA	12" Diameter Gray Heavy-Duty Fabric Duct Transition Inlet..... Note: Excludes suspension cable and hardware.	200.18	13.14
23 31 16 23-0050	EA	16" Diameter Gray Heavy-Duty Fabric Duct Transition Inlet..... Note: Excludes suspension cable and hardware.	233.15	21.02
23 31 16 23-0051	EA	20" Diameter Gray Heavy-Duty Fabric Duct Transition Inlet..... Note: Excludes suspension cable and hardware.	250.57	22.77
23 31 16 23-0052	EA	24" Diameter Gray Heavy-Duty Fabric Duct Transition Inlet..... Note: Excludes suspension cable and hardware.	286.57	30.64
23 31 16 23-0053	EA	28" Diameter Gray Heavy-Duty Fabric Duct Transition Inlet..... Note: Excludes suspension cable and hardware.	306.27	34.15
23 31 16 23-0054	EA	32" Diameter Gray Heavy-Duty Fabric Duct Transition Inlet..... Note: Excludes suspension cable and hardware.	327.67	37.21
23 31 16 23-0055	EA	36" Diameter Gray Heavy-Duty Fabric Duct Transition Inlet..... Note: Excludes suspension cable and hardware.	359.11	41.59

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts and Casings

23 31

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 23-0056		Heavy-Duty Fabric Duct Cap (23 31 16 23-0001)		
23 31 16 23-0057	EA	12" Diameter Gray Heavy-Duty Fabric Duct End Cap Note: Excludes suspension cable and hardware.	117.62	7.88
23 31 16 23-0058	EA	16" Diameter Gray Heavy-Duty Fabric Duct End Cap Note: Excludes suspension cable and hardware.	147.37	12.70
23 31 16 23-0059	EA	20" Diameter Gray Heavy-Duty Fabric Duct End Cap Note: Excludes suspension cable and hardware.	174.25	13.57
23 31 16 23-0060	EA	24" Diameter Gray Heavy-Duty Fabric Duct End Cap Note: Excludes suspension cable and hardware.	243.36	18.39
23 31 16 23-0061	EA	28" Diameter Gray Heavy-Duty Fabric Duct End Cap Note: Excludes suspension cable and hardware.	292.39	20.57
23 31 16 23-0062	EA	32" Diameter Gray Heavy-Duty Fabric Duct End Cap Note: Excludes suspension cable and hardware.	367.37	22.33
23 31 16 23-0063	EA	36" Diameter Gray Heavy-Duty Fabric Duct End Cap Note: Excludes suspension cable and hardware.	414.71	24.96
23 31 16 23-0064		Heavy-Duty Fabric Duct Suspension Hardware (23 31 16 23-0001)		
23 31 16 23-0065	EA	12 To 20 Inch Diameter Ducts Fixing Strap With Galvanized Hardware Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct.	41.59	6.63
23 31 16 23-0066	EA	20 To 36 Inch Diameter Ducts Fixing Strap With Galvanized Hardware Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct.	65.24	9.95
23 31 16 23-0067	EA	Galvanized Cable Locks For Horizontal Cables Note: Requires two (2) cable locks per support point or per stretcher.	14.57	3.32
23 31 16 23-0068	LF	Galvanized Plastic Coated Cable For Fabric Duct Note: Excludes anchor bolts or anchors.	1.02	0.13
23 31 16 23-0069	EA	Galvanized Stretcher For Straight Fabric Duct Runs Note: Excludes anchor bolts or anchors.	34.90	6.63
23 31 16 23-0070	EA	12 To 20 Inch Diameter Ducts Fixing Strap With Stainless Steel Hardware Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct.	81.82	6.63
23 31 16 23-0071	EA	20 To 36 Inch Diameter Ducts Fixing Strap With Stainless Steel Hardware Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct.	110.98	9.95
23 31 16 23-0072	EA	Stainless Steel Cable Locks For Horizontal Cables Note: Requires two (2) cable locks per support point or per stretcher.	20.24	3.32
23 31 16 23-0073	LF	Stainless Steel Plastic Coated Cable For Fabric Duct Note: Excludes anchor bolts or anchors.	3.32	0.13
23 31 16 23-0074	EA	Stainless Steel Stretcher For Straight Fabric Duct Runs Note: Excludes anchor bolts or anchors.	49.56	6.63
23 33		Air Duct Accessories (23 30)		
23 33 13		Dampers (23 33)		
23 33 13 13		Volume-Control Dampers (23 33 13)		
23 33 13 13-0001		Radial Opposed Blade Damper Steel Construction (Ruskin CDR) (23 33 13 13)		
23 33 13 13-0002	EA	6" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	150.27 130.99 43.66	10.60
23 33 13 13-0003	EA	7" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	158.41 132.88 44.29	11.92
23 33 13 13-0004	EA	8" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	167.34 134.28 44.76	13.24
23 33 13 13-0005	EA	10" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	180.03 142.68 47.56	15.89
23 33 13 13-0006	EA	12" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	194.01 151.07 50.36	17.22
23 33 13 13-0007	EA	14" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	235.36 193.03 64.34	18.55
23 33 13 13-0008	EA	15" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	257.06 209.83 69.94	19.86
23 33 13 13-0009	EA	16" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	270.11 218.18 72.73	22.51
23 33 13 13-0010	EA	18" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	298.18 243.38 81.13	23.84
23 33 13 13-0011	EA	20" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	355.44 302.15 100.72	26.49
23 33 13 13-0012	EA	24" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	395.08 344.05 114.68	26.49
23 33 13 13-0013	EA	30" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	454.88 402.82 134.27	30.46
23 33 13 13-0014	EA	36" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated For Stainless Steel, Add For Parallel Blade Damper, Add	491.24 438.92 146.31	31.79

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0015	Rectangular Opposed Blade Damper (Ruskin CD) (23 33 13 13)			
23 33 13 13-0016	EA 6" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	152.55	14.73	
	For Stainless Steel, Add	130.04		
	For Parallel Blade Damper, Add	43.35		
23 33 13 13-0017	EA 8" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	162.24	15.39	
	For Stainless Steel, Add	139.27		
	For Parallel Blade Damper, Add	46.42		
23 33 13 13-0018	EA 8" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	170.25	15.52	
	For Stainless Steel, Add	148.57		
	For Parallel Blade Damper, Add	49.52		
23 33 13 13-0019	EA 10" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	170.25	15.52	
	For Stainless Steel, Add	148.57		
	For Parallel Blade Damper, Add	49.52		
23 33 13 13-0020	EA 10" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	179.33	15.93	
	For Stainless Steel, Add	157.87		
	For Parallel Blade Damper, Add	52.62		
23 33 13 13-0021	EA 10" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	200.07	17.65	
	For Stainless Steel, Add	176.40		
	For Parallel Blade Damper, Add	58.80		
23 33 13 13-0022	EA 12" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	179.33	15.93	
	For Stainless Steel, Add	157.87		
	For Parallel Blade Damper, Add	52.62		
23 33 13 13-0023	EA 12" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	197.42	16.85	
	For Stainless Steel, Add	176.40		
	For Parallel Blade Damper, Add	58.80		
23 33 13 13-0024	EA 12" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	207.87	17.65	
	For Stainless Steel, Add	185.76		
	For Parallel Blade Damper, Add	61.92		
23 33 13 13-0025	EA 12" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	229.65	19.90	
	For Stainless Steel, Add	203.93		
	For Parallel Blade Damper, Add	67.98		
23 33 13 13-0026	EA 14" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	193.60	16.85	
	For Stainless Steel, Add	171.82		
	For Parallel Blade Damper, Add	57.27		
23 33 13 13-0027	EA 14" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	207.87	17.65	
	For Stainless Steel, Add	185.76		
	For Parallel Blade Damper, Add	61.92		
23 33 13 13-0028	EA 14" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	218.27	18.57	
	For Stainless Steel, Add	195.06		
	For Parallel Blade Damper, Add	65.02		
23 33 13 13-0029	EA 14" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	230.01	19.90	
	For Stainless Steel, Add	204.36		
	For Parallel Blade Damper, Add	68.12		
23 33 13 13-0030	EA 14" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	255.96	22.15	
	For Stainless Steel, Add	227.54		
	For Parallel Blade Damper, Add	75.85		
23 33 13 13-0031	EA 16" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	207.87	17.65	
	For Stainless Steel, Add	185.76		
	For Parallel Blade Damper, Add	61.92		
23 33 13 13-0032	EA 16" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	219.60	18.97	
	For Stainless Steel, Add	195.06		
	For Parallel Blade Damper, Add	65.02		
23 33 13 13-0033	EA 16" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	232.65	20.83	
	For Stainless Steel, Add	204.36		
	For Parallel Blade Damper, Add	68.12		
23 33 13 13-0034	EA 16" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	244.34	22.15	
	For Stainless Steel, Add	213.60		
	For Parallel Blade Damper, Add	71.20		
23 33 13 13-0035	EA 16" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	270.40	24.27	
	For Stainless Steel, Add	236.90		
	For Parallel Blade Damper, Add	78.97		
23 33 13 13-0036	EA 16" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	296.35	26.54	
	For Stainless Steel, Add	260.09		
	For Parallel Blade Damper, Add	86.70		
23 33 13 13-0037	EA 18" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	218.27	18.57	
	For Stainless Steel, Add	195.06		
	For Parallel Blade Damper, Add	65.02		
23 33 13 13-0038	EA 18" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	233.83	19.90	
	For Stainless Steel, Add	208.94		
	For Parallel Blade Damper, Add	69.65		
23 33 13 13-0039	EA 18" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	252.14	22.15	
	For Stainless Steel, Add	222.96		
	For Parallel Blade Damper, Add	74.32		
23 33 13 13-0040	EA 18" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	278.15	24.27	
	For Stainless Steel, Add	246.20		
	For Parallel Blade Damper, Add	82.07		
23 33 13 13-0041	EA 18" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	300.22	26.54	
	For Stainless Steel, Add	264.73		
	For Parallel Blade Damper, Add	88.24		
23 33 13 13-0042	EA 18" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	315.25	28.66	
	For Stainless Steel, Add	274.82		
	For Parallel Blade Damper, Add	91.61		



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0043	EA		18" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	332.99	30.91
			For Stainless Steel, Add	288.14	
			For Parallel Blade Damper, Add	96.05	
23 33 13 13-0044	EA		20" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	214.53	19.90
			For Stainless Steel, Add	185.78	
			For Parallel Blade Damper, Add	61.93	
23 33 13 13-0045	EA		20" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	235.20	22.15
			For Stainless Steel, Add	202.63	
			For Parallel Blade Damper, Add	67.54	
23 33 13 13-0046	EA		20" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	255.93	24.27
			For Stainless Steel, Add	219.54	
			For Parallel Blade Damper, Add	73.18	
23 33 13 13-0047	EA		20" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	290.73	26.54
			For Stainless Steel, Add	253.34	
			For Parallel Blade Damper, Add	84.45	
23 33 13 13-0048	EA		20" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	307.92	28.66
			For Stainless Steel, Add	266.03	
			For Parallel Blade Damper, Add	88.68	
23 33 13 13-0049	EA		20" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	325.12	30.91
			For Stainless Steel, Add	278.70	
			For Parallel Blade Damper, Add	92.90	
23 33 13 13-0050	EA		20" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	345.79	33.17
			For Stainless Steel, Add	295.55	
			For Parallel Blade Damper, Add	98.52	
23 33 13 13-0051	EA		20" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	366.47	35.29
			For Stainless Steel, Add	312.40	
			For Parallel Blade Damper, Add	104.13	
23 33 13 13-0052	EA		24" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	242.24	22.15
			For Stainless Steel, Add	211.08	
			For Parallel Blade Damper, Add	70.36	
23 33 13 13-0053	EA		24" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	270.01	24.27
			For Stainless Steel, Add	236.44	
			For Parallel Blade Damper, Add	78.81	
23 33 13 13-0054	EA		24" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	290.73	26.54
			For Stainless Steel, Add	253.34	
			For Parallel Blade Damper, Add	84.45	
23 33 13 13-0055	EA		24" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	318.48	28.66
			For Stainless Steel, Add	278.70	
			For Parallel Blade Damper, Add	92.90	
23 33 13 13-0056	EA		24" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	335.64	30.91
			For Stainless Steel, Add	291.32	
			For Parallel Blade Damper, Add	97.11	
23 33 13 13-0057	EA		24" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	352.84	33.17
			For Stainless Steel, Add	304.01	
			For Parallel Blade Damper, Add	101.34	
23 33 13 13-0058	EA		24" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	380.56	35.29
			For Stainless Steel, Add	329.30	
			For Parallel Blade Damper, Add	109.77	
23 33 13 13-0059	EA		24" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	414.90	39.80
			For Stainless Steel, Add	354.60	
			For Parallel Blade Damper, Add	118.20	
23 33 13 13-0060	EA		24" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	456.40	44.18
			For Stainless Steel, Add	388.48	
			For Parallel Blade Damper, Add	129.49	
23 33 13 13-0061	EA		28" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	270.01	24.27
			For Stainless Steel, Add	236.44	
			For Parallel Blade Damper, Add	78.81	
23 33 13 13-0062	EA		28" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	290.73	26.54
			For Stainless Steel, Add	253.34	
			For Parallel Blade Damper, Add	84.45	
23 33 13 13-0063	EA		28" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	318.48	28.66
			For Stainless Steel, Add	278.70	
			For Parallel Blade Damper, Add	92.90	
23 33 13 13-0064	EA		28" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	339.16	30.91
			For Stainless Steel, Add	295.55	
			For Parallel Blade Damper, Add	98.52	
23 33 13 13-0065	EA		28" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	363.35	33.17
			For Stainless Steel, Add	316.62	
			For Parallel Blade Damper, Add	105.54	
23 33 13 13-0066	EA		28" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	387.55	35.29
			For Stainless Steel, Add	337.69	
			For Parallel Blade Damper, Add	112.56	
23 33 13 13-0067	EA		28" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	421.95	39.80
			For Stainless Steel, Add	363.06	
			For Parallel Blade Damper, Add	121.02	
23 33 13 13-0068	EA		28" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	456.40	44.18
			For Stainless Steel, Add	388.48	
			For Parallel Blade Damper, Add	129.49	
23 33 13 13-0069	EA		28" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	505.20	46.44
			For Stainless Steel, Add	439.07	
			For Parallel Blade Damper, Add	146.36	
23 33 13 13-0070	EA		28" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	553.63	50.81
			For Stainless Steel, Add	481.27	
			For Parallel Blade Damper, Add	160.42	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0071	EA	32" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	311.86	26.54
		For Stainless Steel, Add	278.70	
		For Parallel Blade Damper, Add	92.90	
23 33 13 13-0072	EA	32" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	325.48	28.66
		For Stainless Steel, Add	287.10	
		For Parallel Blade Damper, Add	95.70	
23 33 13 13-0073	EA	32" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	339.16	30.91
		For Stainless Steel, Add	295.55	
		For Parallel Blade Damper, Add	98.52	
23 33 13 13-0074	EA	32" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	359.83	33.17
		For Stainless Steel, Add	312.40	
		For Parallel Blade Damper, Add	104.13	
23 33 13 13-0075	EA	32" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	388.92	35.29
		For Stainless Steel, Add	339.34	
		For Parallel Blade Damper, Add	113.11	
23 33 13 13-0076	EA	32" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	421.95	39.80
		For Stainless Steel, Add	363.06	
		For Parallel Blade Damper, Add	121.02	
23 33 13 13-0077	EA	32" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	463.44	44.18
		For Stainless Steel, Add	396.92	
		For Parallel Blade Damper, Add	132.31	
23 33 13 13-0078	EA	32" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	504.84	48.56
		For Stainless Steel, Add	430.68	
		For Parallel Blade Damper, Add	143.56	
23 33 13 13-0079	EA	32" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	553.63	50.81
		For Stainless Steel, Add	481.27	
		For Parallel Blade Damper, Add	160.42	
23 33 13 13-0080	EA	32" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	613.56	54.39
		For Stainless Steel, Add	540.44	
		For Parallel Blade Damper, Add	180.15	
23 33 13 13-0081	EA	32" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	679.15	57.44
		For Stainless Steel, Add	608.00	
		For Parallel Blade Damper, Add	202.67	
23 33 13 13-0082	EA	36" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	339.57	28.66
		For Stainless Steel, Add	304.01	
		For Parallel Blade Damper, Add	101.34	
23 33 13 13-0083	EA	36" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	360.24	30.91
		For Stainless Steel, Add	320.84	
		For Parallel Blade Damper, Add	106.95	
23 33 13 13-0084	EA	36" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	380.91	33.17
		For Stainless Steel, Add	337.69	
		For Parallel Blade Damper, Add	112.56	
23 33 13 13-0085	EA	36" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	408.69	35.29
		For Stainless Steel, Add	363.06	
		For Parallel Blade Damper, Add	121.02	
23 33 13 13-0086	EA	36" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	432.56	39.80
		For Stainless Steel, Add	375.79	
		For Parallel Blade Damper, Add	125.26	
23 33 13 13-0087	EA	36" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	449.77	41.92
		For Stainless Steel, Add	388.48	
		For Parallel Blade Damper, Add	129.49	
23 33 13 13-0088	EA	36" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	504.84	48.56
		For Stainless Steel, Add	430.68	
		For Parallel Blade Damper, Add	143.56	
23 33 13 13-0089	EA	36" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	553.23	53.07
		For Stainless Steel, Add	472.82	
		For Parallel Blade Damper, Add	157.61	
23 33 13 13-0090	EA	36" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	600.79	54.80
		For Stainless Steel, Add	523.54	
		For Parallel Blade Damper, Add	174.51	
23 33 13 13-0091	EA	36" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	668.99	58.77
		For Stainless Steel, Add	591.05	
		For Parallel Blade Damper, Add	197.02	
23 33 13 13-0092	EA	36" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	727.53	61.83
		For Stainless Steel, Add	650.15	
		For Parallel Blade Damper, Add	216.72	
23 33 13 13-0093	EA	36" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	790.48	64.08
		For Stainless Steel, Add	717.72	
		For Parallel Blade Damper, Add	239.24	
23 33 13 13-0094	EA	40" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	353.20	33.17
		For Stainless Steel, Add	312.40	
		For Parallel Blade Damper, Add	104.13	
23 33 13 13-0095	EA	40" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	387.96	35.29
		For Stainless Steel, Add	346.15	
		For Parallel Blade Damper, Add	115.38	
23 33 13 13-0096	EA	40" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	401.64	37.54
		For Stainless Steel, Add	354.60	
		For Parallel Blade Damper, Add	118.20	
23 33 13 13-0097	EA	40" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	415.32	39.80
		For Stainless Steel, Add	363.06	
		For Parallel Blade Damper, Add	121.02	
23 33 13 13-0098	EA	40" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	453.24	41.92
		For Stainless Steel, Add	392.64	
		For Parallel Blade Damper, Add	130.88	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13	13-0099	EA	40" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	484.52	44.18
			For Stainless Steel, Add	422.22	
			For Parallel Blade Damper, Add	140.74	
23 33 13	13-0100	EA	40" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	532.55	50.81
			For Stainless Steel, Add	455.98	
			For Parallel Blade Damper, Add	151.99	
23 33 13	13-0101	EA	40" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	574.00	55.19
			For Stainless Steel, Add	489.79	
			For Parallel Blade Damper, Add	163.26	
23 33 13	13-0102	EA	40" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	626.82	58.77
			For Stainless Steel, Add	540.44	
			For Parallel Blade Damper, Add	180.15	
23 33 13	13-0103	EA	40" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	713.49	61.83
			For Stainless Steel, Add	633.30	
			For Parallel Blade Damper, Add	211.10	
23 33 13	13-0104	EA	40" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	766.28	65.41
			For Stainless Steel, Add	683.90	
			For Parallel Blade Damper, Add	227.97	
23 33 13	13-0105	EA	40" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	849.01	67.13
			For Stainless Steel, Add	776.82	
			For Parallel Blade Damper, Add	258.94	
23 33 13	13-0106	EA	40" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	930.02	70.71
			For Stainless Steel, Add	861.29	
			For Parallel Blade Damper, Add	287.10	
23 33 13	13-0107	EA	44" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	373.92	33.17
			For Stainless Steel, Add	329.30	
			For Parallel Blade Damper, Add	109.77	
23 33 13	13-0108	EA	44" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	408.69	35.29
			For Stainless Steel, Add	363.06	
			For Parallel Blade Damper, Add	121.02	
23 33 13	13-0109	EA	44" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	436.50	37.54
			For Stainless Steel, Add	388.48	
			For Parallel Blade Damper, Add	129.49	
23 33 13	13-0110	EA	44" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	450.17	39.80
			For Stainless Steel, Add	396.92	
			For Parallel Blade Damper, Add	132.31	
23 33 13	13-0111	EA	44" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	484.94	41.92
			For Stainless Steel, Add	430.68	
			For Parallel Blade Damper, Add	143.56	
23 33 13	13-0112	EA	44" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	519.69	44.18
			For Stainless Steel, Add	464.42	
			For Parallel Blade Damper, Add	154.81	
23 33 13	13-0113	EA	44" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	581.45	53.07
			For Stainless Steel, Add	506.69	
			For Parallel Blade Damper, Add	168.90	
23 33 13	13-0114	EA	44" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	629.84	57.44
			For Stainless Steel, Add	548.83	
			For Parallel Blade Damper, Add	182.94	
23 33 13	13-0115	EA	44" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	713.49	61.83
			For Stainless Steel, Add	633.30	
			For Parallel Blade Damper, Add	211.10	
23 33 13	13-0116	EA	44" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	790.11	66.34
			For Stainless Steel, Add	709.32	
			For Parallel Blade Damper, Add	236.44	
23 33 13	13-0117	EA	44" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	873.67	70.71
			For Stainless Steel, Add	793.67	
			For Parallel Blade Damper, Add	264.56	
23 33 13	13-0118	EA	44" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	943.66	72.83
			For Stainless Steel, Add	869.69	
			For Parallel Blade Damper, Add	289.90	
23 33 13	13-0119	EA	44" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,013.64	75.10
			For Stainless Steel, Add	945.71	
			For Parallel Blade Damper, Add	315.24	
23 33 13	13-0120	EA	44" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,083.61	77.35
			For Stainless Steel, Add	1,021.72	
			For Parallel Blade Damper, Add	340.57	
23 33 13	13-0121	EA	48" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	401.64	35.29
			For Stainless Steel, Add	354.60	
			For Parallel Blade Damper, Add	118.20	
23 33 13	13-0122	EA	48" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	436.50	37.54
			For Stainless Steel, Add	388.48	
			For Parallel Blade Damper, Add	129.49	
23 33 13	13-0123	EA	48" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	450.17	39.80
			For Stainless Steel, Add	396.92	
			For Parallel Blade Damper, Add	132.31	
23 33 13	13-0124	EA	48" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	484.52	44.18
			For Stainless Steel, Add	422.22	
			For Parallel Blade Damper, Add	140.74	
23 33 13	13-0125	EA	48" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	525.92	48.56
			For Stainless Steel, Add	455.98	
			For Parallel Blade Damper, Add	151.99	
23 33 13	13-0126	EA	48" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	567.37	53.07
			For Stainless Steel, Add	489.79	
			For Parallel Blade Damper, Add	163.26	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13	13-0127	EA	48" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	622.85	57.44
			For Stainless Steel, Add	540.44	
			For Parallel Blade Damper, Add	180.15	
23 33 13	13-0128	EA	48" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	678.28	61.83
			For Stainless Steel, Add	591.05	
			For Parallel Blade Damper, Add	197.02	
23 33 13	13-0129	EA	48" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	754.89	66.34
			For Stainless Steel, Add	667.06	
			For Parallel Blade Damper, Add	222.35	
23 33 13	13-0130	EA	48" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	845.55	70.71
			For Stainless Steel, Add	759.92	
			For Parallel Blade Damper, Add	253.31	
23 33 13	13-0131	EA	48" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	915.58	72.83
			For Stainless Steel, Add	835.99	
			For Parallel Blade Damper, Add	278.66	
23 33 13	13-0132	EA	48" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,006.59	75.10
			For Stainless Steel, Add	937.25	
			For Parallel Blade Damper, Add	312.42	
23 33 13	13-0133	EA	48" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,083.21	79.47
			For Stainless Steel, Add	1,013.27	
			For Parallel Blade Damper, Add	337.76	
23 33 13	13-0134	EA	48" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,174.27	81.73
			For Stainless Steel, Add	1,114.58	
			For Parallel Blade Damper, Add	371.53	
23 33 13	13-0135	EA	48" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,250.46	88.36
			For Stainless Steel, Add	1,182.14	
			For Parallel Blade Damper, Add	394.05	
23 33 13	13-0136	EA	52" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	429.45	37.54
			For Stainless Steel, Add	380.02	
			For Parallel Blade Damper, Add	126.67	
23 33 13	13-0137	EA	52" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	464.21	39.80
			For Stainless Steel, Add	413.77	
			For Parallel Blade Damper, Add	137.92	
23 33 13	13-0138	EA	52" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	505.61	44.18
			For Stainless Steel, Add	447.53	
			For Parallel Blade Damper, Add	149.18	
23 33 13	13-0139	EA	52" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	525.92	48.56
			For Stainless Steel, Add	455.98	
			For Parallel Blade Damper, Add	151.99	
23 33 13	13-0140	EA	52" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	570.89	53.07
			For Stainless Steel, Add	494.02	
			For Parallel Blade Damper, Add	164.67	
23 33 13	13-0141	EA	52" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	615.81	57.44
			For Stainless Steel, Add	532.00	
			For Parallel Blade Damper, Add	177.33	
23 33 13	13-0142	EA	52" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	671.28	61.83
			For Stainless Steel, Add	582.65	
			For Parallel Blade Damper, Add	194.22	
23 33 13	13-0143	EA	52" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	726.76	66.34
			For Stainless Steel, Add	633.30	
			For Parallel Blade Damper, Add	211.10	
23 33 13	13-0144	EA	52" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	803.38	70.71
			For Stainless Steel, Add	709.32	
			For Parallel Blade Damper, Add	236.44	
23 33 13	13-0145	EA	52" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	901.03	75.10
			For Stainless Steel, Add	810.58	
			For Parallel Blade Damper, Add	270.19	
23 33 13	13-0146	EA	52" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	978.00	77.35
			For Stainless Steel, Add	894.98	
			For Parallel Blade Damper, Add	298.33	
23 33 13	13-0147	EA	52" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,076.16	79.47
			For Stainless Steel, Add	1,004.81	
			For Parallel Blade Damper, Add	334.94	
23 33 13	13-0148	EA	52" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,173.81	83.98
			For Stainless Steel, Add	1,106.06	
			For Parallel Blade Damper, Add	368.69	
23 33 13	13-0149	EA	52" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,250.46	88.36
			For Stainless Steel, Add	1,182.14	
			For Parallel Blade Damper, Add	394.05	
23 33 13	13-0150	EA	52" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,354.80	95.00
			For Stainless Steel, Add	1,283.46	
			For Parallel Blade Damper, Add	427.82	
23 33 13	13-0151	EA	52" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,438.45	99.37
			For Stainless Steel, Add	1,367.93	
			For Parallel Blade Damper, Add	455.98	
23 33 13	13-0152	EA	56" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	450.17	39.80
			For Stainless Steel, Add	396.92	
			For Parallel Blade Damper, Add	132.31	
23 33 13	13-0153	EA	56" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	498.56	44.18
			For Stainless Steel, Add	439.07	
			For Parallel Blade Damper, Add	146.36	
23 33 13	13-0154	EA	56" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	532.96	48.56
			For Stainless Steel, Add	464.42	
			For Parallel Blade Damper, Add	154.81	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0155	EA		56" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	553.23	53.07
			For Stainless Steel, Add	472.82	
			For Parallel Blade Damper, Add	157.61	
23 33 13 13-0156	EA		56" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	605.24	57.44
			For Stainless Steel, Add	519.31	
			For Parallel Blade Damper, Add	173.10	
23 33 13 13-0157	EA		56" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	657.19	61.83
			For Stainless Steel, Add	565.74	
			For Parallel Blade Damper, Add	188.58	
23 33 13 13-0158	EA		56" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	709.15	66.34
			For Stainless Steel, Add	612.17	
			For Parallel Blade Damper, Add	204.06	
23 33 13 13-0159	EA		56" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	761.12	70.71
			For Stainless Steel, Add	658.61	
			For Parallel Blade Damper, Add	219.54	
23 33 13 13-0160	EA		56" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	858.82	75.10
			For Stainless Steel, Add	759.92	
			For Parallel Blade Damper, Add	253.31	
23 33 13 13-0161	EA		56" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	949.92	77.35
			For Stainless Steel, Add	861.29	
			For Parallel Blade Damper, Add	287.10	
23 33 13 13-0162	EA		56" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,033.95	79.47
			For Stainless Steel, Add	954.16	
			For Parallel Blade Damper, Add	318.05	
23 33 13 13-0163	EA		56" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,145.74	83.98
			For Stainless Steel, Add	1,072.38	
			For Parallel Blade Damper, Add	357.46	
23 33 13 13-0164	EA		56" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,243.42	88.36
			For Stainless Steel, Add	1,173.70	
			For Parallel Blade Damper, Add	391.23	
23 33 13 13-0165	EA		56" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,348.16	92.74
			For Stainless Steel, Add	1,283.46	
			For Parallel Blade Damper, Add	427.82	
23 33 13 13-0166	EA		56" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,431.82	97.25
			For Stainless Steel, Add	1,367.93	
			For Parallel Blade Damper, Add	455.98	
23 33 13 13-0167	EA		56" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,536.56	101.63
			For Stainless Steel, Add	1,477.69	
			For Parallel Blade Damper, Add	492.56	
23 33 13 13-0168	EA		56" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,641.30	106.00
			For Stainless Steel, Add	1,587.46	
			For Parallel Blade Damper, Add	529.15	
23 33 13 13-0169	EA		60" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	484.52	44.18
			For Stainless Steel, Add	422.22	
			For Parallel Blade Damper, Add	140.74	
23 33 13 13-0170	EA		60" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	532.96	48.56
			For Stainless Steel, Add	464.42	
			For Parallel Blade Damper, Add	154.81	
23 33 13 13-0171	EA		60" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	560.27	53.07
			For Stainless Steel, Add	481.27	
			For Parallel Blade Damper, Add	160.42	
23 33 13 13-0172	EA		60" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	580.64	57.44
			For Stainless Steel, Add	489.79	
			For Parallel Blade Damper, Add	163.26	
23 33 13 13-0173	EA		60" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	636.11	61.83
			For Stainless Steel, Add	540.44	
			For Parallel Blade Damper, Add	180.15	
23 33 13 13-0174	EA		60" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	691.55	66.34
			For Stainless Steel, Add	591.05	
			For Parallel Blade Damper, Add	197.02	
23 33 13 13-0175	EA		60" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	750.55	70.71
			For Stainless Steel, Add	645.92	
			For Parallel Blade Damper, Add	215.31	
23 33 13 13-0176	EA		60" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	809.56	75.10
			For Stainless Steel, Add	700.81	
			For Parallel Blade Damper, Add	233.60	
23 33 13 13-0177	EA		60" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	907.66	77.35
			For Stainless Steel, Add	810.58	
			For Parallel Blade Damper, Add	270.19	
23 33 13 13-0178	EA		60" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	998.73	79.47
			For Stainless Steel, Add	911.89	
			For Parallel Blade Damper, Add	303.96	
23 33 13 13-0179	EA		60" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,103.52	83.98
			For Stainless Steel, Add	1,021.72	
			For Parallel Blade Damper, Add	340.57	
23 33 13 13-0180	EA		60" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,208.24	88.36
			For Stainless Steel, Add	1,131.48	
			For Parallel Blade Damper, Add	377.16	
23 33 13 13-0181	EA		60" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,291.86	92.74
			For Stainless Steel, Add	1,215.90	
			For Parallel Blade Damper, Add	405.30	
23 33 13 13-0182	EA		60" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,417.68	97.25
			For Stainless Steel, Add	1,350.96	
			For Parallel Blade Damper, Add	450.32	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0183	EA	60" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,529.47	101.63
		For Stainless Steel, Add	1,469.18	
		For Parallel Blade Damper, Add	489.73	
23 33 13 13-0184	EA	60" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,641.30	106.00
		For Stainless Steel, Add	1,587.46	
		For Parallel Blade Damper, Add	529.15	
23 33 13 13-0185	EA	60" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,738.91	110.52
		For Stainless Steel, Add	1,688.66	
		For Parallel Blade Damper, Add	562.89	
23 33 13 13-0186	EA	60" x 60" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,836.69	114.90
		For Stainless Steel, Add	1,790.09	
		For Parallel Blade Damper, Add	596.70	
23 33 13 16 Fire Dampers (23 33 13)				
23 33 13 16-0001 Fire Dampers (23 33 13 16)				
23 33 13 16-0002	SF	Curtain Type, Vertical, Fire Damper	157.50	14.33
		For Smoke Damper, Add	97.22	
		For Spring Activated Horizontal Mount Operation, Add	25.74	
		For Dynamic Damper, Add	61.77	
		For 3 Hour Rated, Add	34.31	
23 33 13 16-0003	SF	Louver Type, Vertical, Fire Damper	219.89	14.33
		For Smoke Damper, Add	150.25	
		For Spring Activated Horizontal Mount Operation, Add	39.77	
		For Dynamic Damper, Add	95.46	
		For 3 Hour Rated, Add	53.03	
23 33 13 16-0004 Folding Curtain Fire Dampers (23 33 13 16)				
Note: UL Listed. Air stream 22 gauge galvanized steel construction with fusible link 160 F, gravity actuated for vertical mount 1-1/2 hour fire rating. Damper blades and damper frame are in the air stream.				
23 33 13 16-0005	EA	6" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	75.35	14.73
		For Spring Activated Horizontal Mount Operation, Add	7.01	
		For Dynamic Damper, Add	16.83	
		For 3 Hour Rated, Add	9.35	
		For Cap Of Damper Blades Outside Air Stream, Add	7.79	
23 33 13 16-0006	EA	8" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	79.57	15.39
		For Spring Activated Horizontal Mount Operation, Add	7.51	
		For Dynamic Damper, Add	18.03	
		For 3 Hour Rated, Add	10.02	
		For Cap Of Damper Blades Outside Air Stream, Add	8.35	
23 33 13 16-0007	EA	8" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	82.06	15.52
		For Spring Activated Horizontal Mount Operation, Add	8.01	
		For Dynamic Damper, Add	19.23	
		For 3 Hour Rated, Add	10.69	
		For Cap Of Damper Blades Outside Air Stream, Add	8.91	
23 33 13 16-0008	EA	10" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	82.06	15.52
		For Spring Activated Horizontal Mount Operation, Add	8.01	
		For Dynamic Damper, Add	19.23	
		For 3 Hour Rated, Add	10.69	
		For Cap Of Damper Blades Outside Air Stream, Add	8.91	
23 33 13 16-0009	EA	10" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	85.62	15.93
		For Spring Activated Horizontal Mount Operation, Add	8.52	
		For Dynamic Damper, Add	20.44	
		For 3 Hour Rated, Add	11.36	
		For Cap Of Damper Blades Outside Air Stream, Add	9.46	
23 33 13 16-0010	EA	10" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	95.36	17.65
		For Spring Activated Horizontal Mount Operation, Add	9.52	
		For Dynamic Damper, Add	22.84	
		For 3 Hour Rated, Add	12.69	
		For Cap Of Damper Blades Outside Air Stream, Add	10.57	
23 33 13 16-0011	EA	12" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	85.62	15.93
		For Spring Activated Horizontal Mount Operation, Add	8.52	
		For Dynamic Damper, Add	20.44	
		For 3 Hour Rated, Add	11.36	
		For Cap Of Damper Blades Outside Air Stream, Add	9.46	
23 33 13 16-0012	EA	12" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	92.71	16.85
		For Spring Activated Horizontal Mount Operation, Add	9.52	
		For Dynamic Damper, Add	22.84	
		For 3 Hour Rated, Add	12.69	
		For Cap Of Damper Blades Outside Air Stream, Add	10.57	
23 33 13 16-0013	EA	12" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	97.59	17.65
		For Spring Activated Horizontal Mount Operation, Add	10.02	
		For Dynamic Damper, Add	24.04	
		For 3 Hour Rated, Add	13.36	
		For Cap Of Damper Blades Outside Air Stream, Add	11.13	
23 33 13 16-0014	EA	12" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	106.46	19.90
		For Spring Activated Horizontal Mount Operation, Add	10.52	
		For Dynamic Damper, Add	25.25	
		For 3 Hour Rated, Add	14.03	
		For Cap Of Damper Blades Outside Air Stream, Add	11.69	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0015	EA		14" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	91.61	16.85
			For Spring Activated Horizontal Mount Operation, Add	9.27	
			For Dynamic Damper, Add	22.24	
			For 3 Hour Rated, Add	12.36	
			For Cap Of Damper Blades Outside Air Stream, Add	10.30	
23 33 13 16-0016	EA		14" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	97.59	17.65
			For Spring Activated Horizontal Mount Operation, Add	10.02	
			For Dynamic Damper, Add	24.04	
			For 3 Hour Rated, Add	13.36	
			For Cap Of Damper Blades Outside Air Stream, Add	11.13	
23 33 13 16-0017	EA		14" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	102.47	18.57
			For Spring Activated Horizontal Mount Operation, Add	10.52	
			For Dynamic Damper, Add	25.25	
			For 3 Hour Rated, Add	14.03	
			For Cap Of Damper Blades Outside Air Stream, Add	11.69	
23 33 13 16-0018	EA		14" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	108.69	19.90
			For Spring Activated Horizontal Mount Operation, Add	11.02	
			For Dynamic Damper, Add	26.45	
			For 3 Hour Rated, Add	14.69	
			For Cap Of Damper Blades Outside Air Stream, Add	12.25	
23 33 13 16-0019	EA		14" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	120.89	22.15
			For Spring Activated Horizontal Mount Operation, Add	12.27	
			For Dynamic Damper, Add	29.46	
			For 3 Hour Rated, Add	16.37	
			For Cap Of Damper Blades Outside Air Stream, Add	13.64	
23 33 13 16-0020	EA		16" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	97.59	17.65
			For Spring Activated Horizontal Mount Operation, Add	10.02	
			For Dynamic Damper, Add	24.04	
			For 3 Hour Rated, Add	13.36	
			For Cap Of Damper Blades Outside Air Stream, Add	11.13	
23 33 13 16-0021	EA		16" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	103.80	18.97
			For Spring Activated Horizontal Mount Operation, Add	10.52	
			For Dynamic Damper, Add	25.25	
			For 3 Hour Rated, Add	14.03	
			For Cap Of Damper Blades Outside Air Stream, Add	11.69	
23 33 13 16-0022	EA		16" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	111.33	20.83
			For Spring Activated Horizontal Mount Operation, Add	11.02	
			For Dynamic Damper, Add	26.45	
			For 3 Hour Rated, Add	14.69	
			For Cap Of Damper Blades Outside Air Stream, Add	12.25	
23 33 13 16-0023	EA		16" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	117.54	22.15
			For Spring Activated Horizontal Mount Operation, Add	11.52	
			For Dynamic Damper, Add	27.65	
			For 3 Hour Rated, Add	15.36	
			For Cap Of Damper Blades Outside Air Stream, Add	12.80	
23 33 13 16-0024	EA		16" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	129.76	24.27
			For Spring Activated Horizontal Mount Operation, Add	12.78	
			For Dynamic Damper, Add	30.66	
			For 3 Hour Rated, Add	17.03	
			For Cap Of Damper Blades Outside Air Stream, Add	14.20	
23 33 13 16-0025	EA		16" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	141.96	26.54
			For Spring Activated Horizontal Mount Operation, Add	14.03	
			For Dynamic Damper, Add	33.67	
			For 3 Hour Rated, Add	18.71	
			For Cap Of Damper Blades Outside Air Stream, Add	15.59	
23 33 13 16-0026	EA		18" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	102.47	18.57
			For Spring Activated Horizontal Mount Operation, Add	10.52	
			For Dynamic Damper, Add	25.25	
			For 3 Hour Rated, Add	14.03	
			For Cap Of Damper Blades Outside Air Stream, Add	11.69	
23 33 13 16-0027	EA		18" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	109.80	19.90
			For Spring Activated Horizontal Mount Operation, Add	11.27	
			For Dynamic Damper, Add	27.05	
			For 3 Hour Rated, Add	15.03	
			For Cap Of Damper Blades Outside Air Stream, Add	12.52	
23 33 13 16-0028	EA		18" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	119.78	22.15
			For Spring Activated Horizontal Mount Operation, Add	12.02	
			For Dynamic Damper, Add	28.86	
			For 3 Hour Rated, Add	16.03	
			For Cap Of Damper Blades Outside Air Stream, Add	13.36	
23 33 13 16-0029	EA		18" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	131.99	24.27
			For Spring Activated Horizontal Mount Operation, Add	13.28	
			For Dynamic Damper, Add	31.87	
			For 3 Hour Rated, Add	17.70	
			For Cap Of Damper Blades Outside Air Stream, Add	14.75	
23 33 13 16-0030	EA		18" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	143.07	26.54
			For Spring Activated Horizontal Mount Operation, Add	14.28	
			For Dynamic Damper, Add	34.27	
			For 3 Hour Rated, Add	19.04	
			For Cap Of Damper Blades Outside Air Stream, Add	15.87	
23 33 13 16-0031	EA		18" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	155.25	28.66
			For Spring Activated Horizontal Mount Operation, Add	15.53	
			For Dynamic Damper, Add	37.27	
			For 3 Hour Rated, Add	20.71	
			For Cap Of Damper Blades Outside Air Stream, Add	17.26	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0032	EA		18" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	165.23	30.91
			For Spring Activated Horizontal Mount Operation, Add	16.28	
			For Dynamic Damper, Add	39.07	
			For 3 Hour Rated, Add	21.71	
			For Cap Of Damper Blades Outside Air Stream, Add	18.09	
23 33 13 16-0033	EA		20" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	108.69	19.90
			For Spring Activated Horizontal Mount Operation, Add	11.02	
			For Dynamic Damper, Add	26.45	
			For 3 Hour Rated, Add	14.69	
			For Cap Of Damper Blades Outside Air Stream, Add	12.25	
23 33 13 16-0034	EA		20" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	119.77	22.15
			For Spring Activated Horizontal Mount Operation, Add	12.02	
			For Dynamic Damper, Add	28.85	
			For 3 Hour Rated, Add	16.03	
			For Cap Of Damper Blades Outside Air Stream, Add	13.36	
23 33 13 16-0035	EA		20" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	130.87	24.27
			For Spring Activated Horizontal Mount Operation, Add	13.03	
			For Dynamic Damper, Add	31.26	
			For 3 Hour Rated, Add	17.37	
			For Cap Of Damper Blades Outside Air Stream, Add	14.47	
23 33 13 16-0036	EA		20" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	146.42	26.54
			For Spring Activated Horizontal Mount Operation, Add	15.03	
			For Dynamic Damper, Add	36.08	
			For 3 Hour Rated, Add	20.04	
			For Cap Of Damper Blades Outside Air Stream, Add	16.70	
23 33 13 16-0037	EA		20" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	156.38	28.66
			For Spring Activated Horizontal Mount Operation, Add	15.78	
			For Dynamic Damper, Add	37.88	
			For 3 Hour Rated, Add	21.05	
			For Cap Of Damper Blades Outside Air Stream, Add	17.54	
23 33 13 16-0038	EA		20" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	166.35	30.91
			For Spring Activated Horizontal Mount Operation, Add	16.53	
			For Dynamic Damper, Add	39.68	
			For 3 Hour Rated, Add	22.04	
			For Cap Of Damper Blades Outside Air Stream, Add	18.37	
23 33 13 16-0039	EA		20" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	177.43	33.17
			For Spring Activated Horizontal Mount Operation, Add	17.53	
			For Dynamic Damper, Add	42.08	
			For 3 Hour Rated, Add	23.38	
			For Cap Of Damper Blades Outside Air Stream, Add	19.48	
23 33 13 16-0040	EA		20" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	188.51	35.29
			For Spring Activated Horizontal Mount Operation, Add	18.53	
			For Dynamic Damper, Add	44.48	
			For 3 Hour Rated, Add	24.71	
			For Cap Of Damper Blades Outside Air Stream, Add	20.59	
23 33 13 16-0041	EA		24" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	122.00	22.15
			For Spring Activated Horizontal Mount Operation, Add	12.52	
			For Dynamic Damper, Add	30.06	
			For 3 Hour Rated, Add	16.70	
			For Cap Of Damper Blades Outside Air Stream, Add	13.92	
23 33 13 16-0042	EA		24" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	135.33	24.27
			For Spring Activated Horizontal Mount Operation, Add	14.03	
			For Dynamic Damper, Add	33.67	
			For 3 Hour Rated, Add	18.71	
			For Cap Of Damper Blades Outside Air Stream, Add	15.59	
23 33 13 16-0043	EA		24" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	146.42	26.54
			For Spring Activated Horizontal Mount Operation, Add	15.03	
			For Dynamic Damper, Add	36.08	
			For 3 Hour Rated, Add	20.04	
			For Cap Of Damper Blades Outside Air Stream, Add	16.70	
23 33 13 16-0044	EA		24" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	159.71	28.66
			For Spring Activated Horizontal Mount Operation, Add	16.53	
			For Dynamic Damper, Add	39.68	
			For 3 Hour Rated, Add	22.04	
			For Cap Of Damper Blades Outside Air Stream, Add	18.37	
23 33 13 16-0045	EA		24" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	169.69	30.91
			For Spring Activated Horizontal Mount Operation, Add	17.28	
			For Dynamic Damper, Add	41.48	
			For 3 Hour Rated, Add	23.05	
			For Cap Of Damper Blades Outside Air Stream, Add	19.21	
23 33 13 16-0046	EA		24" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	179.66	33.17
			For Spring Activated Horizontal Mount Operation, Add	18.04	
			For Dynamic Damper, Add	43.29	
			For 3 Hour Rated, Add	24.05	
			For Cap Of Damper Blades Outside Air Stream, Add	20.04	
23 33 13 16-0047	EA		24" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	192.97	35.29
			For Spring Activated Horizontal Mount Operation, Add	19.54	
			For Dynamic Damper, Add	46.89	
			For 3 Hour Rated, Add	26.05	
			For Cap Of Damper Blades Outside Air Stream, Add	21.71	
23 33 13 16-0048	EA		24" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	212.91	39.80
			For Spring Activated Horizontal Mount Operation, Add	21.04	
			For Dynamic Damper, Add	50.50	
			For 3 Hour Rated, Add	28.05	
			For Cap Of Damper Blades Outside Air Stream, Add	23.38	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0049	EA		24" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	235.10	44.18
			For Spring Activated Horizontal Mount Operation, Add	23.05	
			For Dynamic Damper, Add	55.31	
			For 3 Hour Rated, Add	30.73	
			For Cap Of Damper Blades Outside Air Stream, Add	25.61	
23 33 13 16-0050	EA		28" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	135.33	24.27
			For Spring Activated Horizontal Mount Operation, Add	14.03	
			For Dynamic Damper, Add	33.67	
			For 3 Hour Rated, Add	18.71	
			For Cap Of Damper Blades Outside Air Stream, Add	15.59	
23 33 13 16-0051	EA		28" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	146.42	26.54
			For Spring Activated Horizontal Mount Operation, Add	15.03	
			For Dynamic Damper, Add	36.08	
			For 3 Hour Rated, Add	20.04	
			For Cap Of Damper Blades Outside Air Stream, Add	16.70	
23 33 13 16-0052	EA		28" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	159.71	28.66
			For Spring Activated Horizontal Mount Operation, Add	16.53	
			For Dynamic Damper, Add	39.68	
			For 3 Hour Rated, Add	22.04	
			For Cap Of Damper Blades Outside Air Stream, Add	18.37	
23 33 13 16-0053	EA		28" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	170.80	30.91
			For Spring Activated Horizontal Mount Operation, Add	17.53	
			For Dynamic Damper, Add	42.08	
			For 3 Hour Rated, Add	23.38	
			For Cap Of Damper Blades Outside Air Stream, Add	19.48	
23 33 13 16-0054	EA		28" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	183.00	33.17
			For Spring Activated Horizontal Mount Operation, Add	18.79	
			For Dynamic Damper, Add	45.09	
			For 3 Hour Rated, Add	25.05	
			For Cap Of Damper Blades Outside Air Stream, Add	20.88	
23 33 13 16-0055	EA		28" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	195.19	35.29
			For Spring Activated Horizontal Mount Operation, Add	20.04	
			For Dynamic Damper, Add	48.09	
			For 3 Hour Rated, Add	26.72	
			For Cap Of Damper Blades Outside Air Stream, Add	22.26	
23 33 13 16-0056	EA		28" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	215.14	39.80
			For Spring Activated Horizontal Mount Operation, Add	21.54	
			For Dynamic Damper, Add	51.70	
			For 3 Hour Rated, Add	28.72	
			For Cap Of Damper Blades Outside Air Stream, Add	23.94	
23 33 13 16-0057	EA		28" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	235.10	44.18
			For Spring Activated Horizontal Mount Operation, Add	23.05	
			For Dynamic Damper, Add	55.31	
			For 3 Hour Rated, Add	30.73	
			For Cap Of Damper Blades Outside Air Stream, Add	25.61	
23 33 13 16-0058	EA		28" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	255.09	46.44
			For Spring Activated Horizontal Mount Operation, Add	26.05	
			For Dynamic Damper, Add	62.52	
			For 3 Hour Rated, Add	34.73	
			For Cap Of Damper Blades Outside Air Stream, Add	28.95	
23 33 13 16-0059	EA		28" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	279.48	50.81
			For Spring Activated Horizontal Mount Operation, Add	28.55	
			For Dynamic Damper, Add	68.53	
			For 3 Hour Rated, Add	38.07	
			For Cap Of Damper Blades Outside Air Stream, Add	31.73	
23 33 13 16-0060	EA		32" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	153.09	26.54
			For Spring Activated Horizontal Mount Operation, Add	16.53	
			For Dynamic Damper, Add	39.68	
			For 3 Hour Rated, Add	22.04	
			For Cap Of Damper Blades Outside Air Stream, Add	18.37	
23 33 13 16-0061	EA		32" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	161.93	28.66
			For Spring Activated Horizontal Mount Operation, Add	17.03	
			For Dynamic Damper, Add	40.88	
			For 3 Hour Rated, Add	22.71	
			For Cap Of Damper Blades Outside Air Stream, Add	18.93	
23 33 13 16-0062	EA		32" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	170.80	30.91
			For Spring Activated Horizontal Mount Operation, Add	17.53	
			For Dynamic Damper, Add	42.08	
			For 3 Hour Rated, Add	23.38	
			For Cap Of Damper Blades Outside Air Stream, Add	19.48	
23 33 13 16-0063	EA		32" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	181.87	33.17
			For Spring Activated Horizontal Mount Operation, Add	18.53	
			For Dynamic Damper, Add	44.48	
			For 3 Hour Rated, Add	24.71	
			For Cap Of Damper Blades Outside Air Stream, Add	20.59	
23 33 13 16-0064	EA		32" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	195.61	35.29
			For Spring Activated Horizontal Mount Operation, Add	20.13	
			For Dynamic Damper, Add	48.31	
			For 3 Hour Rated, Add	26.84	
			For Cap Of Damper Blades Outside Air Stream, Add	22.37	
23 33 13 16-0065	EA		32" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	215.14	39.80
			For Spring Activated Horizontal Mount Operation, Add	21.54	
			For Dynamic Damper, Add	51.70	
			For 3 Hour Rated, Add	28.72	
			For Cap Of Damper Blades Outside Air Stream, Add	23.94	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0066	EA	32" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	237.33	44.18
		For Spring Activated Horizontal Mount Operation, Add	23.55	
		For Dynamic Damper, Add	56.52	
		For 3 Hour Rated, Add	31.40	
		For Cap Of Damper Blades Outside Air Stream, Add	26.17	
23 33 13 16-0067	EA	32" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	259.50	48.56
		For Spring Activated Horizontal Mount Operation, Add	25.55	
		For Dynamic Damper, Add	61.32	
		For 3 Hour Rated, Add	34.07	
		For Cap Of Damper Blades Outside Air Stream, Add	28.39	
23 33 13 16-0068	EA	32" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	279.48	50.81
		For Spring Activated Horizontal Mount Operation, Add	28.55	
		For Dynamic Damper, Add	68.53	
		For 3 Hour Rated, Add	38.07	
		For Cap Of Damper Blades Outside Air Stream, Add	31.73	
23 33 13 16-0069	EA	32" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	305.70	54.39
		For Spring Activated Horizontal Mount Operation, Add	32.06	
		For Dynamic Damper, Add	76.96	
		For 3 Hour Rated, Add	42.75	
		For Cap Of Damper Blades Outside Air Stream, Add	35.63	
23 33 13 16-0070	EA	32" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	332.80	57.44
		For Spring Activated Horizontal Mount Operation, Add	36.07	
		For Dynamic Damper, Add	86.57	
		For 3 Hour Rated, Add	48.10	
		For Cap Of Damper Blades Outside Air Stream, Add	40.08	
23 33 13 16-0071	EA	36" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	166.39	28.66
		For Spring Activated Horizontal Mount Operation, Add	18.04	
		For Dynamic Damper, Add	43.29	
		For 3 Hour Rated, Add	24.05	
		For Cap Of Damper Blades Outside Air Stream, Add	20.04	
23 33 13 16-0072	EA	36" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	177.47	30.91
		For Spring Activated Horizontal Mount Operation, Add	19.04	
		For Dynamic Damper, Add	45.68	
		For 3 Hour Rated, Add	25.38	
		For Cap Of Damper Blades Outside Air Stream, Add	21.15	
23 33 13 16-0073	EA	36" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	188.55	33.17
		For Spring Activated Horizontal Mount Operation, Add	20.04	
		For Dynamic Damper, Add	48.09	
		For 3 Hour Rated, Add	26.72	
		For Cap Of Damper Blades Outside Air Stream, Add	22.26	
23 33 13 16-0074	EA	36" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	201.88	35.29
		For Spring Activated Horizontal Mount Operation, Add	21.54	
		For Dynamic Damper, Add	51.70	
		For 3 Hour Rated, Add	28.72	
		For Cap Of Damper Blades Outside Air Stream, Add	23.94	
23 33 13 16-0075	EA	36" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	218.49	39.80
		For Spring Activated Horizontal Mount Operation, Add	22.30	
		For Dynamic Damper, Add	53.51	
		For 3 Hour Rated, Add	29.73	
		For Cap Of Damper Blades Outside Air Stream, Add	24.77	
23 33 13 16-0076	EA	36" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	228.47	41.92
		For Spring Activated Horizontal Mount Operation, Add	23.05	
		For Dynamic Damper, Add	55.31	
		For 3 Hour Rated, Add	30.73	
		For Cap Of Damper Blades Outside Air Stream, Add	25.61	
23 33 13 16-0077	EA	36" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	259.50	48.56
		For Spring Activated Horizontal Mount Operation, Add	25.55	
		For Dynamic Damper, Add	61.32	
		For 3 Hour Rated, Add	34.07	
		For Cap Of Damper Blades Outside Air Stream, Add	28.39	
23 33 13 16-0078	EA	36" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	283.89	53.07
		For Spring Activated Horizontal Mount Operation, Add	28.05	
		For Dynamic Damper, Add	67.33	
		For 3 Hour Rated, Add	37.40	
		For Cap Of Damper Blades Outside Air Stream, Add	31.17	
23 33 13 16-0079	EA	36" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	243.39	54.80
		For Spring Activated Horizontal Mount Operation, Add	17.75	
		For Dynamic Damper, Add	42.60	
		For 3 Hour Rated, Add	23.66	
		For Cap Of Damper Blades Outside Air Stream, Add	19.72	
23 33 13 16-0080	EA	36" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	332.31	58.77
		For Spring Activated Horizontal Mount Operation, Add	35.07	
		For Dynamic Damper, Add	84.16	
		For 3 Hour Rated, Add	46.76	
		For Cap Of Damper Blades Outside Air Stream, Add	38.97	
23 33 13 16-0081	EA	36" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	357.17	61.83
		For Spring Activated Horizontal Mount Operation, Add	38.57	
		For Dynamic Damper, Add	92.57	
		For 3 Hour Rated, Add	51.43	
		For Cap Of Damper Blades Outside Air Stream, Add	42.86	
23 33 13 16-0082	EA	36" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	381.62	64.08
		For Spring Activated Horizontal Mount Operation, Add	42.58	
		For Dynamic Damper, Add	102.19	
		For 3 Hour Rated, Add	56.77	
		For Cap Of Damper Blades Outside Air Stream, Add	47.31	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0083	EA		40" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	175.24	33.17
			For Spring Activated Horizontal Mount Operation, Add	18.53	
			For Dynamic Damper, Add	44.48	
			For 3 Hour Rated, Add	24.71	
			For Cap Of Damper Blades Outside Air Stream, Add	20.59	
23 33 13 16-0084	EA		40" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	190.78	35.29
			For Spring Activated Horizontal Mount Operation, Add	20.54	
			For Dynamic Damper, Add	49.29	
			For 3 Hour Rated, Add	27.38	
			For Cap Of Damper Blades Outside Air Stream, Add	22.82	
23 33 13 16-0085	EA		40" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	199.65	37.54
			For Spring Activated Horizontal Mount Operation, Add	21.04	
			For Dynamic Damper, Add	50.50	
			For 3 Hour Rated, Add	28.05	
			For Cap Of Damper Blades Outside Air Stream, Add	23.38	
23 33 13 16-0086	EA		40" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	208.51	39.80
			For Spring Activated Horizontal Mount Operation, Add	21.54	
			For Dynamic Damper, Add	51.70	
			For 3 Hour Rated, Add	28.72	
			For Cap Of Damper Blades Outside Air Stream, Add	23.94	
23 33 13 16-0087	EA		40" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	229.58	41.92
			For Spring Activated Horizontal Mount Operation, Add	23.30	
			For Dynamic Damper, Add	55.91	
			For 3 Hour Rated, Add	31.06	
			For Cap Of Damper Blades Outside Air Stream, Add	25.89	
23 33 13 16-0088	EA		40" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	244.00	44.18
			For Spring Activated Horizontal Mount Operation, Add	25.05	
			For Dynamic Damper, Add	60.12	
			For 3 Hour Rated, Add	33.40	
			For Cap Of Damper Blades Outside Air Stream, Add	27.83	
23 33 13 16-0089	EA		40" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	272.81	50.81
			For Spring Activated Horizontal Mount Operation, Add	27.05	
			For Dynamic Damper, Add	64.93	
			For 3 Hour Rated, Add	36.07	
			For Cap Of Damper Blades Outside Air Stream, Add	30.06	
23 33 13 16-0090	EA		40" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	294.98	55.19
			For Spring Activated Horizontal Mount Operation, Add	29.06	
			For Dynamic Damper, Add	69.74	
			For 3 Hour Rated, Add	38.74	
			For Cap Of Damper Blades Outside Air Stream, Add	32.29	
23 33 13 16-0091	EA		40" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	318.96	58.77
			For Spring Activated Horizontal Mount Operation, Add	32.06	
			For Dynamic Damper, Add	76.96	
			For 3 Hour Rated, Add	42.75	
			For Cap Of Damper Blades Outside Air Stream, Add	35.63	
23 33 13 16-0092	EA		40" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	352.73	61.83
			For Spring Activated Horizontal Mount Operation, Add	37.57	
			For Dynamic Damper, Add	90.17	
			For 3 Hour Rated, Add	50.10	
			For Cap Of Damper Blades Outside Air Stream, Add	41.75	
23 33 13 16-0093	EA		40" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	376.70	65.41
			For Spring Activated Horizontal Mount Operation, Add	40.58	
			For Dynamic Damper, Add	97.38	
			For 3 Hour Rated, Add	54.10	
			For Cap Of Damper Blades Outside Air Stream, Add	45.09	
23 33 13 16-0094	EA		40" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	406.50	67.13
			For Spring Activated Horizontal Mount Operation, Add	46.09	
			For Dynamic Damper, Add	110.61	
			For 3 Hour Rated, Add	61.45	
			For Cap Of Damper Blades Outside Air Stream, Add	51.21	
23 33 13 16-0095	EA		40" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	439.39	70.71
			For Spring Activated Horizontal Mount Operation, Add	51.10	
			For Dynamic Damper, Add	122.64	
			For 3 Hour Rated, Add	68.13	
			For Cap Of Damper Blades Outside Air Stream, Add	56.78	
23 33 13 16-0096	EA		44" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	186.33	33.17
			For Spring Activated Horizontal Mount Operation, Add	19.54	
			For Dynamic Damper, Add	46.89	
			For 3 Hour Rated, Add	26.05	
			For Cap Of Damper Blades Outside Air Stream, Add	21.71	
23 33 13 16-0097	EA		44" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	201.88	35.29
			For Spring Activated Horizontal Mount Operation, Add	21.54	
			For Dynamic Damper, Add	51.70	
			For 3 Hour Rated, Add	28.72	
			For Cap Of Damper Blades Outside Air Stream, Add	23.94	
23 33 13 16-0098	EA		44" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	215.20	37.54
			For Spring Activated Horizontal Mount Operation, Add	23.05	
			For Dynamic Damper, Add	55.31	
			For 3 Hour Rated, Add	30.73	
			For Cap Of Damper Blades Outside Air Stream, Add	25.61	
23 33 13 16-0099	EA		44" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	224.06	39.80
			For Spring Activated Horizontal Mount Operation, Add	23.55	
			For Dynamic Damper, Add	56.52	
			For 3 Hour Rated, Add	31.40	
			For Cap Of Damper Blades Outside Air Stream, Add	26.17	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0100	EA	44" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	239.60	41.92
		For Spring Activated Horizontal Mount Operation, Add	25.55	
		For Dynamic Damper, Add	61.32	
		For 3 Hour Rated, Add	34.07	
		For Cap Of Damper Blades Outside Air Stream, Add	28.39	
23 33 13 16-0101	EA	44" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	255.14	44.18
		For Spring Activated Horizontal Mount Operation, Add	27.56	
		For Dynamic Damper, Add	66.13	
		For 3 Hour Rated, Add	36.74	
		For Cap Of Damper Blades Outside Air Stream, Add	30.62	
23 33 13 16-0102	EA	44" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	292.81	53.07
		For Spring Activated Horizontal Mount Operation, Add	30.06	
		For Dynamic Damper, Add	72.14	
		For 3 Hour Rated, Add	40.08	
		For Cap Of Damper Blades Outside Air Stream, Add	33.40	
23 33 13 16-0103	EA	44" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	317.20	57.44
		For Spring Activated Horizontal Mount Operation, Add	32.56	
		For Dynamic Damper, Add	78.15	
		For 3 Hour Rated, Add	43.42	
		For Cap Of Damper Blades Outside Air Stream, Add	36.18	
23 33 13 16-0104	EA	44" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	352.73	61.83
		For Spring Activated Horizontal Mount Operation, Add	37.57	
		For Dynamic Damper, Add	90.17	
		For 3 Hour Rated, Add	50.10	
		For Cap Of Damper Blades Outside Air Stream, Add	41.75	
23 33 13 16-0105	EA	44" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	386.04	66.34
		For Spring Activated Horizontal Mount Operation, Add	42.08	
		For Dynamic Damper, Add	101.00	
		For 3 Hour Rated, Add	56.11	
		For Cap Of Damper Blades Outside Air Stream, Add	46.76	
23 33 13 16-0106	EA	44" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	421.56	70.71
		For Spring Activated Horizontal Mount Operation, Add	47.09	
		For Dynamic Damper, Add	113.01	
		For 3 Hour Rated, Add	62.78	
		For Cap Of Damper Blades Outside Air Stream, Add	52.32	
23 33 13 16-0107	EA	44" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	448.24	72.83
		For Spring Activated Horizontal Mount Operation, Add	51.60	
		For Dynamic Damper, Add	123.83	
		For 3 Hour Rated, Add	68.80	
		For Cap Of Damper Blades Outside Air Stream, Add	57.33	
23 33 13 16-0108	EA	44" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	474.91	75.10
		For Spring Activated Horizontal Mount Operation, Add	56.11	
		For Dynamic Damper, Add	134.65	
		For 3 Hour Rated, Add	74.81	
		For Cap Of Damper Blades Outside Air Stream, Add	62.34	
23 33 13 16-0109	EA	44" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	501.60	77.35
		For Spring Activated Horizontal Mount Operation, Add	60.62	
		For Dynamic Damper, Add	145.49	
		For 3 Hour Rated, Add	80.83	
		For Cap Of Damper Blades Outside Air Stream, Add	67.36	
23 33 13 16-0110	EA	48" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	199.65	35.29
		For Spring Activated Horizontal Mount Operation, Add	21.04	
		For Dynamic Damper, Add	50.50	
		For 3 Hour Rated, Add	28.05	
		For Cap Of Damper Blades Outside Air Stream, Add	23.38	
23 33 13 16-0111	EA	48" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	215.20	37.54
		For Spring Activated Horizontal Mount Operation, Add	23.05	
		For Dynamic Damper, Add	55.31	
		For 3 Hour Rated, Add	30.73	
		For Cap Of Damper Blades Outside Air Stream, Add	25.61	
23 33 13 16-0112	EA	48" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	224.06	39.80
		For Spring Activated Horizontal Mount Operation, Add	23.55	
		For Dynamic Damper, Add	56.52	
		For 3 Hour Rated, Add	31.40	
		For Cap Of Damper Blades Outside Air Stream, Add	26.17	
23 33 13 16-0113	EA	48" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	244.00	44.18
		For Spring Activated Horizontal Mount Operation, Add	25.05	
		For Dynamic Damper, Add	60.12	
		For 3 Hour Rated, Add	33.40	
		For Cap Of Damper Blades Outside Air Stream, Add	27.83	
23 33 13 16-0114	EA	48" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	266.18	48.56
		For Spring Activated Horizontal Mount Operation, Add	27.05	
		For Dynamic Damper, Add	64.93	
		For 3 Hour Rated, Add	36.07	
		For Cap Of Damper Blades Outside Air Stream, Add	30.06	
23 33 13 16-0115	EA	48" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	288.35	53.07
		For Spring Activated Horizontal Mount Operation, Add	29.06	
		For Dynamic Damper, Add	69.74	
		For 3 Hour Rated, Add	38.74	
		For Cap Of Damper Blades Outside Air Stream, Add	32.29	
23 33 13 16-0116	EA	48" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	314.99	57.44
		For Spring Activated Horizontal Mount Operation, Add	32.06	
		For Dynamic Damper, Add	76.96	
		For 3 Hour Rated, Add	42.75	
		For Cap Of Damper Blades Outside Air Stream, Add	35.63	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0117	EA		48" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	341.60	61.83
			For Spring Activated Horizontal Mount Operation, Add	35.07	
			For Dynamic Damper, Add	84.16	
			For 3 Hour Rated, Add	46.76	
			For Cap Of Damper Blades Outside Air Stream, Add	38.97	
23 33 13 16-0118	EA		48" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	374.91	66.34
			For Spring Activated Horizontal Mount Operation, Add	39.58	
			For Dynamic Damper, Add	94.99	
			For 3 Hour Rated, Add	52.77	
			For Cap Of Damper Blades Outside Air Stream, Add	43.98	
23 33 13 16-0119	EA		48" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	412.66	70.71
			For Spring Activated Horizontal Mount Operation, Add	45.09	
			For Dynamic Damper, Add	108.21	
			For 3 Hour Rated, Add	60.11	
			For Cap Of Damper Blades Outside Air Stream, Add	50.10	
23 33 13 16-0120	EA		48" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	439.36	72.83
			For Spring Activated Horizontal Mount Operation, Add	49.60	
			For Dynamic Damper, Add	119.04	
			For 3 Hour Rated, Add	66.13	
			For Cap Of Damper Blades Outside Air Stream, Add	55.11	
23 33 13 16-0121	EA		48" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	472.68	75.10
			For Spring Activated Horizontal Mount Operation, Add	55.60	
			For Dynamic Damper, Add	133.45	
			For 3 Hour Rated, Add	74.14	
			For Cap Of Damper Blades Outside Air Stream, Add	61.78	
23 33 13 16-0122	EA		48" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	506.01	79.47
			For Spring Activated Horizontal Mount Operation, Add	60.12	
			For Dynamic Damper, Add	144.28	
			For 3 Hour Rated, Add	80.16	
			For Cap Of Damper Blades Outside Air Stream, Add	66.80	
23 33 13 16-0123	EA		48" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	539.35	81.73
			For Spring Activated Horizontal Mount Operation, Add	66.13	
			For Dynamic Damper, Add	158.71	
			For 3 Hour Rated, Add	88.17	
			For Cap Of Damper Blades Outside Air Stream, Add	73.48	
23 33 13 16-0124	EA		48" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	577.05	88.36
			For Spring Activated Horizontal Mount Operation, Add	70.13	
			For Dynamic Damper, Add	168.32	
			For 3 Hour Rated, Add	93.51	
			For Cap Of Damper Blades Outside Air Stream, Add	77.93	
23 33 13 16-0125	EA		52" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	212.97	37.54
			For Spring Activated Horizontal Mount Operation, Add	22.55	
			For Dynamic Damper, Add	54.11	
			For 3 Hour Rated, Add	30.06	
			For Cap Of Damper Blades Outside Air Stream, Add	25.05	
23 33 13 16-0126	EA		52" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	228.50	39.80
			For Spring Activated Horizontal Mount Operation, Add	24.55	
			For Dynamic Damper, Add	58.91	
			For 3 Hour Rated, Add	32.73	
			For Cap Of Damper Blades Outside Air Stream, Add	27.28	
23 33 13 16-0127	EA		52" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	250.68	44.18
			For Spring Activated Horizontal Mount Operation, Add	26.55	
			For Dynamic Damper, Add	63.73	
			For 3 Hour Rated, Add	35.40	
			For Cap Of Damper Blades Outside Air Stream, Add	29.50	
23 33 13 16-0128	EA		52" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	266.18	48.56
			For Spring Activated Horizontal Mount Operation, Add	27.05	
			For Dynamic Damper, Add	64.93	
			For 3 Hour Rated, Add	36.07	
			For Cap Of Damper Blades Outside Air Stream, Add	30.06	
23 33 13 16-0129	EA		52" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	289.48	53.07
			For Spring Activated Horizontal Mount Operation, Add	29.31	
			For Dynamic Damper, Add	70.35	
			For 3 Hour Rated, Add	39.08	
			For Cap Of Damper Blades Outside Air Stream, Add	32.57	
23 33 13 16-0130	EA		52" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	312.76	57.44
			For Spring Activated Horizontal Mount Operation, Add	31.56	
			For Dynamic Damper, Add	75.75	
			For 3 Hour Rated, Add	42.08	
			For Cap Of Damper Blades Outside Air Stream, Add	35.07	
23 33 13 16-0131	EA		52" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	339.38	61.83
			For Spring Activated Horizontal Mount Operation, Add	34.57	
			For Dynamic Damper, Add	82.97	
			For 3 Hour Rated, Add	46.09	
			For Cap Of Damper Blades Outside Air Stream, Add	38.41	
23 33 13 16-0132	EA		52" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	366.00	66.34
			For Spring Activated Horizontal Mount Operation, Add	37.57	
			For Dynamic Damper, Add	90.17	
			For 3 Hour Rated, Add	50.10	
			For Cap Of Damper Blades Outside Air Stream, Add	41.75	
23 33 13 16-0133	EA		52" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	399.31	70.71
			For Spring Activated Horizontal Mount Operation, Add	42.08	
			For Dynamic Damper, Add	101.00	
			For 3 Hour Rated, Add	56.11	
			For Cap Of Damper Blades Outside Air Stream, Add	46.76	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0134	EA	52" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	439.29	75.10
		For Spring Activated Horizontal Mount Operation, Add	48.09	
		For Dynamic Damper, Add	115.42	
		For 3 Hour Rated, Add	64.12	
		For Cap Of Damper Blades Outside Air Stream, Add	53.44	
23 33 13 16-0135	EA	52" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	468.18	77.35
		For Spring Activated Horizontal Mount Operation, Add	53.10	
		For Dynamic Damper, Add	127.44	
		For 3 Hour Rated, Add	70.80	
		For Cap Of Damper Blades Outside Air Stream, Add	59.00	
23 33 13 16-0136	EA	52" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	503.78	79.47
		For Spring Activated Horizontal Mount Operation, Add	59.62	
		For Dynamic Damper, Add	143.08	
		For 3 Hour Rated, Add	79.49	
		For Cap Of Damper Blades Outside Air Stream, Add	66.24	
23 33 13 16-0137	EA	52" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	543.75	83.98
		For Spring Activated Horizontal Mount Operation, Add	65.62	
		For Dynamic Damper, Add	157.50	
		For 3 Hour Rated, Add	87.50	
		For Cap Of Damper Blades Outside Air Stream, Add	72.92	
23 33 13 16-0138	EA	52" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	577.05	88.36
		For Spring Activated Horizontal Mount Operation, Add	70.13	
		For Dynamic Damper, Add	168.32	
		For 3 Hour Rated, Add	93.51	
		For Cap Of Damper Blades Outside Air Stream, Add	77.93	
23 33 13 16-0139	EA	52" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	623.68	95.00
		For Spring Activated Horizontal Mount Operation, Add	76.15	
		For Dynamic Damper, Add	182.75	
		For 3 Hour Rated, Add	101.53	
		For Cap Of Damper Blades Outside Air Stream, Add	84.61	
23 33 13 16-0140	EA	52" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	659.21	99.37
		For Spring Activated Horizontal Mount Operation, Add	81.16	
		For Dynamic Damper, Add	194.78	
		For 3 Hour Rated, Add	108.21	
		For Cap Of Damper Blades Outside Air Stream, Add	90.18	
23 33 13 16-0141	EA	56" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	224.06	39.80
		For Spring Activated Horizontal Mount Operation, Add	23.55	
		For Dynamic Damper, Add	56.52	
		For 3 Hour Rated, Add	31.40	
		For Cap Of Damper Blades Outside Air Stream, Add	26.17	
23 33 13 16-0142	EA	56" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	248.45	44.18
		For Spring Activated Horizontal Mount Operation, Add	26.05	
		For Dynamic Damper, Add	62.52	
		For 3 Hour Rated, Add	34.73	
		For Cap Of Damper Blades Outside Air Stream, Add	28.95	
23 33 13 16-0143	EA	56" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	268.41	48.56
		For Spring Activated Horizontal Mount Operation, Add	27.56	
		For Dynamic Damper, Add	66.13	
		For 3 Hour Rated, Add	36.74	
		For Cap Of Damper Blades Outside Air Stream, Add	30.62	
23 33 13 16-0144	EA	56" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	283.89	53.07
		For Spring Activated Horizontal Mount Operation, Add	28.05	
		For Dynamic Damper, Add	67.33	
		For 3 Hour Rated, Add	37.40	
		For Cap Of Damper Blades Outside Air Stream, Add	31.17	
23 33 13 16-0145	EA	56" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	309.42	57.44
		For Spring Activated Horizontal Mount Operation, Add	30.81	
		For Dynamic Damper, Add	73.95	
		For 3 Hour Rated, Add	41.08	
		For Cap Of Damper Blades Outside Air Stream, Add	34.24	
23 33 13 16-0146	EA	56" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	334.92	61.83
		For Spring Activated Horizontal Mount Operation, Add	33.57	
		For Dynamic Damper, Add	80.56	
		For 3 Hour Rated, Add	44.75	
		For Cap Of Damper Blades Outside Air Stream, Add	37.30	
23 33 13 16-0147	EA	56" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	360.43	66.34
		For Spring Activated Horizontal Mount Operation, Add	36.32	
		For Dynamic Damper, Add	87.17	
		For 3 Hour Rated, Add	48.43	
		For Cap Of Damper Blades Outside Air Stream, Add	40.36	
23 33 13 16-0148	EA	56" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	385.95	70.71
		For Spring Activated Horizontal Mount Operation, Add	39.08	
		For Dynamic Damper, Add	93.78	
		For 3 Hour Rated, Add	52.10	
		For Cap Of Damper Blades Outside Air Stream, Add	43.42	
23 33 13 16-0149	EA	56" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	425.93	75.10
		For Spring Activated Horizontal Mount Operation, Add	45.09	
		For Dynamic Damper, Add	108.21	
		For 3 Hour Rated, Add	60.11	
		For Cap Of Damper Blades Outside Air Stream, Add	50.10	
23 33 13 16-0150	EA	56" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	459.29	77.35
		For Spring Activated Horizontal Mount Operation, Add	51.10	
		For Dynamic Damper, Add	122.64	
		For 3 Hour Rated, Add	68.13	
		For Cap Of Damper Blades Outside Air Stream, Add	56.78	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0151	EA		56" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	490.41	79.47
			For Spring Activated Horizontal Mount Operation, Add	56.61	
			For Dynamic Damper, Add	135.86	
			For 3 Hour Rated, Add	75.48	
			For Cap Of Damper Blades Outside Air Stream, Add	62.90	
23 33 13 16-0152	EA		56" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	534.86	83.98
			For Spring Activated Horizontal Mount Operation, Add	63.62	
			For Dynamic Damper, Add	152.70	
			For 3 Hour Rated, Add	84.83	
			For Cap Of Damper Blades Outside Air Stream, Add	70.69	
23 33 13 16-0153	EA		56" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	574.82	88.36
			For Spring Activated Horizontal Mount Operation, Add	69.63	
			For Dynamic Damper, Add	167.12	
			For 3 Hour Rated, Add	92.84	
			For Cap Of Damper Blades Outside Air Stream, Add	77.37	
23 33 13 16-0154	EA		56" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	617.04	92.74
			For Spring Activated Horizontal Mount Operation, Add	76.15	
			For Dynamic Damper, Add	182.75	
			For 3 Hour Rated, Add	101.53	
			For Cap Of Damper Blades Outside Air Stream, Add	84.61	
23 33 13 16-0155	EA		56" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	652.58	97.25
			For Spring Activated Horizontal Mount Operation, Add	81.16	
			For Dynamic Damper, Add	194.78	
			For 3 Hour Rated, Add	108.21	
			For Cap Of Damper Blades Outside Air Stream, Add	90.18	
23 33 13 16-0156	EA		56" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	694.79	101.63
			For Spring Activated Horizontal Mount Operation, Add	87.67	
			For Dynamic Damper, Add	210.41	
			For 3 Hour Rated, Add	116.89	
			For Cap Of Damper Blades Outside Air Stream, Add	97.41	
23 33 13 16-0157	EA		56" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	737.00	106.00
			For Spring Activated Horizontal Mount Operation, Add	94.18	
			For Dynamic Damper, Add	226.03	
			For 3 Hour Rated, Add	125.57	
			For Cap Of Damper Blades Outside Air Stream, Add	104.65	
23 33 13 16-0158	EA		60" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	244.00	44.18
			For Spring Activated Horizontal Mount Operation, Add	25.05	
			For Dynamic Damper, Add	60.12	
			For 3 Hour Rated, Add	33.40	
			For Cap Of Damper Blades Outside Air Stream, Add	27.83	
23 33 13 16-0159	EA		60" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	268.41	48.56
			For Spring Activated Horizontal Mount Operation, Add	27.56	
			For Dynamic Damper, Add	66.13	
			For 3 Hour Rated, Add	36.74	
			For Cap Of Damper Blades Outside Air Stream, Add	30.62	
23 33 13 16-0160	EA		60" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	286.12	53.07
			For Spring Activated Horizontal Mount Operation, Add	28.55	
			For Dynamic Damper, Add	68.53	
			For 3 Hour Rated, Add	38.07	
			For Cap Of Damper Blades Outside Air Stream, Add	31.73	
23 33 13 16-0161	EA		60" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	301.62	57.44
			For Spring Activated Horizontal Mount Operation, Add	29.06	
			For Dynamic Damper, Add	69.74	
			For 3 Hour Rated, Add	38.74	
			For Cap Of Damper Blades Outside Air Stream, Add	32.29	
23 33 13 16-0162	EA		60" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	328.25	61.83
			For Spring Activated Horizontal Mount Operation, Add	32.06	
			For Dynamic Damper, Add	76.96	
			For 3 Hour Rated, Add	42.75	
			For Cap Of Damper Blades Outside Air Stream, Add	35.63	
23 33 13 16-0163	EA		60" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	354.87	66.34
			For Spring Activated Horizontal Mount Operation, Add	35.07	
			For Dynamic Damper, Add	84.16	
			For 3 Hour Rated, Add	46.76	
			For Cap Of Damper Blades Outside Air Stream, Add	38.97	
23 33 13 16-0164	EA		60" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	382.61	70.71
			For Spring Activated Horizontal Mount Operation, Add	38.32	
			For Dynamic Damper, Add	91.98	
			For 3 Hour Rated, Add	51.10	
			For Cap Of Damper Blades Outside Air Stream, Add	42.58	
23 33 13 16-0165	EA		60" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	410.35	75.10
			For Spring Activated Horizontal Mount Operation, Add	41.58	
			For Dynamic Damper, Add	99.79	
			For 3 Hour Rated, Add	55.44	
			For Cap Of Damper Blades Outside Air Stream, Add	46.20	
23 33 13 16-0166	EA		60" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	445.92	77.35
			For Spring Activated Horizontal Mount Operation, Add	48.09	
			For Dynamic Damper, Add	115.42	
			For 3 Hour Rated, Add	64.12	
			For Cap Of Damper Blades Outside Air Stream, Add	53.44	
23 33 13 16-0167	EA		60" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	479.28	79.47
			For Spring Activated Horizontal Mount Operation, Add	54.10	
			For Dynamic Damper, Add	129.85	
			For 3 Hour Rated, Add	72.14	
			For Cap Of Damper Blades Outside Air Stream, Add	60.12	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 33 13 16-0168	EA	60" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	521.51		83.98
		For Spring Activated Horizontal Mount Operation, Add	60.62		
		For Dynamic Damper, Add	145.49		
		For 3 Hour Rated, Add	80.83		
		For Cap Of Damper Blades Outside Air Stream, Add	67.36		
23 33 13 16-0169	EA	60" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	563.70		88.36
		For Spring Activated Horizontal Mount Operation, Add	67.13		
		For Dynamic Damper, Add	161.11		
		For 3 Hour Rated, Add	89.51		
		For Cap Of Damper Blades Outside Air Stream, Add	74.59		
23 33 13 16-0170	EA	60" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	599.23		92.74
		For Spring Activated Horizontal Mount Operation, Add	72.14		
		For Dynamic Damper, Add	173.13		
		For 3 Hour Rated, Add	96.19		
		For Cap Of Damper Blades Outside Air Stream, Add	80.16		
23 33 13 16-0171	EA	60" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	648.12		97.25
		For Spring Activated Horizontal Mount Operation, Add	80.15		
		For Dynamic Damper, Add	192.37		
		For 3 Hour Rated, Add	106.87		
		For Cap Of Damper Blades Outside Air Stream, Add	89.06		
23 33 13 16-0172	EA	60" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	692.56		101.63
		For Spring Activated Horizontal Mount Operation, Add	87.17		
		For Dynamic Damper, Add	209.20		
		For 3 Hour Rated, Add	116.22		
		For Cap Of Damper Blades Outside Air Stream, Add	96.85		
23 33 13 16-0173	EA	60" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	737.00		106.00
		For Spring Activated Horizontal Mount Operation, Add	94.18		
		For Dynamic Damper, Add	226.03		
		For 3 Hour Rated, Add	125.57		
		For Cap Of Damper Blades Outside Air Stream, Add	104.65		
23 33 13 16-0174	EA	60" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	776.97		110.52
		For Spring Activated Horizontal Mount Operation, Add	100.19		
		For Dynamic Damper, Add	240.45		
		For 3 Hour Rated, Add	133.58		
		For Cap Of Damper Blades Outside Air Stream, Add	111.32		
23 33 13 16-0175	EA	60" x 60" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	816.98		114.90
		For Spring Activated Horizontal Mount Operation, Add	106.21		
		For Dynamic Damper, Add	254.90		
		For 3 Hour Rated, Add	141.61		
		For Cap Of Damper Blades Outside Air Stream, Add	118.01		
23 33 13 16-0176 Parallel Blade Louver Fire Damper (23 33 13 16)					
Note: UL listed. 22 gauge galvanized steel construction with fusible link 160 F spring actuated 1-1/2 hour fire rating.					
23 33 13 16-0177	EA	6" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	108.69		14.73
		For Spring Activated Horizontal Mount Operation, Add	14.51		
		For Dynamic Damper, Add	34.84		
		For 3 Hour Rated, Add	19.35		
23 33 13 16-0178	EA	8" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	113.45		15.39
		For Spring Activated Horizontal Mount Operation, Add	15.14		
		For Dynamic Damper, Add	36.33		
		For 3 Hour Rated, Add	20.18		
23 33 13 16-0179	EA	8" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	116.50		15.52
		For Spring Activated Horizontal Mount Operation, Add	15.76		
		For Dynamic Damper, Add	37.83		
		For 3 Hour Rated, Add	21.02		
23 33 13 16-0180	EA	10" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	116.50		15.52
		For Spring Activated Horizontal Mount Operation, Add	15.76		
		For Dynamic Damper, Add	37.83		
		For 3 Hour Rated, Add	21.02		
23 33 13 16-0181	EA	10" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	120.62		15.93
		For Spring Activated Horizontal Mount Operation, Add	16.39		
		For Dynamic Damper, Add	39.34		
		For 3 Hour Rated, Add	21.86		
23 33 13 16-0182	EA	10" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	131.47		17.65
		For Spring Activated Horizontal Mount Operation, Add	17.64		
		For Dynamic Damper, Add	42.34		
		For 3 Hour Rated, Add	23.52		
23 33 13 16-0183	EA	12" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	120.62		15.93
		For Spring Activated Horizontal Mount Operation, Add	16.39		
		For Dynamic Damper, Add	39.34		
		For 3 Hour Rated, Add	21.86		
23 33 13 16-0184	EA	12" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	128.82		16.85
		For Spring Activated Horizontal Mount Operation, Add	17.64		
		For Dynamic Damper, Add	42.34		
		For 3 Hour Rated, Add	23.52		
23 33 13 16-0185	EA	12" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	134.27		17.65
		For Spring Activated Horizontal Mount Operation, Add	18.27		
		For Dynamic Damper, Add	43.85		
		For 3 Hour Rated, Add	24.36		
23 33 13 16-0186	EA	12" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	143.70		19.90
		For Spring Activated Horizontal Mount Operation, Add	18.90		
		For Dynamic Damper, Add	45.35		
		For 3 Hour Rated, Add	25.20		



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0187	EA		14" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	127.45	16.85
			For Spring Activated Horizontal Mount Operation, Add	17.33	
			For Dynamic Damper, Add	41.60	
			For 3 Hour Rated, Add	23.11	
23 33 13 16-0188	EA		14" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	134.27	17.65
			For Spring Activated Horizontal Mount Operation, Add	18.27	
			For Dynamic Damper, Add	43.85	
			For 3 Hour Rated, Add	24.36	
23 33 13 16-0189	EA		14" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	139.71	18.57
			For Spring Activated Horizontal Mount Operation, Add	18.90	
			For Dynamic Damper, Add	45.35	
			For 3 Hour Rated, Add	25.20	
23 33 13 16-0190	EA		14" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	146.47	19.90
			For Spring Activated Horizontal Mount Operation, Add	19.52	
			For Dynamic Damper, Add	46.85	
			For 3 Hour Rated, Add	26.03	
23 33 13 16-0191	EA		14" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	160.07	22.15
			For Spring Activated Horizontal Mount Operation, Add	21.09	
			For Dynamic Damper, Add	50.61	
			For 3 Hour Rated, Add	28.12	
23 33 13 16-0192	EA		16" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	166.48	17.65
			For Spring Activated Horizontal Mount Operation, Add	25.52	
			For Dynamic Damper, Add	61.24	
			For 3 Hour Rated, Add	34.02	
23 33 13 16-0193	EA		16" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	173.58	18.97
			For Spring Activated Horizontal Mount Operation, Add	26.22	
			For Dynamic Damper, Add	62.93	
			For 3 Hour Rated, Add	34.96	
23 33 13 16-0194	EA		16" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	182.01	20.83
			For Spring Activated Horizontal Mount Operation, Add	26.92	
			For Dynamic Damper, Add	64.62	
			For 3 Hour Rated, Add	35.90	
23 33 13 16-0195	EA		16" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	189.10	22.15
			For Spring Activated Horizontal Mount Operation, Add	27.62	
			For Dynamic Damper, Add	66.29	
			For 3 Hour Rated, Add	36.83	
23 33 13 16-0196	EA		16" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	203.55	24.27
			For Spring Activated Horizontal Mount Operation, Add	29.38	
			For Dynamic Damper, Add	70.51	
			For 3 Hour Rated, Add	39.17	
23 33 13 16-0197	EA		16" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	217.98	26.54
			For Spring Activated Horizontal Mount Operation, Add	31.13	
			For Dynamic Damper, Add	74.72	
			For 3 Hour Rated, Add	41.51	
23 33 13 16-0198	EA		18" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	172.25	18.57
			For Spring Activated Horizontal Mount Operation, Add	26.22	
			For Dynamic Damper, Add	62.93	
			For 3 Hour Rated, Add	34.96	
23 33 13 16-0199	EA		18" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	180.92	19.90
			For Spring Activated Horizontal Mount Operation, Add	27.27	
			For Dynamic Damper, Add	65.45	
			For 3 Hour Rated, Add	36.36	
23 33 13 16-0200	EA		18" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	192.25	22.15
			For Spring Activated Horizontal Mount Operation, Add	28.33	
			For Dynamic Damper, Add	67.99	
			For 3 Hour Rated, Add	37.77	
23 33 13 16-0201	EA		18" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	206.67	24.27
			For Spring Activated Horizontal Mount Operation, Add	30.08	
			For Dynamic Damper, Add	72.19	
			For 3 Hour Rated, Add	40.11	
23 33 13 16-0202	EA		18" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	219.53	26.54
			For Spring Activated Horizontal Mount Operation, Add	31.48	
			For Dynamic Damper, Add	75.56	
			For 3 Hour Rated, Add	41.98	
23 33 13 16-0203	EA		18" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	233.95	28.66
			For Spring Activated Horizontal Mount Operation, Add	33.24	
			For Dynamic Damper, Add	79.77	
			For 3 Hour Rated, Add	44.32	
23 33 13 16-0204	EA		18" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	245.25	30.91
			For Spring Activated Horizontal Mount Operation, Add	34.29	
			For Dynamic Damper, Add	82.29	
			For 3 Hour Rated, Add	45.71	
23 33 13 16-0205	EA		20" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	179.37	19.90
			For Spring Activated Horizontal Mount Operation, Add	26.92	
			For Dynamic Damper, Add	64.62	
			For 3 Hour Rated, Add	35.90	
23 33 13 16-0206	EA		20" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	192.21	22.15
			For Spring Activated Horizontal Mount Operation, Add	28.32	
			For Dynamic Damper, Add	67.97	
			For 3 Hour Rated, Add	37.76	
23 33 13 16-0207	EA		20" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	205.10	24.27
			For Spring Activated Horizontal Mount Operation, Add	29.73	
			For Dynamic Damper, Add	71.34	
			For 3 Hour Rated, Add	39.64	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0208	EA	20" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	224.23	26.54
		For Spring Activated Horizontal Mount Operation, Add		32.54	
		For Dynamic Damper, Add		78.09	
		For 3 Hour Rated, Add		43.39	
23 33 13 16-0209	EA	20" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	235.51	28.66
		For Spring Activated Horizontal Mount Operation, Add		33.59	
		For Dynamic Damper, Add		80.61	
		For 3 Hour Rated, Add		44.78	
23 33 13 16-0210	EA	20" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	246.82	30.91
		For Spring Activated Horizontal Mount Operation, Add		34.64	
		For Dynamic Damper, Add		83.13	
		For 3 Hour Rated, Add		46.19	
23 33 13 16-0211	EA	20" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	259.68	33.17
		For Spring Activated Horizontal Mount Operation, Add		36.04	
		For Dynamic Damper, Add		86.50	
		For 3 Hour Rated, Add		48.05	
23 33 13 16-0212	EA	20" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	272.54	35.29
		For Spring Activated Horizontal Mount Operation, Add		37.44	
		For Dynamic Damper, Add		89.86	
		For 3 Hour Rated, Add		49.92	
23 33 13 16-0213	EA	24" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	220.88	22.15
		For Spring Activated Horizontal Mount Operation, Add		34.77	
		For Dynamic Damper, Add		83.45	
		For 3 Hour Rated, Add		46.36	
23 33 13 16-0214	EA	24" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	236.89	24.27
		For Spring Activated Horizontal Mount Operation, Add		36.88	
		For Dynamic Damper, Add		88.51	
		For 3 Hour Rated, Add		49.17	
23 33 13 16-0215	EA	24" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	249.77	26.54
		For Spring Activated Horizontal Mount Operation, Add		38.29	
		For Dynamic Damper, Add		91.89	
		For 3 Hour Rated, Add		51.05	
23 33 13 16-0216	EA	24" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	265.72	28.66
		For Spring Activated Horizontal Mount Operation, Add		40.39	
		For Dynamic Damper, Add		96.92	
		For 3 Hour Rated, Add		53.85	
23 33 13 16-0217	EA	24" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	277.04	30.91
		For Spring Activated Horizontal Mount Operation, Add		41.44	
		For Dynamic Damper, Add		99.45	
		For 3 Hour Rated, Add		55.25	
23 33 13 16-0218	EA	24" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	288.34	33.17
		For Spring Activated Horizontal Mount Operation, Add		42.49	
		For Dynamic Damper, Add		101.97	
		For 3 Hour Rated, Add		56.65	
23 33 13 16-0219	EA	24" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	304.32	35.29
		For Spring Activated Horizontal Mount Operation, Add		44.59	
		For Dynamic Damper, Add		107.02	
		For 3 Hour Rated, Add		59.45	
23 33 13 16-0220	EA	24" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	326.93	39.80
		For Spring Activated Horizontal Mount Operation, Add		46.69	
		For Dynamic Damper, Add		112.07	
		For 3 Hour Rated, Add		62.26	
23 33 13 16-0221	EA	24" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	352.68	44.18
		For Spring Activated Horizontal Mount Operation, Add		49.50	
		For Dynamic Damper, Add		118.81	
		For 3 Hour Rated, Add		66.00	
23 33 13 16-0222	EA	28" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	236.89	24.27
		For Spring Activated Horizontal Mount Operation, Add		36.88	
		For Dynamic Damper, Add		88.51	
		For 3 Hour Rated, Add		49.17	
23 33 13 16-0223	EA	28" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	249.77	26.54
		For Spring Activated Horizontal Mount Operation, Add		38.29	
		For Dynamic Damper, Add		91.89	
		For 3 Hour Rated, Add		51.05	
23 33 13 16-0224	EA	28" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	265.72	28.66
		For Spring Activated Horizontal Mount Operation, Add		40.39	
		For Dynamic Damper, Add		96.92	
		For 3 Hour Rated, Add		53.85	
23 33 13 16-0225	EA	28" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	278.59	30.91
		For Spring Activated Horizontal Mount Operation, Add		41.79	
		For Dynamic Damper, Add		100.29	
		For 3 Hour Rated, Add		55.72	
23 33 13 16-0226	EA	28" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	293.02	33.17
		For Spring Activated Horizontal Mount Operation, Add		43.54	
		For Dynamic Damper, Add		104.50	
		For 3 Hour Rated, Add		58.06	
23 33 13 16-0227	EA	28" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	307.42	35.29
		For Spring Activated Horizontal Mount Operation, Add		45.29	
		For Dynamic Damper, Add		108.69	
		For 3 Hour Rated, Add		60.38	
23 33 13 16-0228	EA	28" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	330.05	39.80
		For Spring Activated Horizontal Mount Operation, Add		47.40	
		For Dynamic Damper, Add		113.75	
		For 3 Hour Rated, Add		63.20	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0229	EA	28" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	352.68	44.18	
		For Spring Activated Horizontal Mount Operation, Add	49.50		
		For Dynamic Damper, Add	118.81		
		For 3 Hour Rated, Add	66.00		
23 33 13 16-0230	EA	28" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	378.01	46.44	
		For Spring Activated Horizontal Mount Operation, Add	53.71		
		For Dynamic Damper, Add	128.90		
		For 3 Hour Rated, Add	71.61		
23 33 13 16-0231	EA	28" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	406.87	50.81	
		For Spring Activated Horizontal Mount Operation, Add	57.22		
		For Dynamic Damper, Add	137.32		
		For 3 Hour Rated, Add	76.29		
23 33 13 16-0232	EA	32" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	259.10	26.54	
		For Spring Activated Horizontal Mount Operation, Add	40.39		
		For Dynamic Damper, Add	96.92		
		For 3 Hour Rated, Add	53.85		
23 33 13 16-0233	EA	32" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	268.82	28.66	
		For Spring Activated Horizontal Mount Operation, Add	41.08		
		For Dynamic Damper, Add	98.60		
		For 3 Hour Rated, Add	54.78		
23 33 13 16-0234	EA	32" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	278.59	30.91	
		For Spring Activated Horizontal Mount Operation, Add	41.79		
		For Dynamic Damper, Add	100.29		
		For 3 Hour Rated, Add	55.72		
23 33 13 16-0235	EA	32" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	291.43	33.17	
		For Spring Activated Horizontal Mount Operation, Add	43.18		
		For Dynamic Damper, Add	103.64		
		For 3 Hour Rated, Add	57.58		
23 33 13 16-0236	EA	32" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	308.02	35.29	
		For Spring Activated Horizontal Mount Operation, Add	45.42		
		For Dynamic Damper, Add	109.02		
		For 3 Hour Rated, Add	60.56		
23 33 13 16-0237	EA	32" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	330.05	39.80	
		For Spring Activated Horizontal Mount Operation, Add	47.40		
		For Dynamic Damper, Add	113.75		
		For 3 Hour Rated, Add	63.20		
23 33 13 16-0238	EA	32" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	355.81	44.18	
		For Spring Activated Horizontal Mount Operation, Add	50.21		
		For Dynamic Damper, Add	120.50		
		For 3 Hour Rated, Add	66.94		
23 33 13 16-0239	EA	32" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	381.55	48.56	
		For Spring Activated Horizontal Mount Operation, Add	53.01		
		For Dynamic Damper, Add	127.23		
		For 3 Hour Rated, Add	70.68		
23 33 13 16-0240	EA	32" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	406.87	50.81	
		For Spring Activated Horizontal Mount Operation, Add	57.22		
		For Dynamic Damper, Add	137.32		
		For 3 Hour Rated, Add	76.29		
23 33 13 16-0241	EA	32" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	439.32	54.39	
		For Spring Activated Horizontal Mount Operation, Add	62.13		
		For Dynamic Damper, Add	149.11		
		For 3 Hour Rated, Add	82.84		
23 33 13 16-0242	EA	32" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	473.53	57.44	
		For Spring Activated Horizontal Mount Operation, Add	67.74		
		For Dynamic Damper, Add	162.57		
		For 3 Hour Rated, Add	90.32		
23 33 13 16-0243	EA	36" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	291.10	28.66	
		For Spring Activated Horizontal Mount Operation, Add	46.10		
		For Dynamic Damper, Add	110.63		
		For 3 Hour Rated, Add	61.46		
23 33 13 16-0244	EA	36" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	304.84	30.91	
		For Spring Activated Horizontal Mount Operation, Add	47.69		
		For Dynamic Damper, Add	114.46		
		For 3 Hour Rated, Add	63.59		
23 33 13 16-0245	EA	36" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	318.59	33.17	
		For Spring Activated Horizontal Mount Operation, Add	49.30		
		For Dynamic Damper, Add	118.31		
		For 3 Hour Rated, Add	65.73		
23 33 13 16-0246	EA	36" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	335.94	35.29	
		For Spring Activated Horizontal Mount Operation, Add	51.71		
		For Dynamic Damper, Add	124.09		
		For 3 Hour Rated, Add	68.94		
23 33 13 16-0247	EA	36" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	354.56	39.80	
		For Spring Activated Horizontal Mount Operation, Add	52.91		
		For Dynamic Damper, Add	126.99		
		For 3 Hour Rated, Add	70.55		
23 33 13 16-0248	EA	36" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	366.55	41.92	
		For Spring Activated Horizontal Mount Operation, Add	54.11		
		For Dynamic Damper, Add	129.88		
		For 3 Hour Rated, Add	72.15		
23 33 13 16-0249	EA	36" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	404.26	48.56	
		For Spring Activated Horizontal Mount Operation, Add	58.12		
		For Dynamic Damper, Add	139.49		
		For 3 Hour Rated, Add	77.50		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR			DESCRIPTION	TOTAL DIRECT		DEMOLITION
CSI	UOM			UNIT COST	UNIT COST	
23 33 13 16-0250	EA	36" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	435.32		53.07
		For Spring Activated Horizontal Mount Operation, Add		62.12		
		For Dynamic Damper, Add		149.10		
		For 3 Hour Rated, Add		82.83		
23 33 13 16-0251	EA	36" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	462.01		54.80
		For Spring Activated Horizontal Mount Operation, Add		66.94		
		For Dynamic Damper, Add		160.65		
		For 3 Hour Rated, Add		89.25		
23 33 13 16-0252	EA	36" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	502.43		58.77
		For Spring Activated Horizontal Mount Operation, Add		73.35		
		For Dynamic Damper, Add		176.03		
		For 3 Hour Rated, Add		97.79		
23 33 13 16-0253	EA	36" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	536.65		61.83
		For Spring Activated Horizontal Mount Operation, Add		78.95		
		For Dynamic Damper, Add		189.49		
		For 3 Hour Rated, Add		105.27		
23 33 13 16-0254	EA	36" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	571.79		64.08
		For Spring Activated Horizontal Mount Operation, Add		85.37		
		For Dynamic Damper, Add		204.88		
		For 3 Hour Rated, Add		113.82		
23 33 13 16-0255	EA	40" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	326.82		33.17
		For Spring Activated Horizontal Mount Operation, Add		52.64		
		For Dynamic Damper, Add		126.33		
		For 3 Hour Rated, Add		70.19		
23 33 13 16-0256	EA	40" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	347.70		35.29
		For Spring Activated Horizontal Mount Operation, Add		55.85		
		For Dynamic Damper, Add		134.03		
		For 3 Hour Rated, Add		74.46		
23 33 13 16-0257	EA	40" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	357.90		37.54
		For Spring Activated Horizontal Mount Operation, Add		56.65		
		For Dynamic Damper, Add		135.95		
		For 3 Hour Rated, Add		75.53		
23 33 13 16-0258	EA	40" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	368.11		39.80
		For Spring Activated Horizontal Mount Operation, Add		57.45		
		For Dynamic Damper, Add		137.88		
		For 3 Hour Rated, Add		76.60		
23 33 13 16-0259	EA	40" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	393.86		41.92
		For Spring Activated Horizontal Mount Operation, Add		60.26		
		For Dynamic Damper, Add		144.62		
		For 3 Hour Rated, Add		80.35		
23 33 13 16-0260	EA	40" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	412.95		44.18
		For Spring Activated Horizontal Mount Operation, Add		63.06		
		For Dynamic Damper, Add		151.35		
		For 3 Hour Rated, Add		84.08		
23 33 13 16-0261	EA	40" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	447.10		50.81
		For Spring Activated Horizontal Mount Operation, Add		66.27		
		For Dynamic Damper, Add		159.05		
		For 3 Hour Rated, Add		88.36		
23 33 13 16-0262	EA	40" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	474.62		55.19
		For Spring Activated Horizontal Mount Operation, Add		69.48		
		For Dynamic Damper, Add		166.74		
		For 3 Hour Rated, Add		92.63		
23 33 13 16-0263	EA	40" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	506.62		58.77
		For Spring Activated Horizontal Mount Operation, Add		74.29		
		For Dynamic Damper, Add		178.29		
		For 3 Hour Rated, Add		99.05		
23 33 13 16-0264	EA	40" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	555.08		61.83
		For Spring Activated Horizontal Mount Operation, Add		83.10		
		For Dynamic Damper, Add		199.44		
		For 3 Hour Rated, Add		110.80		
23 33 13 16-0265	EA	40" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	587.06		65.41
		For Spring Activated Horizontal Mount Operation, Add		87.91		
		For Dynamic Damper, Add		210.98		
		For 3 Hour Rated, Add		117.21		
23 33 13 16-0266	EA	40" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	631.57		67.13
		For Spring Activated Horizontal Mount Operation, Add		96.73		
		For Dynamic Damper, Add		232.15		
		For 3 Hour Rated, Add		128.97		
23 33 13 16-0267	EA	40" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	677.80		70.71
		For Spring Activated Horizontal Mount Operation, Add		104.74		
		For Dynamic Damper, Add		251.38		
		For 3 Hour Rated, Add		139.66		
23 33 13 16-0268	EA	44" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	340.59		33.17
		For Spring Activated Horizontal Mount Operation, Add		54.25		
		For Dynamic Damper, Add		130.19		
		For 3 Hour Rated, Add		72.33		
23 33 13 16-0269	EA	44" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	361.48		35.29
		For Spring Activated Horizontal Mount Operation, Add		57.45		
		For Dynamic Damper, Add		137.88		
		For 3 Hour Rated, Add		76.60		
23 33 13 16-0270	EA	44" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	378.82		37.54
		For Spring Activated Horizontal Mount Operation, Add		59.86		
		For Dynamic Damper, Add		143.67		
		For 3 Hour Rated, Add		79.82		



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0271	EA	44" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	389.01	39.80	
		For Spring Activated Horizontal Mount Operation, Add	60.66		
		For Dynamic Damper, Add	145.59		
		For 3 Hour Rated, Add	80.88		
23 33 13 16-0272	EA	44" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	409.90	41.92	
		For Spring Activated Horizontal Mount Operation, Add	63.87		
		For Dynamic Damper, Add	153.28		
		For 3 Hour Rated, Add	85.16		
23 33 13 16-0273	EA	44" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	430.78	44.18	
		For Spring Activated Horizontal Mount Operation, Add	67.07		
		For Dynamic Damper, Add	160.98		
		For 3 Hour Rated, Add	89.43		
23 33 13 16-0274	EA	44" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	475.13	53.07	
		For Spring Activated Horizontal Mount Operation, Add	71.08		
		For Dynamic Damper, Add	170.60		
		For 3 Hour Rated, Add	94.78		
23 33 13 16-0275	EA	44" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	506.19	57.44	
		For Spring Activated Horizontal Mount Operation, Add	75.08		
		For Dynamic Damper, Add	180.20		
		For 3 Hour Rated, Add	100.11		
23 33 13 16-0276	EA	44" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	555.08	61.83	
		For Spring Activated Horizontal Mount Operation, Add	83.10		
		For Dynamic Damper, Add	199.44		
		For 3 Hour Rated, Add	110.80		
23 33 13 16-0277	EA	44" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	600.41	66.34	
		For Spring Activated Horizontal Mount Operation, Add	90.32		
		For Dynamic Damper, Add	216.76		
		For 3 Hour Rated, Add	120.42		
23 33 13 16-0278	EA	44" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	649.29	70.71	
		For Spring Activated Horizontal Mount Operation, Add	98.33		
		For Dynamic Damper, Add	235.99		
		For 3 Hour Rated, Add	131.10		
23 33 13 16-0279	EA	44" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	687.99	72.83	
		For Spring Activated Horizontal Mount Operation, Add	105.54		
		For Dynamic Damper, Add	253.30		
		For 3 Hour Rated, Add	140.72		
23 33 13 16-0280	EA	44" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	726.69	75.10	
		For Spring Activated Horizontal Mount Operation, Add	112.76		
		For Dynamic Damper, Add	270.62		
		For 3 Hour Rated, Add	150.34		
23 33 13 16-0281	EA	44" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	765.40	77.35	
		For Spring Activated Horizontal Mount Operation, Add	119.97		
		For Dynamic Damper, Add	287.94		
		For 3 Hour Rated, Add	159.97		
23 33 13 16-0282	EA	48" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	357.90	35.29	
		For Spring Activated Horizontal Mount Operation, Add	56.65		
		For Dynamic Damper, Add	135.95		
		For 3 Hour Rated, Add	75.53		
23 33 13 16-0283	EA	48" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	378.82	37.54	
		For Spring Activated Horizontal Mount Operation, Add	59.86		
		For Dynamic Damper, Add	143.67		
		For 3 Hour Rated, Add	79.82		
23 33 13 16-0284	EA	48" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	389.01	39.80	
		For Spring Activated Horizontal Mount Operation, Add	60.66		
		For Dynamic Damper, Add	145.59		
		For 3 Hour Rated, Add	80.88		
23 33 13 16-0285	EA	48" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	412.95	44.18	
		For Spring Activated Horizontal Mount Operation, Add	63.06		
		For Dynamic Damper, Add	151.35		
		For 3 Hour Rated, Add	84.08		
23 33 13 16-0286	EA	48" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	440.47	48.56	
		For Spring Activated Horizontal Mount Operation, Add	66.27		
		For Dynamic Damper, Add	159.05		
		For 3 Hour Rated, Add	88.36		
23 33 13 16-0287	EA	48" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	467.99	53.07	
		For Spring Activated Horizontal Mount Operation, Add	69.48		
		For Dynamic Damper, Add	166.74		
		For 3 Hour Rated, Add	92.63		
23 33 13 16-0288	EA	48" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	502.65	57.44	
		For Spring Activated Horizontal Mount Operation, Add	74.29		
		For Dynamic Damper, Add	178.29		
		For 3 Hour Rated, Add	99.05		
23 33 13 16-0289	EA	48" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	537.26	61.83	
		For Spring Activated Horizontal Mount Operation, Add	79.09		
		For Dynamic Damper, Add	189.82		
		For 3 Hour Rated, Add	105.46		
23 33 13 16-0290	EA	48" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	582.61	66.34	
		For Spring Activated Horizontal Mount Operation, Add	86.31		
		For Dynamic Damper, Add	207.14		
		For 3 Hour Rated, Add	115.08		
23 33 13 16-0291	EA	48" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	635.04	70.71	
		For Spring Activated Horizontal Mount Operation, Add	95.12		
		For Dynamic Damper, Add	228.29		
		For 3 Hour Rated, Add	126.83		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0292	EA	48" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	673.77	72.83
		For Spring Activated Horizontal Mount Operation, Add	102.34	
		For Dynamic Damper, Add	245.62	
		For 3 Hour Rated, Add	136.46	
23 33 13 16-0293	EA	48" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	723.12	75.10
		For Spring Activated Horizontal Mount Operation, Add	111.95	
		For Dynamic Damper, Add	268.69	
		For 3 Hour Rated, Add	149.27	
23 33 13 16-0294	EA	48" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	768.48	79.47
		For Spring Activated Horizontal Mount Operation, Add	119.17	
		For Dynamic Damper, Add	286.02	
		For 3 Hour Rated, Add	158.90	
23 33 13 16-0295	EA	48" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	817.85	81.73
		For Spring Activated Horizontal Mount Operation, Add	128.79	
		For Dynamic Damper, Add	309.10	
		For 3 Hour Rated, Add	171.72	
23 33 13 16-0296	EA	48" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	866.24	88.36
		For Spring Activated Horizontal Mount Operation, Add	135.20	
		For Dynamic Damper, Add	324.49	
		For 3 Hour Rated, Add	180.27	
23 33 13 16-0297	EA	52" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	375.24	37.54
		For Spring Activated Horizontal Mount Operation, Add	59.06	
		For Dynamic Damper, Add	141.73	
		For 3 Hour Rated, Add	78.74	
23 33 13 16-0298	EA	52" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	396.12	39.80
		For Spring Activated Horizontal Mount Operation, Add	62.26	
		For Dynamic Damper, Add	149.43	
		For 3 Hour Rated, Add	83.02	
23 33 13 16-0299	EA	52" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	423.64	44.18
		For Spring Activated Horizontal Mount Operation, Add	65.47	
		For Dynamic Damper, Add	157.12	
		For 3 Hour Rated, Add	87.29	
23 33 13 16-0300	EA	52" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	440.47	48.56
		For Spring Activated Horizontal Mount Operation, Add	66.27	
		For Dynamic Damper, Add	159.05	
		For 3 Hour Rated, Add	88.36	
23 33 13 16-0301	EA	52" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	469.80	53.07
		For Spring Activated Horizontal Mount Operation, Add	69.88	
		For Dynamic Damper, Add	167.72	
		For 3 Hour Rated, Add	93.18	
23 33 13 16-0302	EA	52" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	499.07	57.44
		For Spring Activated Horizontal Mount Operation, Add	73.48	
		For Dynamic Damper, Add	176.36	
		For 3 Hour Rated, Add	97.98	
23 33 13 16-0303	EA	52" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	533.72	61.83
		For Spring Activated Horizontal Mount Operation, Add	78.30	
		For Dynamic Damper, Add	187.91	
		For 3 Hour Rated, Add	104.39	
23 33 13 16-0304	EA	52" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	568.35	66.34
		For Spring Activated Horizontal Mount Operation, Add	83.10	
		For Dynamic Damper, Add	199.44	
		For 3 Hour Rated, Add	110.80	
23 33 13 16-0305	EA	52" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	613.68	70.71
		For Spring Activated Horizontal Mount Operation, Add	90.32	
		For Dynamic Damper, Add	216.76	
		For 3 Hour Rated, Add	120.42	
23 33 13 16-0306	EA	52" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	669.69	75.10
		For Spring Activated Horizontal Mount Operation, Add	99.93	
		For Dynamic Damper, Add	239.84	
		For 3 Hour Rated, Add	133.24	
23 33 13 16-0307	EA	52" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	711.94	77.35
		For Spring Activated Horizontal Mount Operation, Add	107.95	
		For Dynamic Damper, Add	259.07	
		For 3 Hour Rated, Add	143.93	
23 33 13 16-0308	EA	52" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	764.91	79.47
		For Spring Activated Horizontal Mount Operation, Add	118.37	
		For Dynamic Damper, Add	284.09	
		For 3 Hour Rated, Add	157.83	
23 33 13 16-0309	EA	52" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	820.89	83.98
		For Spring Activated Horizontal Mount Operation, Add	127.98	
		For Dynamic Damper, Add	307.15	
		For 3 Hour Rated, Add	170.64	
23 33 13 16-0310	EA	52" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	866.24	88.36
		For Spring Activated Horizontal Mount Operation, Add	135.20	
		For Dynamic Damper, Add	324.49	
		For 3 Hour Rated, Add	180.27	
23 33 13 16-0311	EA	52" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	928.88	95.00
		For Spring Activated Horizontal Mount Operation, Add	144.82	
		For Dynamic Damper, Add	347.56	
		For 3 Hour Rated, Add	193.09	
23 33 13 16-0312	EA	52" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	977.78	99.37
		For Spring Activated Horizontal Mount Operation, Add	152.84	
		For Dynamic Damper, Add	366.81	
		For 3 Hour Rated, Add	203.78	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0313	EA		56" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	389.01	39.80
			For Spring Activated Horizontal Mount Operation, Add	60.66	
			For Dynamic Damper, Add	145.59	
			For 3 Hour Rated, Add	80.88	
23 33 13 16-0314	EA		56" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	420.07	44.18
			For Spring Activated Horizontal Mount Operation, Add	64.67	
			For Dynamic Damper, Add	155.20	
			For 3 Hour Rated, Add	86.22	
23 33 13 16-0315	EA		56" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	444.05	48.56
			For Spring Activated Horizontal Mount Operation, Add	67.07	
			For Dynamic Damper, Add	160.98	
			For 3 Hour Rated, Add	89.43	
23 33 13 16-0316	EA		56" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	460.86	53.07
			For Spring Activated Horizontal Mount Operation, Add	67.87	
			For Dynamic Damper, Add	162.89	
			For 3 Hour Rated, Add	90.50	
23 33 13 16-0317	EA		56" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	493.74	57.44
			For Spring Activated Horizontal Mount Operation, Add	72.28	
			For Dynamic Damper, Add	173.48	
			For 3 Hour Rated, Add	96.38	
23 33 13 16-0318	EA		56" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	526.58	61.83
			For Spring Activated Horizontal Mount Operation, Add	76.69	
			For Dynamic Damper, Add	184.05	
			For 3 Hour Rated, Add	102.25	
23 33 13 16-0319	EA		56" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	559.45	66.34
			For Spring Activated Horizontal Mount Operation, Add	81.10	
			For Dynamic Damper, Add	194.64	
			For 3 Hour Rated, Add	108.13	
23 33 13 16-0320	EA		56" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	592.30	70.71
			For Spring Activated Horizontal Mount Operation, Add	85.50	
			For Dynamic Damper, Add	205.21	
			For 3 Hour Rated, Add	114.01	
23 33 13 16-0321	EA		56" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	648.31	75.10
			For Spring Activated Horizontal Mount Operation, Add	95.12	
			For Dynamic Damper, Add	228.29	
			For 3 Hour Rated, Add	126.83	
23 33 13 16-0322	EA		56" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	697.70	77.35
			For Spring Activated Horizontal Mount Operation, Add	104.74	
			For Dynamic Damper, Add	251.38	
			For 3 Hour Rated, Add	139.66	
23 33 13 16-0323	EA		56" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	743.52	79.47
			For Spring Activated Horizontal Mount Operation, Add	113.56	
			For Dynamic Damper, Add	272.54	
			For 3 Hour Rated, Add	151.41	
23 33 13 16-0324	EA		56" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	806.68	83.98
			For Spring Activated Horizontal Mount Operation, Add	124.78	
			For Dynamic Damper, Add	299.48	
			For 3 Hour Rated, Add	166.38	
23 33 13 16-0325	EA		56" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	862.66	88.36
			For Spring Activated Horizontal Mount Operation, Add	134.40	
			For Dynamic Damper, Add	322.55	
			For 3 Hour Rated, Add	179.20	
23 33 13 16-0326	EA		56" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	922.24	92.74
			For Spring Activated Horizontal Mount Operation, Add	144.82	
			For Dynamic Damper, Add	347.56	
			For 3 Hour Rated, Add	193.09	
23 33 13 16-0327	EA		56" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	971.15	97.25
			For Spring Activated Horizontal Mount Operation, Add	152.84	
			For Dynamic Damper, Add	366.81	
			For 3 Hour Rated, Add	203.78	
23 33 13 16-0328	EA		56" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,030.73	101.63
			For Spring Activated Horizontal Mount Operation, Add	163.26	
			For Dynamic Damper, Add	391.81	
			For 3 Hour Rated, Add	217.67	
23 33 13 16-0329	EA		56" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,090.31	106.00
			For Spring Activated Horizontal Mount Operation, Add	173.68	
			For Dynamic Damper, Add	416.82	
			For 3 Hour Rated, Add	231.57	
23 33 13 16-0330	EA		60" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	412.95	44.18
			For Spring Activated Horizontal Mount Operation, Add	63.06	
			For Dynamic Damper, Add	151.35	
			For 3 Hour Rated, Add	84.08	
23 33 13 16-0331	EA		60" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	444.05	48.56
			For Spring Activated Horizontal Mount Operation, Add	67.07	
			For Dynamic Damper, Add	160.98	
			For 3 Hour Rated, Add	89.43	
23 33 13 16-0332	EA		60" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	464.42	53.07
			For Spring Activated Horizontal Mount Operation, Add	68.67	
			For Dynamic Damper, Add	164.81	
			For 3 Hour Rated, Add	91.56	
23 33 13 16-0333	EA		60" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	481.26	57.44
			For Spring Activated Horizontal Mount Operation, Add	69.48	
			For Dynamic Damper, Add	166.74	
			For 3 Hour Rated, Add	92.63	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0334	EA	60" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	515.91	61.83
		For Spring Activated Horizontal Mount Operation, Add	74.29	
		For Dynamic Damper, Add	178.29	
		For 3 Hour Rated, Add	99.05	
23 33 13 16-0335	EA	60" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	550.53	66.34
		For Spring Activated Horizontal Mount Operation, Add	79.09	
		For Dynamic Damper, Add	189.82	
		For 3 Hour Rated, Add	105.46	
23 33 13 16-0336	EA	60" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	586.95	70.71
		For Spring Activated Horizontal Mount Operation, Add	84.30	
		For Dynamic Damper, Add	202.32	
		For 3 Hour Rated, Add	112.40	
23 33 13 16-0337	EA	60" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	623.38	75.10
		For Spring Activated Horizontal Mount Operation, Add	89.51	
		For Dynamic Damper, Add	214.83	
		For 3 Hour Rated, Add	119.35	
23 33 13 16-0338	EA	60" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	676.32	77.35
		For Spring Activated Horizontal Mount Operation, Add	99.93	
		For Dynamic Damper, Add	239.84	
		For 3 Hour Rated, Add	133.24	
23 33 13 16-0339	EA	60" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	725.71	79.47
		For Spring Activated Horizontal Mount Operation, Add	109.55	
		For Dynamic Damper, Add	262.92	
		For 3 Hour Rated, Add	146.07	
23 33 13 16-0340	EA	60" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	785.31	83.98
		For Spring Activated Horizontal Mount Operation, Add	119.97	
		For Dynamic Damper, Add	287.94	
		For 3 Hour Rated, Add	159.97	
23 33 13 16-0341	EA	60" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	844.87	88.36
		For Spring Activated Horizontal Mount Operation, Add	130.39	
		For Dynamic Damper, Add	312.95	
		For 3 Hour Rated, Add	173.86	
23 33 13 16-0342	EA	60" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	893.76	92.74
		For Spring Activated Horizontal Mount Operation, Add	138.41	
		For Dynamic Damper, Add	332.18	
		For 3 Hour Rated, Add	184.55	
23 33 13 16-0343	EA	60" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	964.02	97.25
		For Spring Activated Horizontal Mount Operation, Add	151.23	
		For Dynamic Damper, Add	362.96	
		For 3 Hour Rated, Add	201.64	
23 33 13 16-0344	EA	60" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,027.15	101.63
		For Spring Activated Horizontal Mount Operation, Add	162.45	
		For Dynamic Damper, Add	389.88	
		For 3 Hour Rated, Add	216.60	
23 33 13 16-0345	EA	60" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,090.31	106.00
		For Spring Activated Horizontal Mount Operation, Add	173.68	
		For Dynamic Damper, Add	416.82	
		For 3 Hour Rated, Add	231.57	
23 33 13 16-0346	EA	60" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,146.30	110.52
		For Spring Activated Horizontal Mount Operation, Add	183.29	
		For Dynamic Damper, Add	439.89	
		For 3 Hour Rated, Add	244.38	
23 33 13 16-0347	EA	60" x 60" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,202.35	114.90
		For Spring Activated Horizontal Mount Operation, Add	192.92	
		For Dynamic Damper, Add	463.00	
		For 3 Hour Rated, Add	257.22	
23 33 13 16-0348		Round 2 Hour Fire Damper (23 33 13 16)		
23 33 13 16-0349	EA	4" Round 2 Hour Fire Damper	139.28	26.54
23 33 13 16-0350	EA	5" Round 2 Hour Fire Damper	145.45	26.54
23 33 13 16-0351	EA	6" Round 2 Hour Fire Damper	171.21	30.12
23 33 13 16-0352	EA	7" Round 2 Hour Fire Damper	177.92	30.12
23 33 13 16-0353	EA	8" Round 2 Hour Fire Damper	214.17	33.17
23 33 13 16-0354	EA	9" Round 2 Hour Fire Damper	232.64	33.17
23 33 13 16-0355	EA	10" Round 2 Hour Fire Damper	258.53	36.88
23 33 13 16-0356	EA	12" Round 2 Hour Fire Damper	290.39	41.53
23 33 13 16-0357	EA	14" Round 2 Hour Fire Damper	329.98	47.36
23 33 13 16-0358		Round 4 Hour Fire Damper (23 33 13 16)		
23 33 13 16-0359	EA	4" Round 4 Hour Fire Damper	156.87	30.12
23 33 13 16-0360	EA	5" Round 4 Hour Fire Damper	173.68	30.12
23 33 13 16-0361	EA	6" Round 4 Hour Fire Damper	196.77	33.17
23 33 13 16-0362	EA	7" Round 4 Hour Fire Damper	218.46	33.17
23 33 13 16-0363	EA	8" Round 4 Hour Fire Damper	247.59	36.88
23 33 13 16-0364	EA	9" Round 4 Hour Fire Damper	260.82	36.88
23 33 13 16-0365	EA	10" Round 4 Hour Fire Damper	290.80	41.53
23 33 13 16-0366	EA	12" Round 4 Hour Fire Damper	321.57	47.36
23 33 13 16-0367	EA	14" Round 4 Hour Fire Damper	375.18	55.32

23 33 13 19 Smoke-Control Dampers (23 33 13)



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
23 33 13 19-0001		Combination Smoke/Fire Damper (23 33 13 19) Note: 1-1/2 hour rating, leakage class I with Firestat UL 555S air foil blades.		
23 33 13 19-0002	EA	6" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	612.24 294.62 163.79	22.09
23 33 13 19-0003	EA	8" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	628.53 302.01 167.78	23.09
23 33 13 19-0004	EA	8" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	642.45 309.31 171.84	23.29
23 33 13 19-0005	EA	10" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	606.82 290.07 161.15	23.29
23 33 13 19-0006	EA	10" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	621.38 296.85 164.92	23.88
23 33 13 19-0007	EA	10" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	654.58 310.48 172.49	26.47
23 33 13 19-0008	EA	12" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	621.38 296.85 164.92	23.88
23 33 13 19-0009	EA	12" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	650.59 310.48 172.49	25.27
23 33 13 19-0010	EA	12" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	667.16 317.28 176.27	26.47
23 33 13 19-0011	EA	12" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	689.76 324.11 180.06	29.85
23 33 13 19-0012	EA	14" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	644.30 307.09 170.60	25.27
23 33 13 19-0013	EA	14" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	667.16 317.28 176.27	26.47
23 33 13 19-0014	EA	14" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	683.80 324.11 180.06	27.87
23 33 13 19-0015	EA	14" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	702.42 330.95 183.86	29.85
23 33 13 19-0016	EA	14" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	743.90 347.98 193.32	33.24
23 33 13 19-0017	EA	16" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	728.04 350.15 194.53	26.47
23 33 13 19-0018	EA	16" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	741.82 354.38 196.88	28.46
23 33 13 19-0019	EA	16" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	757.62 358.60 199.22	31.25
23 33 13 19-0020	EA	16" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	771.31 362.78 201.54	33.24
23 33 13 19-0021	EA	16" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	800.80 373.33 207.41	36.42
23 33 13 19-0022	EA	16" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	830.25 383.86 213.26	39.80
23 33 13 19-0023	EA	18" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	739.84 354.38 196.88	27.87
23 33 13 19-0024	EA	18" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	757.47 360.68 200.38	29.85
23 33 13 19-0025	EA	18" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	779.19 367.03 203.91	33.24
23 33 13 19-0026	EA	18" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	808.63 377.56 209.75	36.42
23 33 13 19-0027	EA	18" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	834.14 385.96 214.42	39.80
23 33 13 19-0028	EA	18" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... For Dynamic Damper, Add For 3 Hour Rated, Add	863.58 396.48 220.27	42.99

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0029	EA	18" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	885.26	46.37
		For Dynamic Damper, Add	402.81	
		For 3 Hour Rated, Add	223.79	
23 33 13 19-0030	EA	20" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	753.63	29.85
		For Dynamic Damper, Add	358.60	
		For 3 Hour Rated, Add	199.22	
23 33 13 19-0031	EA	20" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	779.14	33.24
		For Dynamic Damper, Add	367.01	
		For 3 Hour Rated, Add	203.89	
23 33 13 19-0032	EA	20" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	804.69	36.42
		For Dynamic Damper, Add	375.43	
		For 3 Hour Rated, Add	208.57	
23 33 13 19-0033	EA	20" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	845.90	39.80
		For Dynamic Damper, Add	392.31	
		For 3 Hour Rated, Add	217.95	
23 33 13 19-0034	EA	20" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	867.52	42.99
		For Dynamic Damper, Add	398.61	
		For 3 Hour Rated, Add	221.45	
23 33 13 19-0035	EA	20" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	889.14	46.37
		For Dynamic Damper, Add	404.91	
		For 3 Hour Rated, Add	224.95	
23 33 13 19-0036	EA	20" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	914.70	49.76
		For Dynamic Damper, Add	413.34	
		For 3 Hour Rated, Add	229.63	
23 33 13 19-0037	EA	20" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	940.20	52.94
		For Dynamic Damper, Add	421.73	
		For 3 Hour Rated, Add	234.30	
23 33 13 19-0038	EA	24" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	771.95	33.24
		For Dynamic Damper, Add	363.12	
		For 3 Hour Rated, Add	201.74	
23 33 13 19-0039	EA	24" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	797.68	36.42
		For Dynamic Damper, Add	371.64	
		For 3 Hour Rated, Add	206.47	
23 33 13 19-0040	EA	24" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	818.17	39.80
		For Dynamic Damper, Add	377.34	
		For 3 Hour Rated, Add	209.63	
23 33 13 19-0041	EA	24" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	843.84	42.99
		For Dynamic Damper, Add	385.82	
		For 3 Hour Rated, Add	214.35	
23 33 13 19-0042	EA	24" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	861.69	46.37
		For Dynamic Damper, Add	390.09	
		For 3 Hour Rated, Add	216.71	
23 33 13 19-0043	EA	24" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	879.49	49.76
		For Dynamic Damper, Add	394.32	
		For 3 Hour Rated, Add	219.07	
23 33 13 19-0044	EA	24" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	905.19	52.94
		For Dynamic Damper, Add	402.83	
		For 3 Hour Rated, Add	223.79	
23 33 13 19-0045	EA	24" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	940.84	59.71
		For Dynamic Damper, Add	411.33	
		For 3 Hour Rated, Add	228.52	
23 33 13 19-0046	EA	24" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	981.76	66.28
		For Dynamic Damper, Add	422.69	
		For 3 Hour Rated, Add	234.83	
23 33 13 19-0047	EA	28" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	797.68	36.42
		For Dynamic Damper, Add	371.64	
		For 3 Hour Rated, Add	206.47	
23 33 13 19-0048	EA	28" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	818.17	39.80
		For Dynamic Damper, Add	377.34	
		For 3 Hour Rated, Add	209.63	
23 33 13 19-0049	EA	28" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	843.84	42.99
		For Dynamic Damper, Add	385.82	
		For 3 Hour Rated, Add	214.35	
23 33 13 19-0050	EA	28" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	864.31	46.37
		For Dynamic Damper, Add	391.50	
		For 3 Hour Rated, Add	217.50	
23 33 13 19-0051	EA	28" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	887.38	49.76
		For Dynamic Damper, Add	398.58	
		For 3 Hour Rated, Add	221.44	
23 33 13 19-0052	EA	28" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	910.43	52.94
		For Dynamic Damper, Add	405.66	
		For 3 Hour Rated, Add	225.37	
23 33 13 19-0053	EA	28" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	946.07	59.71
		For Dynamic Damper, Add	414.16	
		For 3 Hour Rated, Add	230.09	
23 33 13 19-0054	EA	28" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	981.76	66.28
		For Dynamic Damper, Add	422.69	
		For 3 Hour Rated, Add	234.83	
23 33 13 19-0055	EA	28" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,023.20	69.66
		For Dynamic Damper, Add	439.69	
		For 3 Hour Rated, Add	244.27	
23 33 13 19-0056	EA	28" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,069.37	76.23
		For Dynamic Damper, Add	453.87	
		For 3 Hour Rated, Add	252.15	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0057	EA		32" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	833.89	39.80
			For Dynamic Damper, Add	385.82	
			For 3 Hour Rated, Add	214.35	
23 33 13 19-0058	EA		32" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	849.07	42.99
			For Dynamic Damper, Add	388.65	
			For 3 Hour Rated, Add	215.92	
23 33 13 19-0059	EA		32" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	864.31	46.37
			For Dynamic Damper, Add	391.50	
			For 3 Hour Rated, Add	217.50	
23 33 13 19-0060	EA		32" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	884.73	49.76
			For Dynamic Damper, Add	397.15	
			For 3 Hour Rated, Add	220.64	
23 33 13 19-0061	EA		32" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	911.41	52.94
			For Dynamic Damper, Add	406.19	
			For 3 Hour Rated, Add	225.66	
23 33 13 19-0062	EA		32" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	946.07	59.71
			For Dynamic Damper, Add	414.16	
			For 3 Hour Rated, Add	230.09	
23 33 13 19-0063	EA		32" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	987.03	66.28
			For Dynamic Damper, Add	425.53	
			For 3 Hour Rated, Add	236.41	
23 33 13 19-0064	EA		32" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,027.96	72.83
			For Dynamic Damper, Add	436.88	
			For 3 Hour Rated, Add	242.71	
23 33 13 19-0065	EA		32" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,069.37	76.23
			For Dynamic Damper, Add	453.87	
			For 3 Hour Rated, Add	252.15	
23 33 13 19-0066	EA		32" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,122.08	81.60
			For Dynamic Damper, Add	473.74	
			For 3 Hour Rated, Add	263.19	
23 33 13 19-0067	EA		32" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,177.98	86.17
			For Dynamic Damper, Add	496.41	
			For 3 Hour Rated, Add	275.78	
23 33 13 19-0068	EA		36" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	876.03	42.99
			For Dynamic Damper, Add	403.21	
			For 3 Hour Rated, Add	224.00	
23 33 13 19-0069	EA		36" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	897.37	46.37
			For Dynamic Damper, Add	409.35	
			For 3 Hour Rated, Add	227.42	
23 33 13 19-0070	EA		36" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	918.74	49.76
			For Dynamic Damper, Add	415.52	
			For 3 Hour Rated, Add	230.84	
23 33 13 19-0071	EA		36" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	945.83	52.94
			For Dynamic Damper, Add	424.77	
			For 3 Hour Rated, Add	235.99	
23 33 13 19-0072	EA		36" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	974.32	59.71
			For Dynamic Damper, Add	429.41	
			For 3 Hour Rated, Add	238.56	
23 33 13 19-0073	EA		36" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	992.83	62.89
			For Dynamic Damper, Add	434.04	
			For 3 Hour Rated, Add	241.13	
23 33 13 19-0074	EA		36" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,051.25	72.83
			For Dynamic Damper, Add	449.46	
			For 3 Hour Rated, Add	249.70	
23 33 13 19-0075	EA		36" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,099.64	79.61
			For Dynamic Damper, Add	464.84	
			For 3 Hour Rated, Add	258.25	
23 33 13 19-0076	EA		36" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,141.84	82.19
			For Dynamic Damper, Add	483.34	
			For 3 Hour Rated, Add	268.52	
23 33 13 19-0077	EA		36" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,205.42	88.17
			For Dynamic Damper, Add	508.00	
			For 3 Hour Rated, Add	282.22	
23 33 13 19-0078	EA		36" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,259.26	92.74
			For Dynamic Damper, Add	529.55	
			For 3 Hour Rated, Add	294.20	
23 33 13 19-0079	EA		36" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,314.88	96.12
			For Dynamic Damper, Add	554.21	
			For 3 Hour Rated, Add	307.90	
23 33 13 19-0080	EA		40" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,407.00	49.76
			For Dynamic Damper, Add	684.55	
			For 3 Hour Rated, Add	380.31	
23 33 13 19-0081	EA		40" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,447.55	52.94
			For Dynamic Damper, Add	701.08	
			For 3 Hour Rated, Add	389.49	
23 33 13 19-0082	EA		40" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,465.19	56.32
			For Dynamic Damper, Add	705.23	
			For 3 Hour Rated, Add	391.79	
23 33 13 19-0083	EA		40" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,482.82	59.71
			For Dynamic Damper, Add	709.38	
			For 3 Hour Rated, Add	394.10	
23 33 13 19-0084	EA		40" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,529.53	62.89
			For Dynamic Damper, Add	723.85	
			For 3 Hour Rated, Add	402.14	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0085	EA	40" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,566.34	66.28
		For Dynamic Damper, Add	738.36	
		For 3 Hour Rated, Add	410.20	
23 33 13 19-0086	EA	40" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,626.85	76.23
		For Dynamic Damper, Add	754.91	
		For 3 Hour Rated, Add	419.39	
23 33 13 19-0087	EA	40" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,677.35	82.78
		For Dynamic Damper, Add	771.43	
		For 3 Hour Rated, Add	428.57	
23 33 13 19-0088	EA	40" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,739.29	88.17
		For Dynamic Damper, Add	796.29	
		For 3 Hour Rated, Add	442.38	
23 33 13 19-0089	EA	40" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,837.44	92.74
		For Dynamic Damper, Add	841.77	
		For 3 Hour Rated, Add	467.65	
23 33 13 19-0090	EA	40" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,899.30	98.12
		For Dynamic Damper, Add	866.57	
		For 3 Hour Rated, Add	481.43	
23 33 13 19-0091	EA	40" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,991.58	100.70
		For Dynamic Damper, Add	912.10	
		For 3 Hour Rated, Add	506.72	
23 33 13 19-0092	EA	40" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,084.12	106.07
		For Dynamic Damper, Add	953.48	
		For 3 Hour Rated, Add	529.71	
23 33 13 19-0093	EA	44" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,432.27	49.76
		For Dynamic Damper, Add	692.83	
		For 3 Hour Rated, Add	384.90	
23 33 13 19-0094	EA	44" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,472.87	52.94
		For Dynamic Damper, Add	709.38	
		For 3 Hour Rated, Add	394.10	
23 33 13 19-0095	EA	44" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,505.84	56.32
		For Dynamic Damper, Add	721.81	
		For 3 Hour Rated, Add	401.00	
23 33 13 19-0096	EA	44" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,523.47	59.71
		For Dynamic Damper, Add	725.95	
		For 3 Hour Rated, Add	403.31	
23 33 13 19-0097	EA	44" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,564.07	62.89
		For Dynamic Damper, Add	742.51	
		For 3 Hour Rated, Add	412.50	
23 33 13 19-0098	EA	44" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,604.63	66.28
		For Dynamic Damper, Add	759.03	
		For 3 Hour Rated, Add	421.69	
23 33 13 19-0099	EA	44" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,682.78	79.61
		For Dynamic Damper, Add	779.74	
		For 3 Hour Rated, Add	433.19	
23 33 13 19-0100	EA	44" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,740.91	86.17
		For Dynamic Damper, Add	800.39	
		For 3 Hour Rated, Add	444.66	
23 33 13 19-0101	EA	44" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,837.44	92.74
		For Dynamic Damper, Add	841.77	
		For 3 Hour Rated, Add	467.65	
23 33 13 19-0102	EA	44" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,926.28	99.50
		For Dynamic Damper, Add	879.00	
		For 3 Hour Rated, Add	488.33	
23 33 13 19-0103	EA	44" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,022.77	106.07
		For Dynamic Damper, Add	920.35	
		For 3 Hour Rated, Add	511.31	
23 33 13 19-0104	EA	44" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,101.67	109.25
		For Dynamic Damper, Add	957.58	
		For 3 Hour Rated, Add	531.99	
23 33 13 19-0105	EA	44" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,180.61	112.64
		For Dynamic Damper, Add	994.84	
		For 3 Hour Rated, Add	552.69	
23 33 13 19-0106	EA	44" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,259.55	116.02
		For Dynamic Damper, Add	1,032.09	
		For 3 Hour Rated, Add	573.38	
23 33 13 19-0107	EA	48" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,465.19	52.94
		For Dynamic Damper, Add	705.23	
		For 3 Hour Rated, Add	391.79	
23 33 13 19-0108	EA	48" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,505.84	56.32
		For Dynamic Damper, Add	721.81	
		For 3 Hour Rated, Add	401.00	
23 33 13 19-0109	EA	48" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,523.47	59.71
		For Dynamic Damper, Add	725.95	
		For 3 Hour Rated, Add	403.31	
23 33 13 19-0110	EA	48" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,566.34	66.28
		For Dynamic Damper, Add	738.36	
		For 3 Hour Rated, Add	410.20	
23 33 13 19-0111	EA	48" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,616.90	72.83
		For Dynamic Damper, Add	754.91	
		For 3 Hour Rated, Add	419.39	
23 33 13 19-0112	EA	48" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,667.40	79.61
		For Dynamic Damper, Add	771.43	
		For 3 Hour Rated, Add	428.57	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0113	EA	48" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,733.32	86.17	
		For Dynamic Damper, Add	796.29		
		For 3 Hour Rated, Add	442.38		
23 33 13 19-0114	EA	48" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,799.15	92.74	
		For Dynamic Damper, Add	821.09		
		For 3 Hour Rated, Add	456.16		
23 33 13 19-0115	EA	48" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,887.99	99.50	
		For Dynamic Damper, Add	858.32		
		For 3 Hour Rated, Add	476.84		
23 33 13 19-0116	EA	48" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,992.12	106.07	
		For Dynamic Damper, Add	903.80		
		For 3 Hour Rated, Add	502.11		
23 33 13 19-0117	EA	48" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,071.11	109.25	
		For Dynamic Damper, Add	941.08		
		For 3 Hour Rated, Add	522.82		
23 33 13 19-0118	EA	48" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,172.92	112.64	
		For Dynamic Damper, Add	990.68		
		For 3 Hour Rated, Add	550.38		
23 33 13 19-0119	EA	48" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,261.81	119.21	
		For Dynamic Damper, Add	1,027.94		
		For 3 Hour Rated, Add	571.08		
23 33 13 19-0120	EA	48" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,363.72	122.59	
		For Dynamic Damper, Add	1,077.60		
		For 3 Hour Rated, Add	598.67		
23 33 13 19-0121	EA	48" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,454.83	132.54	
		For Dynamic Damper, Add	1,110.67		
		For 3 Hour Rated, Add	617.04		
23 33 13 19-0122	EA	52" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,498.15	56.32	
		For Dynamic Damper, Add	717.65		
		For 3 Hour Rated, Add	398.70		
23 33 13 19-0123	EA	52" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,538.75	59.71	
		For Dynamic Damper, Add	734.21		
		For 3 Hour Rated, Add	407.89		
23 33 13 19-0124	EA	52" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,589.30	66.28	
		For Dynamic Damper, Add	750.76		
		For 3 Hour Rated, Add	417.09		
23 33 13 19-0125	EA	52" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,616.90	72.83	
		For Dynamic Damper, Add	754.91		
		For 3 Hour Rated, Add	419.39		
23 33 13 19-0126	EA	52" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,671.29	79.61	
		For Dynamic Damper, Add	773.53		
		For 3 Hour Rated, Add	429.74		
23 33 13 19-0127	EA	52" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,725.63	86.17	
		For Dynamic Damper, Add	792.14		
		For 3 Hour Rated, Add	440.08		
23 33 13 19-0128	EA	52" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,791.51	92.74	
		For Dynamic Damper, Add	816.97		
		For 3 Hour Rated, Add	453.87		
23 33 13 19-0129	EA	52" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,857.34	99.50	
		For Dynamic Damper, Add	841.77		
		For 3 Hour Rated, Add	467.65		
23 33 13 19-0130	EA	52" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,946.19	106.07	
		For Dynamic Damper, Add	879.00		
		For 3 Hour Rated, Add	488.33		
23 33 13 19-0131	EA	52" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,058.05	112.64	
		For Dynamic Damper, Add	928.65		
		For 3 Hour Rated, Add	515.92		
23 33 13 19-0132	EA	52" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,144.53	116.02	
		For Dynamic Damper, Add	969.98		
		For 3 Hour Rated, Add	538.88		
23 33 13 19-0133	EA	52" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,254.17	119.21	
		For Dynamic Damper, Add	1,023.81		
		For 3 Hour Rated, Add	568.79		
23 33 13 19-0134	EA	52" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,365.93	125.97	
		For Dynamic Damper, Add	1,073.42		
		For 3 Hour Rated, Add	596.34		
23 33 13 19-0135	EA	52" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,454.83	132.54	
		For Dynamic Damper, Add	1,110.67		
		For 3 Hour Rated, Add	617.04		
23 33 13 19-0136	EA	52" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,576.58	142.49	
		For Dynamic Damper, Add	1,160.30		
		For 3 Hour Rated, Add	644.61		
23 33 13 19-0137	EA	52" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	2,673.11	149.06	
		For Dynamic Damper, Add	1,201.68		
		For 3 Hour Rated, Add	667.60		
23 33 13 19-0138	EA	56" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,523.47	59.71	
		For Dynamic Damper, Add	725.95		
		For 3 Hour Rated, Add	403.31		
23 33 13 19-0139	EA	56" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,581.62	66.28	
		For Dynamic Damper, Add	746.61		
		For 3 Hour Rated, Add	414.78		
23 33 13 19-0140	EA	56" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,624.54	72.83	
		For Dynamic Damper, Add	759.03		
		For 3 Hour Rated, Add	421.69		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
23 33 13 19-0141	EA	56" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,652.08			79.61
		For Dynamic Damper, Add	763.16			
		For 3 Hour Rated, Add	423.98			
23 33 13 19-0142	EA	56" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,714.15			86.17
		For Dynamic Damper, Add	785.94			
		For 3 Hour Rated, Add	436.63			
23 33 13 19-0143	EA	56" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,776.18			92.74
		For Dynamic Damper, Add	808.69			
		For 3 Hour Rated, Add	449.27			
23 33 13 19-0144	EA	56" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,838.17			99.50
		For Dynamic Damper, Add	831.42			
		For 3 Hour Rated, Add	461.90			
23 33 13 19-0145	EA	56" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,900.22			106.07
		For Dynamic Damper, Add	854.17			
		For 3 Hour Rated, Add	474.54			
23 33 13 19-0146	EA	56" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,012.02			112.64
		For Dynamic Damper, Add	903.80			
		For 3 Hour Rated, Add	502.11			
23 33 13 19-0147	EA	56" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,113.97			116.02
		For Dynamic Damper, Add	953.48			
		For 3 Hour Rated, Add	529.71			
23 33 13 19-0148	EA	56" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,208.15			119.21
		For Dynamic Damper, Add	998.96			
		For 3 Hour Rated, Add	554.98			
23 33 13 19-0149	EA	56" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,335.33			125.97
		For Dynamic Damper, Add	1,056.89			
		For 3 Hour Rated, Add	587.16			
23 33 13 19-0150	EA	56" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,447.15			132.54
		For Dynamic Damper, Add	1,106.52			
		For 3 Hour Rated, Add	614.74			
23 33 13 19-0151	EA	56" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,566.64			139.11
		For Dynamic Damper, Add	1,160.30			
		For 3 Hour Rated, Add	644.61			
23 33 13 19-0152	EA	56" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,663.16			145.87
		For Dynamic Damper, Add	1,201.68			
		For 3 Hour Rated, Add	667.60			
23 33 13 19-0153	EA	56" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,782.65			152.44
		For Dynamic Damper, Add	1,255.46			
		For 3 Hour Rated, Add	697.48			
23 33 13 19-0154	EA	56" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,902.16			159.01
		For Dynamic Damper, Add	1,309.25			
		For 3 Hour Rated, Add	727.36			
23 33 13 19-0155	EA	60" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,566.34			66.28
		For Dynamic Damper, Add	738.36			
		For 3 Hour Rated, Add	410.20			
23 33 13 19-0156	EA	60" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,624.54			72.83
		For Dynamic Damper, Add	759.03			
		For 3 Hour Rated, Add	421.69			
23 33 13 19-0157	EA	60" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,659.76			79.61
		For Dynamic Damper, Add	767.31			
		For 3 Hour Rated, Add	426.28			
23 33 13 19-0158	EA	60" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,687.29			86.17
		For Dynamic Damper, Add	771.43			
		For 3 Hour Rated, Add	428.57			
23 33 13 19-0159	EA	60" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,753.22			92.74
		For Dynamic Damper, Add	796.29			
		For 3 Hour Rated, Add	442.38			
23 33 13 19-0160	EA	60" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,819.05			99.50
		For Dynamic Damper, Add	821.09			
		For 3 Hour Rated, Add	456.16			
23 33 13 19-0161	EA	60" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,888.73			106.07
		For Dynamic Damper, Add	847.97			
		For 3 Hour Rated, Add	471.09			
23 33 13 19-0162	EA	60" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,958.45			112.64
		For Dynamic Damper, Add	874.87			
		For 3 Hour Rated, Add	486.04			
23 33 13 19-0163	EA	60" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,068.00			116.02
		For Dynamic Damper, Add	928.65			
		For 3 Hour Rated, Add	515.92			
23 33 13 19-0164	EA	60" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,169.86			119.21
		For Dynamic Damper, Add	978.29			
		For 3 Hour Rated, Add	543.49			
23 33 13 19-0165	EA	60" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,289.40			125.97
		For Dynamic Damper, Add	1,032.09			
		For 3 Hour Rated, Add	573.38			
23 33 13 19-0166	EA	60" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,408.90			132.54
		For Dynamic Damper, Add	1,085.87			
		For 3 Hour Rated, Add	603.26			
23 33 13 19-0167	EA	60" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,505.38			139.11
		For Dynamic Damper, Add	1,127.22			
		For 3 Hour Rated, Add	626.24			
23 33 13 19-0168	EA	60" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,647.83			145.87
		For Dynamic Damper, Add	1,193.41			
		For 3 Hour Rated, Add	663.00			



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0169	EA		60" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,775.01 1,251.34 695.19	152.44
23 33 13 19-0170	EA		60" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,902.16 1,309.25 727.36	159.01
23 33 13 19-0171	EA		60" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	3,013.92 1,358.85 754.92	165.78
23 33 13 19-0172	EA		60" x 60" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	3,125.87 1,408.56 782.53	172.34
23 33 13 19-0173			Combination Smoke/Fire Damper (Ruskin FSD60) (23 33 13 19) Note: 1-1/2 hour rating, 4,000 FPM, 8" W.G., leakage class I with Firestat UL 555S air foil blades and actuator.		
23 33 13 19-0174	EA		6" x 6", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	951.59 354.10	22.15
23 33 13 19-0175	EA		8" x 6", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	976.10 362.74	23.09
23 33 13 19-0176	EA		8" x 8", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	998.40 371.50	23.35
23 33 13 19-0177	EA		10" x 6", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,045.85 390.48	23.35
23 33 13 19-0178	EA		10" x 8", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,070.70 399.62	23.88
23 33 13 19-0179	EA		10" x 10", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,124.52 417.96	26.54
23 33 13 19-0180	EA		11" x 11", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,141.55 422.76	28.13
23 33 13 19-0181	EA		12" x 6", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,051.03 391.75	23.88
23 33 13 19-0182	EA		12" x 8", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,099.97 409.74	25.34
23 33 13 19-0183	EA		12" x 10", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,126.37 418.70	26.54
23 33 13 19-0184	EA		12" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,158.46 427.56	29.85
23 33 13 19-0185	EA		14" x 6", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,050.71 390.04	25.34
23 33 13 19-0186	EA		14" x 8", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,087.06 402.98	26.54
23 33 13 19-0187	EA		14" x 10", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,112.74 411.66	27.87
23 33 13 19-0188	EA		14" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,140.41 420.34	29.85
23 33 13 19-0189	EA		14" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,204.42 441.97	33.30
23 33 13 19-0190	EA		16" x 8", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,124.82 415.70	28.52

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0191	EA	16" x 10", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,155.12	31.31	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	424.63		
23 33 13 19-0192	EA	16" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,183.40	33.30	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	433.56		
23 33 13 19-0193	EA	16" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,224.89	36.49	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	446.18		
23 33 13 19-0194	EA	16" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,262.90	39.80	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	457.40		
23 33 13 19-0195	EA	16" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,443.45	49.76	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	517.68		
23 33 13 19-0196	EA	18" x 8", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,128.80	29.85	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	415.70		
23 33 13 19-0197	EA	18" x 10", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,168.82	33.30	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	427.73		
23 33 13 19-0198	EA	18" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,208.85	36.49	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	439.76		
23 33 13 19-0199	EA	18" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,246.87	39.80	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	450.99		
23 33 13 19-0200	EA	18" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,284.87	42.99	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	462.21		
23 33 13 19-0201	EA	18" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,322.90	46.44	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	473.44		
23 33 13 19-0202	EA	20" x 8", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,208.06	33.30	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	443.42		
23 33 13 19-0203	EA	20" x 10", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,249.12	36.49	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	455.87		
23 33 13 19-0204	EA	20" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,290.19	39.80	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	468.32		
23 33 13 19-0205	EA	20" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,331.25	42.99	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	480.76		
23 33 13 19-0206	EA	20" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,375.15	46.44	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	494.34		
23 33 13 19-0207	EA	20" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,410.83	49.76	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	504.63		
23 33 13 19-0208	EA	20" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,446.41	52.94	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	514.88		
23 33 13 19-0209	EA	20" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,529.12	59.71	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	540.00		
23 33 13 19-0210	EA	22" x 10", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,261.93	38.08	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	458.98		
23 33 13 19-0211	EA	22" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,304.43	41.40	
		Note: Includes actuator and PFMA mounting angles for 2 sides.			
		<i>For 3 Hour Rated, Add</i>	471.99		



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0212	EA	22" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,346.92	44.71	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	485.01		
23 33 13 19-0213	EA	22" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,390.81	48.03	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	498.58		
23 33 13 19-0214	EA	22" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,427.18	51.35	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	509.15		
23 33 13 19-0215	EA	22" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,468.41	56.39	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	519.70		
23 33 13 19-0216	EA	22" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,494.98	59.30	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	526.77		
23 33 13 19-0217	EA	22" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,905.93	74.57	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	672.79		
23 33 13 19-0218	EA	22" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	2,215.81	79.20	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	791.17		
23 33 13 19-0219	EA	24" x 10", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,308.73	39.80	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	475.73		
23 33 13 19-0220	EA	24" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,353.63	42.99	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	489.71		
23 33 13 19-0221	EA	24" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,398.56	46.44	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	503.70		
23 33 13 19-0222	EA	24" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,443.45	49.76	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	517.68		
23 33 13 19-0223	EA	24" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,481.31	52.94	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	528.84		
23 33 13 19-0224	EA	24" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,529.12	59.71	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	540.00		
23 33 13 19-0225	EA	24" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,557.70	63.02	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	547.46		
23 33 13 19-0226	EA	24" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,586.26	66.34	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	554.90		
23 33 13 19-0227	EA	26" x 10", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,327.15	41.40	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	481.08		
23 33 13 19-0228	EA	26" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,367.69	44.71	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	493.32		
23 33 13 19-0229	EA	26" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,417.32	48.03	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	509.19		
23 33 13 19-0230	EA	26" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,467.09	51.35	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	525.12		
23 33 13 19-0231	EA	26" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,509.85	56.39	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	536.28		
23 33 13 19-0232	EA	26" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)	1,557.70	63.02	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	547.46		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0233	EA		26" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,588.39	65.54
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	556.76	
23 33 13 19-0234	EA		26" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,619.22	67.93
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	566.07	
23 33 13 19-0235	EA		26" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,650.83	70.98
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	575.05	
23 33 13 19-0236	EA		28" x 10", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,443.00	42.99
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	525.46	
23 33 13 19-0237	EA		28" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,490.98	46.44
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	540.67	
23 33 13 19-0238	EA		28" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,543.93	49.76
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	557.87	
23 33 13 19-0239	EA		28" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,596.96	52.94
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	575.10	
23 33 13 19-0240	EA		28" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,641.95	59.71
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	585.14	
23 33 13 19-0241	EA		28" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,694.40	66.34
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	598.16	
23 33 13 19-0242	EA		28" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,726.94	67.93
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	609.16	
23 33 13 19-0243	EA		28" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,759.36	69.66
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	620.16	
23 33 13 19-0244	EA		28" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,796.41	72.98
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	631.00	
23 33 13 19-0245	EA		28" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,831.38	76.29
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	641.00	
23 33 13 19-0246	EA		28" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,717.42	88.23
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	981.10	
23 33 13 19-0247	EA		30" x 10", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,452.66	44.71
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	527.30	
23 33 13 19-0248	EA		30" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,505.39	48.03
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	544.42	
23 33 13 19-0249	EA		30" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,558.14	51.35
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	561.54	
23 33 13 19-0250	EA		30" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,615.81	56.39
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	578.66	
23 33 13 19-0251	EA		30" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,655.51	63.02
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	586.58	
23 33 13 19-0252	EA		30" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,710.12	69.53
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	600.46	
23 33 13 19-0253	EA		30" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	1,744.84	71.25
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	612.33	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0254	EA		30" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,779.44 624.21	72.98
23 33 13 19-0255	EA		30" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,818.19 636.10	75.89
23 33 13 19-0256	EA		30" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,856.80 647.99	78.94
23 33 13 19-0257	EA		30" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,904.86 663.50	81.99
23 33 13 19-0258	EA		30" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,083.70 732.76	83.85
23 33 13 19-0259	EA		30" x 44", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,878.44 1,027.99	102.82
23 33 13 19-0260	EA		32" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,649.12 599.94	49.76
23 33 13 19-0261	EA		32" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,693.18 613.59	52.94
23 33 13 19-0262	EA		32" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,743.20 625.64	59.71
23 33 13 19-0263	EA		32" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,806.04 642.81	66.34
23 33 13 19-0264	EA		32" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,868.81 659.96	72.83
23 33 13 19-0265	EA		32" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,905.93 672.79	74.57
23 33 13 19-0266	EA		32" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,942.91 685.62	76.29
23 33 13 19-0267	EA		32" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,988.39 700.63	78.94
23 33 13 19-0268	EA		32" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,033.87 715.64	81.60
23 33 13 19-0269	EA		32" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,083.70 732.76	83.85
23 33 13 19-0270	EA		32" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,133.39 749.87	86.23
23 33 13 19-0271	EA		32" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,475.68 882.81	89.42
23 33 13 19-0272	EA		34" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,922.42 707.25	51.35
23 33 13 19-0273	EA		34" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	1,966.70 719.02	56.39
23 33 13 19-0274	EA		34" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,008.78 729.85	61.30

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0275	EA		34" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,091.21	69.53
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	752.90	
23 33 13 19-0276	EA		34" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,168.64	76.29
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	775.91	
23 33 13 19-0277	EA		34" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,211.30	77.74
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	791.17	
23 33 13 19-0278	EA		34" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,253.98	79.20
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	806.44	
23 33 13 19-0279	EA		34" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,310.25	81.99
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	825.60	
23 33 13 19-0280	EA		34" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,366.63	84.91
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	844.76	
23 33 13 19-0281	EA		34" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,421.22	87.17
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	863.78	
23 33 13 19-0282	EA		34" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,475.68	89.42
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	882.81	
23 33 13 19-0283	EA		34" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,531.45	91.81
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	902.25	
23 33 13 19-0284	EA		34" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,361.43	94.46
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	831.11	
23 33 13 19-0285	EA		36" x 12", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,210.12	52.94
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	820.36	
23 33 13 19-0286	EA		36" x 14", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,252.42	59.71
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	829.32	
23 33 13 19-0287	EA		36" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,284.67	62.89
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	838.24	
23 33 13 19-0288	EA		36" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,389.00	72.83
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	868.03	
23 33 13 19-0289	EA		36" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,483.18	79.61
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	897.74	
23 33 13 19-0290	EA		36" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,531.80	80.93
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	915.60	
23 33 13 19-0291	EA		36" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,580.43	82.26
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	933.46	
23 33 13 19-0292	EA		36" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,649.00	85.18
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	957.28	
23 33 13 19-0293	EA		36" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,717.42	88.23
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	981.10	
23 33 13 19-0294	EA		36" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,776.47	90.48
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,001.90	
23 33 13 19-0295	EA		36" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,835.40	92.74
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,022.72	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0296	EA		36" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,899.97 1,046.53	94.46
23 33 13 19-0297	EA		36" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,964.42 1,070.34	96.18
23 33 13 19-0298	EA		38" x 16", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,296.47 840.95	64.62
23 33 13 19-0299	EA		38" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,387.22 865.30	74.57
23 33 13 19-0300	EA		38" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,467.86 889.60	81.19
23 33 13 19-0301	EA		38" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,513.90 905.63	83.19
23 33 13 19-0302	EA		38" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,559.96 921.66	85.18
23 33 13 19-0303	EA		38" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,630.15 946.56	87.83
23 33 13 19-0304	EA		38" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,700.35 971.46	90.48
23 33 13 19-0305	EA		38" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,751.51 988.94	93.01
23 33 13 19-0306	EA		38" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,802.68 1,006.44	95.39
23 33 13 19-0307	EA		38" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,869.48 1,031.36	96.99
23 33 13 19-0308	EA		38" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,936.25 1,056.26	98.45
23 33 13 19-0309	EA		38" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,004.56 1,081.78	99.91
23 33 13 19-0310	EA		40" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,385.30 862.57	76.29
23 33 13 19-0311	EA		40" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,452.41 881.46	82.78
23 33 13 19-0312	EA		40" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,495.86 895.66	85.44
23 33 13 19-0313	EA		40" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,539.33 909.86	88.23
23 33 13 19-0314	EA		40" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,611.31 935.84	90.48
23 33 13 19-0315	EA		40" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,683.16 961.82	92.74
23 33 13 19-0316	EA		40" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,726.56 975.99	95.39

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0317	EA	40" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,769.95	98.18
		<i>For 3 Hour Rated, Add</i>	990.16	
23 33 13 19-0318	EA	40" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,838.94	99.37
		<i>For 3 Hour Rated, Add</i>	1,016.17	
23 33 13 19-0319	EA	40" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,907.96	100.70
		<i>For 3 Hour Rated, Add</i>	1,042.18	
23 33 13 19-0320	EA	40" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,975.02	103.36
		<i>For 3 Hour Rated, Add</i>	1,065.83	
23 33 13 19-0321	EA	40" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,042.10	106.14
		<i>For 3 Hour Rated, Add</i>	1,089.47	
23 33 13 19-0322	EA	40" x 66", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	4,271.05	149.65
		<i>For 3 Hour Rated, Add</i>	1,528.41	
23 33 13 19-0323	EA	42" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,425.80	77.87
		<i>For 3 Hour Rated, Add</i>	876.76	
23 33 13 19-0324	EA	42" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,498.81	84.51
		<i>For 3 Hour Rated, Add</i>	898.00	
23 33 13 19-0325	EA	42" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,555.00	87.43
		<i>For 3 Hour Rated, Add</i>	916.92	
23 33 13 19-0326	EA	42" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,611.31	90.48
		<i>For 3 Hour Rated, Add</i>	935.84	
23 33 13 19-0327	EA	42" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,678.73	93.27
		<i>For 3 Hour Rated, Add</i>	959.46	
23 33 13 19-0328	EA	42" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,746.28	96.18
		<i>For 3 Hour Rated, Add</i>	983.09	
23 33 13 19-0329	EA	42" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,802.57	99.11
		<i>For 3 Hour Rated, Add</i>	1,001.99	
23 33 13 19-0330	EA	42" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,858.71	102.16
		<i>For 3 Hour Rated, Add</i>	1,020.89	
23 33 13 19-0331	EA	42" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,922.31	103.49
		<i>For 3 Hour Rated, Add</i>	1,044.53	
23 33 13 19-0332	EA	42" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,985.93	104.95
		<i>For 3 Hour Rated, Add</i>	1,068.17	
23 33 13 19-0333	EA	42" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,048.45	107.20
		<i>For 3 Hour Rated, Add</i>	1,090.63	
23 33 13 19-0334	EA	42" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,111.11	109.32
		<i>For 3 Hour Rated, Add</i>	1,113.10	
23 33 13 19-0335	EA	42" x 42", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,175.04	111.58
		<i>For 3 Hour Rated, Add</i>	1,136.02	
23 33 13 19-0336	EA	44" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,466.19	79.61
		<i>For 3 Hour Rated, Add</i>	890.95	
23 33 13 19-0337	EA	44" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,545.06	86.23
		<i>For 3 Hour Rated, Add</i>	914.54	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0338	EA		44" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,614.12	89.42
			For 3 Hour Rated, Add	938.18	
23 33 13 19-0339	EA		44" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,683.16	92.74
			For 3 Hour Rated, Add	961.82	
23 33 13 19-0340	EA		44" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,746.28	96.18
			For 3 Hour Rated, Add	983.09	
23 33 13 19-0341	EA		44" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,809.42	99.50
			For 3 Hour Rated, Add	1,004.36	
23 33 13 19-0342	EA		44" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,878.44	102.82
			For 3 Hour Rated, Add	1,027.99	
23 33 13 19-0343	EA		44" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,947.45	106.14
			For 3 Hour Rated, Add	1,051.61	
23 33 13 19-0344	EA		44" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	3,005.67	107.73
			For 3 Hour Rated, Add	1,072.88	
23 33 13 19-0345	EA		44" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	3,063.75	109.32
			For 3 Hour Rated, Add	1,094.15	
23 33 13 19-0346	EA		44" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	3,122.01	110.91
			For 3 Hour Rated, Add	1,115.44	
23 33 13 19-0347	EA		44" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	3,180.12	112.64
			For 3 Hour Rated, Add	1,136.72	
23 33 13 19-0348	EA		44" x 42", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	3,238.38	114.36
			For 3 Hour Rated, Add	1,158.01	
23 33 13 19-0349	EA		44" x 44", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	3,296.49	116.09
			For 3 Hour Rated, Add	1,179.29	
23 33 13 19-0350	EA		46" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,499.77	82.93
			For 3 Hour Rated, Add	900.40	
23 33 13 19-0351	EA		46" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,584.58	89.42
			For 3 Hour Rated, Add	926.37	
23 33 13 19-0352	EA		46" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,650.67	92.74
			For 3 Hour Rated, Add	948.82	
23 33 13 19-0353	EA		46" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,716.76	96.18
			For 3 Hour Rated, Add	971.28	
23 33 13 19-0354	EA		46" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,785.77	99.50
			For 3 Hour Rated, Add	994.90	
23 33 13 19-0355	EA		46" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,854.79	102.82
			For 3 Hour Rated, Add	1,018.53	
23 33 13 19-0356	EA		46" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,918.38	105.21
			For 3 Hour Rated, Add	1,040.99	
23 33 13 19-0357	EA		46" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	2,982.09	107.73
			For 3 Hour Rated, Add	1,063.45	
23 33 13 19-0358	EA		46" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides.	3,049.02	109.32
			For 3 Hour Rated, Add	1,088.26	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0359	EA	46" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,116.07	110.91
		<i>For 3 Hour Rated, Add</i>	1,113.06	
23 33 13 19-0360	EA	46" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,176.73	113.44
		<i>For 3 Hour Rated, Add</i>	1,134.35	
23 33 13 19-0361	EA	46" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,237.35	115.95
		<i>For 3 Hour Rated, Add</i>	1,155.63	
23 33 13 19-0362	EA	46" x 42", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,304.45	117.68
		<i>For 3 Hour Rated, Add</i>	1,180.46	
23 33 13 19-0363	EA	46" x 44", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,371.44	119.27
		<i>For 3 Hour Rated, Add</i>	1,205.29	
23 33 13 19-0364	EA	46" x 46", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,439.84	121.00
		<i>For 3 Hour Rated, Add</i>	1,230.63	
23 33 13 19-0365	EA	48" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,533.36	86.23
		<i>For 3 Hour Rated, Add</i>	909.86	
23 33 13 19-0366	EA	48" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,624.10	92.74
		<i>For 3 Hour Rated, Add</i>	938.20	
23 33 13 19-0367	EA	48" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,687.22	96.18
		<i>For 3 Hour Rated, Add</i>	959.46	
23 33 13 19-0368	EA	48" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,750.34	99.50
		<i>For 3 Hour Rated, Add</i>	980.73	
23 33 13 19-0369	EA	48" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,825.27	102.82
		<i>For 3 Hour Rated, Add</i>	1,006.72	
23 33 13 19-0370	EA	48" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,900.17	106.14
		<i>For 3 Hour Rated, Add</i>	1,032.70	
23 33 13 19-0371	EA	48" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	2,958.46	107.73
		<i>For 3 Hour Rated, Add</i>	1,054.00	
23 33 13 19-0372	EA	48" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,016.62	109.32
		<i>For 3 Hour Rated, Add</i>	1,075.30	
23 33 13 19-0373	EA	48" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,092.50	110.91
		<i>For 3 Hour Rated, Add</i>	1,103.64	
23 33 13 19-0374	EA	48" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,168.26	112.64
		<i>For 3 Hour Rated, Add</i>	1,131.98	
23 33 13 19-0375	EA	48" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,231.42	115.95
		<i>For 3 Hour Rated, Add</i>	1,153.26	
23 33 13 19-0376	EA	48" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,294.59	119.27
		<i>For 3 Hour Rated, Add</i>	1,174.55	
23 33 13 19-0377	EA	48" x 42", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,370.54	120.86
		<i>For 3 Hour Rated, Add</i>	1,202.91	
23 33 13 19-0378	EA	48" x 44", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,446.39	122.59
		<i>For 3 Hour Rated, Add</i>	1,231.29	
23 33 13 19-0379	EA	48" x 46", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes actuator and PFMA mounting angles for 2 sides.	3,508.62	127.63
		<i>For 3 Hour Rated, Add</i>	1,250.18	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0380	EA		48" x 48", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,570.73 1,269.08	132.54
23 33 13 19-0381	EA		48" x 54", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,806.48 1,349.43	144.22
23 33 13 19-0382	EA		50" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,663.59 950.01	96.18
23 33 13 19-0383	EA		50" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,726.71 971.28	99.50
23 33 13 19-0384	EA		50" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,789.84 992.55	102.82
23 33 13 19-0385	EA		50" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,867.73 1,019.72	106.14
23 33 13 19-0386	EA		50" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,945.63 1,046.90	109.32
23 33 13 19-0387	EA		50" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,006.81 1,069.36	111.05
23 33 13 19-0388	EA		50" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,067.84 1,091.81	112.64
23 33 13 19-0389	EA		50" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,146.75 1,121.36	114.23
23 33 13 19-0390	EA		50" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,225.53 1,150.90	115.95
23 33 13 19-0391	EA		50" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,297.51 1,175.72	119.27
23 33 13 19-0392	EA		50" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,369.49 1,200.53	122.59
23 33 13 19-0393	EA		50" x 42", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,438.99 1,225.36	125.11
23 33 13 19-0394	EA		50" x 44", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,508.62 1,250.18	127.63
23 33 13 19-0395	EA		50" x 46", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,582.54 1,273.80	132.54
23 33 13 19-0396	EA		50" x 48", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,656.61 1,297.44	137.58
23 33 13 19-0397	EA		50" x 50", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,732.15 1,321.50	142.62
23 33 13 19-0398	EA		52" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,703.06 961.82	99.50
23 33 13 19-0399	EA		52" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,766.19 983.09	102.82
23 33 13 19-0400	EA		52" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	2,829.33 1,004.36	106.14

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0401	EA		52" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,910.20	109.32
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,032.73	
23 33 13 19-0402	EA		52" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,991.06	112.64
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,061.10	
23 33 13 19-0403	EA		52" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,055.14	114.36
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,084.71	
23 33 13 19-0404	EA		52" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,119.08	116.09
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,108.32	
23 33 13 19-0405	EA		52" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,201.00	117.68
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,139.08	
23 33 13 19-0406	EA		52" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,282.81	119.27
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,169.84	
23 33 13 19-0407	EA		52" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,363.60	122.59
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,198.17	
23 33 13 19-0408	EA		52" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,444.40	126.04
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,226.51	
23 33 13 19-0409	EA		52" x 42", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,507.57	129.22
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,247.80	
23 33 13 19-0410	EA		52" x 44", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,570.73	132.54
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,269.08	
23 33 13 19-0411	EA		52" x 46", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,656.61	137.58
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,297.44	
23 33 13 19-0412	EA		52" x 48", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,742.35	142.49
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,325.79	
23 33 13 19-0413	EA		52" x 50", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,811.39	145.81
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,349.43	
23 33 13 19-0414	EA		52" x 52", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,880.45	149.13
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,373.07	
23 33 13 19-0415	EA		52" x 56", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,561.19	152.44
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,641.39	
23 33 13 19-0416	EA		54" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,874.69	109.32
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,018.53	
23 33 13 19-0417	EA		54" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	2,953.06	111.85
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,046.91	
23 33 13 19-0418	EA		54" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,031.56	114.36
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,075.28	
23 33 13 19-0419	EA		54" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,098.47	115.95
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,100.08	
23 33 13 19-0420	EA		54" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,165.51	117.68
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,124.88	
23 33 13 19-0421	EA		54" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,252.74	120.07
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			<i>For 3 Hour Rated, Add</i>	1,156.80	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0422	EA		54" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,339.99 1,188.73	122.59
23 33 13 19-0423	EA		54" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,420.82 1,217.08	125.91
23 33 13 19-0424	EA		54" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,501.65 1,245.43	129.22
23 33 13 19-0425	EA		54" x 42", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,576.61 1,271.43	132.54
23 33 13 19-0426	EA		54" x 44", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,651.57 1,297.44	135.86
23 33 13 19-0427	EA		54" x 46", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,729.01 1,323.43	139.98
23 33 13 19-0428	EA		54" x 48", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,806.48 1,349.43	144.22
23 33 13 19-0429	EA		56" x 18", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,015.98 1,086.99	99.50
23 33 13 19-0430	EA		56" x 20", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,110.26 1,116.74	106.14
23 33 13 19-0431	EA		56" x 22", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,201.31 1,149.18	109.32
23 33 13 19-0432	EA		56" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,292.37 1,181.62	112.64
23 33 13 19-0433	EA		56" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,378.61 1,214.10	114.36
23 33 13 19-0434	EA		56" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,464.70 1,246.57	116.09
23 33 13 19-0435	EA		56" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,544.07 1,276.30	117.68
23 33 13 19-0436	EA		56" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,623.30 1,306.03	119.27
23 33 13 19-0437	EA		56" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,727.93 1,343.90	122.59
23 33 13 19-0438	EA		56" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,832.55 1,381.77	126.04
23 33 13 19-0439	EA		56" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	3,923.61 1,414.21	129.22
23 33 13 19-0440	EA		56" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	4,014.68 1,446.66	132.54
23 33 13 19-0441	EA		56" x 46", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	4,287.93 1,544.02	142.49
23 33 13 19-0442	EA		56" x 52", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60)..... Note: Includes acuator and PFMA mounting angles for 2 sides. <i>For 3 Hour Rated, Add</i>	4,561.19 1,641.39	152.44

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0443	EA	56" x 56", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,756.87	159.08
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,711.70	
23 33 13 19-0444	EA	56" x 72", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	5,602.04	184.02
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	2,020.04	
23 33 13 19-0445	EA	58" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,338.02	114.36
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,197.86	
23 33 13 19-0446	EA	58" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,424.08	115.95
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,230.32	
23 33 13 19-0447	EA	58" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,510.27	117.68
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,262.78	
23 33 13 19-0448	EA	58" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,598.84	120.07
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,295.24	
23 33 13 19-0449	EA	58" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,687.39	122.59
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,327.69	
23 33 13 19-0450	EA	58" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,788.63	125.91
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,364.20	
23 33 13 19-0451	EA	58" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,889.87	129.22
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,400.72	
23 33 13 19-0452	EA	58" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,974.16	132.54
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,430.45	
23 33 13 19-0453	EA	58" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,058.46	135.86
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,460.19	
23 33 13 19-0454	EA	58" x 42", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,166.43	139.17
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,499.40	
23 33 13 19-0455	EA	60" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,392.14	116.09
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,217.55	
23 33 13 19-0456	EA	60" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,478.52	117.68
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,250.08	
23 33 13 19-0457	EA	60" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,564.76	119.27
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,282.62	
23 33 13 19-0458	EA	60" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,662.90	122.59
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,317.89	
23 33 13 19-0459	EA	60" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,761.02	126.04
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,353.16	
23 33 13 19-0460	EA	60" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,859.12	129.22
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,388.42	
23 33 13 19-0461	EA	60" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,957.21	132.54
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,423.67	
23 33 13 19-0462	EA	60" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,034.94	135.86
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,450.78	
23 33 13 19-0463	EA	60" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,112.66	139.17
		Note: Includes actuator and PFMA mounting angles for 2 sides.		
		<i>For 3 Hour Rated, Add</i>	1,477.89	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0464	EA	60" x 42", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,231.07	142.49	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,521.28		
23 33 13 19-0465	EA	60" x 44", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,349.48	145.94	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,564.66		
23 33 13 19-0466	EA	60" x 46", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,454.38	149.13	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,602.64		
23 33 13 19-0467	EA	60" x 48", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,559.26	152.44	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,640.62		
23 33 13 19-0468	EA	64" x 58", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	5,351.56	175.13	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,930.42		
23 33 13 19-0469	EA	66" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,635.59	123.13	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,306.49		
23 33 13 19-0470	EA	66" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,721.40	123.65	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,339.91		
23 33 13 19-0471	EA	66" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,807.09	124.31	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,373.34		
23 33 13 19-0472	EA	66" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,932.34	129.62	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,417.23		
23 33 13 19-0473	EA	66" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,057.73	134.93	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,461.18		
23 33 13 19-0474	EA	66" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,157.15	139.17	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,495.85		
23 33 13 19-0475	EA	66" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,256.62	143.29	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,530.54		
23 33 13 19-0476	EA	66" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,321.14	146.47	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,552.37		
23 33 13 19-0477	EA	66" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,385.67	149.65	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,574.26		
23 33 13 19-0478	EA	70" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,539.91	151.11	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,634.52		
23 33 13 19-0479	EA	70" x 38", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,594.73	154.17	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,652.57		
23 33 13 19-0480	EA	70" x 40", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,650.06	157.35	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,670.78		
23 33 13 19-0481	EA	70" x 42", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,842.47	160.80	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,743.82		
23 33 13 19-0482	EA	70" x 44", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	5,036.20	164.38	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,817.38		
23 33 13 19-0483	EA	70" x 46", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	5,183.85	165.84	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,874.48		
23 33 13 19-0484	EA	70" x 48", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	5,331.86	167.30	
		Note: Includes acuator and PFMA mounting angles for 2 sides.			
		For 3 Hour Rated, Add	1,931.72		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0485	EA		72" x 24", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	3,922.69	130.55
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			For 3 Hour Rated, Add	1,412.36	
23 33 13 19-0486	EA		72" x 26", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,008.09	130.02
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			For 3 Hour Rated, Add	1,446.90	
23 33 13 19-0487	EA		72" x 28", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,093.65	129.62
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			For 3 Hour Rated, Add	1,481.44	
23 33 13 19-0488	EA		72" x 30", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,249.95	136.92
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			For 3 Hour Rated, Add	1,535.41	
23 33 13 19-0489	EA		72" x 32", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,407.21	144.48
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			For 3 Hour Rated, Add	1,589.56	
23 33 13 19-0490	EA		72" x 34", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,508.21	149.65
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			For 3 Hour Rated, Add	1,623.59	
23 33 13 19-0491	EA		72" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	4,609.38	154.97
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			For 3 Hour Rated, Add	1,657.69	
23 33 13 19-0492	EA		72" x 48", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	5,433.38	170.36
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			For 3 Hour Rated, Add	1,968.61	
23 33 13 19-0493	EA		72" x 60", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	6,168.93	191.31
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			For 3 Hour Rated, Add	2,237.99	
23 33 13 19-0494	EA		90" x 36", Louver Type, 1-1/2 Hour Rated, Galvanized Steel Construction, Combination Fire/Smoke Damper (Ruskin FSD60).....	5,761.78	193.71
			Note: Includes actuator and PFMA mounting angles for 2 sides.		
			For 3 Hour Rated, Add	2,072.11	
23 33 13 19-0495			Smoke Damper (23 33 13 19)		
			Note: 1-1/2 hour rating, leakage class I with Firestat UL 555S air foil blades.		
23 33 13 19-0496	EA		6" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	136.51	14.73
			For Dynamic Damper, Add	49.86	
			For 3 Hour Rated, Add	27.70	
23 33 13 19-0497	EA		8" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	140.83	15.39
			For Dynamic Damper, Add	51.11	
			For 3 Hour Rated, Add	28.40	
23 33 13 19-0498	EA		8" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	143.44	15.52
			For Dynamic Damper, Add	52.38	
			For 3 Hour Rated, Add	29.10	
23 33 13 19-0499	EA		10" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	143.44	15.52
			For Dynamic Damper, Add	52.38	
			For 3 Hour Rated, Add	29.10	
23 33 13 19-0500	EA		10" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	147.10	15.93
			For Dynamic Damper, Add	53.64	
			For 3 Hour Rated, Add	29.80	
23 33 13 19-0501	EA		10" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	157.06	17.65
			For Dynamic Damper, Add	56.15	
			For 3 Hour Rated, Add	31.20	
23 33 13 19-0502	EA		12" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	147.10	15.93
			For Dynamic Damper, Add	53.64	
			For 3 Hour Rated, Add	29.80	
23 33 13 19-0503	EA		12" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	154.41	16.85
			For Dynamic Damper, Add	56.15	
			For 3 Hour Rated, Add	31.20	
23 33 13 19-0504	EA		12" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	159.41	17.65
			For Dynamic Damper, Add	57.42	
			For 3 Hour Rated, Add	31.90	
23 33 13 19-0505	EA		12" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	168.39	19.90
			For Dynamic Damper, Add	58.69	
			For 3 Hour Rated, Add	32.60	
23 33 13 19-0506	EA		14" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	153.26	16.85
			For Dynamic Damper, Add	55.53	
			For 3 Hour Rated, Add	30.85	
23 33 13 19-0507	EA		14" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	159.41	17.65
			For Dynamic Damper, Add	57.42	
			For 3 Hour Rated, Add	31.90	
23 33 13 19-0508	EA		14" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	164.40	18.57
			For Dynamic Damper, Add	58.69	
			For 3 Hour Rated, Add	32.60	
23 33 13 19-0509	EA		14" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	170.74	19.90
			For Dynamic Damper, Add	59.96	
			For 3 Hour Rated, Add	33.31	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0510	EA		14" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	183.21	22.15
			For Dynamic Damper, Add	63.11	
			For 3 Hour Rated, Add	35.06	
23 33 13 19-0511	EA		16" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	244.54	17.65
			For Dynamic Damper, Add	103.39	
			For 3 Hour Rated, Add	57.44	
23 33 13 19-0512	EA		16" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	250.86	18.97
			For Dynamic Damper, Add	104.66	
			For 3 Hour Rated, Add	58.14	
23 33 13 19-0513	EA		16" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	258.51	20.83
			For Dynamic Damper, Add	105.93	
			For 3 Hour Rated, Add	58.85	
23 33 13 19-0514	EA		16" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	264.81	22.15
			For Dynamic Damper, Add	107.17	
			For 3 Hour Rated, Add	59.54	
23 33 13 19-0515	EA		16" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	277.33	24.27
			For Dynamic Damper, Add	110.35	
			For 3 Hour Rated, Add	61.31	
23 33 13 19-0516	EA		16" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	289.80	26.54
			For Dynamic Damper, Add	113.50	
			For 3 Hour Rated, Add	63.06	
23 33 13 19-0517	EA		18" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	249.53	18.57
			For Dynamic Damper, Add	104.66	
			For 3 Hour Rated, Add	58.14	
23 33 13 19-0518	EA		18" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	257.02	19.90
			For Dynamic Damper, Add	106.55	
			For 3 Hour Rated, Add	59.19	
23 33 13 19-0519	EA		18" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	267.18	22.15
			For Dynamic Damper, Add	108.45	
			For 3 Hour Rated, Add	60.25	
23 33 13 19-0520	EA		18" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	279.66	24.27
			For Dynamic Damper, Add	111.61	
			For 3 Hour Rated, Add	62.00	
23 33 13 19-0521	EA		18" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	290.95	26.54
			For Dynamic Damper, Add	114.12	
			For 3 Hour Rated, Add	63.40	
23 33 13 19-0522	EA		18" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	303.43	28.66
			For Dynamic Damper, Add	117.29	
			For 3 Hour Rated, Add	65.16	
23 33 13 19-0523	EA		18" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	313.58	30.91
			For Dynamic Damper, Add	119.18	
			For 3 Hour Rated, Add	66.21	
23 33 13 19-0524	EA		20" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	255.87	19.90
			For Dynamic Damper, Add	105.93	
			For 3 Hour Rated, Add	58.85	
23 33 13 19-0525	EA		20" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	267.16	22.15
			For Dynamic Damper, Add	108.44	
			For 3 Hour Rated, Add	60.25	
23 33 13 19-0526	EA		20" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	278.48	24.27
			For Dynamic Damper, Add	110.97	
			For 3 Hour Rated, Add	61.65	
23 33 13 19-0527	EA		20" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	294.48	26.54
			For Dynamic Damper, Add	116.03	
			For 3 Hour Rated, Add	64.46	
23 33 13 19-0528	EA		20" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	304.61	28.66
			For Dynamic Damper, Add	117.93	
			For 3 Hour Rated, Add	65.51	
23 33 13 19-0529	EA		20" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	314.75	30.91
			For Dynamic Damper, Add	119.82	
			For 3 Hour Rated, Add	66.56	
23 33 13 19-0530	EA		20" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	326.05	33.17
			For Dynamic Damper, Add	122.34	
			For 3 Hour Rated, Add	67.97	
23 33 13 19-0531	EA		20" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	337.35	35.29
			For Dynamic Damper, Add	124.85	
			For 3 Hour Rated, Add	69.36	
23 33 13 19-0532	EA		24" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	337.60	22.15
			For Dynamic Damper, Add	146.48	
			For 3 Hour Rated, Add	81.38	
23 33 13 19-0533	EA		24" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	351.27	24.27
			For Dynamic Damper, Add	150.28	
			For 3 Hour Rated, Add	83.49	
23 33 13 19-0534	EA		24" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	362.58	26.54
			For Dynamic Damper, Add	152.80	
			For 3 Hour Rated, Add	84.89	
23 33 13 19-0535	EA		24" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	376.22	28.66
			For Dynamic Damper, Add	156.59	
			For 3 Hour Rated, Add	87.00	
23 33 13 19-0536	EA		24" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	386.36	30.91
			For Dynamic Damper, Add	158.48	
			For 3 Hour Rated, Add	88.05	
23 33 13 19-0537	EA		24" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	396.48	33.17
			For Dynamic Damper, Add	160.37	
			For 3 Hour Rated, Add	89.09	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0538	EA		24" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	410.14	35.29
			For Dynamic Damper, Add	164.16	
			For 3 Hour Rated, Add	91.20	
23 33 13 19-0539	EA		24" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	430.41	39.80
			For Dynamic Damper, Add	167.95	
			For 3 Hour Rated, Add	93.30	
23 33 13 19-0540	EA		24" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	453.05	44.18
			For Dynamic Damper, Add	173.01	
			For 3 Hour Rated, Add	96.11	
23 33 13 19-0541	EA		28" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	351.27	24.27
			For Dynamic Damper, Add	150.28	
			For 3 Hour Rated, Add	83.49	
23 33 13 19-0542	EA		28" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	362.58	26.54
			For Dynamic Damper, Add	152.80	
			For 3 Hour Rated, Add	84.89	
23 33 13 19-0543	EA		28" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	376.22	28.66
			For Dynamic Damper, Add	156.59	
			For 3 Hour Rated, Add	87.00	
23 33 13 19-0544	EA		28" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	387.52	30.91
			For Dynamic Damper, Add	159.11	
			For 3 Hour Rated, Add	88.40	
23 33 13 19-0545	EA		28" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	399.99	33.17
			For Dynamic Damper, Add	162.26	
			For 3 Hour Rated, Add	90.15	
23 33 13 19-0546	EA		28" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	412.47	35.29
			For Dynamic Damper, Add	165.42	
			For 3 Hour Rated, Add	91.90	
23 33 13 19-0547	EA		28" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	432.75	39.80
			For Dynamic Damper, Add	169.21	
			For 3 Hour Rated, Add	94.01	
23 33 13 19-0548	EA		28" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	453.05	44.18
			For Dynamic Damper, Add	173.01	
			For 3 Hour Rated, Add	96.11	
23 33 13 19-0549	EA		28" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	473.70	46.44
			For Dynamic Damper, Add	180.57	
			For 3 Hour Rated, Add	100.32	
23 33 13 19-0550	EA		28" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	498.66	50.81
			For Dynamic Damper, Add	186.89	
			For 3 Hour Rated, Add	103.83	
23 33 13 19-0551	EA		32" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	369.60	26.54
			For Dynamic Damper, Add	156.59	
			For 3 Hour Rated, Add	87.00	
23 33 13 19-0552	EA		32" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	378.53	28.66
			For Dynamic Damper, Add	157.84	
			For 3 Hour Rated, Add	87.69	
23 33 13 19-0553	EA		32" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	387.52	30.91
			For Dynamic Damper, Add	159.11	
			For 3 Hour Rated, Add	88.40	
23 33 13 19-0554	EA		32" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	398.82	33.17
			For Dynamic Damper, Add	161.63	
			For 3 Hour Rated, Add	89.80	
23 33 13 19-0555	EA		32" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	412.91	35.29
			For Dynamic Damper, Add	165.66	
			For 3 Hour Rated, Add	92.03	
23 33 13 19-0556	EA		32" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	432.75	39.80
			For Dynamic Damper, Add	169.21	
			For 3 Hour Rated, Add	94.01	
23 33 13 19-0557	EA		32" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	455.38	44.18
			For Dynamic Damper, Add	174.26	
			For 3 Hour Rated, Add	96.81	
23 33 13 19-0558	EA		32" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	478.02	48.56
			For Dynamic Damper, Add	179.32	
			For 3 Hour Rated, Add	99.62	
23 33 13 19-0559	EA		32" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	498.66	50.81
			For Dynamic Damper, Add	186.89	
			For 3 Hour Rated, Add	103.83	
23 33 13 19-0560	EA		32" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	525.66	54.39
			For Dynamic Damper, Add	195.73	
			For 3 Hour Rated, Add	108.74	
23 33 13 19-0561	EA		32" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	553.64	57.44
			For Dynamic Damper, Add	205.83	
			For 3 Hour Rated, Add	114.35	
23 33 13 19-0562	EA		36" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	387.23	28.66
			For Dynamic Damper, Add	162.54	
			For 3 Hour Rated, Add	90.30	
23 33 13 19-0563	EA		36" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	398.76	30.91
			For Dynamic Damper, Add	165.18	
			For 3 Hour Rated, Add	91.77	
23 33 13 19-0564	EA		36" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	410.28	33.17
			For Dynamic Damper, Add	167.82	
			For 3 Hour Rated, Add	93.23	
23 33 13 19-0565	EA		36" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	424.27	35.29
			For Dynamic Damper, Add	171.79	
			For 3 Hour Rated, Add	95.44	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0566	EA		36" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	441.23	39.80
			For Dynamic Damper, Add	173.79	
			For 3 Hour Rated, Add	96.55	
23 33 13 19-0567	EA		36" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	451.54	41.92
			For Dynamic Damper, Add	175.77	
			For 3 Hour Rated, Add	97.65	
23 33 13 19-0568	EA		36" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	483.68	48.56
			For Dynamic Damper, Add	182.38	
			For 3 Hour Rated, Add	101.32	
23 33 13 19-0569	EA		36" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	509.18	53.07
			For Dynamic Damper, Add	188.98	
			For 3 Hour Rated, Add	104.99	
23 33 13 19-0570	EA		36" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	529.19	54.80
			For Dynamic Damper, Add	196.93	
			For 3 Hour Rated, Add	109.40	
23 33 13 19-0571	EA		36" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	560.71	58.77
			For Dynamic Damper, Add	207.50	
			For 3 Hour Rated, Add	115.28	
23 33 13 19-0572	EA		36" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	587.14	61.83
			For Dynamic Damper, Add	216.76	
			For 3 Hour Rated, Add	120.42	
23 33 13 19-0573	EA		36" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	613.38	64.08
			For Dynamic Damper, Add	227.34	
			For 3 Hour Rated, Add	126.30	
23 33 13 19-0574	EA		40" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	447.39	33.17
			For Dynamic Damper, Add	191.44	
			For 3 Hour Rated, Add	106.36	
23 33 13 19-0575	EA		40" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	463.81	35.29
			For Dynamic Damper, Add	196.73	
			For 3 Hour Rated, Add	109.29	
23 33 13 19-0576	EA		40" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	472.90	37.54
			For Dynamic Damper, Add	198.05	
			For 3 Hour Rated, Add	110.03	
23 33 13 19-0577	EA		40" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	481.98	39.80
			For Dynamic Damper, Add	199.37	
			For 3 Hour Rated, Add	110.76	
23 33 13 19-0578	EA		40" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	503.83	41.92
			For Dynamic Damper, Add	204.01	
			For 3 Hour Rated, Add	113.34	
23 33 13 19-0579	EA		40" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	519.04	44.18
			For Dynamic Damper, Add	208.64	
			For 3 Hour Rated, Add	115.91	
23 33 13 19-0580	EA		40" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	548.73	50.81
			For Dynamic Damper, Add	213.93	
			For 3 Hour Rated, Add	118.85	
23 33 13 19-0581	EA		40" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	571.81	55.19
			For Dynamic Damper, Add	219.22	
			For 3 Hour Rated, Add	121.79	
23 33 13 19-0582	EA		40" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	597.11	58.77
			For Dynamic Damper, Add	227.16	
			For 3 Hour Rated, Add	126.20	
23 33 13 19-0583	EA		40" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	633.34	61.83
			For Dynamic Damper, Add	241.70	
			For 3 Hour Rated, Add	134.28	
23 33 13 19-0584	EA		40" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	658.63	65.41
			For Dynamic Damper, Add	249.63	
			For 3 Hour Rated, Add	138.68	
23 33 13 19-0585	EA		40" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	690.89	67.13
			For Dynamic Damper, Add	264.18	
			For 3 Hour Rated, Add	146.77	
23 33 13 19-0586	EA		40" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	726.01	70.71
			For Dynamic Damper, Add	277.41	
			For 3 Hour Rated, Add	154.12	
23 33 13 19-0587	EA		44" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	458.92	33.17
			For Dynamic Damper, Add	194.09	
			For 3 Hour Rated, Add	107.83	
23 33 13 19-0588	EA		44" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	475.35	35.29
			For Dynamic Damper, Add	199.37	
			For 3 Hour Rated, Add	110.76	
23 33 13 19-0589	EA		44" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	489.35	37.54
			For Dynamic Damper, Add	203.35	
			For 3 Hour Rated, Add	112.97	
23 33 13 19-0590	EA		44" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	498.43	39.80
			For Dynamic Damper, Add	204.68	
			For 3 Hour Rated, Add	113.71	
23 33 13 19-0591	EA		44" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	514.86	41.92
			For Dynamic Damper, Add	209.96	
			For 3 Hour Rated, Add	116.65	
23 33 13 19-0592	EA		44" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	531.28	44.18
			For Dynamic Damper, Add	215.25	
			For 3 Hour Rated, Add	119.58	
23 33 13 19-0593	EA		44" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	570.08	53.07
			For Dynamic Damper, Add	221.87	
			For 3 Hour Rated, Add	123.26	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
23 33 13 19-0594	EA	44" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	595.58		57.44	
		For Dynamic Damper, Add	228.47			
		For 3 Hour Rated, Add	126.93			
23 33 13 19-0595	EA	44" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	633.34		61.83	
		For Dynamic Damper, Add	241.70			
		For 3 Hour Rated, Add	134.28			
23 33 13 19-0596	EA	44" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	668.66		66.34	
		For Dynamic Damper, Add	253.61			
		For 3 Hour Rated, Add	140.90			
23 33 13 19-0597	EA	44" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	706.39		70.71	
		For Dynamic Damper, Add	266.82			
		For 3 Hour Rated, Add	148.23			
23 33 13 19-0598	EA	44" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	735.08		72.83	
		For Dynamic Damper, Add	278.73			
		For 3 Hour Rated, Add	154.85			
23 33 13 19-0599	EA	44" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	763.76		75.10	
		For Dynamic Damper, Add	290.63			
		For 3 Hour Rated, Add	161.46			
23 33 13 19-0600	EA	44" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	792.44		77.35	
		For Dynamic Damper, Add	302.54			
		For 3 Hour Rated, Add	168.08			
23 33 13 19-0601	EA	48" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	472.90		35.29	
		For Dynamic Damper, Add	198.05			
		For 3 Hour Rated, Add	110.03			
23 33 13 19-0602	EA	48" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	489.35		37.54	
		For Dynamic Damper, Add	203.35			
		For 3 Hour Rated, Add	112.97			
23 33 13 19-0603	EA	48" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	498.43		39.80	
		For Dynamic Damper, Add	204.68			
		For 3 Hour Rated, Add	113.71			
23 33 13 19-0604	EA	48" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	519.04		44.18	
		For Dynamic Damper, Add	208.64			
		For 3 Hour Rated, Add	115.91			
23 33 13 19-0605	EA	48" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	542.10		48.56	
		For Dynamic Damper, Add	213.93			
		For 3 Hour Rated, Add	118.85			
23 33 13 19-0606	EA	48" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	565.18		53.07	
		For Dynamic Damper, Add	219.22			
		For 3 Hour Rated, Add	121.79			
23 33 13 19-0607	EA	48" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	593.14		57.44	
		For Dynamic Damper, Add	227.16			
		For 3 Hour Rated, Add	126.20			
23 33 13 19-0608	EA	48" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	621.08		61.83	
		For Dynamic Damper, Add	235.08			
		For 3 Hour Rated, Add	130.60			
23 33 13 19-0609	EA	48" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	656.40		66.34	
		For Dynamic Damper, Add	246.99			
		For 3 Hour Rated, Add	137.22			
23 33 13 19-0610	EA	48" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	696.60		70.71	
		For Dynamic Damper, Add	261.53			
		For 3 Hour Rated, Add	145.30			
23 33 13 19-0611	EA	48" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	725.31		72.83	
		For Dynamic Damper, Add	273.45			
		For 3 Hour Rated, Add	151.92			
23 33 13 19-0612	EA	48" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	761.31		75.10	
		For Dynamic Damper, Add	289.31			
		For 3 Hour Rated, Add	160.73			
23 33 13 19-0613	EA	48" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	796.63		79.47	
		For Dynamic Damper, Add	301.22			
		For 3 Hour Rated, Add	167.34			
23 33 13 19-0614	EA	48" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	832.64		81.73	
		For Dynamic Damper, Add	317.08			
		For 3 Hour Rated, Add	176.16			
23 33 13 19-0615	EA	48" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	872.13		88.36	
		For Dynamic Damper, Add	327.67			
		For 3 Hour Rated, Add	182.04			
23 33 13 19-0616	EA	52" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	486.90		37.54	
		For Dynamic Damper, Add	202.03			
		For 3 Hour Rated, Add	112.24			
23 33 13 19-0617	EA	52" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	503.32		39.80	
		For Dynamic Damper, Add	207.32			
		For 3 Hour Rated, Add	115.18			
23 33 13 19-0618	EA	52" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	526.38		44.18	
		For Dynamic Damper, Add	212.60			
		For 3 Hour Rated, Add	118.11			
23 33 13 19-0619	EA	52" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	542.10		48.56	
		For Dynamic Damper, Add	213.93			
		For 3 Hour Rated, Add	118.85			
23 33 13 19-0620	EA	52" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	566.40		53.07	
		For Dynamic Damper, Add	219.88			
		For 3 Hour Rated, Add	122.16			
23 33 13 19-0621	EA	52" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	590.69		57.44	
		For Dynamic Damper, Add	225.83			
		For 3 Hour Rated, Add	125.46			



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0622	EA		52" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	618.64	61.83
			For Dynamic Damper, Add	233.77	
			For 3 Hour Rated, Add	129.87	
23 33 13 19-0623	EA		52" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	646.61	66.34
			For Dynamic Damper, Add	241.70	
			For 3 Hour Rated, Add	134.28	
23 33 13 19-0624	EA		52" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	681.93	70.71
			For Dynamic Damper, Add	253.61	
			For 3 Hour Rated, Add	140.90	
23 33 13 19-0625	EA		52" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	724.57	75.10
			For Dynamic Damper, Add	269.47	
			For 3 Hour Rated, Add	149.71	
23 33 13 19-0626	EA		52" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	755.68	77.35
			For Dynamic Damper, Add	282.69	
			For 3 Hour Rated, Add	157.05	
23 33 13 19-0627	EA		52" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	794.17	79.47
			For Dynamic Damper, Add	299.89	
			For 3 Hour Rated, Add	166.61	
23 33 13 19-0628	EA		52" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	836.81	83.98
			For Dynamic Damper, Add	315.75	
			For 3 Hour Rated, Add	175.42	
23 33 13 19-0629	EA		52" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	872.13	88.36
			For Dynamic Damper, Add	327.67	
			For 3 Hour Rated, Add	182.04	
23 33 13 19-0630	EA		52" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	921.43	95.00
			For Dynamic Damper, Add	343.54	
			For 3 Hour Rated, Add	190.85	
23 33 13 19-0631	EA		52" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	959.19	99.37
			For Dynamic Damper, Add	356.77	
			For 3 Hour Rated, Add	198.20	
23 33 13 19-0632	EA		56" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	498.43	39.80
			For Dynamic Damper, Add	204.68	
			For 3 Hour Rated, Add	113.71	
23 33 13 19-0633	EA		56" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	523.93	44.18
			For Dynamic Damper, Add	211.28	
			For 3 Hour Rated, Add	117.38	
23 33 13 19-0634	EA		56" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	544.55	48.56
			For Dynamic Damper, Add	215.25	
			For 3 Hour Rated, Add	119.58	
23 33 13 19-0635	EA		56" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	560.26	53.07
			For Dynamic Damper, Add	216.57	
			For 3 Hour Rated, Add	120.32	
23 33 13 19-0636	EA		56" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	587.01	57.44
			For Dynamic Damper, Add	223.85	
			For 3 Hour Rated, Add	124.36	
23 33 13 19-0637	EA		56" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	613.74	61.83
			For Dynamic Damper, Add	231.12	
			For 3 Hour Rated, Add	128.40	
23 33 13 19-0638	EA		56" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	640.48	66.34
			For Dynamic Damper, Add	238.39	
			For 3 Hour Rated, Add	132.44	
23 33 13 19-0639	EA		56" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	667.21	70.71
			For Dynamic Damper, Add	245.66	
			For 3 Hour Rated, Add	136.48	
23 33 13 19-0640	EA		56" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	709.87	75.10
			For Dynamic Damper, Add	261.53	
			For 3 Hour Rated, Add	145.30	
23 33 13 19-0641	EA		56" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	745.91	77.35
			For Dynamic Damper, Add	277.41	
			For 3 Hour Rated, Add	154.12	
23 33 13 19-0642	EA		56" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	779.48	79.47
			For Dynamic Damper, Add	291.96	
			For 3 Hour Rated, Add	162.20	
23 33 13 19-0643	EA		56" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	827.04	83.98
			For Dynamic Damper, Add	310.47	
			For 3 Hour Rated, Add	172.49	
23 33 13 19-0644	EA		56" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	869.68	88.36
			For Dynamic Damper, Add	326.34	
			For 3 Hour Rated, Add	181.30	
23 33 13 19-0645	EA		56" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	914.79	92.74
			For Dynamic Damper, Add	343.54	
			For 3 Hour Rated, Add	190.85	
23 33 13 19-0646	EA		56" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	952.56	97.25
			For Dynamic Damper, Add	356.77	
			For 3 Hour Rated, Add	198.20	
23 33 13 19-0647	EA		56" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	997.67	101.63
			For Dynamic Damper, Add	373.96	
			For 3 Hour Rated, Add	207.76	
23 33 13 19-0648	EA		56" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,042.77	106.00
			For Dynamic Damper, Add	391.15	
			For 3 Hour Rated, Add	217.31	
23 33 13 19-0649	EA		60" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	519.04	44.18
			For Dynamic Damper, Add	208.64	
			For 3 Hour Rated, Add	115.91	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0650 EA 60" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	544.55 215.25 119.58	48.56
23 33 13 19-0651 EA 60" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	562.71 217.89 121.05	53.07
23 33 13 19-0652 EA 60" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	578.45 219.22 121.79	57.44
23 33 13 19-0653 EA 60" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	606.40 227.16 126.20	61.83
23 33 13 19-0654 EA 60" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	634.35 235.08 130.60	66.34
23 33 13 19-0655 EA 60" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	663.54 243.68 135.38	70.71
23 33 13 19-0656 EA 60" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	692.73 252.28 140.15	75.10
23 33 13 19-0657 EA 60" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	731.20 269.47 149.71	77.35
23 33 13 19-0658 EA 60" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	767.22 285.34 158.52	79.47
23 33 13 19-0659 EA 60" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	812.35 302.54 168.08	83.98
23 33 13 19-0660 EA 60" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	857.44 319.73 177.63	88.36
23 33 13 19-0661 EA 60" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	895.19 332.95 184.97	92.74
23 33 13 19-0662 EA 60" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	947.64 354.11 196.73	97.25
23 33 13 19-0663 EA 60" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	995.20 372.63 207.02	101.63
23 33 13 19-0664 EA 60" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	1,042.77 391.15 217.31	106.00
23 33 13 19-0665 EA 60" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	1,085.40 407.00 226.11	110.52
23 33 13 19-0666 EA 60" x 60" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	1,128.08 422.89 234.94	114.90
23 33 13 19-0667 Motorized Combination Fire/Smoke Damper (Dayton) ^(23 33 13 19) Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.		
23 33 13 19-0668 EA 8" Width x 8" Height, 120 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGGJ9) Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.	608.87	24.14
23 33 13 19-0669 EA 10" Width x 10" Height, 120 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGGK1) Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.	621.58	25.21
23 33 13 19-0670 EA 12" Width x 12" Height, 120 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGGK2) Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.	673.24	26.54
23 33 13 19-0671 EA 16" Width x 16" Height, 120 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGGK3) Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.	705.61	28.00
23 33 13 19-0672 EA 18" Width x 18" Height, 120 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGGK4) Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.	755.23	29.46
23 33 13 19-0673 EA 24" Width x 24" Height, 120 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGGK5) Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.	824.42	31.18
23 33 13 19-0674 EA 8" Width x 8" Height, 24 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGGJ3) Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.	611.14	24.14
23 33 13 19-0675 EA 10" Width x 10" Height, 24 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGGJ4) Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.	611.25	25.21
23 33 13 19-0676 EA 12" Width x 12" Height, 24 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGGJ5) Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.	673.20	26.54
23 33 13 19-0677 EA 16" Width x 16" Height, 24 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGGJ6) Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.	705.61	28.00



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0678	EA		18" Width x 18" Height, 24 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGJ7).....	755.23	29.46
Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.					
23 33 13 19-0679	EA		24" Width x 24" Height, 24 Volt, 1-1/2 Hour, Galvanized Steel, Motorized Combination Fire/Smoke Damper (Dayton 3HGJ8).....	807.48	31.18
Note: Includes damper, motor, actuators and junction box. Excludes electrical connection.					

23 33 13 23 Backdraft Dampers (23 33 13)

23 33 13 23-0001 Horizontally Mounted Backdraft Damper (23 33 13 23)

Note: Galvanized steel frame, aluminum blades. Exclude motor pack.

23 33 13 23-0002	EA	6" x 6" Horizontally Mounted Backdraft Damper.....	120.19	14.73
23 33 13 23-0003	EA	8" x 6" Horizontally Mounted Backdraft Damper.....	147.50	15.39
23 33 13 23-0004	EA	8" x 8" Horizontally Mounted Backdraft Damper.....	181.53	15.52
23 33 13 23-0005	EA	10" x 6" Horizontally Mounted Backdraft Damper.....	173.10	15.52
23 33 13 23-0006	EA	10" x 8" Horizontally Mounted Backdraft Damper.....	164.37	15.93
23 33 13 23-0007	EA	10" x 10" Horizontally Mounted Backdraft Damper.....	198.82	17.65
23 33 13 23-0008	EA	12" x 6" Horizontally Mounted Backdraft Damper.....	152.71	15.93
23 33 13 23-0009	EA	12" x 8" Horizontally Mounted Backdraft Damper.....	192.99	17.65
23 33 13 23-0010	EA	12" x 10" Horizontally Mounted Backdraft Damper.....	183.10	18.57
23 33 13 23-0011	EA	12" x 12" Horizontally Mounted Backdraft Damper.....	212.57	19.90
23 33 13 23-0012	EA	14" x 6" Horizontally Mounted Backdraft Damper.....	172.85	16.85
23 33 13 23-0013	EA	14" x 8" Horizontally Mounted Backdraft Damper.....	174.60	18.57
23 33 13 23-0014	EA	14" x 10" Horizontally Mounted Backdraft Damper.....	208.34	19.90
23 33 13 23-0015	EA	14" x 12" Horizontally Mounted Backdraft Damper.....	180.67	22.15
23 33 13 23-0016	EA	14" x 14" Horizontally Mounted Backdraft Damper.....	206.36	24.27
23 33 13 23-0017	EA	16" x 6" Horizontally Mounted Backdraft Damper.....	192.99	17.65
23 33 13 23-0018	EA	16" x 8" Horizontally Mounted Backdraft Damper.....	195.58	19.90
23 33 13 23-0019	EA	16" x 10" Horizontally Mounted Backdraft Damper.....	175.23	22.15
23 33 13 23-0020	EA	16" x 12" Horizontally Mounted Backdraft Damper.....	196.99	22.15
23 33 13 23-0021	EA	16" x 14" Horizontally Mounted Backdraft Damper.....	225.42	24.27
23 33 13 23-0022	EA	16" x 16" Horizontally Mounted Backdraft Damper.....	253.80	26.54
23 33 13 23-0023	EA	18" x 6" Horizontally Mounted Backdraft Damper.....	170.37	18.57
23 33 13 23-0024	EA	18" x 8" Horizontally Mounted Backdraft Damper.....	157.69	19.90
23 33 13 23-0025	EA	18" x 10" Horizontally Mounted Backdraft Damper.....	188.81	22.15
23 33 13 23-0026	EA	18" x 12" Horizontally Mounted Backdraft Damper.....	219.94	24.27
23 33 13 23-0027	EA	18" x 14" Horizontally Mounted Backdraft Damper.....	251.07	26.54
23 33 13 23-0028	EA	18" x 16" Horizontally Mounted Backdraft Damper.....	288.47	28.66
23 33 13 23-0029	EA	18" x 18" Horizontally Mounted Backdraft Damper.....	327.02	33.17
23 33 13 23-0030	EA	18" x 20" Horizontally Mounted Backdraft Damper.....	259.47	35.29
23 33 13 23-0031	EA	18" x 24" Horizontally Mounted Backdraft Damper.....	303.37	39.80
23 33 13 23-0032	EA	20" x 6" Horizontally Mounted Backdraft Damper.....	187.09	19.90
23 33 13 23-0033	EA	20" x 8" Horizontally Mounted Backdraft Damper.....	175.23	22.15
23 33 13 23-0034	EA	20" x 10" Horizontally Mounted Backdraft Damper.....	209.06	24.27
23 33 13 23-0035	EA	20" x 12" Horizontally Mounted Backdraft Damper.....	242.93	26.54
23 33 13 23-0036	EA	20" x 14" Horizontally Mounted Backdraft Damper.....	282.86	28.66
23 33 13 23-0037	EA	20" x 16" Horizontally Mounted Backdraft Damper.....	317.58	30.91
23 33 13 23-0038	EA	20" x 18" Horizontally Mounted Backdraft Damper.....	259.47	35.29
23 33 13 23-0039	EA	20" x 20" Horizontally Mounted Backdraft Damper.....	276.49	35.29
23 33 13 23-0040	EA	20" x 24" Horizontally Mounted Backdraft Damper.....	323.81	39.80
23 33 13 23-0041	EA	20" x 28" Horizontally Mounted Backdraft Damper.....	371.14	44.18
23 33 13 23-0042	EA	20" x 32" Horizontally Mounted Backdraft Damper.....	340.61	48.56
23 33 13 23-0043	EA	20" x 36" Horizontally Mounted Backdraft Damper.....	378.20	53.07
23 33 13 23-0044	EA	24" x 6" Horizontally Mounted Backdraft Damper.....	164.32	22.15
23 33 13 23-0045	EA	24" x 8" Horizontally Mounted Backdraft Damper.....	203.63	24.27
23 33 13 23-0046	EA	24" x 10" Horizontally Mounted Backdraft Damper.....	242.93	26.54
23 33 13 23-0047	EA	24" x 12" Horizontally Mounted Backdraft Damper.....	288.47	28.66
23 33 13 23-0048	EA	24" x 14" Horizontally Mounted Backdraft Damper.....	242.59	33.17
23 33 13 23-0049	EA	24" x 16" Horizontally Mounted Backdraft Damper.....	269.67	35.29
23 33 13 23-0050	EA	24" x 18" Horizontally Mounted Backdraft Damper.....	303.37	39.80
23 33 13 23-0051	EA	24" x 20" Horizontally Mounted Backdraft Damper.....	323.81	39.80
23 33 13 23-0052	EA	24" x 24" Horizontally Mounted Backdraft Damper.....	377.96	44.18
23 33 13 23-0053	EA	24" x 28" Horizontally Mounted Backdraft Damper.....	350.32	48.56
23 33 13 23-0054	EA	24" x 32" Horizontally Mounted Backdraft Damper.....	392.81	53.07
23 33 13 23-0055	EA	24" x 36" Horizontally Mounted Backdraft Damper.....	435.26	57.44
23 33 13 23-0056	EA	24" x 40" Horizontally Mounted Backdraft Damper.....	419.34	61.83
23 33 13 23-0057	EA	24" x 44" Horizontally Mounted Backdraft Damper.....	455.96	66.34
23 33 13 23-0058	EA	24" x 48" Horizontally Mounted Backdraft Damper.....	479.32	66.34
23 33 13 23-0059	EA	28" x 6" Horizontally Mounted Backdraft Damper.....	180.67	22.15
23 33 13 23-0060	EA	28" x 8" Horizontally Mounted Backdraft Damper.....	225.42	24.27
23 33 13 23-0061	EA	28" x 10" Horizontally Mounted Backdraft Damper.....	282.86	28.66
23 33 13 23-0062	EA	28" x 12" Horizontally Mounted Backdraft Damper.....	242.59	33.17
23 33 13 23-0063	EA	28" x 14" Horizontally Mounted Backdraft Damper.....	273.08	35.29
23 33 13 23-0064	EA	28" x 16" Horizontally Mounted Backdraft Damper.....	310.20	39.80
23 33 13 23-0065	EA	28" x 18" Horizontally Mounted Backdraft Damper.....	347.32	44.18
23 33 13 23-0066	EA	28" x 20" Horizontally Mounted Backdraft Damper.....	371.14	44.18
23 33 13 23-0067	EA	28" x 24" Horizontally Mounted Backdraft Damper.....	350.32	48.56
23 33 13 23-0068	EA	28" x 28" Horizontally Mounted Backdraft Damper.....	397.68	53.07
23 33 13 23-0069	EA	28" x 32" Horizontally Mounted Backdraft Damper.....	445.01	57.44
23 33 13 23-0070	EA	28" x 36" Horizontally Mounted Backdraft Damper.....	444.27	66.34
23 33 13 23-0071	EA	28" x 40" Horizontally Mounted Backdraft Damper.....	471.54	66.34

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 33 13 23-0072	EA	28" x 44" Horizontally Mounted Backdraft Damper	512.04	70.71
23 33 13 23-0073	EA	28" x 48" Horizontally Mounted Backdraft Damper	552.57	75.10
23 33 13 23-0074	EA	28" x 52" Horizontally Mounted Backdraft Damper	579.84	75.10
23 33 13 23-0075	EA	28" x 56" Horizontally Mounted Backdraft Damper	572.67	79.47
23 33 13 23-0076	EA	28" x 60" Horizontally Mounted Backdraft Damper	596.49	79.47
23 33 13 23-0077	EA	32" x 6" Horizontally Mounted Backdraft Damper	203.63	24.27
23 33 13 23-0078	EA	32" x 8" Horizontally Mounted Backdraft Damper	266.01	28.66
23 33 13 23-0079	EA	32" x 10" Horizontally Mounted Backdraft Damper	317.58	30.91
23 33 13 23-0080	EA	32" x 12" Horizontally Mounted Backdraft Damper	269.67	35.29
23 33 13 23-0081	EA	32" x 14" Horizontally Mounted Backdraft Damper	310.20	39.80
23 33 13 23-0082	EA	32" x 16" Horizontally Mounted Backdraft Damper	350.70	44.18
23 33 13 23-0083	EA	32" x 18" Horizontally Mounted Backdraft Damper	307.86	44.18
23 33 13 23-0084	EA	32" x 20" Horizontally Mounted Backdraft Damper	340.61	48.56
23 33 13 23-0085	EA	32" x 24" Horizontally Mounted Backdraft Damper	392.81	53.07
23 33 13 23-0086	EA	32" x 28" Horizontally Mounted Backdraft Damper	445.01	57.44
23 33 13 23-0087	EA	32" x 32" Horizontally Mounted Backdraft Damper	448.18	66.34
23 33 13 23-0088	EA	32" x 36" Horizontally Mounted Backdraft Damper	479.32	66.34
23 33 13 23-0089	EA	32" x 40" Horizontally Mounted Backdraft Damper	523.73	70.71
23 33 13 23-0090	EA	32" x 44" Horizontally Mounted Backdraft Damper	568.14	75.10
23 33 13 23-0091	EA	32" x 48" Horizontally Mounted Backdraft Damper	565.84	79.47
23 33 13 23-0092	EA	32" x 52" Horizontally Mounted Backdraft Damper	593.11	79.47
23 33 13 23-0093	EA	32" x 56" Horizontally Mounted Backdraft Damper	633.61	83.98
23 33 13 23-0094	EA	32" x 60" Horizontally Mounted Backdraft Damper	660.88	83.98
23 33 13 23-0095	EA	32" x 64" Horizontally Mounted Backdraft Damper	639.08	88.36
23 33 13 23-0096	EA	32" x 68" Horizontally Mounted Backdraft Damper	662.43	88.36
23 33 13 23-0097	EA	32" x 72" Horizontally Mounted Backdraft Damper	699.06	92.74
23 33 13 23-0098	EA	36" x 6" Horizontally Mounted Backdraft Damper	219.94	24.27
23 33 13 23-0099	EA	36" x 8" Horizontally Mounted Backdraft Damper	295.11	30.91
23 33 13 23-0100	EA	36" x 10" Horizontally Mounted Backdraft Damper	259.47	35.29
23 33 13 23-0101	EA	36" x 12" Horizontally Mounted Backdraft Damper	303.37	39.80
23 33 13 23-0102	EA	36" x 14" Horizontally Mounted Backdraft Damper	347.32	44.18
23 33 13 23-0103	EA	36" x 16" Horizontally Mounted Backdraft Damper	307.86	44.18
23 33 13 23-0104	EA	36" x 18" Horizontally Mounted Backdraft Damper	343.03	48.56
23 33 13 23-0105	EA	36" x 20" Horizontally Mounted Backdraft Damper	378.20	53.07
23 33 13 23-0106	EA	36" x 24" Horizontally Mounted Backdraft Damper	435.26	57.44
23 33 13 23-0107	EA	36" x 28" Horizontally Mounted Backdraft Damper	444.27	66.34
23 33 13 23-0108	EA	36" x 32" Horizontally Mounted Backdraft Damper	479.32	66.34
23 33 13 23-0109	EA	36" x 36" Horizontally Mounted Backdraft Damper	527.61	70.71
23 33 13 23-0110	EA	36" x 40" Horizontally Mounted Backdraft Damper	575.93	75.10
23 33 13 23-0111	EA	36" x 44" Horizontally Mounted Backdraft Damper	576.05	79.47
23 33 13 23-0112	EA	36" x 48" Horizontally Mounted Backdraft Damper	620.00	83.98
23 33 13 23-0113	EA	36" x 52" Horizontally Mounted Backdraft Damper	650.64	83.98
23 33 13 23-0114	EA	36" x 56" Horizontally Mounted Backdraft Damper	633.25	88.36
23 33 13 23-0115	EA	36" x 60" Horizontally Mounted Backdraft Damper	659.52	88.36
23 33 13 23-0116	EA	36" x 64" Horizontally Mounted Backdraft Damper	699.06	92.74
23 33 13 23-0117	EA	36" x 68" Horizontally Mounted Backdraft Damper	725.33	92.74
23 33 13 23-0118	EA	36" x 72" Horizontally Mounted Backdraft Damper	751.64	92.74
23 33 13 23-0119	EA	40" x 6" Horizontally Mounted Backdraft Damper	242.93	26.54
23 33 13 23-0120	EA	40" x 8" Horizontally Mounted Backdraft Damper	324.21	33.17
23 33 13 23-0121	EA	40" x 10" Horizontally Mounted Backdraft Damper	276.49	35.29
23 33 13 23-0122	EA	40" x 12" Horizontally Mounted Backdraft Damper	323.81	39.80
23 33 13 23-0123	EA	40" x 14" Horizontally Mounted Backdraft Damper	371.14	44.18
23 33 13 23-0124	EA	40" x 16" Horizontally Mounted Backdraft Damper	340.61	48.56
23 33 13 23-0125	EA	40" x 18" Horizontally Mounted Backdraft Damper	378.20	53.07
23 33 13 23-0126	EA	40" x 20" Horizontally Mounted Backdraft Damper	415.78	57.44
23 33 13 23-0127	EA	40" x 24" Horizontally Mounted Backdraft Damper	419.34	61.83
23 33 13 23-0128	EA	40" x 28" Horizontally Mounted Backdraft Damper	471.54	66.34
23 33 13 23-0129	EA	40" x 32" Horizontally Mounted Backdraft Damper	523.73	70.71
23 33 13 23-0130	EA	40" x 36" Horizontally Mounted Backdraft Damper	575.93	75.10
23 33 13 23-0131	EA	40" x 40" Horizontally Mounted Backdraft Damper	579.46	79.47
23 33 13 23-0132	EA	40" x 44" Horizontally Mounted Backdraft Damper	626.79	83.98
23 33 13 23-0133	EA	40" x 48" Horizontally Mounted Backdraft Damper	660.88	83.98
23 33 13 23-0134	EA	40" x 50" Horizontally Mounted Backdraft Damper	630.33	88.36
23 33 13 23-0135	EA	44" x 6" Horizontally Mounted Backdraft Damper	271.62	28.66
23 33 13 23-0136	EA	44" x 8" Horizontally Mounted Backdraft Damper	256.05	35.29
23 33 13 23-0137	EA	44" x 10" Horizontally Mounted Backdraft Damper	306.78	39.80
23 33 13 23-0138	EA	44" x 12" Horizontally Mounted Backdraft Damper	357.52	44.18
23 33 13 23-0139	EA	44" x 14" Horizontally Mounted Backdraft Damper	333.29	48.56
23 33 13 23-0140	EA	44" x 16" Horizontally Mounted Backdraft Damper	373.33	53.07
23 33 13 23-0141	EA	44" x 18" Horizontally Mounted Backdraft Damper	400.10	53.07
23 33 13 23-0142	EA	44" x 20" Horizontally Mounted Backdraft Damper	440.13	57.44
23 33 13 23-0143	EA	44" x 24" Horizontally Mounted Backdraft Damper	455.96	66.34
23 33 13 23-0144	EA	44" x 28" Horizontally Mounted Backdraft Damper	512.04	70.71
23 33 13 23-0145	EA	44" x 32" Horizontally Mounted Backdraft Damper	568.14	75.10
23 33 13 23-0146	EA	44" x 36" Horizontally Mounted Backdraft Damper	576.05	79.47
23 33 13 23-0147	EA	44" x 40" Horizontally Mounted Backdraft Damper	626.79	83.98
23 33 13 23-0148	EA	44" x 44" Horizontally Mounted Backdraft Damper	664.25	83.98
23 33 13 23-0149	EA	44" x 48" Horizontally Mounted Backdraft Damper	650.77	88.36
23 33 13 23-0150	EA	44" x 50" Horizontally Mounted Backdraft Damper	666.80	88.36
23 33 13 23-0151	EA	48" x 6" Horizontally Mounted Backdraft Damper	295.11	30.91
23 33 13 23-0152	EA	48" x 8" Horizontally Mounted Backdraft Damper	269.67	35.29



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Air Distribution

23 30

Air Duct Accessories

23 33



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0153	EA		48" x 10" Horizontally Mounted Backdraft Damper.....	323.81	39.80
23 33 13 23-0154	EA		48" x 12" Horizontally Mounted Backdraft Damper.....	307.86	44.18
23 33 13 23-0155	EA		48" x 14" Horizontally Mounted Backdraft Damper.....	350.32	48.56
23 33 13 23-0156	EA		48" x 16" Horizontally Mounted Backdraft Damper.....	392.81	53.07
23 33 13 23-0157	EA		48" x 18" Horizontally Mounted Backdraft Damper.....	435.26	57.44
23 33 13 23-0158	EA		48" x 20" Horizontally Mounted Backdraft Damper.....	419.34	61.83
23 33 13 23-0159	EA		48" x 24" Horizontally Mounted Backdraft Damper.....	479.32	66.34
23 33 13 23-0160	EA		48" x 28" Horizontally Mounted Backdraft Damper.....	552.57	75.10
23 33 13 23-0161	EA		48" x 32" Horizontally Mounted Backdraft Damper.....	565.84	79.47
23 33 13 23-0162	EA		48" x 36" Horizontally Mounted Backdraft Damper.....	620.00	83.98
23 33 13 23-0163	EA		48" x 40" Horizontally Mounted Backdraft Damper.....	660.88	83.98
23 33 13 23-0164	EA		48" x 44" Horizontally Mounted Backdraft Damper.....	650.77	88.36
23 33 13 23-0165	EA		48" x 48" Horizontally Mounted Backdraft Damper.....	699.06	92.74
23 33 13 23-0166	EA		48" x 50" Horizontally Mounted Backdraft Damper.....	716.58	92.74
23 33 13 23-0167	EA		50" x 6" Horizontally Mounted Backdraft Damper.....	303.54	30.91
23 33 13 23-0168	EA		50" x 8" Horizontally Mounted Backdraft Damper.....	289.75	39.80
23 33 13 23-0169	EA		50" x 10" Horizontally Mounted Backdraft Damper.....	345.61	44.18
23 33 13 23-0170	EA		50" x 12" Horizontally Mounted Backdraft Damper.....	328.42	48.56
23 33 13 23-0171	EA		50" x 14" Horizontally Mounted Backdraft Damper.....	372.12	53.07
23 33 13 23-0172	EA		50" x 16" Horizontally Mounted Backdraft Damper.....	415.78	57.44
23 33 13 23-0173	EA		50" x 18" Horizontally Mounted Backdraft Damper.....	459.47	61.83
23 33 13 23-0174	EA		50" x 20" Horizontally Mounted Backdraft Damper.....	442.31	66.34
23 33 13 23-0175	EA		50" x 24" Horizontally Mounted Backdraft Damper.....	504.25	70.71
23 33 13 23-0176	EA		50" x 28" Horizontally Mounted Backdraft Damper.....	566.19	75.10
23 33 13 23-0177	EA		50" x 32" Horizontally Mounted Backdraft Damper.....	579.46	79.47
23 33 13 23-0178	EA		50" x 36" Horizontally Mounted Backdraft Damper.....	635.32	83.98
23 33 13 23-0179	EA		50" x 40" Horizontally Mounted Backdraft Damper.....	630.33	88.36
23 33 13 23-0180	EA		50" x 44" Horizontally Mounted Backdraft Damper.....	666.80	88.36
23 33 13 23-0181	EA		50" x 48" Horizontally Mounted Backdraft Damper.....	716.58	92.74
23 33 13 23-0182	EA		50" x 50" Horizontally Mounted Backdraft Damper.....	734.82	92.74
23 33 13 23-0183 Vertically Mounted Backdraft Damper (23 33 13 23)					
Note: Galvanized steel frame, aluminum blades. Excludes motor pack.					
23 33 13 23-0184	EA		6" x 6" Vertically Mounted Backdraft Damper.....	131.70	14.73
23 33 13 23-0185	EA		8" x 6" Vertically Mounted Backdraft Damper.....	162.89	15.39
23 33 13 23-0186	EA		10" x 6" Vertically Mounted Backdraft Damper.....	168.02	15.52
23 33 13 23-0187	EA		8" x 8" Vertically Mounted Backdraft Damper.....	176.13	15.52
23 33 13 23-0188	EA		12" x 6" Vertically Mounted Backdraft Damper.....	193.67	15.93
23 33 13 23-0189	EA		10" x 8" Vertically Mounted Backdraft Damper.....	215.18	17.65
23 33 13 23-0190	EA		14" x 6" Vertically Mounted Backdraft Damper.....	217.98	15.93
23 33 13 23-0191	EA		12" x 8" Vertically Mounted Backdraft Damper.....	247.60	17.65
23 33 13 23-0192	EA		16" x 6" Vertically Mounted Backdraft Damper.....	250.25	18.57
23 33 13 23-0193	EA		10" x 10" Vertically Mounted Backdraft Damper.....	262.34	19.90
23 33 13 23-0194	EA		18" x 6" Vertically Mounted Backdraft Damper.....	210.39	16.85
23 33 13 23-0195	EA		14" x 8" Vertically Mounted Backdraft Damper.....	221.63	18.57
23 33 13 23-0196	EA		12" x 10" Vertically Mounted Backdraft Damper.....	237.46	19.90
23 33 13 23-0197	EA		20" x 6" Vertically Mounted Backdraft Damper.....	244.09	22.15
23 33 13 23-0198	EA		16" x 8" Vertically Mounted Backdraft Damper.....	262.57	24.27
23 33 13 23-0199	EA		14" x 10" Vertically Mounted Backdraft Damper.....	260.43	17.65
23 33 13 23-0200	EA		12" x 12" Vertically Mounted Backdraft Damper.....	273.01	19.90
23 33 13 23-0201	EA		18" x 8" Vertically Mounted Backdraft Damper.....	236.13	22.15
23 33 13 23-0202	EA		24" x 6" Vertically Mounted Backdraft Damper.....	236.13	22.15
23 33 13 23-0203	EA		16" x 10" Vertically Mounted Backdraft Damper.....	261.61	24.27
23 33 13 23-0204	EA		20" x 8" Vertically Mounted Backdraft Damper.....	268.24	26.54
23 33 13 23-0205	EA		14" x 12" Vertically Mounted Backdraft Damper.....	253.77	18.57
23 33 13 23-0206	EA		28" x 6" Vertically Mounted Backdraft Damper.....	257.76	19.90
23 33 13 23-0207	EA		18" x 10" Vertically Mounted Backdraft Damper.....	278.54	22.15
23 33 13 23-0208	EA		16" x 12" Vertically Mounted Backdraft Damper.....	299.33	24.27
23 33 13 23-0209	EA		24" x 8" Vertically Mounted Backdraft Damper.....	305.96	26.54
23 33 13 23-0210	EA		32" x 6" Vertically Mounted Backdraft Damper.....	312.58	28.66
23 33 13 23-0211	EA		14" x 14" Vertically Mounted Backdraft Damper.....	330.57	33.17
23 33 13 23-0212	EA		20" x 10" Vertically Mounted Backdraft Damper.....	325.55	35.29
23 33 13 23-0213	EA		18" x 12" Vertically Mounted Backdraft Damper.....	356.38	39.80
23 33 13 23-0214	EA		36" x 6" Vertically Mounted Backdraft Damper.....	296.69	19.90
23 33 13 23-0215	EA		16" x 14" Vertically Mounted Backdraft Damper.....	312.10	22.15
23 33 13 23-0216	EA		28" x 8" Vertically Mounted Backdraft Damper.....	318.74	24.27
23 33 13 23-0217	EA		20" x 12" Vertically Mounted Backdraft Damper.....	342.89	26.54
23 33 13 23-0218	EA		24" x 10" Vertically Mounted Backdraft Damper.....	349.51	28.66
23 33 13 23-0219	EA		40" x 6" Vertically Mounted Backdraft Damper.....	356.15	30.91
23 33 13 23-0220	EA		18" x 14" Vertically Mounted Backdraft Damper.....	382.61	35.29
23 33 13 23-0221	EA		16" x 16" Vertically Mounted Backdraft Damper.....	386.98	35.29
23 33 13 23-0222	EA		32" x 8" Vertically Mounted Backdraft Damper.....	400.24	39.80
23 33 13 23-0223	EA		44" x 6" Vertically Mounted Backdraft Damper.....	422.29	44.18
23 33 13 23-0224	EA		20" x 14" Vertically Mounted Backdraft Damper.....	453.13	48.56
23 33 13 23-0225	EA		28" x 10" Vertically Mounted Backdraft Damper.....	466.40	53.07
23 33 13 23-0226	EA		18" x 16" Vertically Mounted Backdraft Damper.....	382.31	22.15
23 33 13 23-0227	EA		24" x 12" Vertically Mounted Backdraft Damper.....	388.95	24.27
23 33 13 23-0228	EA		36" x 8" Vertically Mounted Backdraft Damper.....	395.58	26.54
23 33 13 23-0229	EA		48" x 6" Vertically Mounted Backdraft Damper.....	402.20	28.66
23 33 13 23-0230	EA		50" x 6" Vertically Mounted Backdraft Damper.....	428.62	33.17

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT
 UNIT COST
 DEMOLITION
 UNIT COST

23 33 13 23-0231	EA	20" x 16" Vertically Mounted Backdraft Damper	457.19	35.29
23 33 13 23-0232	EA	32" x 10" Vertically Mounted Backdraft Damper	470.45	39.80
23 33 13 23-0233	EA	40" x 8" Vertically Mounted Backdraft Damper	470.45	39.80
23 33 13 23-0234	EA	18" x 18" Vertically Mounted Backdraft Damper	413.51	44.18
23 33 13 23-0235	EA	24" x 14" Vertically Mounted Backdraft Damper	387.79	48.56
23 33 13 23-0236	EA	28" x 12" Vertically Mounted Backdraft Damper	401.06	53.07
23 33 13 23-0237	EA	44" x 8" Vertically Mounted Backdraft Damper	425.84	57.44
23 33 13 23-0238	EA	18" x 20" Vertically Mounted Backdraft Damper	444.86	61.83
23 33 13 23-0239	EA	20" x 18" Vertically Mounted Backdraft Damper	458.13	66.34
23 33 13 23-0240	EA	36" x 10" Vertically Mounted Backdraft Damper	458.13	66.34
23 33 13 23-0241	EA	24" x 16" Vertically Mounted Backdraft Damper	342.74	22.15
23 33 13 23-0242	EA	32" x 12" Vertically Mounted Backdraft Damper	349.38	24.27
23 33 13 23-0243	EA	48" x 8" Vertically Mounted Backdraft Damper	362.63	28.66
23 33 13 23-0244	EA	28" x 14" Vertically Mounted Backdraft Damper	381.66	33.17
23 33 13 23-0245	EA	20" x 20" Vertically Mounted Backdraft Damper	394.06	35.29
23 33 13 23-0246	EA	40" x 10" Vertically Mounted Backdraft Damper	407.32	39.80
23 33 13 23-0247	EA	50" x 8" Vertically Mounted Backdraft Damper	420.59	44.18
23 33 13 23-0248	EA	18" x 24" Vertically Mounted Backdraft Damper	443.62	44.18
23 33 13 23-0249	EA	24" x 18" Vertically Mounted Backdraft Damper	456.89	48.56
23 33 13 23-0250	EA	36" x 12" Vertically Mounted Backdraft Damper	470.16	53.07
23 33 13 23-0251	EA	44" x 10" Vertically Mounted Backdraft Damper	489.19	57.44
23 33 13 23-0252	EA	28" x 16" Vertically Mounted Backdraft Damper	521.48	66.34
23 33 13 23-0253	EA	32" x 14" Vertically Mounted Backdraft Damper	521.48	66.34
23 33 13 23-0254	EA	20" x 24" Vertically Mounted Backdraft Damper	560.67	70.71
23 33 13 23-0255	EA	24" x 20" Vertically Mounted Backdraft Damper	520.90	75.10
23 33 13 23-0256	EA	40" x 12" Vertically Mounted Backdraft Damper	520.90	75.10
23 33 13 23-0257	EA	48" x 10" Vertically Mounted Backdraft Damper	534.17	79.47
23 33 13 23-0258	EA	50" x 10" Vertically Mounted Backdraft Damper	546.47	79.47
23 33 13 23-0259	EA	28" x 18" Vertically Mounted Backdraft Damper	383.08	24.27
23 33 13 23-0260	EA	36" x 14" Vertically Mounted Backdraft Damper	396.33	28.66
23 33 13 23-0261	EA	32" x 16" Vertically Mounted Backdraft Damper	407.91	30.91
23 33 13 23-0262	EA	44" x 12" Vertically Mounted Backdraft Damper	430.99	35.29
23 33 13 23-0263	EA	20" x 28" Vertically Mounted Backdraft Damper	463.95	39.80
23 33 13 23-0264	EA	28" x 20" Vertically Mounted Backdraft Damper	477.22	44.18
23 33 13 23-0265	EA	40" x 14" Vertically Mounted Backdraft Damper	477.22	44.18
23 33 13 23-0266	EA	24" x 24" Vertically Mounted Backdraft Damper	500.34	48.56
23 33 13 23-0267	EA	32" x 18" Vertically Mounted Backdraft Damper	513.61	53.07
23 33 13 23-0268	EA	36" x 16" Vertically Mounted Backdraft Damper	526.88	57.44
23 33 13 23-0269	EA	48" x 12" Vertically Mounted Backdraft Damper	553.41	66.34
23 33 13 23-0270	EA	50" x 12" Vertically Mounted Backdraft Damper	568.20	66.34
23 33 13 23-0271	EA	44" x 14" Vertically Mounted Backdraft Damper	591.31	70.71
23 33 13 23-0272	EA	20" x 32" Vertically Mounted Backdraft Damper	619.34	75.10
23 33 13 23-0273	EA	32" x 20" Vertically Mounted Backdraft Damper	632.61	79.47
23 33 13 23-0274	EA	40" x 16" Vertically Mounted Backdraft Damper	632.61	79.47
23 33 13 23-0275	EA	36" x 18" Vertically Mounted Backdraft Damper	650.78	83.98
23 33 13 23-0276	EA	24" x 28" Vertically Mounted Backdraft Damper	668.02	83.98
23 33 13 23-0277	EA	28" x 24" Vertically Mounted Backdraft Damper	645.62	88.36
23 33 13 23-0278	EA	48" x 14" Vertically Mounted Backdraft Damper	645.62	88.36
23 33 13 23-0279	EA	50" x 14" Vertically Mounted Backdraft Damper	674.74	92.74
23 33 13 23-0280	EA	44" x 16" Vertically Mounted Backdraft Damper	471.35	24.27
23 33 13 23-0281	EA	20" x 36" Vertically Mounted Backdraft Damper	500.31	30.91
23 33 13 23-0282	EA	36" x 20" Vertically Mounted Backdraft Damper	513.58	35.29
23 33 13 23-0283	EA	40" x 18" Vertically Mounted Backdraft Damper	526.84	39.80
23 33 13 23-0284	EA	24" x 32" Vertically Mounted Backdraft Damper	567.27	44.18
23 33 13 23-0285	EA	32" x 24" Vertically Mounted Backdraft Damper	567.27	44.18
23 33 13 23-0286	EA	48" x 16" Vertically Mounted Backdraft Damper	580.54	48.56
23 33 13 23-0287	EA	28" x 28" Vertically Mounted Backdraft Damper	602.87	53.07
23 33 13 23-0288	EA	44" x 18" Vertically Mounted Backdraft Damper	620.66	57.44
23 33 13 23-0289	EA	40" x 20" Vertically Mounted Backdraft Damper	651.70	66.34
23 33 13 23-0290	EA	50" x 16" Vertically Mounted Backdraft Damper	651.70	66.34
23 33 13 23-0291	EA	24" x 36" Vertically Mounted Backdraft Damper	701.20	70.71
23 33 13 23-0292	EA	36" x 24" Vertically Mounted Backdraft Damper	714.47	75.10
23 33 13 23-0293	EA	48" x 18" Vertically Mounted Backdraft Damper	727.74	79.47
23 33 13 23-0294	EA	44" x 20" Vertically Mounted Backdraft Damper	750.07	83.98
23 33 13 23-0295	EA	28" x 32" Vertically Mounted Backdraft Damper	759.14	83.98
23 33 13 23-0296	EA	32" x 28" Vertically Mounted Backdraft Damper	772.39	88.36
23 33 13 23-0297	EA	50" x 18" Vertically Mounted Backdraft Damper	774.63	88.36
23 33 13 23-0298	EA	24" x 40" Vertically Mounted Backdraft Damper	821.85	92.74
23 33 13 23-0299	EA	40" x 24" Vertically Mounted Backdraft Damper	821.85	92.74
23 33 13 23-0300	EA	48" x 20" Vertically Mounted Backdraft Damper	821.85	92.74
23 33 13 23-0301	EA	50" x 20" Vertically Mounted Backdraft Damper	645.49	26.54
23 33 13 23-0302	EA	28" x 36" Vertically Mounted Backdraft Damper	669.90	33.17
23 33 13 23-0303	EA	36" x 28" Vertically Mounted Backdraft Damper	676.54	35.29
23 33 13 23-0304	EA	32" x 32" Vertically Mounted Backdraft Damper	698.86	39.80
23 33 13 23-0305	EA	24" x 44" Vertically Mounted Backdraft Damper	665.63	44.18
23 33 13 23-0306	EA	44" x 24" Vertically Mounted Backdraft Damper	678.90	48.56
23 33 13 23-0307	EA	28" x 40" Vertically Mounted Backdraft Damper	724.45	53.07
23 33 13 23-0308	EA	40" x 28" Vertically Mounted Backdraft Damper	737.72	57.44
23 33 13 23-0309	EA	24" x 48" Vertically Mounted Backdraft Damper	767.16	61.83
23 33 13 23-0310	EA	32" x 36" Vertically Mounted Backdraft Damper	780.43	66.34
23 33 13 23-0311	EA	36" x 32" Vertically Mounted Backdraft Damper	793.70	70.71



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
23 33 13 23-0312	EA	48" x 24" Vertically Mounted Backdraft Damper	806.97	75.10	
23 33 13 23-0313	EA	50" x 24" Vertically Mounted Backdraft Damper	844.45	79.47	
23 33 13 23-0314	EA	28" x 44" Vertically Mounted Backdraft Damper	873.86	83.98	
23 33 13 23-0315	EA	44" x 28" Vertically Mounted Backdraft Damper	873.86	83.98	
23 33 13 23-0316	EA	32" x 40" Vertically Mounted Backdraft Damper	911.35	88.36	
23 33 13 23-0317	EA	40" x 32" Vertically Mounted Backdraft Damper	732.24	28.66	
23 33 13 23-0318	EA	36" x 36" Vertically Mounted Backdraft Damper	760.22	35.29	
23 33 13 23-0319	EA	28" x 48" Vertically Mounted Backdraft Damper	797.69	39.80	
23 33 13 23-0320	EA	48" x 28" Vertically Mounted Backdraft Damper	810.96	44.18	
23 33 13 23-0321	EA	50" x 28" Vertically Mounted Backdraft Damper	852.49	48.56	
23 33 13 23-0322	EA	32" x 44" Vertically Mounted Backdraft Damper	869.82	53.07	
23 33 13 23-0323	EA	44" x 32" Vertically Mounted Backdraft Damper	869.82	53.07	
23 33 13 23-0324	EA	36" x 40" Vertically Mounted Backdraft Damper	901.25	57.44	
23 33 13 23-0325	EA	40" x 36" Vertically Mounted Backdraft Damper	853.09	66.34	
23 33 13 23-0326	EA	28" x 52" Vertically Mounted Backdraft Damper	873.61	70.71	
23 33 13 23-0327	EA	32" x 48" Vertically Mounted Backdraft Damper	923.22	75.10	
23 33 13 23-0328	EA	48" x 32" Vertically Mounted Backdraft Damper	936.49	79.47	
23 33 13 23-0329	EA	28" x 56" Vertically Mounted Backdraft Damper	964.30	83.98	
23 33 13 23-0330	EA	36" x 44" Vertically Mounted Backdraft Damper	971.58	83.98	
23 33 13 23-0331	EA	44" x 36" Vertically Mounted Backdraft Damper	984.83	88.36	
23 33 13 23-0332	EA	40" x 40" Vertically Mounted Backdraft Damper	992.09	88.36	
23 33 13 23-0333	EA	50" x 32" Vertically Mounted Backdraft Damper	819.62	30.91	
23 33 13 23-0334	EA	32" x 52" Vertically Mounted Backdraft Damper	861.97	35.29	
23 33 13 23-0335	EA	28" x 60" Vertically Mounted Backdraft Damper	882.48	39.80	
23 33 13 23-0336	EA	36" x 48" Vertically Mounted Backdraft Damper	917.58	44.18	
23 33 13 23-0337	EA	48" x 36" Vertically Mounted Backdraft Damper	930.85	48.56	
23 33 13 23-0338	EA	40" x 44" Vertically Mounted Backdraft Damper	958.65	53.07	
23 33 13 23-0339	EA	44" x 40" Vertically Mounted Backdraft Damper	971.92	57.44	
23 33 13 23-0340	EA	32" x 56" Vertically Mounted Backdraft Damper	999.69	61.83	
23 33 13 23-0341	EA	50" x 36" Vertically Mounted Backdraft Damper	925.76	66.34	
23 33 13 23-0342	EA	36" x 52" Vertically Mounted Backdraft Damper	981.38	75.10	
23 33 13 23-0343	EA	32" x 60" Vertically Mounted Backdraft Damper	1,014.02	79.47	
23 33 13 23-0344	EA	40" x 48" Vertically Mounted Backdraft Damper	1,027.29	83.98	
23 33 13 23-0345	EA	48" x 40" Vertically Mounted Backdraft Damper	1,027.29	83.98	
23 33 13 23-0346	EA	44" x 44" Vertically Mounted Backdraft Damper	1,047.01	88.36	
23 33 13 23-0347	EA	40" x 50" Vertically Mounted Backdraft Damper	1,086.12	92.74	
23 33 13 23-0348	EA	50" x 40" Vertically Mounted Backdraft Damper	1,086.12	92.74	
23 33 13 23-0349	EA	36" x 56" Vertically Mounted Backdraft Damper	906.82	30.91	
23 33 13 23-0350	EA	32" x 64" Vertically Mounted Backdraft Damper	946.29	39.80	
23 33 13 23-0351	EA	44" x 48" Vertically Mounted Backdraft Damper	985.40	44.18	
23 33 13 23-0352	EA	48" x 44" Vertically Mounted Backdraft Damper	998.67	48.56	
23 33 13 23-0353	EA	36" x 60" Vertically Mounted Backdraft Damper	1,031.32	53.07	
23 33 13 23-0354	EA	32" x 68" Vertically Mounted Backdraft Damper	1,051.06	57.44	
23 33 13 23-0355	EA	44" x 50" Vertically Mounted Backdraft Damper	962.97	61.83	
23 33 13 23-0356	EA	50" x 44" Vertically Mounted Backdraft Damper	976.24	66.34	
23 33 13 23-0357	EA	32" x 72" Vertically Mounted Backdraft Damper	1,026.23	70.71	
23 33 13 23-0358	EA	36" x 64" Vertically Mounted Backdraft Damper	1,039.50	75.10	
23 33 13 23-0359	EA	48" x 48" Vertically Mounted Backdraft Damper	1,052.77	79.47	
23 33 13 23-0360	EA	48" x 50" Vertically Mounted Backdraft Damper	1,099.95	83.98	
23 33 13 23-0361	EA	50" x 48" Vertically Mounted Backdraft Damper	1,113.20	88.36	
23 33 13 23-0362	EA	36" x 68" Vertically Mounted Backdraft Damper	1,130.16	88.36	
23 33 13 23-0363	EA	50" x 50" Vertically Mounted Backdraft Damper	1,161.81	92.74	
23 33 13 23-0364	EA	36" x 72" Vertically Mounted Backdraft Damper	1,194.30	92.74	
23 33 13 23-0365 Backdraft Damper Accessories (23 33 13 23)					
23 33 13 23-0366	EA	For Motor Pack For Horizontally Mounted Backdraft Damper	328.37	34.43	
23 33 13 23-0367	EA	For Motor Pack For Vertically Mounted Backdraft Damper	566.56	34.43	
23 33 13 33 Splitter Damper Hardware (23 33 13)					
23 33 13 33-0001	EA	Splitter Damper, Hardware	47.81	9.27	
23 33 13 43 Blower Check Valve (23 33 13)					
23 33 13 43-0001 Blower Check Valves With Silicone Seals (23 33 13 43)					
23 33 13 43-0002	EA	2-1/2" Blower Check Valves, Silicone Seals	307.74	34.23	
23 33 13 43-0003	EA	3" Blower Check Valves, Silicone Seals	343.58	39.00	
23 33 13 43-0004	EA	4" Blower Check Valves, Silicone Seals	441.24	51.74	
23 33 13 43-0005	EA	5" Blower Check Valves, Silicone Seals	610.17	59.71	
23 33 13 43-0006	EA	6" Blower Check Valves, Silicone Seals	683.47	71.65	
23 33 13 43-0007	EA	8" Blower Check Valves, Silicone Seals	1,019.40	90.75	
23 33 13 43-0008 Blower Check Valves With Viton Seats (23 33 13 43)					
23 33 13 43-0009	EA	2-1/2" Blower Check Valves, Viton Seats	426.12	34.23	
23 33 13 43-0010	EA	3" Blower Check Valves, Viton Seats	484.27	39.00	
23 33 13 43-0011	EA	4" Blower Check Valves, Viton Seats	539.20	51.74	
23 33 13 43-0012	EA	5" Blower Check Valves, Viton Seats	756.83	59.71	
23 33 13 43-0013	EA	6" Blower Check Valves, Viton Seats	845.36	71.65	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

23 33 13 43-0014 EA 8" Blower Check Valves, Viton Seats 1,305.78 90.75

23 33 19 Duct Silencers (23 33)**23 33 19 00-0001 36" Long Packaged Duct Sound Trap (23 33 19)**

23 33 19 00-0002	EA	12" x 12" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	402.15	54.30
23 33 19 00-0003	EA	12" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	483.56	62.25
23 33 19 00-0004	EA	12" x 24" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	627.74	71.52
23 33 19 00-0005	EA	12" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	763.80	80.80
23 33 19 00-0006	EA	24" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	706.51	80.80
23 33 19 00-0007	EA	24" x 24" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	903.56	84.76
23 33 19 00-0008	EA	24" x 30" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	998.38	90.06
23 33 19 00-0009	EA	24" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	1,095.84	95.36
23 33 19 00-0010	EA	24" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	1,438.08	108.60
23 33 19 00-0011	EA	36" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	897.24	90.06
23 33 19 00-0012	EA	36" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	1,212.21	108.60
23 33 19 00-0013	EA	36" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	2,149.09	145.69
23 33 19 00-0014	EA	36" x 60" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	2,377.81	153.63
23 33 19 00-0015	EA	48" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	2,654.63	165.56
23 33 19 00-0016	EA	48" x 60" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	2,981.16	180.13

23 33 19 00-0017 60" Long Packaged Duct Sound Trap (23 33 19)

23 33 19 00-0018	EA	12" x 12" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	449.10	119.20
23 33 19 00-0019	EA	12" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	541.54	137.74
23 33 19 00-0020	EA	12" x 24" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	704.80	158.93
23 33 19 00-0021	EA	12" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	857.68	178.80
23 33 19 00-0022	EA	24" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	792.55	178.80
23 33 19 00-0023	EA	24" x 24" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,018.18	189.39
23 33 19 00-0024	EA	24" x 30" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,121.39	198.66
23 33 19 00-0025	EA	24" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,226.58	209.26
23 33 19 00-0026	EA	24" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,618.43	238.40
23 33 19 00-0027	EA	36" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,006.46	198.66
23 33 19 00-0028	EA	36" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,361.75	238.40
23 33 19 00-0029	EA	36" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	2,408.76	313.89
23 33 19 00-0030	EA	36" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	2,688.57	340.38
23 33 19 00-0031	EA	48" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	2,986.52	361.57
23 33 19 00-0032	EA	48" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	3,361.41	397.34

23 33 19 00-0033 84" Long Packaged Duct Sound Trap (23 33 19)

23 33 19 00-0034	EA	6" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	386.38	99.33
23 33 19 00-0035	EA	6" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	661.93	148.34
23 33 19 00-0036	EA	6" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	923.81	217.21
23 33 19 00-0037	EA	12" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	521.89	119.20
23 33 19 00-0038	EA	12" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	648.80	137.74
23 33 19 00-0039	EA	12" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	881.02	158.93
23 33 19 00-0040	EA	12" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,041.64	170.85
23 33 19 00-0041	EA	12" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,136.78	184.10
23 33 19 00-0042	EA	12" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,431.70	198.66
23 33 19 00-0043	EA	12" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,693.84	217.21
23 33 19 00-0044	EA	24" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	975.88	184.10
23 33 19 00-0045	EA	24" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,392.05	192.04
23 33 19 00-0046	EA	24" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,519.81	198.66
23 33 19 00-0047	EA	24" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,655.65	209.26
23 33 19 00-0048	EA	24" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	2,077.97	225.16
23 33 19 00-0049	EA	24" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	2,254.37	238.40

23 33 23 Turning Vanes (23 33)**23 33 23 00-0001 Duct Turning Vane Components (23 33 23)**

23 33 23 00-0002	LF	Duct Turning Vane Rail	14.82	3.31
		<i>For Stainless Steel, Add</i>	9.54	
23 33 23 00-0003	LF	Double Thick Factory Fabricated, Duct Turning Vane	14.72	1.33
		<i>For Stainless Steel, Add</i>	14.36	

23 33 23 00-0004 Duct Turning Vane Sets (23 33 23)

Note: Measured from inside corner to outside corner of ductwork.

23 33 23 00-0005	LF	12" High Duct Turning Vanes, Sets	61.18	4.97
		<i>For Stainless Steel, Add</i>	65.96	
23 33 23 00-0006	LF	14" High Duct Turning Vanes, Sets	76.16	5.29
		<i>For Stainless Steel, Add</i>	83.45	
23 33 23 00-0007	LF	16" High Duct Turning Vanes, Sets	104.37	5.56
		<i>For Stainless Steel, Add</i>	116.83	
23 33 23 00-0008	LF	18" High Duct Turning Vanes, Sets	132.63	5.96
		<i>For Stainless Steel, Add</i>	150.22	
23 33 23 00-0009	LF	20" High Duct Turning Vanes, Sets	147.03	6.36
		<i>For Stainless Steel, Add</i>	166.90	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Duct Accessories			23 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 23 00-0010	LF		22" High Duct Turning Vanes, Sets <i>For Stainless Steel, Add</i>	188.27 217.00	5.96
23 33 23 00-0011	LF		24" High Duct Turning Vanes, Sets <i>For Stainless Steel, Add</i>	231.38 267.06	7.02
23 33 23 00-0012	LF		26" High Duct Turning Vanes, Sets <i>For Stainless Steel, Add</i>	248.47 287.16	7.34
23 33 23 00-0013	LF		30" High Duct Turning Vanes, Sets <i>For Stainless Steel, Add</i>	277.55 321.61	7.63
23 33 33 Duct-Mounting Access Doors (23 33)					
23 33 33 00-0001 Duct Access Doors, Insulated Factory Fabrication (23 33 33)					
23 33 33 00-0002	EA		6" x 6" Duct Access Doors Insulated Factory Fabrication <i>For Stainless Steel, Add</i>	105.69 54.58	18.55
23 33 33 00-0003	EA		10" x 10" Duct Access Doors Insulated Factory Fabrication <i>For Stainless Steel, Add</i>	112.24 66.05	18.55
23 33 33 00-0004	EA		12" x 12" Duct Access Doors Insulated Factory Fabrication <i>For Stainless Steel, Add</i>	115.44 71.65	18.55
23 33 33 00-0005	EA		12" x 18" Duct Access Doors Insulated Factory Fabrication <i>For Stainless Steel, Add</i>	149.42 101.03	22.51
23 33 33 00-0006	EA		16" x 12" Duct Access Doors Insulated Factory Fabrication <i>For Stainless Steel, Add</i>	150.72 103.30	22.51
23 33 33 00-0007	EA		18" x 18" Duct Access Doors Insulated Factory Fabrication <i>For Stainless Steel, Add</i>	187.13 118.88	30.46
23 33 33 00-0008	EA		24" x 18" Duct Access Doors Insulated Factory Fabrication <i>For Stainless Steel, Add</i>	222.16 128.03	37.08
23 33 33 00-0009	EA		24" x 24" Duct Access Doors Insulated Factory Fabrication <i>For Stainless Steel, Add</i>	288.48 157.19	50.32
23 33 43 Flexible Connectors (23 33)					
23 33 43 00-0001	LF		6-1/2" Width, Galvanized Steel, Flexible Duct Connector	16.81	3.97
23 33 43 00-0002	LF		5-3/4" Width, Vinyl/Steel, Flexible Duct Connector	17.27	3.57
23 33 46 Flexible Ducts (23 33)					
23 33 46 00-0001 Flexible Duct, R8.0 Insulated With Metallized Outer Jacket (23 33 46)					
Note: Polyester inner liner encapsulating a corrosion resistant steel wire helix, supporting a blanket of fiberglass insulation over a fiberglass scrim and a bi-directional reinforced metallized outer vapor barrier jacket.					
23 33 46 00-0002	LF		4" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket	9.30	1.33
			<i>For R6.0 Insulated Flexible Duct, Deduct</i>	-0.92	
			<i>For R4.2 Insulated Flexible Duct, Deduct</i>	-1.07	
23 33 46 00-0003	LF		5" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket	10.26	2.65
			<i>For R6.0 Insulated Flexible Duct, Deduct</i>	-0.97	
			<i>For R4.2 Insulated Flexible Duct, Deduct</i>	-1.13	
23 33 46 00-0004	LF		6" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket	11.53	2.65
			<i>For R6.0 Insulated Flexible Duct, Deduct</i>	-1.00	
			<i>For R4.2 Insulated Flexible Duct, Deduct</i>	-1.16	
23 33 46 00-0005	LF		7" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket	13.38	2.65
			<i>For R6.0 Insulated Flexible Duct, Deduct</i>	-1.11	
			<i>For R4.2 Insulated Flexible Duct, Deduct</i>	-1.30	
23 33 46 00-0006	LF		8" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket	15.66	3.97
			<i>For R6.0 Insulated Flexible Duct, Deduct</i>	-1.12	
			<i>For R4.2 Insulated Flexible Duct, Deduct</i>	-1.31	
23 33 46 00-0007	LF		10" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket	20.27	3.97
			<i>For R6.0 Insulated Flexible Duct, Deduct</i>	-1.51	
			<i>For R4.2 Insulated Flexible Duct, Deduct</i>	-1.76	
23 33 46 00-0008	LF		12" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket	27.18	5.29
			<i>For R6.0 Insulated Flexible Duct, Deduct</i>	-1.80	
			<i>For R4.2 Insulated Flexible Duct, Deduct</i>	-2.10	
23 33 46 00-0009	LF		14" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket	33.80	5.29
			<i>For R6.0 Insulated Flexible Duct, Deduct</i>	-2.19	
			<i>For R4.2 Insulated Flexible Duct, Deduct</i>	-2.56	
23 33 46 00-0010	LF		16" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket	44.10	6.62
			<i>For R6.0 Insulated Flexible Duct, Deduct</i>	-2.62	
			<i>For R4.2 Insulated Flexible Duct, Deduct</i>	-3.06	
23 33 46 00-0011	LF		18" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket	53.76	8.61
			<i>For R6.0 Insulated Flexible Duct, Deduct</i>	-3.41	
			<i>For R4.2 Insulated Flexible Duct, Deduct</i>	-3.98	
23 33 46 00-0012	LF		20" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket	63.51	9.27
			<i>For R6.0 Insulated Flexible Duct, Deduct</i>	-5.15	
			<i>For R4.2 Insulated Flexible Duct, Deduct</i>	-6.00	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

23 33 46 00-0013 Collars, Sheet Metal Spin-In Type With Damper (23 33 46)

23 33 46 00-0014	EA	Up To 4" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	51.48	7.95
		<i>For Stainless Steel, Add</i>	26.02	
23 33 46 00-0015	EA	5" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	56.01	9.27
		<i>For Stainless Steel, Add</i>	26.35	
23 33 46 00-0016	EA	6" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	63.95	9.27
		<i>For Stainless Steel, Add</i>	29.06	
23 33 46 00-0017	EA	7" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	72.67	11.92
		<i>For Stainless Steel, Add</i>	29.99	
23 33 46 00-0018	EA	8" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	87.83	14.57
		<i>For Stainless Steel, Add</i>	33.88	
23 33 46 00-0019	EA	10" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	102.92	17.22
		<i>For Stainless Steel, Add</i>	41.76	
23 33 46 00-0020	EA	12" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	116.97	19.86
		<i>For Stainless Steel, Add</i>	45.00	
23 33 46 00-0021	EA	14" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	138.33	22.51
		<i>For Stainless Steel, Add</i>	56.34	
23 33 46 00-0022	EA	16" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	150.70	25.17
		<i>For Stainless Steel, Add</i>	61.64	

23 33 53 Duct Liners (23 33)**23 33 53 00-0001 Fiberglass Duct Liner Board, Rigid, Acoustical Insulation (23 33 53)**

23 33 53 00-0002	SF	1/2" Field Installed, 3 Lb./CF, Fiberglass Duct Liner Board	12.49	3.49
23 33 53 00-0003	SF	3/4" Field Installed, 3 Lb./CF, Fiberglass Duct Liner Board	13.65	3.49
23 33 53 00-0004	SF	1" Field Installed, 3 Lb./CF, Fiberglass Duct Liner Board	15.12	4.66
23 33 53 00-0005	SF	1-1/2" Field Installed, 3 Lb./CF, Fiberglass Duct Liner Board	18.47	4.66
23 33 53 00-0006	SF	2" Field Installed, 3 Lb./CF, Fiberglass Duct Liner Board	22.27	5.25
23 33 53 00-0007	SF	1/2" Shop Installed, 3 Lb./CF, Fiberglass Duct Liner Board	12.37	3.97
23 33 53 00-0008	SF	3/4" Shop Installed, 3 Lb./CF, Fiberglass Duct Liner Board	13.53	3.97
23 33 53 00-0009	SF	1" Shop Installed, 3 Lb./CF, Fiberglass Duct Liner Board	15.03	5.29
23 33 53 00-0010	SF	1-1/2" Shop Installed, 3 Lb./CF, Fiberglass Duct Liner Board	18.23	5.29
23 33 53 00-0011	SF	2" Shop Installed, 3 Lb./CF, Fiberglass Duct Liner Board	22.08	5.96

23 33 53 00-0012 Fiberglass Duct Liner Blanket, Flexible, Acoustical Insulation (23 33 53)

23 33 53 00-0013	SF	1/2", R2, 2 Lb./CF, T200, Fiberglass Duct Liner Blanket	2.29	3.18
23 33 53 00-0014	SF	1", R3.8, 1.5 Lb./CF, T150, Fiberglass Duct Liner Blanket	2.88	3.57
23 33 53 00-0015	SF	1", R4.1, 2 Lb./CF, T200, Fiberglass Duct Liner Blanket	3.17	3.57
23 33 53 00-0016	SF	1", R4.3, 3 Lb./CF, T300, Fiberglass Duct Liner Blanket	3.99	3.57
23 33 53 00-0017	SF	1-1/2", T150, 1.5 Lb./CF, Fiberglass Duct Liner Blanket	3.40	3.97
23 33 53 00-0018	SF	2", R7.7, 1.5 Lb./CF, T150 Fiberglass Duct Liner Blanket	3.60	4.37
23 33 53 00-0019	SF	2", R8, 2 Lb./CF, T200 Fiberglass Duct Liner Blanket	5.38	4.37

23 33 56 Duct Air Extractors (23 33)

23 33 56 00-0001	EA	12" x 4" Duct Air Extractor	66.35	21.86
		<i>For Stainless Steel, Add</i>	27.18	
23 33 56 00-0002	EA	8" x 6" Duct Air Extractor	70.33	23.84
		<i>For Stainless Steel, Add</i>	27.18	
23 33 56 00-0003	EA	12" x 6" Duct Air Extractor	81.66	25.17
		<i>For Stainless Steel, Add</i>	37.61	
23 33 56 00-0004	EA	16" x 6" Duct Air Extractor	92.73	26.49
		<i>For Stainless Steel, Add</i>	47.70	
23 33 56 00-0005	EA	24" x 6" Duct Air Extractor	123.91	29.14
		<i>For Stainless Steel, Add</i>	78.77	
23 33 56 00-0006	EA	12" x 8" Duct Air Extractor	88.11	26.49
		<i>For Stainless Steel, Add</i>	42.16	
23 33 56 00-0007	EA	20" x 8" Duct Air Extractor	117.06	33.11
		<i>For Stainless Steel, Add</i>	61.01	
23 33 56 00-0008	EA	18" x 10" Duct Air Extractor	125.41	37.74
		<i>For Stainless Steel, Add</i>	59.90	
23 33 56 00-0009	EA	24" x 10" Duct Air Extractor	153.45	44.36
		<i>For Stainless Steel, Add</i>	77.65	
23 33 56 00-0010	EA	24" x 12" Duct Air Extractor	175.28	52.98
		<i>For Stainless Steel, Add</i>	83.20	
23 33 56 00-0011	EA	30" x 12" Duct Air Extractor	219.35	66.22
		<i>For Stainless Steel, Add</i>	104.28	

23 33 59 Duct Pressure Relief Doors (23 33)**23 33 59 00-0001 Duct Pressure Relief Doors (23 33 59)**

23 33 59 00-0002	EA	18" x 18" Duct Pressure Relief Door (Ruskin PRD18)	1,318.43	39.73
23 33 59 00-0003	EA	24" x 10" Duct Pressure Relief Door (Ruskin PRD18)	1,083.24	33.11
23 33 59 00-0004	EA	24" x 12" Duct Pressure Relief Door (Ruskin PRD18)	1,073.29	36.42

23 34 HVAC Fans (23 30)



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Fans			23 34	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
23 34 13 Axial HVAC Fans (23 34)				
23 34 13 00-0001 Tube-Axial Fans (23 34 13)				
23 34 13 00-0002 Direct Drive Tube-Axial Duct Fans (23 34 13 00-0001)				
23 34 13 00-0003	EA 12" Direct Drive Axial Flow Fan, 1/6 HP 1,060 CFM Constant Speed, 1/8" Static Pressure.....	2,039.60		406.87
	For 1/4" Static Pressure, Add	98.00		
	For 3/8" Static Pressure, Add	196.01		
	For 1/2" Static Pressure, Add	269.51		
23 34 13 00-0004	EA 12" Direct Drive Axial Flow Fan, 1/2 HP 2,095 CFM Constant Speed, 1/8" Static Pressure.....	2,127.11		408.09
	For 1/4" Static Pressure, Add	105.00		
	For 3/8" Static Pressure, Add	210.01		
	For 1/2" Static Pressure, Add	288.76		
23 34 13 00-0005	EA 16" Direct Drive Axial Flow Fan, 1/3 HP 2,490 CFM Constant Speed, 1/8" Static Pressure.....	2,302.11		406.87
	For 1/4" Static Pressure, Add	119.00		
	For 3/8" Static Pressure, Add	238.01		
	For 1/2" Static Pressure, Add	327.26		
23 34 13 00-0006	EA 20" Direct Drive Axial Flow Fan, 3/4 HP 4,130 CFM Constant Speed, 1/8" Static Pressure.....	2,477.12		408.09
	For 1/4" Static Pressure, Add	133.00		
	For 3/8" Static Pressure, Add	266.01		
	For 1/2" Static Pressure, Add	365.76		
23 34 13 00-0007	EA 22" Direct Drive Axial Flow Fan, 3/4 HP 4,700 CFM Constant Speed, 1/8" Static Pressure.....	2,902.54		488.74
	For 1/4" Static Pressure, Add	154.01		
	For 3/8" Static Pressure, Add	308.01		
	For 1/2" Static Pressure, Add	423.52		
23 34 13 00-0008	EA 24" Direct Drive Axial Flow Fan, 1 HP 5,850 CFM Constant Speed, 1/8" Static Pressure.....	3,337.54		531.50
	For 1/4" Static Pressure, Add	182.01		
	For 3/8" Static Pressure, Add	364.01		
	For 1/2" Static Pressure, Add	500.52		
23 34 13 00-0009	EA 24" Direct Drive Axial Flow Fan, 1-1/2 HP 7,925 CFM Constant Speed, 1/8" Static Pressure	3,526.25		581.60
	For 1/4" Static Pressure, Add	189.01		
	For 3/8" Static Pressure, Add	378.01		
	For 1/2" Static Pressure, Add	519.77		
23 34 13 00-0010	EA 30" Direct Drive Axial Flow Fan, 1 HP 10,640 CFM Constant Speed, 1/8" Static Pressure.....	4,021.94		610.92
	For 1/4" Static Pressure, Add	224.01		
	For 3/8" Static Pressure, Add	448.02		
	For 1/2" Static Pressure, Add	616.02		
23 34 13 00-0011	EA 30" Direct Drive Axial Flow Fan, 2-1/2 HP 14,765 CFM Constant Speed, 1/8" Static Pressure.....	4,852.41		763.64
	For 1/4" Static Pressure, Add	266.01		
	For 3/8" Static Pressure, Add	532.02		
	For 1/2" Static Pressure, Add	731.53		
23 34 13 00-0012	EA 36" Direct Drive Axial Flow Fan, 2 HP 16,780 CFM Constant Speed, 1/8" Static Pressure.....	5,479.25		814.96
	For 1/4" Static Pressure, Add	308.01		
	For 3/8" Static Pressure, Add	616.02		
	For 1/2" Static Pressure, Add	847.03		
23 34 13 00-0013	EA 36" Direct Drive Axial Flow Fan, 5 HP 22,920 CFM Constant Speed, 1/8" Static Pressure.....	6,429.91		939.59
	For 1/4" Static Pressure, Add	364.01		
	For 3/8" Static Pressure, Add	728.03		
	For 1/2" Static Pressure, Add	1,001.04		
23 34 13 00-0014 Belt Drive Tube-Axial Duct Fans (23 34 13 00-0001)				
23 34 13 00-0015	EA 15" Belt Drive Axial Flow Fan, 1/3 HP 2,800 CFM Constant Speed, 1/8" Static Pressure.....	1,934.35		394.66
	For 1/4" Static Pressure, Add	91.69		
	For 3/8" Static Pressure, Add	183.37		
	For 1/2" Static Pressure, Add	252.14		
23 34 13 00-0016	EA 15" Belt Drive Axial Flow Fan, 1/2 HP 3,400 CFM Constant Speed, 1/8" Static Pressure.....	2,051.11		408.09
	For 1/4" Static Pressure, Add	98.92		
	For 3/8" Static Pressure, Add	197.85		
	For 1/2" Static Pressure, Add	272.04		
23 34 13 00-0017	EA 18" Belt Drive Axial Flow Fan, 1/3 HP 3,280 CFM Constant Speed, 1/8" Static Pressure.....	2,119.41		421.53
	For 1/4" Static Pressure, Add	102.14		
	For 3/8" Static Pressure, Add	204.28		
	For 1/2" Static Pressure, Add	280.89		
23 34 13 00-0018	EA 18" Belt Drive Axial Flow Fan, 1/2 HP 3,900 CFM Constant Speed, 1/8" Static Pressure.....	2,243.34		436.19
	For 1/4" Static Pressure, Add	109.65		
	For 3/8" Static Pressure, Add	219.30		
	For 1/2" Static Pressure, Add	301.53		
23 34 13 00-0019	EA 18" Belt Drive Axial Flow Fan, 1 HP 5,250 CFM Constant Speed, 1/8" Static Pressure.....	2,530.34		453.30
	For 1/4" Static Pressure, Add	130.02		
	For 3/8" Static Pressure, Add	260.04		
	For 1/2" Static Pressure, Add	357.56		
23 34 13 00-0020	EA 24" Belt Drive Axial Flow Fan, 1/2 HP 4,800 CFM Constant Speed, 1/8" Static Pressure.....	2,669.03		470.40
	For 1/4" Static Pressure, Add	138.33		
	For 3/8" Static Pressure, Add	276.67		
	For 1/2" Static Pressure, Add	380.42		
23 34 13 00-0021	EA 24" Belt Drive Axial Flow Fan, 1 HP 6,430 CFM Constant Speed, 1/8" Static Pressure.....	2,988.13		488.74
	For 1/4" Static Pressure, Add	160.85		
	For 3/8" Static Pressure, Add	321.71		
	For 1/2" Static Pressure, Add	442.35		
23 34 13 00-0022	EA 24" Belt Drive Axial Flow Fan, 2 HP 8,860 CFM Constant Speed, 1/8" Static Pressure.....	3,371.54		488.74
	For 1/4" Static Pressure, Add	191.65		
	For 3/8" Static Pressure, Add	383.30		
	For 1/2" Static Pressure, Add	527.04		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 13 00-0023 EA 30" Belt Drive Axial Flow Fan, 1 HP 9,250 CFM Constant Speed, 1/8" Static Pressure.....	3,909.05	531.50
For 1/4" Static Pressure, Add	227.87	
For 3/8" Static Pressure, Add	455.75	
For 1/2" Static Pressure, Add	626.65	
23 34 13 00-0024 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,900 CFM Constant Speed, 1/8" Static Pressure.....	4,634.53	643.91
For 1/4" Static Pressure, Add	268.09	
For 3/8" Static Pressure, Add	536.17	
For 1/2" Static Pressure, Add	737.24	
23 34 13 00-0025 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,150 CFM Constant Speed, 1/8" Static Pressure.....	5,281.58	643.91
For 1/4" Static Pressure, Add	319.42	
For 3/8" Static Pressure, Add	638.84	
For 1/2" Static Pressure, Add	878.40	
23 34 13 00-0026 EA 36" Belt Drive Axial Flow Fan, 3/4 HP 8,090 CFM Constant Speed, 1/8" Static Pressure.....	5,815.76	679.34
For 1/4" Static Pressure, Add	356.65	
For 3/8" Static Pressure, Add	713.31	
For 1/2" Static Pressure, Add	980.80	
23 34 13 00-0027 EA 36" Belt Drive Axial Flow Fan, 2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure.....	6,353.43	718.44
For 1/4" Static Pressure, Add	393.55	
For 3/8" Static Pressure, Add	787.10	
For 1/2" Static Pressure, Add	1,082.26	
23 34 13 00-0028 EA 36" Belt Drive Axial Flow Fan, 7-1/2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure.....	7,235.73	939.59
For 1/4" Static Pressure, Add	428.94	
For 3/8" Static Pressure, Add	857.88	
For 1/2" Static Pressure, Add	1,179.59	
23 34 13 00-0029 EA 36" Belt Drive Axial Flow Fan, 5 HP 20,080 CFM Constant Speed, 1/8" Static Pressure.....	8,262.34	940.81
For 1/4" Static Pressure, Add	511.07	
For 3/8" Static Pressure, Add	1,022.14	
For 1/2" Static Pressure, Add	1,405.44	
23 34 13 00-0030 EA 42" Belt Drive Axial Flow Fan, 7-1/2 HP 29,000 CFM Constant Speed, 1/8" Static Pressure.....	9,331.41	1,110.40
For 1/4" Static Pressure, Add	569.44	
For 3/8" Static Pressure, Add	1,138.87	
For 1/2" Static Pressure, Add	1,565.95	
23 34 16 Centrifugal HVAC Fans (23 34)		
23 34 16 00-0001 Centrifugal Fans (23 34 16)		
Note: All belt fans to be supplied with belt guard.		
23 34 16 00-0002 Utility Backward Inclined Steel Wheel Centrifugal Fans (23 34 16 00-0001)		
Note: V-belt driven.		
23 34 16 00-0003 Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002)		
Note: Under 30" diameter wheel.		
23 34 16 00-0004 12-1/4" Diameter Wheel 650 To 2,950 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0005 EA 1/6 HP, 12-1/4" Wheel, 450 To 1,750 CFM At 1/8" Static Pressure, Centrifugal Fan	1,441.51	268.44
23 34 16 00-0006 EA 1/4 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	2,077.77	278.58
23 34 16 00-0007 EA 1/3 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	2,137.34	222.01
23 34 16 00-0008 EA 1/2 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	2,232.24	304.24
23 34 16 00-0009 EA 3/4 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	2,285.94	322.56
23 34 16 00-0010 EA 1 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	2,358.77	336.00
23 34 16 00-0011 EA 1-1/2 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	2,431.29	358.00
23 34 16 00-0012 13-1/2" Diameter Wheel 734 To 3,343 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0013 EA 1/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,398.18	293.24
23 34 16 00-0014 EA 1/3 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,441.00	304.24
23 34 16 00-0015 EA 1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,520.77	322.56
23 34 16 00-0016 EA 3/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,567.18	336.00
23 34 16 00-0017 EA 1 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,653.23	358.00
23 34 16 00-0018 EA 1-1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,739.28	375.11
23 34 16 00-0019 15" Diameter Wheel 1,258 To 4,146 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0020 EA 1/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,414.95	304.24
23 34 16 00-0021 EA 1/3 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,468.67	322.56
23 34 16 00-0022 EA 1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,541.13	336.00
23 34 16 00-0023 EA 3/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,601.11	358.00
23 34 16 00-0024 EA 1 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,678.50	375.11
23 34 16 00-0025 EA 1-1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,786.23	403.20
23 34 16 00-0026 EA 2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,870.48	423.98
23 34 16 00-0027 16-1/2" Diameter Wheel 977 To 4,711 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0028 EA 1/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,768.27	322.56
23 34 16 00-0029 EA 1/3 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,867.79	336.00
23 34 16 00-0030 EA 1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,977.28	358.00
23 34 16 00-0031 EA 3/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	3,034.43	375.11
23 34 16 00-0032 EA 1 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	3,108.93	403.20
23 34 16 00-0033 EA 1-1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	3,172.96	423.98
23 34 16 00-0034 EA 2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	3,524.80	460.63

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Fans

23 34

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0035 18-1/4" Diameter Wheel 2,193 To 6,498 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0036 EA 1/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,860.27	336.00
23 34 16 00-0037 EA 1/3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,926.75	358.00
23 34 16 00-0038 EA 1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	3,017.17	375.11
23 34 16 00-0039 EA 3/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	3,085.84	403.20
23 34 16 00-0040 EA 1 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	3,183.11	423.98
23 34 16 00-0041 EA 1-1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	3,329.43	460.63
23 34 16 00-0042 EA 2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	3,423.83	488.74
23 34 16 00-0043 EA 3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	3,563.76	537.61
23 34 16 00-0044 20" Diameter Wheel 2,412 To 7,364 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0045 EA 1/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	2,887.69	358.00
23 34 16 00-0046 EA 1/3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	2,978.07	375.11
23 34 16 00-0047 EA 1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	3,085.84	403.20
23 34 16 00-0048 EA 3/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	3,183.11	423.98
23 34 16 00-0049 EA 1 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	3,368.49	460.63
23 34 16 00-0050 EA 1-1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	3,630.37	488.74
23 34 16 00-0051 EA 2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	3,810.52	537.61
23 34 16 00-0052 EA 3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	3,998.96	575.49
23 34 16 00-0053 22-1/4" Diameter Wheel 2,265 To 8,483 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0054 EA 1/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,477.41	375.11
23 34 16 00-0055 EA 1/3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,539.97	403.20
23 34 16 00-0056 EA 1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,628.15	423.98
23 34 16 00-0057 EA 3/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,737.56	460.63
23 34 16 00-0058 EA 1 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,885.14	488.74
23 34 16 00-0059 EA 1-1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,929.91	537.61
23 34 16 00-0060 EA 2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	4,025.01	575.49
23 34 16 00-0061 EA 3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	4,194.86	645.12
23 34 16 00-0062 24-1/2" Diameter Wheel 3,055 To 11,380 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0063 EA 1/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,188.70	403.20
23 34 16 00-0064 EA 1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,319.38	460.63
23 34 16 00-0065 EA 3/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,452.87	488.74
23 34 16 00-0066 EA 1 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,592.07	537.61
23 34 16 00-0067 EA 1-1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,715.38	575.49
23 34 16 00-0068 EA 2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,820.11	645.12
23 34 16 00-0069 EA 3 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,970.23	701.33
23 34 16 00-0070 EA 5 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	5,324.99	806.42
23 34 16 00-0071 27" Diameter Wheel 2,734 To 13,266 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0072 EA 1/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	4,644.18	423.98
23 34 16 00-0073 EA 1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	4,778.53	488.74
23 34 16 00-0074 EA 3/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	4,917.71	537.61
23 34 16 00-0075 EA 1 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	5,041.04	575.49
23 34 16 00-0076 EA 1-1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	5,210.88	645.12
23 34 16 00-0077 EA 2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	5,360.61	701.33
23 34 16 00-0078 EA 3 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	5,743.05	806.42
23 34 16 00-0079 EA 5 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	5,786.40	895.60
23 34 16 00-0080 Large Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002) Note: Over 30" diameter wheel.		
23 34 16 00-0081 30" Diameter Wheel 4,926 To 17,456 CFM At 1/8" Static Pressure (23 34 16 00-0080)		
23 34 16 00-0082 EA 1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	6,513.39	537.61
23 34 16 00-0083 EA 3/4 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	6,631.59	575.49
23 34 16 00-0084 EA 1 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	6,813.08	645.12
23 34 16 00-0085 EA 1-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	6,975.82	701.33
23 34 16 00-0086 EA 2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	7,213.76	806.42
23 34 16 00-0087 EA 3 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	7,427.66	895.60
23 34 16 00-0088 EA 5 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	7,777.34	1,075.21
23 34 16 00-0089 EA 7-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	8,100.36	1,240.16
23 34 16 00-0090 33" Diameter Wheel 5,734 To 19,799 CFM At 1/8" Static Pressure (23 34 16 00-0080)		
23 34 16 00-0091 EA 1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	7,646.22	575.49
23 34 16 00-0092 EA 3/4 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	7,881.20	645.12
23 34 16 00-0093 EA 1 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	8,096.45	701.33
23 34 16 00-0094 EA 1-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	8,386.10	806.42
23 34 16 00-0095 EA 2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	8,652.11	895.60
23 34 16 00-0096 EA 3 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	9,053.88	1,075.21
23 34 16 00-0097 EA 5 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	9,506.74	1,240.16

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0098	EA	7-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	10,128.96	1,612.82
23 34 16 00-0099		36-1/2" Diameter Wheel 5,388 To 22,500 CFM At 1/8" Static Pressure (23 34 16 00-0099)		
23 34 16 00-0100	EA	1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	8,157.37	645.12
23 34 16 00-0101	EA	3/4 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	8,380.42	701.33
23 34 16 00-0102	EA	1 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	9,099.91	806.42
23 34 16 00-0103	EA	1-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	9,582.17	895.60
23 34 16 00-0104	EA	2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	10,166.61	1,075.21
23 34 16 00-0105	EA	3 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	10,611.27	1,240.16
23 34 16 00-0106	EA	5 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	11,541.14	1,612.82
23 34 16 00-0107	EA	7-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	12,307.68	2,016.02
23 34 16 00-0108		Kitchen System Fans (23 34 16 00-0001)		
23 34 16 00-0109		Upblast Kitchen Exhaust Fans (23 34 16 00-0108)		
23 34 16 00-0110		Direct Drive Kitchen Upblast Exhaust Fans (23 34 16 00-0109)		
		Note: Greenheck CUE.		
23 34 16 00-0111	EA	Up To 12" Wheel Diameter, 1/6 HP Direct Drive, Kitchen Upblast Exhaust Fan.....	1,486.26	158.83
		Note: 115V. For roof or wall installations. Includes disconnect switch.		
		For Bird Screen, Add	66.21	
		For Backdraft Damper, Add	194.46	
		For Damper Motor, Add	320.60	
23 34 16 00-0112	EA	14" Wheel Diameter, 1/4 HP Direct Drive, Kitchen Upblast Exhaust Fan	1,749.28	158.83
		Note: 115V. For roof or wall installations. Includes disconnect switch.		
		For Bird Screen, Add	66.21	
		For Backdraft Damper, Add	194.46	
		For Damper Motor, Add	320.60	
23 34 16 00-0113		Belt Drive Kitchen Upblast Exhaust Fans (23 34 16 00-0109)		
		Note: Greenheck CUBE.		
23 34 16 00-0114	EA	10" Diameter Wheel, Up To 1/3 HP, 1,458 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	2,580.13	158.83
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	66.21	
		For Wall Mounted Fan, Add	103.21	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	192.31	
		For Backdraft Damper, Add	194.46	
		For Damper Motor, Add	320.60	
23 34 16 00-0115	EA	12" Diameter Wheel, 1/2 HP, 1,923 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	2,694.28	158.83
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	66.21	
		For Wall Mounted Fan, Add	107.77	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	202.01	
		For Backdraft Damper, Add	194.46	
		For Damper Motor, Add	320.60	
23 34 16 00-0116	EA	14" Diameter Wheel, 1/3 HP, 2,006 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	2,302.53	183.28
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	75.34	
		For Wall Mounted Fan, Add	92.10	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	164.56	
		For Backdraft Damper, Add	220.88	
		For Damper Motor, Add	320.60	
23 34 16 00-0117	EA	14" Diameter Wheel, 1 HP, 2,757 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	2,466.91	183.28
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	75.34	
		For Wall Mounted Fan, Add	98.68	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	178.53	
		For Backdraft Damper, Add	220.88	
		For Damper Motor, Add	320.60	
23 34 16 00-0118	EA	16" Diameter Wheel, 1/2 HP, 2,940 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	3,139.84	213.82
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	75.34	
		For Wall Mounted Fan, Add	125.59	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	230.54	
		For Backdraft Damper, Add	220.88	
		For Damper Motor, Add	320.60	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Fans			23 34	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
23 34 16 00-0119	EA	16" Diameter Wheel, 1 HP, 3,129 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,315.64	213.82
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	75.34	
		For Wall Mounted Fan, Add	132.63	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	245.48	
		For Backdraft Damper, Add	220.88	
		For Damper Motor, Add	320.60	
23 34 16 00-0120	EA	18" Diameter Wheel, 1/2 HP, 3,243 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,613.29	229.10
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	125.56	
		For Wall Mounted Fan, Add	144.53	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	268.18	
		For Backdraft Damper, Add	277.77	
		For Damper Motor, Add	320.60	
23 34 16 00-0121	EA	18" Diameter Wheel, 1 HP, 4,223 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,887.25	229.10
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	125.56	
		For Wall Mounted Fan, Add	155.49	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	291.47	
		For Backdraft Damper, Add	277.77	
		For Damper Motor, Add	320.60	
23 34 16 00-0122	EA	20" Diameter Wheel, 3/4 HP, 4,438 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,949.77	244.37
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	125.56	
		For Wall Mounted Fan, Add	157.99	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	294.19	
		For Backdraft Damper, Add	277.77	
		For Damper Motor, Add	320.60	
23 34 16 00-0123	EA	20" Diameter Wheel, 2 HP, 6,450 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	4,335.60	244.37
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	125.56	
		For Wall Mounted Fan, Add	173.42	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	326.98	
		For Backdraft Damper, Add	277.77	
		For Damper Motor, Add	320.60	
23 34 16 00-0124	EA	24" Diameter Wheel, 3/4 HP, 5,460 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	4,994.83	274.91
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	148.40	
		For Wall Mounted Fan, Add	199.79	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	377.83	
		For Backdraft Damper, Add	300.81	
		For Damper Motor, Add	320.60	
23 34 16 00-0125	EA	24" Diameter Wheel, 2 HP, 7,985 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	5,348.70	274.91
		Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	148.40	
		For Wall Mounted Fan, Add	213.95	
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	407.90	
		For Backdraft Damper, Add	300.81	
		For Damper Motor, Add	320.60	
23 34 16 00-0126	EA	30" Diameter Wheel, 3/4 HP, 7,771 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	6,343.53	305.46
		Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
		For Bird Screen, Add	159.81	
		For Wall Mounted Fan, Add	253.74	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	487.27	
		For Backdraft Damper, Add	334.01	
		For Damper Motor, Add	320.60	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0127	EA	30" Diameter Wheel, 2 HP, 10,192 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.	6,459.97	305.46
		For Bird Screen, Add	159.81	
		For Wall Mounted Fan, Add	258.40	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	497.17	
		For Backdraft Damper, Add	334.01	
		For Damper Motor, Add	320.60	
23 34 16 00-0128	EA	30" Diameter Wheel, 3 HP, 11,903 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.	7,051.26	305.46
		For Bird Screen, Add	159.81	
		For Wall Mounted Fan, Add	282.05	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	547.43	
		For Backdraft Damper, Add	334.01	
		For Damper Motor, Add	320.60	
23 34 16 00-0129	EA	30" Diameter Wheel, 5 HP, 14,266 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.	7,336.64	305.46
		For Bird Screen, Add	159.81	
		For Wall Mounted Fan, Add	293.47	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	571.69	
		For Backdraft Damper, Add	334.01	
		For Damper Motor, Add	320.60	
23 34 16 00-0130	EA	36" Diameter Wheel, 3 HP, 14,769 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.	8,078.40	336.00
		For Bird Screen, Add	182.64	
		For Wall Mounted Fan, Add	323.14	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	629.54	
		For Damper Motor, Add	320.60	
		For Backdraft Damper, Add	394.75	
23 34 16 00-0131	EA	36" Diameter Wheel, 5 HP, 17,884 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.	8,406.59	336.00
		For Bird Screen, Add	182.64	
		For Wall Mounted Fan, Add	336.26	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	657.44	
		For Damper Motor, Add	320.60	
		For Backdraft Damper, Add	394.75	
23 34 16 00-0132	EA	42" Diameter Wheel, 3 HP, 17,316 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 230/460/60/3. Includes bird screen, heat baffle, grease baffle and disconnect switch.	8,476.88	366.55
		For Bird Screen, Add	182.64	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	658.23	
		For Damper Motor, Add	320.60	
		For Backdraft Damper, Add	460.23	
23 34 16 00-0133	EA	42" Diameter Wheel, 7-1/2 HP, 24,604 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 230/460/60/3. Includes bird screen, heat baffle, grease baffle and disconnect switch.	9,197.40	366.55
		For Bird Screen, Add	182.64	
		For Totally Enclosed Motor, Add	85.00	
		For Grease Trap Kit, Add	76.41	
		For Hinged Curb Kit, Add	719.47	
		For Damper Motor, Add	320.60	
		For Backdraft Damper, Add	460.23	
23 34 16 00-0134		Untempered Kitchen Make-Up Air Fans (23 34 16 00-0108) Note: Roof mounted with downblast discharge, weatherhood and filter.		
23 34 16 00-0135		Direct Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)		
23 34 16 00-0136	EA	7" Diameter Wheel, 1/2 HP Direct Drive, Kitchen Make-Up Air Fan Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.	1,729.05	158.83
		For Extended Weatherhood, Add	291.09	
23 34 16 00-0137	EA	8" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.	1,818.41	158.83
		For Extended Weatherhood, Add	304.50	
23 34 16 00-0138	EA	9" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.	1,928.06	158.83
		For Extended Weatherhood, Add	320.95	
23 34 16 00-0139		Belt Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)		
23 34 16 00-0140	EA	9" Diameter Wheel, 1/2 HP Belt Drive, Kitchen Make-Up Air Fan Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.	1,970.59	158.83
		For Extended Weatherhood, Add	327.32	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Fans			23 34

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0141	EA		10" Diameter Wheel, 1-1/2 HP Belt Drive, Kitchen Make-Up Air Fan Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	2,202.39 373.12	213.82
23 34 16 00-0142	EA		12" Diameter Wheel, 2 HP Belt Drive, Kitchen Make-Up Air Fan Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	2,657.59 447.51	244.37
23 34 16 00-0143	EA		15" Diameter Wheel, 3 HP Belt Drive, Kitchen Make-Up Air Fan Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	3,076.56 522.58	305.46
23 34 16 00-0144	EA		18" Diameter Wheel, 5 HP Belt Drive, Kitchen Make-Up Air Fan Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	3,723.77 631.87	366.55
23 34 16 00-0145			Replacement Parts (23 34 16 00-0001)		
23 34 16 00-0146			Replace Belts And Accessories (23 34 16 00-0145)		
23 34 16 00-0147	EA		Fan Shaft Bearing, Replacement.....	894.97	396.61
23 34 16 00-0148	EA		Fan Belt, Replacement.....	148.34	53.79
23 34 16 00-0149			Corrosive Fume Resistant Plastic (23 34 16 00-0001)		
23 34 16 00-0150			Centrifugal Roof Ventilators, Belt Drive, 1/4" Static Pressure (23 34 16 00-0149)		
23 34 16 00-0151	EA		250 CFM, 1/4 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	6,676.25 935.28	220.52
23 34 16 00-0152	EA		895 CFM, 1/3 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	7,250.87 1,008.17	264.89
23 34 16 00-0153	EA		1,630 CFM, 1/2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	8,597.97 1,190.36	331.11
23 34 16 00-0154	EA		2,240 CFM, 1 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	9,224.13 1,251.10	441.70
23 34 16 00-0155	EA		3,810 CFM, 2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	10,555.82 1,384.71	662.22
23 34 16 00-0156	EA		11,760 CFM, 5 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	18,196.48 2,332.14	1,324.43
23 34 16 00-0157	EA		18,810 CFM, 10 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	26,541.07 3,413.18	1,893.28
23 34 16 00-0158			Utility Set, Centrifugal, Belt Drive (23 34 16 00-0149)		
23 34 16 00-0159	EA		1,200 CFM, 1/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	6,676.25 935.28	220.52
23 34 16 00-0160	EA		1,520 CFM, 1/3 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	6,845.98 947.43	264.89
23 34 16 00-0161	EA		1,850 CFM, 1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	6,978.43 947.43	331.11
23 34 16 00-0162	EA		2,180 CFM, 3/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	7,199.70 947.43	441.70
23 34 16 00-0163	EA		3,600 CFM, 1 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	9,908.00 1,287.54	662.22
23 34 16 00-0164	EA		4,250 CFM, 1-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	10,239.12 1,287.54	827.78
23 34 16 00-0165	EA		4,800 CFM, 2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	10,478.03 1,287.54	947.23
23 34 16 00-0166	EA		6,920 CFM, 5 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	10,732.18 1,311.83	993.33
23 34 16 00-0167	EA		7,700 CFM, 7-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	11,033.90 1,323.98	1,103.65
23 34 16 00-0168			In-Line Duct Fans (23 34 16 00-0001)		
23 34 16 00-0169			Direct Drive In-Line Duct Fans (23 34 16 00-0168) Note: Greenheck SQ.		
23 34 16 00-0170	EA		Up To 10" Wheel Diameter, 1/16 HP Direct Drive, In Line Duct Fan Note: 115V. Includes disconnect switch.	1,784.90	158.83
23 34 16 00-0171	EA		13" Wheel Diameter, 1/6 HP Direct Drive, In Line Duct Fan..... Note: 115V. Includes disconnect switch.	2,287.23	171.06
23 34 16 00-0172	EA		14" Wheel Diameter, 1/3 HP Direct Drive, In Line Duct Fan..... Note: 115V. Includes disconnect switch.	2,508.93	183.28
23 34 16 00-0173			Belt Drive In-Line Duct Fans (23 34 16 00-0168) Note: Greenheck BSQ.		
23 34 16 00-0174	EA		Up To 12" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan Note: 115/208-230/60/1. Includes disconnect switch. <i>For 3 Phase Motor, Deduct</i> <i>For Totally Enclosed Motor, Add</i>	2,623.04 -50.00 85.00	183.28

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0175 EA 13" Or 14" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan Note: 115/208-230/60/1. Includes disconnect switch. <i>For 3 Phase Motor, Deduct</i> <i>For Totally Enclosed Motor, Add</i>	3,014.12 -50.00 85.00	213.82
23 34 16 00-0176 EA 13" Or 14" Wheel Diameter, 3/4 HP Belt Drive, In Line Duct Fan Note: 115/208-230/60/1. Includes disconnect switch. <i>For 3 Phase Motor, Deduct</i> <i>For Totally Enclosed Motor, Add</i>	3,394.96 -50.00 85.00	213.82
23 34 16 00-0177 EA 13" Or 14" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan Note: 115/208-230/60/1. Includes disconnect switch. <i>For 3 Phase Motor, Deduct</i> <i>For Totally Enclosed Motor, Add</i>	3,718.73 -50.00 85.00	213.82
23 34 16 00-0178 EA 16" Or 18" Wheel Diameter, 1/3 HP Belt Drive, In Line Duct Fan Note: 115/208-230/60/1. Includes disconnect switch. <i>For 3 Phase Motor, Deduct</i> <i>For Totally Enclosed Motor, Add</i>	3,614.85 -50.00 85.00	244.37
23 34 16 00-0179 EA 16" Or 18" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan Note: 115/208-230/60/1. Includes disconnect switch. <i>For 3 Phase Motor, Deduct</i> <i>For Totally Enclosed Motor, Add</i>	4,163.15 -50.00 85.00	244.37
23 34 16 00-0180 EA 24" Wheel Diameter, 1 HP Belt Drive, In Line Duct Fan Note: 115/208-230/60/1. Includes disconnect switch. <i>For 3 Phase Motor, Deduct</i> <i>For Totally Enclosed Motor, Add</i>	5,298.82 -50.00 85.00	305.46
23 34 16 00-0181 EA 24" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan Note: 230/460/60/3. Includes disconnect switch. <i>For Totally Enclosed Motor, Add</i>	5,601.51 85.00	305.46
23 34 16 00-0182 EA 24" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan Note: Belt drive. 230/460/60/3. Includes disconnect switch. <i>For Totally Enclosed Motor, Add</i>	5,814.88 85.00	305.46
23 34 16 00-0183 EA 30 Or 36" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan Note: 230/460/60/3. Includes disconnect switch. <i>For Totally Enclosed Motor, Add</i>	6,722.42 85.00	366.55
23 34 16 00-0184 EA 30 Or 36" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan Note: 230/460/60/3. Includes disconnect switch. <i>For Totally Enclosed Motor, Add</i>	6,977.09 85.00	366.55
23 34 16 00-0185 EA 30 Or 36" Wheel Diameter, 7-1/2 HP Belt Drive, In Line Duct Fan Note: 230/460/60/3. Includes disconnect switch. <i>For Totally Enclosed Motor, Add</i>	7,290.06 85.00	366.55
23 34 16 00-0186 Bathroom Exhaust Fan, Low Profile (23 34 16 00-0001)		
23 34 16 00-0187 EA 35 To 89 CFM, Ceiling Mounted, Low Profile, Bathroom Exhaust Fan (Greenheck SP-B70)..... <i>For Totally Enclosed Motor, Add</i>	301.56 85.00	55.09
23 34 16 00-0188 EA 46 To 94 CFM, Ceiling Mounted, Low Profile, Bathroom Exhaust Fan (Greenheck SP-B80)..... <i>For Totally Enclosed Motor, Add</i>	301.56 85.00	55.09
23 34 16 00-0189 EA 50 To 133 CFM, Ceiling Mounted, Low Profile, Bathroom Exhaust Fan (Greenheck SP-B110)..... <i>For Totally Enclosed Motor, Add</i>	324.06 85.00	55.09
23 34 16 00-0190 Centrifugal Upblast Exhaust Fan (23 34 16 00-0001)		
23 34 16 00-0191 EA 65 To 133 CFM, Direct Drive, 1/10 HP, Centrifugal Roof Exhaust Fan (Greenheck CUE-060-VG).....	1,538.32	268.44
23 34 16 00-0192 EA 143 To 250 CFM, Direct Drive, 1/10 HP, Centrifugal Roof Exhaust Fan (Greenheck CUE-070-VG).....	1,636.66	268.44
23 34 16 00-0193 EA 133 To 325 CFM, Direct Drive, 1/10 HP, Centrifugal Roof Exhaust Fan (Greenheck CUE-080-VG).....	1,690.01	278.58
23 34 16 00-0194 EA 204 To 549 CFM, Direct Drive, 1/10 HP, Centrifugal Roof Exhaust Fan (Greenheck CUE-090-VG).....	1,753.44	278.58
23 34 16 00-0195 Centrifugal In-Line Fans (23 34 16 00-0001)		
23 34 16 00-0196 EA 419 - 766 CFM, 115 V, Direct Drive In-Line Exhaust Fan (Greenheck CSP-A700-QD).....	994.90	119.13
23 34 16 00-0197 In-Line Cabinet Fans (23 34 16 00-0001)		
23 34 16 00-0198 EA 77 - 124 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	558.04	106.91
23 34 16 00-0199 EA 91 - 138 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	558.04	106.91
23 34 16 00-0200 EA 82 - 266 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	635.27	113.02
23 34 16 00-0201 EA 281 - 412 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	704.52	113.02
23 34 16 00-0202 EA 190 CFM, 115 Volt, Direct Drive Cabinet Fan.....	893.69	113.02
23 34 16 00-0203 EA 217 - 447 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	735.44	113.02
23 34 16 00-0204 EA 325 - 545 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	844.15	113.02
23 34 16 00-0205 EA 250 - 545 CFM, 115 Volt, 1/6 HP, Direct Drive In-Line Cabinet Fan.....	1,611.42	113.02
23 34 16 00-0206 EA 419 - 766 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	994.90	119.13
23 34 16 00-0207 EA 334 - 737 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	1,011.95	119.13
23 34 16 00-0208 EA 350 - 737 CFM, 120 Volt, 1/4 HP, Direct Drive In-Line Cabinet Fan.....	1,676.94	119.13
23 34 16 00-0209 EA 527 - 813 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	1,011.95	119.13
23 34 16 00-0210 EA 631 - 908 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	1,368.94	119.13
23 34 16 00-0211 EA 752 - 1244 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	1,368.94	119.13
23 34 16 00-0212 EA 1043 - 1584 CFM, 115 Volt, 1/3 HP, Direct Drive In-Line Cabinet Fan.....	1,368.94	119.13
23 34 16 00-0213 EA 999 - 1672 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	1,488.30	119.13
23 34 16 00-0214 Propeller And Ceiling Fans (23 34 16)		



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Fans			23 34	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
23 34 16 00-0215 Direct Drive, Sidewall Propeller Exhaust Fan (23 34 16 00-0214)				
Note: Greenheck SE1.				
23 34 16 00-0216	EA	1/25 HP, 307 CFM At 1/8" Static Pressure, 8" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan	783.06	130.74
Note: Includes motor side guard.				
For Backdraft Damper, Add			229.63	
For Wall Mount Collar, Add			309.07	
23 34 16 00-0217	EA	1/12 HP, 763 CFM At 1/8" Static Pressure, 10" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan	828.36	145.40
Note: Includes motor side guard.				
For Backdraft Damper, Add			245.90	
For Wall Mount Collar, Add			309.07	
23 34 16 00-0218	EA	1/8 HP, 1,149 CFM At 1/8" Static Pressure, 12" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan	917.20	161.28
Note: Includes motor side guard.				
For Backdraft Damper, Add			268.94	
For Wall Mount Collar, Add			317.15	
23 34 16 00-0219	EA	1/6 HP, 1,350 CFM At 1/8" Static Pressure, 14" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan	1,349.88	178.38
For Backdraft Damper, Add			322.45	
For Wall Mount Collar, Add			322.93	
For Motor Side Guard, Add			267.92	
23 34 16 00-0220	EA	1/6 HP, 2,012 CFM At 1/8" Static Pressure, 16" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan	1,127.47	197.93
For Backdraft Damper, Add			322.45	
For Wall Mount Collar, Add			331.01	
For Motor Side Guard, Add			285.12	
23 34 16 00-0221	EA	1/4 HP, 2,908 CFM At 1/8" Static Pressure, 18" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan	1,266.39	219.93
For Backdraft Damper, Add			392.89	
For Wall Mount Collar, Add			339.07	
For Motor Side Guard, Add			302.33	
23 34 16 00-0222	EA	1/3 HP, 3,974 CFM At 1/8" Static Pressure, 20" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan	1,442.94	244.37
For Backdraft Damper, Add			392.89	
For Wall Mount Collar, Add			344.85	
For Motor Side Guard, Add			326.37	
23 34 16 00-0223 Belt Drive Propeller Exhaust Fans (23 34 16 00-0214)				
Note: Wall shutter 1/8" static pressure, with bird screen.				
23 34 16 00-0224	EA	24" Propeller Exhaust Fan, V-Belt Drive, 5,795 CFM, 1/2 HP, With Wall Shutter.....	2,645.62	349.45
23 34 16 00-0225	EA	30" Propeller Exhaust Fan, V-Belt Drive, 9,060 CFM, 3/4 HP, With Wall Shutter.....	3,029.64	406.87
23 34 16 00-0226	EA	36" Propeller Exhaust Fan, V-Belt Drive, 11,850 CFM, 1 HP, With Wall Shutter.....	3,435.41	488.74
23 34 16 00-0227	EA	42" Propeller Exhaust Fan, V-Belt Drive, 17,400 CFM, 1-1/2 HP, With Wall Shutter.....	4,786.94	610.92
23 34 16 00-0228	EA	48" Propeller Exhaust Fan, V-Belt Drive, 19,870 CFM, 1-1/2 HP, With Wall Shutter.....	5,706.30	814.96
23 34 16 00-0229	EA	54" Propeller Exhaust Fan, V-Belt Drive, 26,000 CFM, 2 HP, With Wall Shutter.....	7,921.34	1,221.84
23 34 16 00-0230	EA	60" Propeller Exhaust Fan, V-Belt Drive, 35,120 CFM, 3 HP, With Wall Shutter.....	9,502.83	1,566.39
23 34 16 00-0231 Propeller Exhaust Fan Accessories (23 34 16 00-0214)				
23 34 16 00-0232	SF	Hinged Mesh Screen For Wall Propeller Fans, 1" x 1" Frame (SF Of Fan Opening).....	135.80	
23 34 16 00-0233	SF	Galvanized Weather Hood For Wall Propeller Fan (SF Of Fan Opening).....	313.05	
23 34 16 00-0234 Reversible Ceiling Fans (23 34 16 00-0214)				
23 34 16 00-0235 4 Blade Ceiling Fans (23 34 16 00-0234)				
23 34 16 00-0236	EA	42" 4-Blade Ceiling Fan, Three Speed	629.75	68.17
For Brass Plated Motor, Add			20.25	
For Light Kit, Add			26.14	
23 34 16 00-0237 5 Blade Ceiling Fans (23 34 16 00-0234)				
23 34 16 00-0238	EA	42" 5-Blade Ceiling Fan, Three Speed	689.04	168.71
For Brass Plated Motor, Add			20.25	
For Light Kit, Add			26.21	
23 34 16 00-0239	EA	52" 5-Blade Ceiling Fan, Three Speed	786.59	168.71
For Brass Plated Motor, Add			20.25	
For Light Kit, Add			26.34	
23 34 16 00-0240 3 Blade Weatherproof Ceiling Fans (23 34 16 00-0234)				
23 34 16 00-0241	EA	3-Blade Ceiling Fan, Weatherproof, Three Speed	636.78	60.48
23 34 16 00-0242 Ceiling Fan Down Rod (23 34 16 00-0234)				
23 34 16 00-0243	EA	1' Ceiling Fan Down Rod	25.40	
23 34 16 00-0244	EA	1-1/2' Ceiling Fan Down Rod	33.28	
23 34 16 00-0245	EA	2' Ceiling Fan Down Rod	37.22	
23 34 16 00-0246	EA	3' Ceiling Fan Down Rod	49.89	
23 34 16 00-0247	EA	4' Ceiling Fan Down Rod	58.28	
23 34 16 00-0248	EA	5' Ceiling Fan Down Rod	71.57	
23 34 16 00-0249	EA	6' Ceiling Fan Down Rod	89.47	
23 34 16 00-0250 Exhaust Fans (23 34 16)				

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0251		Exhaust Fans (23 34 16 00-0250) Note: Excludes ducting.		
23 34 16 00-0252		Light Duty Exhaust Fans (23 34 16 00-0251)		
23 34 16 00-0253		Light Duty Exhaust Fans (23 34 16 00-0252)		
23 34 16 00-0254	EA	50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 670).....	166.68	55.09
23 34 16 00-0255	EA	70 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 671).....	176.11	55.09
23 34 16 00-0256	EA	180 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 505).....	289.39	55.09
23 34 16 00-0257	EA	350 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 504).....	365.14	55.09
23 34 16 00-0258	EA	160 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 503).....	326.68	55.09
23 34 16 00-0259	EA	270 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 502).....	434.24	55.09
23 34 16 00-0260		Light Duty Exhaust Fans With Lights (23 34 16 00-0252)		
23 34 16 00-0261	EA	50 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 678).....	217.14	55.09
23 34 16 00-0262	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 679).....	240.78	55.09
23 34 16 00-0263	EA	100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 680).....	448.68	55.09
23 34 16 00-0264		Light Duty Exhaust Fans With Heaters (23 34 16 00-0252)		
23 34 16 00-0265	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater Bulb (Broan® 162).....	222.27	55.09
23 34 16 00-0266	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater (Broan® 658).....	351.89	55.09
23 34 16 00-0267		Light Duty Exhaust Fans With Heaters And Lights (23 34 16 00-0252)		
23 34 16 00-0268	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 655).....	374.36	55.09
23 34 16 00-0269	EA	100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 100HL).....	567.29	55.09
23 34 16 00-0270		Heavy-Duty/Continuous Operation Exhaust Fans (23 34 16 00-0251)		
23 34 16 00-0271		Heavy-Duty/Continuous Operation Exhaust Fans (23 34 16 00-0270) Note: Includes enamel steel or aluminum grille.		
23 34 16 00-0272	EA	50 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® HD50).....	257.96	55.09
23 34 16 00-0273	EA	80 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® HD80).....	285.05	55.09
23 34 16 00-0274	EA	109 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L100MG).....	519.54	55.09
23 34 16 00-0275	EA	157 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L150MG).....	532.10	55.09
23 34 16 00-0276	EA	210 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L200MG).....	571.17	55.09
23 34 16 00-0277	EA	259 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L250MG).....	596.14	55.09
23 34 16 00-0278	EA	308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300MG).....	605.82	55.09
23 34 16 00-0279	EA	434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400).....	693.05	55.09
23 34 16 00-0280	EA	514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500).....	789.27	55.09
23 34 16 00-0281	EA	701 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L700).....	844.07	55.09
23 34 16 00-0282	EA	901 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L900).....	1,004.17	55.09
23 34 16 00-0283	EA	1,513 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L1500).....	1,289.36	55.09
23 34 16 00-0284		Heavy-Duty/Continuous Operation Kitchen Exhaust Fans (23 34 16 00-0270) Note: Includes enamel steel or aluminum grille.		
23 34 16 00-0285	EA	308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300KMG).....	539.41	55.09
23 34 16 00-0286	EA	434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400K).....	782.07	55.09
23 34 16 00-0287	EA	514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy-Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500K).....	827.01	55.09
23 34 16 00-0288		Heavy-Duty/Continuous Operation Exhaust Fans With Lights (23 34 16 00-0270)		
23 34 16 00-0289	EA	50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan With Light (Broan® HD50L).....	280.14	55.09
23 34 16 00-0290	EA	80 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy-Duty/Continuous Operation Exhaust Fan With Light (Broan® HD80L).....	305.59	55.09



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Fans			23 34

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0291		Fire Rated, Heavy-Duty/Continuous Operation Exhaust Fans (23 34 16 00-0270)		
23 34 16 00-0292	EA	50 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® HD50RDF)	291.32	55.09
23 34 16 00-0293	EA	80 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® HD80RDF)	308.16	55.09
23 34 16 00-0294	EA	110 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy-Duty/Continuous Operation Exhaust Fan (Broan® 110RDF)	316.29	55.09
23 34 16 00-0295		Low Sound, Direct Drive, Centrifugal Ceiling Exhaust Fans (23 34 16 00-0251)		
23 34 16 00-0296	EA	900 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A900)	1,384.03	55.09
23 34 16 00-0297	EA	1050 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1050)	1,384.03	55.09
23 34 16 00-0298	EA	1410 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1410)	1,384.03	55.09
23 34 16 00-0299	EA	1550 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1550)	1,518.59	55.09
23 34 16 00-0300		Room-To-Room Exhaust Fans (23 34 16 00-0251)		
23 34 16 00-0301	EA	90 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 512)	210.78	55.09
23 34 16 00-0302	EA	180 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 511)	348.36	55.09
23 34 16 00-0303	EA	380 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 510)	398.49	55.09
23 34 16 00-0304		Through-Wall Exhaust Fans (23 34 16 00-0251)		
23 34 16 00-0305	EA	250 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 507)	372.28	55.09
23 34 16 00-0306	EA	470 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 506)	441.38	55.09
23 34 16 00-0307	EA	180 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 509)	324.77	55.09
23 34 16 00-0308	EA	270 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 508)	434.24	55.09
23 34 16 00-0309	EA	360 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan With Motorized Door (Broan® 12C)	758.29	55.09
23 34 16 00-0310		Exhaust Fan Accessories (23 34 16 00-0251)		
23 34 16 00-0311		Exhaust Fan Controls (23 34 16 00-0310)		
23 34 16 00-0312	EA	Electronic Variable Speed Control Dial, Single Gang, Exhaust Fan Controls (Broan® 57)	204.68	34.43
23 34 16 00-0313	EA	60-Minute Time Control Dial, Single Gang, Exhaust Fan Controls (Broan® 59)	143.56	34.43
23 34 16 00-0314	EA	60-Minute Time Control Dial With Rocker Switch, Double Gang, Exhaust Fan Controls (Broan® 61)	145.01	34.43
23 34 16 00-0315		Roof And Wall Caps For Exhaust Fans (23 34 16 00-0310)		
23 34 16 00-0316		Wall Caps For Exhaust Fans (23 34 16 00-0315)		
23 34 16 00-0317	EA	Aluminum Wall Cap For Up To 12" Duct, Installed On Exterior Walls (Broan® 613)	321.46	66.34
23 34 16 00-0318	EA	Aluminum Wall Cap For Up To 18" Duct, Installed On Exterior Walls (Broan® 643)	326.27	66.34
23 34 16 00-0319		Roof Caps For Exhaust Fans (23 34 16 00-0315)		
		Note: Includes flashing and built in bird screen.		
23 34 16 00-0320	EA	Aluminum Roof Cap For Up To 8" Duct, Installed On Flat Roofs (Broan® 611)	271.80	66.34
23 34 16 00-0321	EA	Aluminum Roof Cap For Up To 12" Duct, Installed On Flat Roofs (Broan® 612)	396.75	66.34
23 34 16 00-0322	EA	CRCQ Steel Roof Cap For Up To 4" Duct, Installed On Sloped Roofs (Broan® 636)	175.75	66.34
23 34 16 00-0323	EA	CRCQ Steel Roof Cap For Up To 8" Duct, Installed On Sloped Roofs (Broan® 634)	213.23	66.34
23 34 16 00-0324		Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan (23 34 16 00-0251)		
		Note: Includes storage and cleaning.		
23 34 16 00-0325	EA	Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan	91.63	
23 34 23		HVAC Power Ventilators (23 34)		
23 34 23 00-0001		Power Roof Ventilators (23 34 23)		
23 34 23 00-0002		Direct Drive, Aluminum, Centrifugal Roof Exhausters (23 34 23 00-0001)		
		Note: Greenheck G.		
23 34 23 00-0003	EA	1/25 HP, 310 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	683.01	174.72
		Note: Three speed motor.		
		For 12" Roof Curb, Add	236.33	
		For Backdraft Damper, Add	181.57	
		For Solid State Speed Control, Add	124.21	
		For Damper Motor, Add	320.60	
23 34 23 00-0004	EA	1/8 HP, 863 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	747.38	197.93
		Note: Three speed motor.		
		For 12" Roof Curb, Add	236.33	
		For Backdraft Damper, Add	181.57	
		For Solid State Speed Control, Add	124.21	
		For Damper Motor, Add	320.60	
23 34 23 00-0005	EA	1/6 HP, 1,213 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	1,068.27	230.93
		For 12" Roof Curb, Add	243.18	
		For Backdraft Damper, Add	194.46	
		For Solid State Speed Control, Add	124.21	
		For Damper Motor, Add	320.60	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 23 00-0006	EA	1/4 HP, 1,374 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	1,100.90	260.25	
		For 12" Roof Curb, Add	243.18		
		For Backdraft Damper, Add	194.46		
		For Solid State Speed Control, Add	124.21		
		For Damper Motor, Add	320.60		
23 34 23 00-0007	EA	1/3 HP, 1,905 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	1,413.71	287.13	
		For Solid State Speed Control, Add	124.21		
		For Damper Motor, Add	320.60		
23 34 23 00-0008	EA	1/2 HP, 3,072 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	1,603.34	305.46	
		For 12" Roof Curb, Add	254.59		
		For Backdraft Damper, Add	220.88		
		For Solid State Speed Control, Add	194.98		
		For Damper Motor, Add	320.60		
23 34 23 00-0009 Belt Drive, Aluminum, Centrifugal Roof Exhausters (23 34 23 00-0001)					
Note: Greenheck GB.					
23 34 23 00-0010	EA	1/4 HP, 1,556 CFM At 1/4" Static Pressure, 19" x 19" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	1,576.31	311.06	
		For 12" Roof Curb, Add	243.18		
		For Backdraft Damper, Add	194.46		
		For Damper Motor, Add	320.60		
23 34 23 00-0011	EA	1/3 HP, 1,966 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	1,719.39	330.22	
		For 12" Roof Curb, Add	254.59		
		For Backdraft Damper, Add	220.88		
		For Damper Motor, Add	320.60		
23 34 23 00-0012	EA	1/2 HP, 2,943 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	2,330.05	394.66	
		For 12" Roof Curb, Add	254.59		
		For Backdraft Damper, Add	220.88		
		For Damper Motor, Add	320.60		
23 34 23 00-0013	EA	3/4 HP, 4,289 CFM At 1/4" Static Pressure, 30" x 30" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	2,972.61	488.74	
		For 12" Roof Curb, Add	309.39		
		For Backdraft Damper, Add	277.77		
		For Damper Motor, Add	320.60		
23 34 23 00-0014	EA	1 HP, 6,157 CFM At 1/4" Static Pressure, 34" x 34" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	3,922.40	610.92	
		For 12" Roof Curb, Add	334.50		
		For Backdraft Damper, Add	300.81		
		For Damper Motor, Add	320.60		
23 34 23 00-0015	EA	1-1/2 HP, 8,906 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	6,369.53	763.64	
		For 12" Roof Curb, Add	373.31		
		For Backdraft Damper, Add	334.01		
		For Damper Motor, Add	320.60		
23 34 23 00-0016	EA	2 HP, 10,059 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	6,424.33	763.64	
		For 12" Roof Curb, Add	373.31		
		For Backdraft Damper, Add	334.01		
		For Damper Motor, Add	320.60		
23 34 23 00-0017	EA	3 HP, 11,703 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	7,015.62	763.64	
		For 12" Roof Curb, Add	373.31		
		For Backdraft Damper, Add	334.01		
		For Damper Motor, Add	320.60		
23 34 23 00-0018	EA	5 HP, 13,897 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	5,666.50	763.64	
		For 12" Roof Curb, Add	373.31		
		For Backdraft Damper, Add	334.01		
		For Damper Motor, Add	320.60		
23 34 23 00-0019 Propeller Exhaust Fans, Roof Mounted Upblast (23 34 23 00-0001)					
Note: Includes back draft damper and bird screen and curb.					
23 34 23 00-0020	EA	30,300 CFM Belt Drive 5 HP Propeller Exhaust Fan, Roof Mounted, 3/8" Static Pressure	9,001.31	939.59	
23 34 23 00-0021	EA	36,000 CFM Belt Drive 15 HP Propeller Exhaust Fan, Roof Mounted, 1/2" Static Pressure	14,797.52	1,221.47	
23 34 23 00-0022 Belt Drive Supply Fans (23 34 23 00-0001)					
23 34 23 00-0023	EA	4,500 CFM, 24" x 24" Supply Fan, Roof Mounted	3,539.60	487.88	
23 34 23 00-0024	EA	10,000 CFM, 36" x 36" Supply Fan, Roof Mounted	4,790.93	610.80	
23 34 23 00-0025 Fan Thermostat (23 34 23 00-0001)					
23 34 23 00-0026	EA	50 To 120 Degree Line Voltage Fan Thermostat.....	158.95		
23 34 23 00-0027 Power Wall Ventilators (23 34 23)					
23 34 23 00-0028 Centrifugal Sidewall Exhausters (23 34 23 00-0027)					
23 34 23 00-0029 Direct Drive, Aluminum, Centrifugal Sidewall Exhauster (23 34 23 00-0028)					
Note: Greenheck CW.					
23 34 23 00-0030	EA	1/25 HP, 297 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster	896.61	196.71	
		For Solid State Speed Control, Add	194.98		
		For Backdraft Damper, Add	257.38		
		For Damper Motor, Add	558.79		
		For Interior Wall Grill, Add	149.20		



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Fans			23 34

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 23 00-0031	EA	1/8 HP, 861 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster	1,029.00	230.93	
		For Solid State Speed Control, Add	194.98		
		For Backdraft Damper, Add	283.61		
		For Damper Motor, Add	558.79		
		For Interior Wall Grill, Add	177.82		
23 34 23 00-0032	EA	1/6 HP, 1,179 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster	1,536.32	260.25	
		For Solid State Speed Control, Add	194.98		
		For Backdraft Damper, Add	320.39		
		For Damper Motor, Add	558.79		
		For Interior Wall Grill, Add	206.44		
23 34 23 00-0033 Belt Drive, Aluminum, Centrifugal Sidewall Exhausters (23 34 23 00-0028)					
Note: Greenheck CWB.					
23 34 23 00-0034	EA	1/4 HP, 1,633 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster	2,793.91	147.01	
		For Solid State Speed Control, Add	194.98		
		For Backdraft Damper, Add	294.63		
		For Damper Motor, Add	558.79		
		For Interior Wall Grill, Add	314.95		
23 34 23 00-0035	EA	1/2 HP, 2,291 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster	2,949.71	165.56	
		For Solid State Speed Control, Add	194.98		
		For Backdraft Damper, Add	294.63		
		For Damper Motor, Add	558.79		
		For Interior Wall Grill, Add	314.95		
23 34 23 00-0036	EA	3/4 HP, 3,646 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster	3,625.23	189.39	
		For Solid State Speed Control, Add	194.98		
		For Backdraft Damper, Add	370.95		
		For Damper Motor, Add	558.79		
		For Interior Wall Grill, Add	366.40		
23 34 33 Air Curtains (23 34)					
23 34 33 00-0001 Unheated Air Curtains For Entrances (23 34 33)					
23 34 33 00-0002 Unheated Air Curtains, Standard Velocity (23 34 33 00-0001)					
23 34 33 00-0003	EA	Air Curtain For 3' x 8' - 10' Personnel Entrance, Unheated	2,601.91	895.60	
		Note: Includes housing, mounting brackets and manual controls.			
		For Door Limit Switch, Combination Roller And Plunger, Add	213.38		
		For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	580.86		
		For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	431.49		
		For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	663.84		
		For Flat Side Extension Plates, Add	177.73		
		For Clearance Adjustable-Angle Mounting Bracket, Add	355.45		
		For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54		
		For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24		
23 34 33 00-0004	EA	Air Curtain For 3.5' x 8' - 10' Personnel Entrance, Unheated	2,638.51	895.60	
		Note: Includes housing, mounting brackets and manual controls.			
		For Door Limit Switch, Combination Roller And Plunger, Add	213.38		
		For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	580.86		
		For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	431.49		
		For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	663.84		
		For Flat Side Extension Plates, Add	177.73		
		For Clearance Adjustable-Angle Mounting Bracket, Add	355.45		
		For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54		
		For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24		
23 34 33 00-0005	EA	Air Curtain For 4' x 8' - 10' Personnel Entrance, Unheated	2,678.15	895.60	
		Note: Includes housing, mounting brackets and manual controls.			
		For Door Limit Switch, Combination Roller And Plunger, Add	213.38		
		For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	580.86		
		For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	431.49		
		For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	663.84		
		For Flat Side Extension Plates, Add	177.73		
		For Clearance Adjustable-Angle Mounting Bracket, Add	355.45		
		For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54		
		For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24		
23 34 33 00-0006	EA	Air Curtain For 5' x 8' - 10' Personnel Entrance, Unheated	3,333.86	895.60	
		Note: Includes housing, mounting brackets and manual controls.			
		For Door Limit Switch, Combination Roller And Plunger, Add	213.38		
		For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	580.86		
		For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	431.49		
		For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	663.84		
		For Flat Side Extension Plates, Add	177.73		
		For Clearance Adjustable-Angle Mounting Bracket, Add	355.45		
		For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54		
		For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24		
23 34 33 00-0007	EA	Air Curtain For 6' x 8' - 10' Personnel Entrance, Unheated	3,782.27	1,075.21	
		Note: Includes housing, mounting brackets and manual controls.			
		For Door Limit Switch, Combination Roller And Plunger, Add	213.38		
		For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	580.86		
		For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	431.49		
		For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	663.84		
		For Flat Side Extension Plates, Add	177.73		
		For Clearance Adjustable-Angle Mounting Bracket, Add	355.45		
		For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54		
		For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0008 EA Air Curtain For 7' x 8' - 10' Personnel Entrance, Unheated.....	4,011.00	1,075.21
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	213.38	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	580.86	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	431.49	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	663.84	
For Flat Side Extension Plates, Add	177.73	
For Clearance Adjustable-Angle Mounting Bracket, Add	355.45	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24	
23 34 33 00-0009 EA Air Curtain For 8' x 8' - 10' Personnel Entrance, Unheated.....	4,444.63	1,240.16
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	213.38	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	580.86	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	431.49	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	663.84	
For Flat Side Extension Plates, Add	177.73	
For Clearance Adjustable-Angle Mounting Bracket, Add	355.45	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24	
23 34 33 00-0010 EA Air Curtain For 9' x 8' - 10' Personnel Entrance, Unheated.....	5,358.05	1,240.16
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	213.38	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	580.86	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	431.49	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	663.84	
For Flat Side Extension Plates, Add	177.73	
For Clearance Adjustable-Angle Mounting Bracket, Add	355.45	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24	
23 34 33 00-0011 EA Air Curtain For 10' x 8' - 10' Personnel Entrance, Unheated.....	5,473.94	1,240.16
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	213.38	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	580.86	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	431.49	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	663.84	
For Flat Side Extension Plates, Add	177.73	
For Clearance Adjustable-Angle Mounting Bracket, Add	355.45	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24	
23 34 33 00-0012 EA Air Curtain For 12' x 8' - 10' Personnel Entrance, Unheated.....	5,781.97	1,240.16
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	213.38	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	580.86	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	431.49	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	663.84	
For Flat Side Extension Plates, Add	177.73	
For Clearance Adjustable-Angle Mounting Bracket, Add	355.45	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24	
23 34 33 00-0013 Unheated Air Curtains, High Velocity (23 34 33 00-0001)		
23 34 33 00-0014 EA High Velocity Air Curtain For 3' x 10' - 12' Entrance, Unheated.....	3,208.82	895.60
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	213.38	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	355.45	
For Flat Side Extension Plates, Add	177.73	
For Clearance Adjustable-Angle Mounting Bracket, Add	355.45	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24	
23 34 33 00-0015 EA High Velocity Air Curtain For 3.5' x 10' - 12' Entrance, Unheated.....	3,256.09	895.60
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	213.38	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	355.45	
For Flat Side Extension Plates, Add	177.73	
For Clearance Adjustable-Angle Mounting Bracket, Add	355.45	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24	
23 34 33 00-0016 EA High Velocity Air Curtain For 4' x 10' - 12' Entrance, Unheated.....	3,275.91	895.60
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	213.38	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	355.45	
For Flat Side Extension Plates, Add	177.73	
For Clearance Adjustable-Angle Mounting Bracket, Add	355.45	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24	
23 34 33 00-0017 EA High Velocity Air Curtain For 5' x 10' - 12' Entrance, Unheated.....	3,314.04	895.60
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	213.38	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	355.45	
For Flat Side Extension Plates, Add	177.73	
For Clearance Adjustable-Angle Mounting Bracket, Add	355.45	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	426.54	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	450.24	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Fans			23 34	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0018 EA High Velocity Air Curtain For 6' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. For Door Limit Switch, Combination Roller And Plunger, Add For Industrial Floor-Mounted Magnetic Reed Switch Only, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	5,172.98 213.38 355.45 177.73 355.45 426.54 450.24	1,075.21
23 34 33 00-0019 EA High Velocity Air Curtain For 7' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. For Door Limit Switch, Combination Roller And Plunger, Add For Industrial Floor-Mounted Magnetic Reed Switch Only, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	5,407.81 213.38 355.45 177.73 355.45 426.54 450.24	1,075.21
23 34 33 00-0020 EA High Velocity Air Curtain For 8' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. For Door Limit Switch, Combination Roller And Plunger, Add For Industrial Floor-Mounted Magnetic Reed Switch Only, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	5,754.52 213.38 355.45 177.73 355.45 426.54 450.24	1,240.16
23 34 33 00-0021 EA High Velocity Air Curtain For 9' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. For Door Limit Switch, Combination Roller And Plunger, Add For Industrial Floor-Mounted Magnetic Reed Switch Only, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	6,567.29 213.38 355.45 177.73 355.45 426.54 450.24	1,240.16
23 34 33 00-0022 EA High Velocity Air Curtain For 10' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. For Door Limit Switch, Combination Roller And Plunger, Add For Industrial Floor-Mounted Magnetic Reed Switch Only, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	6,652.69 213.38 355.45 177.73 355.45 426.54 450.24	1,240.16
23 34 33 00-0023 EA High Velocity Air Curtain For 12' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. For Door Limit Switch, Combination Roller And Plunger, Add For Industrial Floor-Mounted Magnetic Reed Switch Only, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	6,985.12 213.38 355.45 177.73 355.45 426.54 450.24	1,240.16
23 34 33 00-0024 Service Window Unheated Air Curtains (23 34 33 00-0001) Note: Normal window sizes.		
23 34 33 00-0025 EA Air Curtain For 2.5' x 5' Service Window, Unheated..... Note: Includes housing, mounting brackets and manual controls. For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	2,328.06 213.38 177.73 355.45 426.54 450.24	706.22
23 34 33 00-0026 Heated Air Curtains For Entrances (23 34 33) Note: Includes housing, mounting brackets and manual controls.		
23 34 33 00-0027 EA 60" Heated Air Curtain With 1- 300 MBH Heater..... For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	4,386.52 213.38 177.73 355.45 426.54 450.24	788.70
23 34 33 00-0028 EA 60" Heated Air Curtain With 1- 400 MBH Heater..... For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	4,761.02 213.38 177.73 355.45 426.54 450.24	788.70
23 34 33 00-0029 EA 72" Heated Air Curtain With 1- 350 MBH Heater..... For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	5,263.04 213.38 177.73 355.45 426.54 450.24	946.31

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0030 EA 72" Heated Air Curtain With 2- 250 MBH Heaters For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	5,712.44 213.38 177.73 355.45 426.54 450.24	946.31
23 34 33 00-0031 EA 96" Heated Air Curtain With 1- 400 MBH Heater For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	7,016.35 213.38 177.73 355.45 426.54 450.24	1,261.54
23 34 33 00-0032 EA 96" Heated Air Curtain With 2- 350 MBH Heaters For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	7,615.55 213.38 177.73 355.45 426.54 450.24	1,261.54
23 34 33 00-0033 EA 117" Heated Air Curtain With 2- 300 MBH Heaters For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	8,550.08 213.38 177.73 355.45 426.54 450.24	1,537.06
23 34 33 00-0034 EA 117" Heated Air Curtain With 2- 400 MBH Heaters For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	9,280.35 213.38 177.73 355.45 426.54 450.24	1,537.06
23 34 33 00-0035 EA 147" Heated Air Curtain With 2- 350 MBH Heaters For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	10,743.09 213.38 177.73 355.45 426.54 450.24	1,931.10
23 34 33 00-0036 EA 147" Heated Air Curtain With 3- 350 MBH Heaters For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	12,559.41 213.38 177.73 355.45 426.54 450.24	1,931.10
23 34 33 00-0037 EA 168" Heated Air Curtain With 2- 400 MBH Heaters For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	12,278.62 213.38 177.73 355.45 426.54 450.24	2,207.24
23 34 33 00-0038 EA 168" Heated Air Curtain With 3- 400 MBH Heaters For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	14,353.97 213.38 177.73 355.45 426.54 450.24	2,207.24
23 34 33 00-0039 EA 192" Heated Air Curtain With 2- 400 MBH Heaters For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	14,028.55 213.38 177.73 355.45 426.54 450.24	2,522.47
23 34 33 00-0040 EA 192" Heated Air Curtain With 4- 350 MBH Heaters For Door Limit Switch, Combination Roller And Plunger, Add For Flat Side Extension Plates, Add For Clearance Adjustable-Angle Mounting Bracket, Add For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	16,400.38 213.38 177.73 355.45 426.54 450.24	2,522.47

23 34 39 High-Volume, Low-Speed Propeller Fans (23 34)

Note: (Air Destratification Fans)

23 34 39 00-0001	Variable Speed Ceiling Fans (Big Ass Fans® Powerfoil 5®) (23 34 39)		
23 34 39 00-0002 EA 8' Diameter, 5 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil 5®, 8', PF5-8).....	8,274.96	977.47	
23 34 39 00-0003 EA 10' Diameter, 5 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil 5®, 10', PF5-10).....	8,494.30	1,038.56	
23 34 39 00-0004 EA 12' Diameter, 5 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil 5®, 12', PF5-12).....	8,713.64	1,099.65	
23 34 39 00-0005 EA 14' Diameter, 5 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil 5®, 14', PF5-14).....	8,932.98	1,160.75	
23 34 39 00-0006 EA 16' Diameter, 5 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil 5®, 16', PF5-16).....	9,152.33	1,221.84	
23 34 39 00-0007 EA 18' Diameter, 5 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil 5®, 18', PF5-18).....	9,371.66	1,282.93	
23 34 39 00-0008 EA 20' Diameter, 5 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil 5®, 20', PF5-20).....	9,591.00	1,344.02	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Fans			23 34

23

MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
23 34 39 00-0009	EA	24' Diameter, 5 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil 5®, 24', PF5-24).....	9,907.50		1,405.10
23 34 39 00-0010		Variable Speed Ceiling Fans (Big Ass Fans® Powerfoil X4®) (23 34 39)			
23 34 39 00-0011	EA	12' Diameter, 8 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil X4®, PFX4-12).....	12,229.74		1,099.65
23 34 39 00-0012	EA	14' Diameter, 8 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil X4®, PFX4-14).....	12,449.07		1,160.75
23 34 39 00-0013	EA	16' Diameter, 8 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil X4®, PFX4-16).....	12,668.42		1,221.84
23 34 39 00-0014	EA	18' Diameter, 8 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil X4®, PFX4-18).....	12,887.76		1,282.93
23 34 39 00-0015	EA	20' Diameter, 8 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil X4®, PFX4-20).....	13,107.09		1,344.02
23 34 39 00-0016	EA	24' Diameter, 8 Airfoil Blades, Variable Speed Ceiling Fan With Controller (Big Ass Fans® Powerfoil X4®, PFX4-24).....	13,423.60		1,405.10

23 35 Special Exhaust Systems (23 30)

See CSI section 23 31 13 16-0075 for spiral duct/piping.

23 35 13 Dust Collection Systems (23 35)

23 35 13 13 Sawdust Collection Systems (23 35 13)

23 35 13 13-0001		Dust Collector System (23 35 13 13)			
23 35 13 13-0002	EA	1.5 HP Dust Collector Central Vacuum Unit.....	4,822.10		1,059.55
		Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.			
23 35 13 13-0003	EA	2 HP Dust Collector Central Vacuum Unit.....	5,406.16		1,258.22
		Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.			
23 35 13 13-0004	EA	2-1/2 HP Dust Collector Central Vacuum Unit.....	6,495.23		1,456.88
		Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.			
23 35 13 13-0005	EA	3 HP Dust Collector Central Vacuum Unit.....	7,408.56		1,721.77
		Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.			
23 35 13 13-0006	EA	5 HP Dust Collector Central Vacuum Unit.....	15,574.13		1,944.03
		Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.			
23 35 13 13-0007	EA	7-1/2 HP Dust Collector Central Vacuum Unit.....	18,895.77		2,268.03
		Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.			
23 35 13 13-0008	EA	10 HP Dust Collector Central Vacuum Unit.....	21,644.47		2,592.04
		Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.			
23 35 13 13-0009	EA	15 HP Dust Collector Central Vacuum Unit.....	24,337.60		2,980.85
		Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin.			
23 35 13 13-0010	EA	20 HP Dust Collector Central Vacuum Unit.....	27,156.96		3,369.65
		Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin.			

23 35 13 13-0011 Vacuum Tubing And Accessories (23 35 13 13)

23 35 13 13-0012 Vacuum Tubing (23 35 13 13-0011)

23 35 13 13-0013 Flexible Hose (23 35 13 13-0012)

23 35 13 13-0014	LF	2" Flexible Hose.....	13.63		2.19
23 35 13 13-0015	LF	3" Flexible Hose.....	16.32		2.45
23 35 13 13-0016	LF	4" Flexible Hose.....	17.71		2.69

23 35 13 13-0017 Galvanized Vacuum Tubing (23 35 13 13-0012)

23 35 13 13-0018	LF	2-1/8" Outside Diameter Vacuum Tubing, Galvanized.....	10.98		2.19
23 35 13 13-0019	LF	2-1/2" Outside Diameter Vacuum Tubing, Galvanized.....	12.27		2.33
23 35 13 13-0020	LF	3" Outside Diameter Vacuum Tubing, Galvanized.....	14.54		2.45
23 35 13 13-0021	LF	3-1/2" Outside Diameter Vacuum Tubing, Galvanized.....	18.82		2.57
23 35 13 13-0022	LF	4" Outside Diameter Vacuum Tubing, Galvanized.....	19.36		2.69
23 35 13 13-0023	LF	5" Outside Diameter Vacuum Tubing, Galvanized.....	31.79		3.05
23 35 13 13-0024	LF	6" Outside Diameter Vacuum Tubing, Galvanized.....	35.84		3.54
23 35 13 13-0025	LF	8" Outside Diameter Vacuum Tubing, Galvanized.....	48.51		4.89
23 35 13 13-0026	LF	10" Outside Diameter Vacuum Tubing, Galvanized.....	56.89		6.11
23 35 13 13-0027	LF	12" Outside Diameter Vacuum Tubing, Galvanized.....	140.50		8.06

23 35 13 13-0028 Vacuum Fittings, Galvanized (23 35 13 13-0011)

23 35 13 13-0029 90 Degree Elbow (23 35 13 13-0028)

23 35 13 13-0030	EA	2-1/8" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	55.66		14.05
23 35 13 13-0031	EA	2-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	68.41		15.03
23 35 13 13-0032	EA	3" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	84.82		16.37
23 35 13 13-0033	EA	3-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	99.78		17.72
23 35 13 13-0034	EA	4" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	118.55		19.55
23 35 13 13-0035	EA	5" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	193.87		21.75
23 35 13 13-0036	EA	6" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	256.45		24.44
23 35 13 13-0037	EA	8" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	458.04		32.62

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 35 Special Exhaust Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 13 13-0038	45 Degree Elbow (23 35 13 13-0028)			
23 35 13 13-0039	EA	2-1/8" 45 Degree Elbow, Vacuum Tubing, Galvanized	52.32	14.05
23 35 13 13-0040	EA	2-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized	65.66	15.03
23 35 13 13-0041	EA	3" 45 Degree Elbow, Vacuum Tubing, Galvanized	75.57	16.37
23 35 13 13-0042	EA	3-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized	89.35	17.72
23 35 13 13-0043	EA	4" 45 Degree Elbow, Vacuum Tubing, Galvanized	108.90	19.55
23 35 13 13-0044	EA	5" 45 Degree Elbow, Vacuum Tubing, Galvanized	160.40	21.75
23 35 13 13-0045	EA	6" 45 Degree Elbow, Vacuum Tubing, Galvanized	207.24	24.44
23 35 13 13-0046	EA	8" 45 Degree Elbow, Vacuum Tubing, Galvanized	375.37	32.62
23 35 13 13-0047	Wye (23 35 13 13-0028)			
23 35 13 13-0048	EA	2-1/8" Wye, Vacuum Tubing, Galvanized	100.55	23.21
23 35 13 13-0049	EA	2-1/2" Wye, Vacuum Tubing, Galvanized	120.14	25.04
23 35 13 13-0050	EA	3" Wye, Vacuum Tubing, Galvanized	145.83	26.88
23 35 13 13-0051	EA	3-1/2" Wye, Vacuum Tubing, Galvanized	176.46	29.94
23 35 13 13-0052	EA	4" Wye, Vacuum Tubing, Galvanized	233.63	32.38
23 35 13 13-0053	EA	5" Wye, Vacuum Tubing, Galvanized	390.65	36.05
23 35 13 13-0054	EA	6" Wye, Vacuum Tubing, Galvanized	516.03	40.93
23 35 13 13-0055	EA	8" Wye, Vacuum Tubing, Galvanized	1,011.67	44.59
23 35 13 13-0056	EA	10" Wye, Vacuum Tubing, Galvanized	1,398.27	48.87
23 35 13 13-0057	EA	12" Wye, Vacuum Tubing, Galvanized	1,764.97	54.74
23 35 13 13-0058	Reducer (23 35 13 13-0028)			
23 35 13 13-0059	EA	3" Reducer, Vacuum Tubing, Galvanized	57.85	16.37
23 35 13 13-0060	EA	4" Reducer, Vacuum Tubing, Galvanized	64.24	17.72
23 35 13 13-0061	EA	5" Reducer, Vacuum Tubing, Galvanized	80.53	19.55
23 35 13 13-0062	EA	6" Reducer, Vacuum Tubing, Galvanized	87.01	21.75
23 35 13 13-0063	EA	8" Reducer, Vacuum Tubing, Galvanized	101.59	24.44
23 35 13 13-0064	Air Gate Valve, Galvanized (23 35 13 13-0011)			
23 35 13 13-0065	EA	2-1/8" Air Gate Valve, Vacuum Tubing, Galvanized	383.41	32.62
23 35 13 13-0066	EA	2-1/2" Air Gate Valve, Vacuum Tubing, Galvanized	401.77	34.82
23 35 13 13-0067	EA	3" Air Gate Valve, Vacuum Tubing, Galvanized	461.11	37.51
23 35 13 13-0068	EA	3-1/2" Air Gate Valve, Vacuum Tubing, Galvanized	524.62	40.07
23 35 13 13-0069	EA	4" Air Gate Valve, Vacuum Tubing, Galvanized	591.00	42.52
23 35 13 13-0070	EA	5" Air Gate Valve, Vacuum Tubing, Galvanized	697.50	48.51
23 35 13 13-0071	EA	6" Air Gate Valve, Vacuum Tubing, Galvanized	802.96	54.37
23 35 16	Engine Exhaust Systems (23 35)			
23 35 16 16	Mechanical Engine Exhaust Systems (23 35 16)			
23 35 16 16-0001	Overhead Tailpipe Exhaust System (23 35 16 16)			
23 35 16 16-0002	Overhead Tailpipe Exhaust Blowers (23 35 16 16-0001)			
23 35 16 16-0003	Overhead Direct Drive Tailpipe Exhaust Blowers (23 35 16 16-0002)			
23 35 16 16-0004	EA	495 CFM 1/3 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System	3,957.89	260.25
23 35 16 16-0005	EA	1,445 CFM 3/4 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System	4,562.06	531.50
23 35 16 16-0006	EA	1,840 CFM 1-1/2 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System	6,357.30	643.91
23 35 16 16-0007	Overhead Belt Drive Tailpipe Exhaust Blowers (23 35 16 16-0002)			
23 35 16 16-0008	EA	1,400 CFM 1 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System	4,434.42	531.50
23 35 16 16-0009	EA	2,023 CFM 1-1/2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System	4,717.72	643.91
23 35 16 16-0010	EA	2,750 CFM 2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System	5,627.23	1,019.01
23 35 16 16-0011	EA	4,400 CFM 3 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System	6,881.18	1,314.69
23 35 16 16-0012	EA	7,060 CFM 5 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System	8,703.79	1,566.39
23 35 16 16-0013	Spiral Exhaust Duct Accessories (23 35 16 16-0001)			
23 35 16 16-0014	Flex Hose x Length (23 35 16 16-0013) Note: Includes duct coupler, damper and tailpipe adapter.			
23 35 16 16-0015	EA	3" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	193.46	64.76
23 35 16 16-0016	EA	3" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	163.85	64.76
23 35 16 16-0017	EA	4" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	296.22	102.64
23 35 16 16-0018	EA	4" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	246.74	102.64
23 35 16 16-0019	EA	5" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	417.44	162.50
23 35 16 16-0020	EA	5" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	399.73	162.50
23 35 16 16-0021	EA	6" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	636.36	257.81
23 35 16 16-0022	EA	6" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	599.12	257.81
23 35 16 16-0023	Flex Hose With Duct Coupler, Damper And Diesel Exhaust Adapter (23 35 16 16-0013)			
23 35 16 16-0024	EA	4" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	217.07	64.76



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Special Exhaust Systems			23 35

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 16 16-0025 EA 5" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	313.46	102.64
23 35 16 16-0026 EA 4" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	182.97	64.76
23 35 16 16-0027 EA 5" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	262.86	102.64
23 35 16 16-0028 EA 6" x 25' High Pressure, Stainless Steel Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	1,774.79	87.23
23 35 16 16-0029 EA 8" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter	1,538.53	160.06
23 35 16 16-0030 EA 10" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter.....	1,698.88	160.06
23 35 16 16-0031 LF 8" Heat-Resistant Fabric Flex Hose (650 Degree F.)	81.26	12.46
23 35 16 16-0032 LF 10" Heat-Resistant Fabric Flex Hose (650 Degree F.).....	91.11	12.46
23 35 16 16-0033 Flexible Hose (23 35 16 16-0013)		
23 35 16 16-0034 LF 3" Stainless Steel Flexible Tubing	27.55	3.05
23 35 16 16-0035 LF 4" Stainless Steel Flexible Tubing	34.65	3.42
23 35 16 16-0036 LF 5" Stainless Steel Flexible Tubing	40.82	3.54
23 35 16 16-0037 LF 6" Stainless Steel Flexible Tubing	47.84	3.78
23 35 16 16-0038 LF 3" Galvanized Flexible Tubing	21.91	3.05
23 35 16 16-0039 LF 4" Galvanized Flexible Tubing	25.66	3.42
23 35 16 16-0040 LF 5" Galvanized Flexible Tubing	29.34	3.54
23 35 16 16-0041 LF 6" Galvanized Flexible Tubing	32.68	3.78
23 35 16 16-0042 Accessories (23 35 16 16-0001)		
23 35 16 16-0043 EA 3" Tail Pipe Adapter.....	67.27	9.16
23 35 16 16-0044 EA 4" Tail Pipe Adapter.....	69.23	9.16
23 35 16 16-0045 EA 5" Tail Pipe Adapter.....	73.63	10.39
23 35 16 16-0046 EA 3" Bullnose (Guide).....	37.23	6.11
23 35 16 16-0047 EA 4" Bullnose (Guide).....	39.54	6.72
23 35 16 16-0048 EA 5" Bullnose (Guide).....	42.19	7.33
23 35 16 16-0049 EA Flex-Hose Winch And Associated Hardware	270.28	69.28
23 35 16 16-0050 LF Flex-Hose Winch Cable, 1/8" Galvanized Wire Rope	0.16	
23 35 19 Fume Exhaust Systems (23 35)		
23 35 19 00-0001 EA Fume Exhauster, 1 1/2 HP 630 CFM With Out Hose And Intake Nozzle.....	2,769.37	488.36
23 35 19 00-0002 EA Hose Extension Kit 5'	448.00	108.49
23 36 Air Terminal Units (23 30)		
23 36 13 Constant-Air-Volume Units (23 36)		
23 36 13 00-0001 Vertical Units, With Electric Heating Coils (23 36 13)		
23 36 13 00-0002 EA 60 CFM Vertical Induction Unit, With Electric Heating Coils.....	1,919.32	156.86
23 36 13 00-0003 EA 90 CFM Vertical Induction Unit, With Electric Heating Coils	2,314.04	168.92
23 36 13 00-0004 EA 120 CFM Vertical Induction Unit, With Electric Heating Coils	2,470.13	174.96
23 36 13 00-0005 EA 150 CFM Vertical Induction Unit, With Electric Heating Coils	2,638.30	187.02
23 36 13 00-0006 EA 175 CFM Vertical Induction Unit, With Electric Heating Coils	2,980.75	193.05
23 36 13 00-0007 Horizontal Units, With Electric Heating Coils (23 36 13)		
23 36 13 00-0008 EA 60 CFM Horizontal Induction Unit, With Electric Heating Coils	1,622.98	156.86
23 36 13 00-0009 EA 90 CFM Horizontal Induction Unit, With Electric Heating Coils	1,943.45	168.92
23 36 13 00-0010 EA 120 CFM Horizontal Induction Unit, With Electric Heating Coils	2,325.04	177.98
23 36 13 00-0011 Duct Boxes, Constant Volume Control (23 36 13)		
23 36 13 00-0012 Single Duct Boxes, Constant Volume Control (23 36 13 00-0011)		
23 36 13 00-0013 EA 4 - 6" Diameter Inlet, 50 - 240 CFM, Single Duct Boxes, Constant Volume Control.....	1,448.47	50.32
For Boxes With Motor, Add	249.96	
23 36 13 00-0014 EA 6 - 8" Diameter Inlet, 100 - 480 CFM, Single Duct Boxes, Constant Volume Control	1,603.13	54.30
For Boxes With Motor, Add	277.28	
23 36 13 00-0015 EA 7 - 10" Diameter Inlet, 150 - 720 CFM, Single Duct Boxes, Constant Volume Control	1,665.78	59.60
For Boxes With Motor, Add	285.48	
23 36 13 00-0016 EA 9 - 12" Diameter Inlet, 200 - 960 CFM, Single Duct Boxes, Constant Volume Control	1,696.20	62.25
For Boxes With Motor, Add	289.57	
23 36 13 00-0017 EA 12" Diameter Inlet, 250 - 1,200 CFM, Single Duct Boxes, Constant Volume Control	1,721.89	68.87
For Boxes With Motor, Add	289.57	
23 36 13 00-0018 EA 14" Diameter Inlet, 350 - 1,680 CFM, Single Duct Boxes, Constant Volume Control	1,969.19	76.82
For Boxes With Motor, Add	331.92	
23 36 13 00-0019 EA 16" Diameter Inlet, 450 - 2,160 CFM, Single Duct Boxes, Constant Volume Control	2,066.55	86.09
For Boxes With Motor, Add	344.21	
23 36 13 00-0020 EA 20" x 16" Inlet, 550 - 2,640 CFM, Single Duct Boxes, Constant Volume Control.....	2,194.15	103.31
For Boxes With Motor, Add	356.62	
23 36 13 00-0021 EA 24" x 16" Inlet, 650 - 3,120 CFM, Single Duct Boxes, Constant Volume Control.....	2,320.78	119.20
For Boxes With Motor, Add	368.80	
23 36 13 00-0022 Dual Duct Boxes, Constant Volume Control (23 36 13 00-0011)		
23 36 13 00-0023 EA 4 - 6" Diameter Inlet, 50 - 240 CFM, Dual Duct Boxes, Constant Volume Control.....	2,036.43	50.32
For Boxes With Motor, Add	367.55	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 36 Air Terminal Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 36 13 00-0024 EA 6 - 8" Diameter Inlet, 100 - 480 CFM, Dual Duct Boxes, Constant Volume Control.....	2,178.56	54.30
For Boxes With Motor, Add	392.37	
23 36 13 00-0025 EA 7 - 10" Diameter Inlet, 150 - 720 CFM, Dual Duct Boxes, Constant Volume Control.....	2,273.90	59.60
For Boxes With Motor, Add	407.10	
23 36 13 00-0026 EA 9 - 12" Diameter Inlet, 200 - 960 CFM, Dual Duct Boxes, Constant Volume Control.....	2,369.13	62.25
For Boxes With Motor, Add	424.16	
23 36 13 00-0027 EA 12" Diameter Inlet, 250 - 1,200 CFM, Dual Duct Boxes, Constant Volume Control.....	2,394.82	68.87
For Boxes With Motor, Add	424.16	
23 36 13 00-0028 EA 14" Diameter Inlet, 350 - 1,680 CFM, Dual Duct Boxes, Constant Volume Control.....	2,752.21	78.14
For Boxes With Motor, Add	488.52	
23 36 13 00-0029 EA 16" Diameter Inlet, 450 - 2,160 CFM, Dual Duct Boxes, Constant Volume Control.....	3,008.91	86.09
For Boxes With Motor, Add	532.72	
23 36 13 00-0030 EA 20" x 16" Inlet, 550 - 2,640 CFM, Dual Duct Boxes, Constant Volume Control	3,241.34	103.31
For Boxes With Motor, Add	566.06	
23 36 13 00-0031 EA 24" x 16" Inlet, 650 - 3,120 CFM, Dual Duct Boxes, Constant Volume Control	3,384.66	119.20
For Boxes With Motor, Add	581.57	

23 36 16 Variable-Air-Volume Units (23 36)**23 36 16 00-0001 Variable Volume Terminal Unit (23 36 16)**

Note: Includes flow controllers, insulated plenum, system powered box mounted thermostat.

23 36 16 00-0002 Single Duct Variable Volume Terminal Unit (23 36 16 00-0001)

Note: Enclosure only. For mounting DDC controls.

23 36 16 00-0003 EA 6" Diameter Inlet, 80 To 500 CFM, Variable Air Volume Box With Enclosure Only	632.52	60.92
Note: For mounting DDC controls		
For Filters And Frames, Add	6.30	
23 36 16 00-0004 EA 8" Diameter Inlet, 145 To 900 CFM, Variable Air Volume Box With Enclosure Only	707.86	68.87
Note: For mounting DDC controls		
For Filters And Frames, Add	6.30	
23 36 16 00-0005 EA 10" Diameter Inlet, 230 To 1,400 CFM, Variable Air Volume Box With Enclosure Only	788.05	76.82
Note: For mounting DDC controls		
For Filters And Frames, Add	6.30	
23 36 16 00-0006 EA 12" Diameter Inlet, 325 To 2,000 CFM, Variable Air Volume Box With Enclosure Only	841.27	86.09
Note: For mounting DDC controls		
For Filters And Frames, Add	6.30	
23 36 16 00-0007 EA 14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With Enclosure Only	1,160.25	185.29
Note: For mounting DDC controls		
For Filters And Frames, Add	6.30	
23 36 16 00-0008 EA 16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With Enclosure Only	1,401.20	219.86
Note: For mounting DDC controls		
For Filters And Frames, Add	6.30	

23 36 16 00-0009 Single Duct Variable Volume Terminal Unit (23 36 16 00-0001)

Note: With pneumatic controls.

23 36 16 00-0010 EA 6" Diameter Inlet, 80 - 500 CFM, Variable Air Volume Box With pneumatic controller	1,319.43	60.92
For Fan Powered Variable Air Volume Box, Add	1,390.89	
For Hot Water Coils, Add	437.42	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	
23 36 16 00-0011 EA 8" Diameter Inlet, 145 - 900 CFM, Variable Air Volume Box With pneumatic controller	1,427.00	68.87
For Fan Powered Variable Air Volume Box, Add	1,489.73	
For Hot Water Coils, Add	467.59	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	
23 36 16 00-0012 EA 10" Diameter Inlet, 230 - 1,400 CFM, Variable Air Volume Box With pneumatic controller	1,494.80	76.82
For Fan Powered Variable Air Volume Box, Add	1,536.31	
For Hot Water Coils, Add	480.66	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	
23 36 16 00-0013 EA 12" Diameter Inlet, 325 - 2,000 CFM, Variable Air Volume Box With pneumatic controller	1,560.42	86.09
For Fan Powered Variable Air Volume Box, Add	1,579.83	
For Hot Water Coils, Add	492.73	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	
23 36 16 00-0014 EA 14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With pneumatic controller	1,812.44	185.29
For Fan Powered Variable Air Volume Box, Add	1,773.39	
For Hot Water Coils, Add	549.04	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	
23 36 16 00-0015 EA 16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With pneumatic controller	2,107.95	219.86
For Fan Powered Variable Air Volume Box, Add	1,924.04	
For Hot Water Coils, Add	586.24	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	

23 36 16 00-0016 Single Duct Variable Volume Terminal Unit (23 36 16 00-0001)

Note: With analog electronic controls.

23 36 16 00-0017 EA 6" Diameter Inlet, 60 To 500 CFM, Variable Air Volume Box With Analog Electronic Controls	2,174.96	60.92
For Hot Water Coils, Add	784.34	
For Filters And Frames, Add	6.30	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Terminal Units			23 36	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 36 16 00-0018	EA		8" Diameter Inlet, 105 To 900 CFM, Variable Air Volume Box With Analog Electronic Controls	2,262.70	68.87
			For Hot Water Coils, Add	806.46	
			For Filters And Frames, Add	6.30	
23 36 16 00-0019	EA		10" Diameter Inlet, 165 To 1,400 CFM, Variable Air Volume Box With Analog Electronic Controls	2,342.89	76.82
			For Hot Water Coils, Add	824.56	
			For Filters And Frames, Add	6.30	
23 36 16 00-0020	EA		12" Diameter Inlet, 235 To 2,000 CFM, Variable Air Volume Box With Analog Electronic Controls	2,455.63	86.09
			For Hot Water Coils, Add	855.73	
			For Filters And Frames, Add	6.30	
23 36 16 00-0021	EA		14" Diameter Inlet, 320 To 3,000 CFM, Variable Air Volume Box With Analog Electronic Controls	2,710.13	185.29
			For Hot Water Coils, Add	913.05	
			For Filters And Frames, Add	6.30	
23 36 16 00-0022	EA		16" Diameter Inlet, 420 To 4,000 CFM, Variable Air Volume Box With Analog Electronic Controls	2,759.72	185.29
			For Hot Water Coils, Add	933.16	
			For Filters And Frames, Add	6.30	
23 36 16 00-0023 Dual Duct Variable Volume Terminal Unit (23 36 16 00-0001)					
Note: With flow control installation, plenum system power box, thermostat.					
23 36 16 00-0024	EA		6" Diameter Inlet, 75 - 500 CFM, Variable Air Volume Box, Dual Duct.....	1,493.13	120.39
			For Filters And Frames, Add	6.30	
23 36 16 00-0025	EA		8" Diameter Inlet, 200 - 700 CFM, Variable Air Volume Box, Dual Duct.....	1,633.03	137.08
			For Filters And Frames, Add	6.30	
23 36 16 00-0026	EA		10" Diameter Inlet, 400 - 1,000 CFM, Variable Air Volume Box, Dual Duct.....	1,748.56	154.83
			For Filters And Frames, Add	6.30	
23 36 16 00-0027	EA		12" Diameter Inlet, 600 - 1,400 CFM, Variable Air Volume Box, Dual Duct.....	1,917.68	172.71
			For Filters And Frames, Add	6.30	
23 36 16 00-0028	EA		14" Diameter Inlet, 800 - 2,700 CFM, Variable Air Volume Box, Dual Duct.....	2,156.05	198.66
			For Filters And Frames, Add	6.30	
23 36 16 00-0029	EA		16" Diameter Inlet, 1,000 - 3,500 CFM, Variable Air Volume Box, Dual Duct.....	2,368.75	238.40
			For Filters And Frames, Add	6.30	
23 36 16 00-0030 Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M) (23 36 16 00-0001)					
23 36 16 00-0031	EA		0 To 200 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-A).....	654.43	82.78
			For Filters And Frames, Add	6.30	
23 36 16 00-0032	EA		0 To 300 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-B).....	710.17	91.06
			For Filters And Frames, Add	6.30	
23 36 16 00-0033	EA		0 To 400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-C).....	767.51	99.33
			For Filters And Frames, Add	6.30	
23 36 16 00-0034	EA		0 To 700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-D).....	826.52	107.61
			For Filters And Frames, Add	6.30	
23 36 16 00-0035	EA		0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-E).....	887.37	115.88
			For Filters And Frames, Add	6.30	
23 36 16 00-0036	EA		0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-F).....	950.14	124.17
			For Filters And Frames, Add	6.30	
23 36 16 00-0037	EA		0 To 1,100 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-G).....	1,020.33	132.45
			For Filters And Frames, Add	6.30	
23 36 16 00-0038	EA		0 To 1,900 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-H).....	1,087.78	140.72
			For Filters And Frames, Add	6.30	
23 36 16 00-0039	EA		0 To 2,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-J).....	1,157.64	149.00
			For Filters And Frames, Add	6.30	
23 36 16 00-0040	EA		0 To 3,800 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-K).....	1,230.05	157.27
			For Filters And Frames, Add	6.30	
23 36 16 00-0041	EA		0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-L).....	1,305.25	165.56
			For Filters And Frames, Add	6.30	
23 36 16 00-0042	EA		0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M).....	1,383.36	173.84
			For Filters And Frames, Add	6.30	
23 36 16 00-0043	EA		0 To 6,700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-N).....	1,464.63	182.11
			For Filters And Frames, Add	6.30	
23 36 16 00-0044	EA		0 To 10,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-P).....	1,541.98	190.39
			For Filters And Frames, Add	6.30	
23 36 16 00-0045	EA		0 To 15,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-R).....	1,629.72	198.66
			For Filters And Frames, Add	6.30	
23 37 Air Outlets and Inlets (23 30)					
23 37 13 Diffusers, Registers, and Grilles (23 37)					
23 37 13 13 Diffusers, Registers, and Grilles (23 37 13)					
23 37 13 13-0001 Ceiling Diffusers (23 37 13 13)					
23 37 13 13-0002 Ceiling Diffusers With Perforated Face (23 37 13 13-0001)					
Note: Flush mount, aluminum construction, includes damper.					
23 37 13 13-0003	EA		6" x 6" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper.....	135.66	17.22
			For Steel Construction, Deduct	-10.13	
			For Surface Mount, Deduct	-8.10	
			For Diffuser Without Damper, Deduct	-13.51	
			For Stainless Steel, Add	151.97	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0004	EA	8" x 8" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	150.67	17.22
		For Steel Construction, Deduct	-12.38	
		For Surface Mount, Deduct	-9.91	
		For Diffuser Without Damper, Deduct	-16.51	
		For Stainless Steel, Add	185.74	
23 37 13 13-0005	EA	9" x 9" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	150.67	17.22
		For Steel Construction, Deduct	-12.38	
		For Surface Mount, Deduct	-9.91	
		For Diffuser Without Damper, Deduct	-16.51	
		For Stainless Steel, Add	185.74	
23 37 13 13-0006	EA	10" x 10" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	181.01	21.19
		For Steel Construction, Deduct	-14.82	
		For Surface Mount, Deduct	-11.86	
		For Diffuser Without Damper, Deduct	-19.76	
		For Stainless Steel, Add	222.32	
23 37 13 13-0007	EA	12" x 12" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	181.01	19.86
		For Steel Construction, Deduct	-14.82	
		For Surface Mount, Deduct	-11.86	
		For Diffuser Without Damper, Deduct	-19.76	
		For Stainless Steel, Add	222.32	
23 37 13 13-0008	EA	16" x 16" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	208.53	19.86
		For Steel Construction, Deduct	-18.95	
		For Surface Mount, Deduct	-15.16	
		For Diffuser Without Damper, Deduct	-25.27	
		For Stainless Steel, Add	284.24	
23 37 13 13-0009	EA	18" x 18" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	239.04	26.49
		For Steel Construction, Deduct	-20.37	
		For Surface Mount, Deduct	-16.30	
		For Diffuser Without Damper, Deduct	-27.17	
		For Stainless Steel, Add	305.62	
23 37 13 13-0010	EA	20" x 20" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	277.98	27.81
		For Steel Construction, Deduct	-25.44	
		For Surface Mount, Deduct	-20.35	
		For Diffuser Without Damper, Deduct	-33.92	
		For Stainless Steel, Add	381.62	
23 37 13 13-0011	EA	24" x 24" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	314.76	31.79
		For Steel Construction, Deduct	-28.29	
		For Surface Mount, Deduct	-22.63	
		For Lay-In Mount, Deduct	-22.63	
		For Diffuser Without Damper, Deduct	-37.72	
		For Stainless Steel, Add	424.40	
23 37 13 13-0012		Ceiling Diffusers With Louver Face (23 37 13 13-0001)		
		Note: 1 To 4 way adjustable pattern, surface mount aluminum construction.		
23 37 13 13-0013	EA	6" x 6" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	140.67	17.22
		For Steel Construction, Deduct	-10.88	
		For Flush Mount, Add	10.88	
		For Stainless Steel, Add	163.24	
23 37 13 13-0014	EA	8" x 8" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	160.18	17.22
		For Steel Construction, Deduct	-13.81	
		For Flush Mount, Add	13.81	
		For Stainless Steel, Add	207.14	
23 37 13 13-0015	EA	9" x 9" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	160.18	17.22
		For Steel Construction, Deduct	-13.81	
		For Flush Mount, Add	13.81	
		For Stainless Steel, Add	207.14	
23 37 13 13-0016	EA	10" x 10" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	192.27	19.86
		For Steel Construction, Deduct	-16.51	
		For Flush Mount, Add	16.51	
		For Stainless Steel, Add	247.66	
23 37 13 13-0017	EA	12" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	192.27	21.19
		For Steel Construction, Deduct	-16.51	
		For Flush Mount, Add	16.51	
		For Stainless Steel, Add	247.66	
23 37 13 13-0018	EA	24" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	247.74	26.49
		For Steel Construction, Deduct	-21.61	
		For Flush Mount, Add	21.61	
		For Stainless Steel, Add	324.20	
23 37 13 13-0019	EA	14" x 14" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	221.22	26.49
		For Steel Construction, Deduct	-17.64	
		For Flush Mount, Add	17.64	
		For Stainless Steel, Add	264.53	
23 37 13 13-0020	EA	18" x 18" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	276.31	31.79
		For Steel Construction, Deduct	-22.63	
		For Flush Mount, Add	22.63	
		For Stainless Steel, Add	339.39	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Outlets and Inlets			23 37

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0021	EA		21" x 21" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper.....	319.92	35.76
			For Steel Construction, Deduct	-28.14	
			For Flush Mount, Add	28.14	
			For Stainless Steel, Add	422.15	
23 37 13 13-0022	EA		24" x 24" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper.....	349.62	70.06
			For Steel Construction, Deduct	-31.41	
			For Flush Mount, Add	31.41	
			For Lay-In Mount, Add	41.88	
			For Stainless Steel, Add	471.11	
23 37 13 13-0023 Round Ceiling Diffusers With Fixed Pattern (23 37 13 13-0001)					
Note: Aluminum construction.					
23 37 13 13-0024	EA		6" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	230.50	17.22
			For Steel Construction, Deduct	-48.71	
			For Stainless Steel, Add	365.36	
23 37 13 13-0025	EA		8" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	238.83	17.22
			For Steel Construction, Deduct	-51.21	
			For Stainless Steel, Add	384.10	
23 37 13 13-0026	EA		10" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	269.56	21.19
			For Steel Construction, Deduct	-56.21	
			For Stainless Steel, Add	421.56	
23 37 13 13-0027	EA		12" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	290.38	19.86
			For Steel Construction, Deduct	-62.45	
			For Stainless Steel, Add	468.41	
23 37 13 13-0028	EA		14" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	415.95	23.84
			For Steel Construction, Deduct	-96.18	
			For Stainless Steel, Add	721.33	
23 37 13 13-0029	EA		16" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	438.66	25.17
			For Steel Construction, Deduct	-101.80	
			For Stainless Steel, Add	763.49	
23 37 13 13-0030	EA		18" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	461.71	26.49
			For Steel Construction, Deduct	-107.42	
			For Stainless Steel, Add	805.64	
23 37 13 13-0031	EA		20" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	533.98	26.49
			For Steel Construction, Deduct	-127.68	
			For Stainless Steel, Add	957.62	
23 37 13 13-0032	EA		24" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	637.33	30.46
			For Steel Construction, Deduct	-155.44	
			For Stainless Steel, Add	1,165.79	
23 37 13 13-0033	EA		28" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	717.62	31.79
			For Steel Construction, Deduct	-177.65	
			For Stainless Steel, Add	1,332.34	
23 37 13 13-0034	EA		32" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	857.30	35.76
			For Steel Construction, Deduct	-215.12	
			For Stainless Steel, Add	1,613.39	
23 37 13 13-0035 Round Ceiling Diffusers With Adjustable Pattern Dropped Style (23 37 13 13-0001)					
Note: Aluminum construction.					
23 37 13 13-0036	EA		6" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	242.99	17.22
			For Steel Construction, Deduct	-17.49	
			For Flush Mount, Deduct	-8.74	
			For Stainless Steel, Add	393.46	
23 37 13 13-0037	EA		8" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	264.50	17.22
			For Steel Construction, Deduct	-19.64	
			For Flush Mount, Deduct	-9.82	
			For Stainless Steel, Add	441.86	
23 37 13 13-0038	EA		10" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	299.63	21.19
			For Steel Construction, Deduct	-21.74	
			For Flush Mount, Deduct	-10.87	
			For Stainless Steel, Add	489.22	
23 37 13 13-0039	EA		12" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	323.69	21.19
			For Steel Construction, Deduct	-24.15	
			For Flush Mount, Deduct	-12.07	
			For Stainless Steel, Add	543.35	
23 37 13 13-0040	EA		14" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	470.08	23.84
			For Steel Construction, Deduct	-37.47	
			For Flush Mount, Deduct	-18.74	
			For Stainless Steel, Add	843.12	
23 37 13 13-0041	EA		16" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	410.32	25.17
			For Steel Construction, Deduct	-40.04	
			For Flush Mount, Deduct	-20.02	
			For Stainless Steel, Add	900.88	
23 37 13 13-0042	EA		18" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	529.72	26.49
			For Steel Construction, Deduct	-42.61	
			For Flush Mount, Deduct	-21.30	
			For Stainless Steel, Add	958.66	
23 37 13 13-0043	EA		20" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	614.94	27.81
			For Steel Construction, Deduct	-50.66	
			For Flush Mount, Deduct	-25.33	
			For Stainless Steel, Add	1,139.78	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0044	EA	24" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	694.70	30.46
		<i>For Steel Construction, Deduct</i>	-57.55	
		<i>For Flush Mount, Deduct</i>	-28.78	
		<i>For Stainless Steel, Add</i>	1,294.88	
23 37 13 13-0045	EA	28" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	842.53	31.79
		<i>For Steel Construction, Deduct</i>	-71.71	
		<i>For Flush Mount, Deduct</i>	-35.85	
		<i>For Stainless Steel, Add</i>	1,613.39	
23 37 13 13-0046	EA	32" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	1,015.05	35.76
		<i>For Steel Construction, Deduct</i>	-87.48	
		<i>For Flush Mount, Deduct</i>	-43.74	
		<i>For Stainless Steel, Add</i>	1,968.32	
23 37 13 13-0047	EA	36" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	1,124.67	74.57
		<i>For Stainless Steel, Add</i>	2,195.26	
23 37 13 13-0048 Linear Type Ceiling Diffusers With 2-Way Air Deflection (23 37 13 13-0001)				
23 37 13 13-0049	LF	4" Linear Type Ceiling Diffuser 40-200 CFM/LF, With 2-Way Air Deflection.....	184.54	19.86
		<i>For Stainless Steel, Add</i>	236.41	
23 37 13 13-0050	LF	6-1/4" Linear Type Ceiling Diffuser, 41 - 206 CFM/LF, With 2-Way Air Deflection.....	198.83	19.86
		<i>For Stainless Steel, Add</i>	268.56	
23 37 13 13-0051	LF	9-1/4" Linear Type Ceiling Diffuser, 62 - 312 CFM/LF, With 2-Way Air Deflection.....	216.40	19.86
		<i>For Stainless Steel, Add</i>	308.09	
23 37 13 13-0052	LF	12-1/4" Linear Type Ceiling Diffuser, 131 - 656 CFM/LF, With 2-Way Air Deflection.....	233.52	19.86
		<i>For Stainless Steel, Add</i>	346.61	
23 37 13 13-0053 Drum Louver Diffusers, Drop Box (23 37 13 13)				
23 37 13 13-0054 Drum Louver Diffusers, Four Way Drop Box (23 37 13 13-0053)				
23 37 13 13-0055	EA	20" Square x 11-1/2" Depth, 16" Square Top Opening, 1,000 To 2,000 CFM, Four Way, Galvanized Drum Louver Drop Box.....	1,297.94	116.29
		Note: Includes 2" thick R-8 insulation and four 12" x 6" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0056	EA	26" Square x 11-1/2" Depth, 20" Square Top Opening, 1,800 To 3,300 CFM, Four Way, Galvanized Drum Louver Drop Box.....	1,409.87	133.37
		Note: Includes 2" thick R-8 insulation and four 18" x 6" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0057	EA	32" Square x 11-1/2" Depth, 26" Square Top Opening, 2,400 To 4,400 CFM, Four Way, Galvanized Drum Louver Drop Box.....	1,613.17	162.11
		Note: Includes 2" thick R-8 insulation and four 24" x 6" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0058	EA	30" Square x 15" Depth, 22" Square Top Opening, 3,400 To 6,000 CFM, Four Way, Galvanized Drum Louver Drop Box.....	1,706.61	181.44
		Note: Includes 2" thick R-8 insulation and four 20" x 10" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0059	EA	35" Square x 15" Depth, 27" Square Top Opening, 4,000 To 7,600 CFM, Four Way, Galvanized Drum Louver Drop Box.....	1,819.75	197.07
		Note: Includes 2" thick R-8 insulation and four 25" x 10" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0060	EA	40" Square x 15" Depth, 32" Square Top Opening, 5,000 To 9,000 CFM, Four Way, Galvanized Drum Louver Drop Box.....	2,185.10	221.05
		Note: Includes 2" thick R-8 insulation and four 30" x 10" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0061	EA	40" Square x 17" Depth, 32" Square Top Opening, 6,000 To 11,000 CFM, Four Way, Galvanized Drum Louver Drop Box.....	2,472.64	245.15
		Note: Includes 2" thick R-8 insulation and four 30" x 12" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0062	EA	47" Square x 17" Depth, 37" Square Top Opening, 7,000 To 13,000 CFM, Four Way, Galvanized Drum Louver Drop Box.....	2,905.18	296.94
		Note: Includes 2" thick R-8 insulation and four 35" x 12" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0063	EA	47" Square x 20" Depth, 37" Square Top Opening, 8,700 To 16,000 CFM, Four Way, Galvanized Drum Louver Drop Box.....	3,033.98	297.99
		Note: Includes 2" thick R-8 insulation and four 35" x 15" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0064	EA	52" Square x 20" Depth, 42" Square Top Opening, 10,000 To 18,000 CFM, Four Way, Galvanized Drum Louver Drop Box.....	3,490.43	326.34
		Note: Includes 2" thick R-8 insulation and four 40" x 15" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0065	EA	62" Square x 20" Depth, 50" Square Top Opening, 12,500 To 23,000 CFM, Four Way, Galvanized Drum Louver Drop Box.....	4,373.71	362.10
		Note: Includes 2" thick R-8 insulation and four 50" x 15" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0066 Drum Louver Diffusers, Six Way Drop Box (23 37 13 13-0053)				
23 37 13 13-0067	EA	41.25" x 35.72" x 11-1/2" Depth, 20" Square Top Opening, 1,000 To 2,000 CFM, Six Way, Galvanized Drum Louver Drop Box.....	2,060.40	147.67
		Note: Includes 2" thick R-8 insulation and six 9" x 6" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0068	EA	41.25" x 35.72" x 11-1/2" Depth, 20" Square Top Opening, 1,800 To 3,300 CFM, Six Way, Galvanized Drum Louver Drop Box.....	2,195.49	174.56
		Note: Includes 2" thick R-8 insulation and six 12" x 6" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0069	EA	53.25" x 46.12" x 11" Depth, 24" Square Top Opening, 2,700 To 5,000 CFM, Six Way, Galvanized Drum Louver Drop Box.....	2,453.47	199.99
		Note: Includes 2" thick R-8 insulation and six 18" x 6" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0070	EA	57.25" x 49.58" x 15" Depth, 28" Square Top Opening, 5,000 To 9,000 CFM, Six Way, Galvanized Drum Louver Drop Box.....	3,079.70	272.17
		Note: Includes 2" thick R-8 insulation and six 20" x 10" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0071	EA	67.25" x 58.25" x 15" Depth, 33" Square Top Opening, 6,200 To 11,400 CFM, Six Way, Galvanized Drum Louver Drop Box.....	3,544.46	295.48
		Note: Includes 2" thick R-8 insulation and six 25" x 10" aluminum drum louvers and duct cap on bottom.		
23 37 13 13-0072	EA	77.25" x 66.90" x 15" Depth, 38" Square Top Opening, 7,500 To 13,500 CFM, Six Way, Galvanized Drum Louver Drop Box.....	4,404.72	331.63
		Note: Includes 2" thick R-8 insulation and six 30" x 10" aluminum drum louvers and duct cap on bottom.		



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Outlets and Inlets			23 37

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0073	EA	77.25" x 66.90" x 20" Depth, 38" Square Top Opening, 11,250 To 18,750 CFM, Six Way, Galvanized Drum Louver Drop Box.....		5,674.30	404.48
Note: Includes 2" thick R-8 insulation and six 30" x 15" aluminum drum louvers and duct cap on bottom.					
23 37 13 13-0074	EA	87.25" x 75.56" x 20" Depth, 40" Square Top Opening, 13,100 To 24,000 CFM, Six Way, Galvanized Drum Louver Drop Box.....		6,590.42	447.00
Note: Includes 2" thick R-8 insulation and six 35" x 15" aluminum drum louvers and duct cap on bottom.					
23 37 13 13-0075		Wall And Floor Diffusers (23 37 13 13)			
23 37 13 13-0076		Slot Type Linear Diffusers (23 37 13 13-0075)			
Note: For sidewall sill or ceiling 1/2" 3/4" or 1" slot spacing 1-1/8" border.					
23 37 13 13-0077	LF	1 Slot Linear Diffusers 10 - 70 CFM/LF, Sidewall, Sill, Ceiling.....		62.51	6.62
For 3/4" Border, Add				8.68	
For Floor Mounted Diffusers, Add				10.41	
For Stainless Steel, Add				41.64	
23 37 13 13-0078	LF	2 Slot Linear Diffusers 20 - 140 CFM/LF, Sidewall, Sill, Ceiling.....		76.71	7.95
For 3/4" Border, Add				11.57	
For Floor Mounted Diffusers, Add				13.88	
For Stainless Steel, Add				55.51	
23 37 13 13-0079	LF	3 Slot Linear Diffusers 30 - 210 CFM/LF, Sidewall, Sill, Ceiling.....		107.32	9.27
For 3/4" Border, Add				18.22	
For Floor Mounted Diffusers, Add				21.86	
For Stainless Steel, Add				87.43	
23 37 13 13-0080	LF	4 Slot Linear Diffusers 40 - 280 CFM/LF, Sidewall, Sill, Ceiling.....		142.48	9.27
For 3/4" Border, Add				26.02	
For Floor Mounted Diffusers, Add				31.23	
For Stainless Steel, Add				124.91	
23 37 13 13-0081	LF	5 Slot Linear Diffusers 50 - 350 CFM/LF, Sidewall, Sill, Ceiling.....		179.06	10.60
For 3/4" Border, Add				33.83	
For Floor Mounted Diffusers, Add				40.60	
For Stainless Steel, Add				162.38	
23 37 13 13-0082	LF	6 Slot Linear Diffusers 60 - 420 CFM/LF, Sidewall, Sill, Ceiling.....		209.89	13.24
For 3/4" Border, Add				39.90	
For Floor Mounted Diffusers, Add				47.88	
For Stainless Steel, Add				191.52	
23 37 13 13-0083		Linear Bar Grilles And Registers (23 37 13 13-0075)			
Note: For sidewall sill or ceiling or 15 degree deflection 1/2" bar spacing 1" border aluminum construction.					
23 37 13 13-0084	LF	2" Wide Linear Bar Grilles/Registers 30 - 70 CFM/LF, Sidewall, Sill, Ceiling.....		198.15	7.95
For Floor Mount, Add				16.77	
For Opposed Blade Damper, Add				33.54	
For Stainless Steel, Add				201.24	
23 37 13 13-0085	LF	3" Wide Linear Bar Grilles/Registers 55 - 143 CFM/LF, Sidewall, Sill, Ceiling.....		236.85	9.27
For Floor Mount, Add				20.24	
For Opposed Blade Damper, Add				40.48	
For Stainless Steel, Add				242.87	
23 37 13 13-0086	LF	4" Wide Linear Bar Grilles/Registers 80 - 208 CFM/LF, Sidewall, Sill, Ceiling.....		258.13	9.27
For Floor Mount, Add				21.97	
For Opposed Blade Damper, Add				43.95	
For Stainless Steel, Add				263.69	
23 37 13 13-0087	LF	6" Wide Linear Bar Grilles/Registers 125 - 325 CFM/LF, Sidewall, Sill, Ceiling.....		316.29	13.24
For Floor Mount, Add				26.60	
For Opposed Blade Damper, Add				53.20	
For Stainless Steel, Add				319.20	
23 37 13 13-0088	LF	9" Wide Linear Bar Grilles/Registers 225 - 450 CFM/LF, Sidewall, Sill, Ceiling.....		437.62	17.22
For Floor Mount, Add				37.01	
For Opposed Blade Damper, Add				74.02	
For Stainless Steel, Add				444.11	
23 37 13 13-0089	LF	12" Wide Linear Bar Grilles/Registers 225 - 495 CFM/LF, Sidewall, Sill, Ceiling.....		504.34	19.86
For Floor Mount, Add				42.21	
For Opposed Blade Damper, Add				84.43	
For Stainless Steel, Add				506.57	
23 37 13 13-0090		Return/Exhaust Registers And Grilles (23 37 13 13)			
23 37 13 13-0091		Return/Exhaust Registers With Frame (23 37 13 13-0090)			
Note: Single deflection with opposed blade damper aluminum construction wall or ceiling mount.					
23 37 13 13-0092	EA	8" x 4" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....		134.21	10.60
For Steel Construction, Deduct				-18.62	
For Grilles (No Damper), Deduct				-37.24	
For Removable Core, Add				35.00	
For Cube Core With Frame, Add				9.31	
For Cube Core Lay In, Add				18.62	
For Stainless Steel, Add				209.48	
23 37 13 13-0093	EA	8" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....		154.45	10.60
For Steel Construction, Deduct				-22.67	
For Grilles (No Damper), Deduct				-45.34	
For Removable Core, Add				35.00	
For Cube Core With Frame, Add				11.33	
For Cube Core Lay In, Add				22.67	
For Stainless Steel, Add				255.02	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0094 EA 10" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	173.16	11.92
For Steel Construction, Deduct	-25.10	
For Grilles (No Damper), Deduct	-50.19	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	12.55	
For Cube Core Lay In, Add	25.10	
For Stainless Steel, Add	282.33	
23 37 13 13-0095 EA 10" x 10" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	180.92	13.24
For Steel Construction, Deduct	-25.10	
For Grilles (No Damper), Deduct	-50.19	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	12.55	
For Cube Core Lay In, Add	25.10	
For Stainless Steel, Add	282.33	
23 37 13 13-0096 EA 12" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	172.83	13.24
For Steel Construction, Deduct	-23.48	
For Grilles (No Damper), Deduct	-46.96	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	11.74	
For Cube Core Lay In, Add	23.48	
For Stainless Steel, Add	264.13	
23 37 13 13-0097 EA 12" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	221.94	17.22
For Steel Construction, Deduct	-30.76	
For Grilles (No Damper), Deduct	-61.53	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	15.38	
For Cube Core Lay In, Add	30.76	
For Stainless Steel, Add	346.10	
23 37 13 13-0098 EA 16" x 16" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	265.86	19.86
For Steel Construction, Deduct	-36.73	
For Grilles (No Damper), Deduct	-73.46	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	18.37	
For Cube Core Lay In, Add	36.73	
For Stainless Steel, Add	413.24	
23 37 13 13-0099 EA 18" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	326.08	23.84
For Steel Construction, Deduct	-46.14	
For Grilles (No Damper), Deduct	-92.29	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	23.07	
For Cube Core Lay In, Add	46.14	
For Stainless Steel, Add	519.12	
23 37 13 13-0100 EA 20" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	383.05	26.49
For Steel Construction, Deduct	-55.88	
For Grilles (No Damper), Deduct	-111.76	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	27.94	
For Cube Core Lay In, Add	55.88	
For Stainless Steel, Add	628.65	
23 37 13 13-0101 EA 24" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	342.07	26.49
For Steel Construction, Deduct	-46.74	
For Grilles (No Damper), Deduct	-93.48	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	23.37	
For Cube Core Lay In, Add	46.74	
For Stainless Steel, Add	525.83	
23 37 13 13-0102 EA 24" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	391.71	26.49
For Steel Construction, Deduct	-56.67	
For Grilles (No Damper), Deduct	-113.34	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	28.33	
For Cube Core Lay In, Add	56.67	
For Stainless Steel, Add	637.52	
23 37 13 13-0103 EA 24" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	412.88	30.46
For Steel Construction, Deduct	-58.74	
For Grilles (No Damper), Deduct	-117.47	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	29.37	
For Cube Core Lay In, Add	58.74	
For Stainless Steel, Add	660.78	
23 37 13 13-0104 EA 30" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	437.58	31.79
For Steel Construction, Deduct	-62.42	
For Grilles (No Damper), Deduct	-124.84	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	31.21	
For Cube Core Lay In, Add	62.42	
For Stainless Steel, Add	702.25	
23 37 13 13-0105 EA 30" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	504.53	35.76
For Steel Construction, Deduct	-72.86	
For Grilles (No Damper), Deduct	-145.72	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	36.43	
For Cube Core Lay In, Add	72.86	
For Stainless Steel, Add	819.65	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Outlets and Inlets			23 37	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0106	EA		30" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	564.53	42.39
			For Steel Construction, Deduct	-78.85	
			For Grilles (No Damper), Deduct	-157.70	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	39.42	
			For Cube Core Lay In, Add	78.85	
			For Stainless Steel, Add	887.04	
23 37 13 13-0107	EA		30" x 30" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	735.93	42.39
			For Steel Construction, Deduct	-113.13	
			For Grilles (No Damper), Deduct	-226.26	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	56.56	
			For Cube Core Lay In, Add	113.13	
			For Stainless Steel, Add	1,272.69	
23 37 13 13-0108	EA		36" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	609.28	46.36
			For Steel Construction, Deduct	-85.18	
			For Grilles (No Damper), Deduct	-170.36	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	42.59	
			For Cube Core Lay In, Add	85.18	
			For Stainless Steel, Add	958.25	
23 37 13 13-0109	EA		36" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	593.00	45.03
			For Steel Construction, Deduct	-81.92	
			For Grilles (No Damper), Deduct	-163.84	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	40.96	
			For Cube Core Lay In, Add	81.92	
			For Stainless Steel, Add	921.62	
23 37 13 13-0110	EA		36" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	675.69	50.32
			For Steel Construction, Deduct	-95.41	
			For Grilles (No Damper), Deduct	-190.81	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	47.70	
			For Cube Core Lay In, Add	95.41	
			For Stainless Steel, Add	1,073.32	
23 37 13 13-0111	EA		36" x 36" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	918.79	54.30
			For Steel Construction, Deduct	-140.41	
			For Grilles (No Damper), Deduct	-280.82	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	70.21	
			For Cube Core Lay In, Add	140.41	
			For Stainless Steel, Add	1,579.64	
23 37 13 13-0112	EA		24" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	406.28	30.59
			For Steel Construction, Deduct	-56.81	
			For Grilles (No Damper), Deduct	-113.62	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	28.41	
			For Cube Core Lay In, Add	56.81	
			For Stainless Steel, Add	639.11	
23 37 13 13-0113	EA		32" x 40" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	702.27	45.85
			For Steel Construction, Deduct	-103.78	
			For Grilles (No Damper), Deduct	-207.55	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	51.89	
			For Cube Core Lay In, Add	103.78	
			For Stainless Steel, Add	1,167.48	
23 37 13 13-0114	EA		48" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	812.93	54.30
			For Steel Construction, Deduct	-119.08	
			For Grilles (No Damper), Deduct	-238.16	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	59.54	
			For Cube Core Lay In, Add	119.08	
			For Stainless Steel, Add	1,339.67	
23 37 13 13-0115 Return/Exhaust Registers Removable-Reversible (23 37 13 13-0090)					
Note: Double deflection core and opposed blade damper radiused frame with boarder aluminum construction.					
23 37 13 13-0116	EA		8" x 4" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	123.69	10.60
			For Steel Construction, Deduct	-8.26	
			For Flat Frame, Deduct	-0.83	
			For Grilles (No Damper), Deduct	-16.52	
			For Stainless Steel, Add	185.81	
23 37 13 13-0117	EA		8" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	123.69	10.60
			For Steel Construction, Deduct	-8.26	
			For Flat Frame, Deduct	-0.83	
			For Grilles (No Damper), Deduct	-16.52	
			For Stainless Steel, Add	185.81	
23 37 13 13-0118	EA		10" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	152.12	11.92
			For Steel Construction, Deduct	-10.44	
			For Flat Frame, Deduct	-1.04	
			For Grilles (No Damper), Deduct	-20.89	
			For Stainless Steel, Add	234.99	
23 37 13 13-0119	EA		10" x 10" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	174.45	14.57
			For Steel Construction, Deduct	-11.90	
			For Flat Frame, Deduct	-1.19	
			For Grilles (No Damper), Deduct	-23.80	
			For Stainless Steel, Add	267.77	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0120 EA 12" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	172.02	13.24
For Steel Construction, Deduct	-11.66	
For Flat Frame, Deduct	-1.17	
For Grilles (No Damper), Deduct	-23.32	
For Stainless Steel, Add	262.31	
23 37 13 13-0121 EA 12" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	223.56	17.22
For Steel Construction, Deduct	-15.54	
For Flat Frame, Deduct	-1.55	
For Grilles (No Damper), Deduct	-31.09	
For Stainless Steel, Add	349.74	
23 37 13 13-0122 EA 16" x 16" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	363.12	21.19
For Steel Construction, Deduct	-28.09	
For Flat Frame, Deduct	-2.81	
For Grilles (No Damper), Deduct	-56.18	
For Stainless Steel, Add	632.07	
23 37 13 13-0123 EA 18" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	437.81	23.84
For Steel Construction, Deduct	-34.25	
For Flat Frame, Deduct	-3.42	
For Grilles (No Damper), Deduct	-68.49	
For Stainless Steel, Add	770.51	
23 37 13 13-0124 EA 20" x 20" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	494.68	26.49
For Steel Construction, Deduct	-39.10	
For Flat Frame, Deduct	-3.91	
For Grilles (No Damper), Deduct	-78.21	
For Stainless Steel, Add	879.82	
23 37 13 13-0125 EA 24" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	409.53	26.49
For Steel Construction, Deduct	-30.12	
For Flat Frame, Deduct	-3.01	
For Grilles (No Damper), Deduct	-60.23	
For Stainless Steel, Add	677.61	
23 37 13 13-0126 EA 24" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	555.26	27.81
For Steel Construction, Deduct	-44.69	
For Flat Frame, Deduct	-4.47	
For Grilles (No Damper), Deduct	-89.38	
For Stainless Steel, Add	1,005.50	
23 37 13 13-0127 EA 24" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	648.66	30.46
For Steel Construction, Deduct	-52.95	
For Flat Frame, Deduct	-5.29	
For Grilles (No Damper), Deduct	-105.89	
For Stainless Steel, Add	1,191.29	
23 37 13 13-0128 EA 30" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	494.64	31.79
For Steel Construction, Deduct	-36.92	
For Flat Frame, Deduct	-3.69	
For Grilles (No Damper), Deduct	-73.83	
For Stainless Steel, Add	830.63	
23 37 13 13-0129 EA 30" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	684.28	35.76
For Steel Construction, Deduct	-54.40	
For Flat Frame, Deduct	-5.44	
For Grilles (No Damper), Deduct	-108.81	
For Stainless Steel, Add	1,224.09	
23 37 13 13-0130 EA 30" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	823.62	42.39
For Steel Construction, Deduct	-65.33	
For Flat Frame, Deduct	-6.53	
For Grilles (No Damper), Deduct	-130.67	
For Stainless Steel, Add	1,469.99	
23 37 13 13-0131 EA 30" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	946.27	42.39
For Steel Construction, Deduct	-77.60	
For Flat Frame, Deduct	-7.76	
For Grilles (No Damper), Deduct	-155.20	
For Stainless Steel, Add	1,745.96	
23 37 13 13-0132 EA 36" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	637.56	45.03
For Steel Construction, Deduct	-45.42	
For Flat Frame, Deduct	-4.54	
For Grilles (No Damper), Deduct	-90.83	
For Stainless Steel, Add	1,021.88	
23 37 13 13-0133 EA 36" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	870.72	45.03
For Steel Construction, Deduct	-68.73	
For Flat Frame, Deduct	-6.87	
For Grilles (No Damper), Deduct	-137.47	
For Stainless Steel, Add	1,546.49	
23 37 13 13-0134 EA 36" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	1,009.86	50.32
For Steel Construction, Deduct	-81.12	
For Flat Frame, Deduct	-8.11	
For Grilles (No Damper), Deduct	-162.24	
For Stainless Steel, Add	1,825.20	
23 37 13 13-0135 EA 36" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	1,182.15	54.30
For Steel Construction, Deduct	-96.54	
For Flat Frame, Deduct	-9.65	
For Grilles (No Damper), Deduct	-193.08	
For Stainless Steel, Add	2,172.20	
23 37 13 13-0136 EA 36" x 36" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	1,250.16	54.30
For Steel Construction, Deduct	-103.34	
For Flat Frame, Deduct	-10.33	
For Grilles (No Damper), Deduct	-206.69	
For Stainless Steel, Add	2,325.22	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Outlets and Inlets

23 37

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0137 Aluminum Eggcrate Ceiling Return Air And Exhaust Grilles (23 37 13 13-0090)		
23 37 13 13-0138 EA 6" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	63.63	12.96
23 37 13 13-0139 EA 8" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	63.63	12.96
23 37 13 13-0140 EA 8" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	69.20	12.96
23 37 13 13-0141 EA 8" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	71.43	12.96
23 37 13 13-0142 EA 10" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	69.20	12.96
23 37 13 13-0143 EA 10" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	71.43	12.96
23 37 13 13-0144 EA 10" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	85.88	16.98
23 37 13 13-0145 EA 10" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	88.11	16.98
23 37 13 13-0146 EA 12" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	83.65	16.98
23 37 13 13-0147 EA 12" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	88.11	16.98
23 37 13 13-0148 EA 12" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	90.34	16.98
23 37 13 13-0149 EA 12" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	92.57	16.98
23 37 13 13-0150 EA 14" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	89.23	16.98
23 37 13 13-0151 EA 14" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	93.69	16.98
23 37 13 13-0152 EA 14" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	95.92	16.98
23 37 13 13-0153 EA 14" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	105.95	16.98
23 37 13 13-0154 EA 16" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	93.69	16.98
23 37 13 13-0155 EA 16" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	101.49	16.98
23 37 13 13-0156 EA 16" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	105.95	16.98
23 37 13 13-0157 EA 16" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	135.96	25.04
23 37 13 13-0158 EA 16" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	138.19	25.04
23 37 13 13-0159 EA 18" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	133.73	25.04
23 37 13 13-0160 EA 18" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	163.78	29.08
23 37 13 13-0161 EA 20" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	131.50	25.04
23 37 13 13-0162 EA 20" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	174.93	29.08
23 37 13 13-0163 EA 22" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	91.46	16.98
23 37 13 13-0164 EA 22" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	133.73	25.04
23 37 13 13-0165 EA 22" x 22" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	196.07	33.11
23 37 13 13-0166 EA 24" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	131.50	25.04
23 37 13 13-0167 EA 24" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	135.96	25.04
23 37 13 13-0168 EA 24" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	157.09	29.08
For Lay-In Installation, Deduct	-61.42	
23 37 13 13-0169 EA 24" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	163.78	29.08
23 37 13 13-0170 EA 24" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	182.69	33.11
23 37 13 13-0171 EA 24" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	189.38	33.11
23 37 13 13-0172 EA 24" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	197.19	33.11
23 37 13 13-0173 EA 24" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	211.68	33.11
For Lay-In Installation, Deduct	-70.32	
23 37 13 13-0174 EA 30" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	160.44	29.08
23 37 13 13-0175 EA 48" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	260.47	36.29
23 37 13 13-0176 EA 48" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	446.57	44.35
For Lay-In Installation, Deduct	-101.20	
23 37 13 13-0177 Supply Registers and Grilles (23 37 13 13)		
23 37 13 13-0178 Adjustable Curved Blade Register (23 37 13 13-0177)		
Note: Ceiling mount aluminum construction four way pattern flush frame.		
23 37 13 13-0179 EA 6" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	111.82	10.60
For Steel Construction, Deduct	-10.62	
For Lay In Frame, Deduct	-17.70	
For Three Way Pattern, Deduct	-7.08	
For Two Way Pattern, Deduct	-5.66	
For One Way Pattern, Deduct	-5.66	
For Grille (No Damper), Deduct	-10.62	
For Stainless Steel, Add	159.26	
23 37 13 13-0180 EA 8" x 8" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	115.98	10.60
For Steel Construction, Deduct	-11.24	
For Lay In Frame, Deduct	-18.74	
For Three Way Pattern, Deduct	-7.49	
For Two Way Pattern, Deduct	-6.00	
For One Way Pattern, Deduct	-6.00	
For Grille (No Damper), Deduct	-11.24	
For Stainless Steel, Add	168.62	
23 37 13 13-0181 EA 12" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	126.35	14.57
For Steel Construction, Deduct	-10.62	
For Lay In Frame, Deduct	-17.70	
For Three Way Pattern, Deduct	-7.08	
For Two Way Pattern, Deduct	-5.66	
For One Way Pattern, Deduct	-5.66	
For Grille (No Damper), Deduct	-10.62	
For Stainless Steel, Add	159.26	
23 37 13 13-0182 EA 10" x 10" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	141.62	13.24
For Steel Construction, Deduct	-12.91	
For Lay In Frame, Deduct	-21.51	
For Three Way Pattern, Deduct	-8.61	
For Two Way Pattern, Deduct	-6.88	
For One Way Pattern, Deduct	-6.88	
For Grille (No Damper), Deduct	-12.91	
For Stainless Steel, Add	193.61	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0183	EA	12" x 12" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	170.23	17.22
		For Steel Construction, Deduct	-15.41	
		For Lay In Frame, Deduct	-25.68	
		For Three Way Pattern, Deduct	-10.27	
		For Two Way Pattern, Deduct	-8.22	
		For One Way Pattern, Deduct	-8.22	
		For Grille (No Damper), Deduct	-15.41	
		For Stainless Steel, Add	231.08	
23 37 13 13-0184	EA	14" x 14" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	209.88	19.86
		For Steel Construction, Deduct	-19.15	
		For Lay In Frame, Deduct	-31.92	
		For Three Way Pattern, Deduct	-12.77	
		For Two Way Pattern, Deduct	-10.21	
		For One Way Pattern, Deduct	-10.21	
		For Grille (No Damper), Deduct	-19.15	
		For Stainless Steel, Add	287.28	
23 37 13 13-0185	EA	16" x 16" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	209.88	19.86
		For Steel Construction, Deduct	-19.15	
		For Lay In Frame, Deduct	-31.92	
		For Three Way Pattern, Deduct	-12.77	
		For Two Way Pattern, Deduct	-10.21	
		For One Way Pattern, Deduct	-10.21	
		For Grille (No Damper), Deduct	-19.15	
		For Stainless Steel, Add	287.28	
23 37 13 13-0186	EA	18" x 18" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	258.65	26.49
		For Steel Construction, Deduct	-23.32	
		For Lay In Frame, Deduct	-38.86	
		For Three Way Pattern, Deduct	-15.54	
		For Two Way Pattern, Deduct	-12.44	
		For One Way Pattern, Deduct	-12.44	
		For Grille (No Damper), Deduct	-23.32	
		For Stainless Steel, Add	349.74	
23 37 13 13-0187	EA	24" x 24" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	342.92	27.81
		For Steel Construction, Deduct	-35.18	
		For Lay In Frame, Deduct	-58.64	
		For Three Way Pattern, Deduct	-23.46	
		For Two Way Pattern, Deduct	-18.76	
		For One Way Pattern, Deduct	-18.76	
		For Grille (No Damper), Deduct	-35.18	
		For Stainless Steel, Add	527.74	
23 37 13 13-0188	EA	30" x 30" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	562.68	56.15
		For Steel Construction, Deduct	-67.55	
		For Lay In Frame, Deduct	-112.59	
		For Three Way Pattern, Deduct	-45.04	
		For Two Way Pattern, Deduct	-36.03	
		For One Way Pattern, Deduct	-36.03	
		For Grille (No Damper), Deduct	-67.55	
		For Stainless Steel, Add	1,013.31	
23 37 13 13-0189 Removable-Reversible Core Registers (23 37 13 13-0177)				
Note: Double deflection radiused frame aluminum construction.				
23 37 13 13-0190	EA	6" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	129.86	10.60
		For Steel Construction, Deduct	-8.88	
		For Flat Frame, Deduct	-8.88	
		For Grille (No Damper), Deduct	-26.65	
		For Stainless Steel, Add	199.85	
23 37 13 13-0191	EA	8" x 8" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	165.95	10.60
		For Steel Construction, Deduct	-12.49	
		For Flat Frame, Deduct	-12.49	
		For Grille (No Damper), Deduct	-37.47	
		For Stainless Steel, Add	281.05	
23 37 13 13-0192	EA	12" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	211.01	14.57
		For Steel Construction, Deduct	-15.54	
		For Flat Frame, Deduct	-15.54	
		For Grille (No Damper), Deduct	-46.63	
		For Stainless Steel, Add	349.74	
23 37 13 13-0193	EA	10" x 10" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	213.78	14.57
		For Steel Construction, Deduct	-15.82	
		For Flat Frame, Deduct	-15.82	
		For Grille (No Damper), Deduct	-47.46	
		For Stainless Steel, Add	355.97	
23 37 13 13-0194	EA	12" x 12" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	272.93	17.22
		For Steel Construction, Deduct	-20.54	
		For Flat Frame, Deduct	-20.54	
		For Grille (No Damper), Deduct	-61.62	
		For Stainless Steel, Add	462.15	
23 37 13 13-0195	EA	14" x 14" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	390.30	21.19
		For Steel Construction, Deduct	-30.81	
		For Flat Frame, Deduct	-30.81	
		For Grille (No Damper), Deduct	-92.43	
		For Stainless Steel, Add	693.23	
23 37 13 13-0196	EA	16" x 16" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	440.26	19.86
		For Steel Construction, Deduct	-35.81	
		For Flat Frame, Deduct	-35.81	
		For Grille (No Damper), Deduct	-107.42	
		For Stainless Steel, Add	805.64	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Outlets and Inlets			23 37

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0197	EA		18" x 18" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	530.67	26.49
			For Steel Construction, Deduct	-42.75	
			For Flat Frame, Deduct	-42.75	
			For Grille (No Damper), Deduct	-128.24	
			For Stainless Steel, Add	961.79	
23 37 13 13-0198	EA		24" x 24" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	671.84	26.49
			For Steel Construction, Deduct	-56.35	
			For Flat Frame, Deduct	-56.35	
			For Grille (No Damper), Deduct	-169.04	
			For Stainless Steel, Add	1,267.81	
23 37 13 13-0199 Adjustable Shutter Blade Registers (23 37 13 13-0177)					
Note: Double deflection flat frame aluminum construction.					
23 37 13 13-0200	EA		6" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	202.96	10.60
			For Steel Construction, Deduct	-16.19	
			For Single Deflection, Deduct	-32.38	
			For Grille (No Damper), Deduct	-24.29	
			For Stainless Steel, Add	364.32	
23 37 13 13-0201	EA		8" x 8" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	235.34	10.60
			For Steel Construction, Deduct	-19.43	
			For Single Deflection, Deduct	-38.86	
			For Grille (No Damper), Deduct	-29.15	
			For Stainless Steel, Add	437.18	
23 37 13 13-0202	EA		12" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	249.87	14.57
			For Steel Construction, Deduct	-19.43	
			For Single Deflection, Deduct	-38.86	
			For Grille (No Damper), Deduct	-29.15	
			For Stainless Steel, Add	437.18	
23 37 13 13-0203	EA		10" x 10" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	259.12	13.24
			For Steel Construction, Deduct	-20.36	
			For Single Deflection, Deduct	-40.71	
			For Grille (No Damper), Deduct	-30.53	
			For Stainless Steel, Add	457.99	
23 37 13 13-0204	EA		12" x 12" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	317.34	17.22
			For Steel Construction, Deduct	-24.98	
			For Single Deflection, Deduct	-49.96	
			For Grille (No Damper), Deduct	-37.47	
			For Stainless Steel, Add	562.07	
23 37 13 13-0205	EA		14" x 14" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	424.54	19.86
			For Steel Construction, Deduct	-34.23	
			For Single Deflection, Deduct	-68.47	
			For Grille (No Damper), Deduct	-51.35	
			For Stainless Steel, Add	770.27	
23 37 13 13-0206	EA		16" x 16" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	503.18	21.19
			For Steel Construction, Deduct	-42.10	
			For Single Deflection, Deduct	-84.20	
			For Grille (No Damper), Deduct	-63.15	
			For Stainless Steel, Add	947.21	
23 37 13 13-0207	EA		18" x 18" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	621.34	26.49
			For Steel Construction, Deduct	-51.81	
			For Single Deflection, Deduct	-103.63	
			For Grille (No Damper), Deduct	-77.72	
			For Stainless Steel, Add	1,165.79	
23 37 13 13-0208	EA		24" x 24" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame	862.44	27.81
			For Steel Construction, Deduct	-75.41	
			For Single Deflection, Deduct	-150.81	
			For Grille (No Damper), Deduct	-113.11	
			For Stainless Steel, Add	1,696.66	
23 37 13 13-0209 Air Conditioning And Ventilation (23 37 13 13-0177)					
23 37 13 13-0210	EA		10" x 16" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	113.36	27.81
			For Stainless Steel, Add	130.03	
23 37 13 13-0211	EA		18" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	198.36	41.39
			For Stainless Steel, Add	260.06	
23 37 13 13-0212	EA		30" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	308.52	57.94
			For Stainless Steel, Add	433.44	
23 37 13 13-0213	EA		48" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	794.63	79.47
			For Stainless Steel, Add	1,430.33	
23 37 13 13-0214 Square Wall Return Air And Exhaust Grilles (23 37 13 13-0177)					
Note: Egg crate design aluminum construction.					
23 37 13 13-0215	EA		8" x 8" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	101.07	33.17
23 37 13 13-0216	EA		12" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	111.76	33.17
23 37 13 13-0217	EA		18" x 18" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	166.29	49.76
23 37 13 13-0218	EA		24" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	219.72	49.76
23 37 13 13-0219	EA		28" x 28" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	373.12	66.34
23 37 13 13-0220	EA		36" x 36" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	695.91	66.22
23 37 13 13-0221 Rectangular Four-Way Adjustable Deflection Wall Supply Grilles (23 37 13 13-0177)					
Note: Aluminum construction.					
23 37 13 13-0222	EA		12" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	287.73	23.88

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0223 EA 14" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction.....	329.36	23.88
23 37 13 13-0224 EA 18" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction.....	397.59	26.54
23 37 13 13-0225 EA 24" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction.....	471.57	26.54
23 37 13 13-0226 EA 36" x 20" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction.....	603.64	82.93
23 37 13 13-0227 EA 6" x 6" 2, 3, 4-Way Adjustable Wall Supply Grille, Adjustable, Titus Mode 250.....	113.88	39.80
23 37 13 13-0228 EA 8" x 8" 2, 3, 4-Way Adjustable Wall Supply Grille, Adjustable, Titus Mode 250.....	120.51	43.12
23 37 13 13-0229 EA 10" x 10" 2, 3, 4-Way Adjustable Wall Supply Grille, Adjustable, Titus Mode 250.....	139.37	46.44
23 37 13 13-0230 EA 12" x 12" 2, 3, 4-Way Adjustable Wall Supply Grille, Adjustable, Titus Mode 250.....	149.70	49.76
23 37 13 13-0231 EA 14" x 14" 2, 3, 4-Way Adjustable Wall Supply Grille, Adjustable, Titus Mode 250.....	166.12	53.07
23 37 13 13-0232 Square Ceiling Return Air And Exhaust Grilles (23 37 13 13-0177)		
Note: Egg crate design, plastic construction.		
23 37 13 13-0233 EA 24" x 24" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction.....	54.63	15.88
23 37 13 13-0234 EA 24" x 48" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction.....	79.35	16.01
23 37 13 13-0235 Door Grilles Sight Proof Inverted Vee Cross Section (23 37 13 13-0177)		
Note: Painted steel louvers and frame.		
23 37 13 13-0236 EA 12" x 6" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel.....	160.38	23.88
23 37 13 13-0237 EA 12" x 12" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel.....	199.83	23.88
23 37 13 13-0238 EA 18" x 18" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel.....	250.72	25.21
23 37 13 13-0239 EA 24" x 24" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel.....	347.87	30.12
23 37 13 13-0240 EA 24" x 30" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel.....	385.75	55.32
23 37 13 13-0241 Stainless Steel Devices (23 37 13 13-0177)		
23 37 13 13-0242 304 Stainless Steel, Louvered Partition/Door Grilles (23 37 13 13-0241)		
23 37 13 13-0243 SF Up To 4 SF, 304 Stainless Steel, Louvered Partition/Door Grille.....	243.18	20.69
For 316 Stainless Steel, Add	41.74	
23 37 13 13-0244 SF >4 SF, 304 Stainless Steel, Louvered Partition/Door Grille.....	205.10	20.69
For 316 Stainless Steel, Add	34.12	
23 37 13 13-0245 304 Stainless Steel, Single Deflection Supply Grilles (23 37 13 13-0241)		
23 37 13 13-0246 SF Up To 4 SF, 304 Stainless Steel, Single Deflection Supply Grille.....	184.00	20.69
For 316 Stainless Steel, Add	29.90	
23 37 13 13-0247 SF >4 SF, 304 Stainless Steel, Single Deflection Supply Grille.....	156.31	20.69
For 316 Stainless Steel, Add	24.36	
23 37 13 13-0248 304 Stainless Steel, Double Deflection Supply Grilles (23 37 13 13-0241)		
23 37 13 13-0249 SF Up To 4 SF, 304 Stainless Steel, Double Deflection Supply Grille.....	269.65	20.69
For 316 Stainless Steel, Add	47.03	
23 37 13 13-0250 SF >4 SF, 304 Stainless Steel, Double Deflection Supply Grille.....	229.68	20.69
For 316 Stainless Steel, Add	39.04	
23 37 13 13-0251 304 Stainless Steel Return Grilles (23 37 13 13-0241)		
23 37 13 13-0252 SF Up To 4 SF, 304 Stainless Steel Return Grille.....	184.00	20.69
For 316 Stainless Steel, Add	29.90	
23 37 13 13-0253 SF >4 SF, 304 Stainless Steel Return Grille.....	156.31	20.69
For 316 Stainless Steel, Add	24.36	
23 37 13 13-0254 304 Stainless Steel, Louvered Supply/Return Grilles (23 37 13 13-0241)		
23 37 13 13-0255 SF Up To 4 SF, 304 Stainless Steel, Louvered Supply/Return Grille.....	184.00	20.69
For 316 Stainless Steel, Add	29.90	
23 37 13 13-0256 SF >4 SF, 304 Stainless Steel, Louvered Supply/Return Grille.....	156.31	20.69
For 316 Stainless Steel, Add	24.36	
23 37 13 13-0257 304 Stainless Steel, Perforated Return Grilles (23 37 13 13-0241)		
23 37 13 13-0258 SF Up To 4 SF, 304 Stainless Steel, Perforated Return Grille.....	184.00	20.69
For 316 Stainless Steel, Add	29.90	
23 37 13 13-0259 SF >4 SF, 304 Stainless Steel, Perforated Return Grille.....	148.70	20.69
For 316 Stainless Steel, Add	22.84	
23 37 13 13-0260 304 Stainless Steel, Perforated Supply Grilles (23 37 13 13-0241)		
23 37 13 13-0261 SF Up To 4 SF, 304 Stainless Steel, Perforated Supply Grille.....	222.93	20.69
For 316 Stainless Steel, Add	37.69	
23 37 13 13-0262 SF >4 SF, 304 Stainless Steel, Perforated Supply Grille.....	152.75	20.69
For 316 Stainless Steel, Add	23.65	
23 37 13 13-0263 304 Stainless Steel, Door Grilles (23 37 13 13-0241)		
23 37 13 13-0264 SF Up To 4 SF, 304 Stainless Steel, Door Grille.....	333.50	20.69
For 316 Stainless Steel, Add	59.80	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Outlets and Inlets			23 37

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0265	SF	>4 SF, 304 Stainless Steel, Door Grille <i>For 316 Stainless Steel, Add</i>	278.14 48.73	20.69
23 37 13 13-0266		304 Stainless Steel, Linear Bar Grilles (23 37 13 13-0241)		
23 37 13 13-0267	SF	Up To 4 SF, 304 Stainless Steel, Linear Bar Grille <i>For 316 Stainless Steel, Add</i>	426.42 78.38	20.69
23 37 13 13-0268	SF	>4 SF, 304 Stainless Steel, Linear Bar Grille <i>For 316 Stainless Steel, Add</i>	364.99 66.10	20.69
23 37 13 13-0269		304 Stainless Steel, Hinged Filter Grilles (23 37 13 13-0241)		
23 37 13 13-0270	SF	Up To 4 SF, 304 Stainless Steel, Hinged Filter Grille <i>For 316 Stainless Steel, Add</i>	313.26 55.75	20.69
23 37 13 13-0271	SF	>4 SF, 304 Stainless Steel, Hinged Filter Grille <i>For 316 Stainless Steel, Add</i>	216.37 36.37	20.69
23 37 13 13-0272		304 Stainless Steel, Opposed Blade Dampers Grilles (23 37 13 13-0241)		
23 37 13 13-0273	SF	Up To 4 SF, 304 Stainless Steel, Opposed Blade Dampers Grille <i>For 316 Stainless Steel, Add</i>	168.43 26.79	20.69
23 37 13 13-0274	SF	Opposed Blade Dampers Grille, Stainless Steel 304, > 4 SF <i>For 316 Stainless Steel, Add</i>	128.12 18.72	20.69
23 37 13 13-0275		304 Stainless Steel, Plaster Frames Replacement (23 37 13 13-0241) Note: For frequent replacement.		
23 37 13 13-0276	SF	To 4 SF, 304 Stainless Steel, Plaster Frames Replacement <i>For 316 Stainless Steel, Add</i>	131.05 19.31	20.69
23 37 13 13-0277	SF	>4 SF, 304 Stainless Steel, Plaster Frames Replacement <i>For 316 Stainless Steel, Add</i>	69.28 6.96	20.69
23 37 13 13-0278		304 Stainless Steel, Modular Louvered Ceiling Diffusers (23 37 13 13-0241)		
23 37 13 13-0279	SF	Up To 4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser <i>For 316 Stainless Steel, Add</i>	308.59 54.82	20.69
23 37 13 13-0280	SF	>4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser <i>For 316 Stainless Steel, Add</i>	241.28 41.36	20.69
23 37 13 13-0281		304 Stainless Steel, Latticed Supply/Return Grilles (23 37 13 13-0241)		
23 37 13 13-0282	SF	Up To 4 SF, 304 Stainless Steel, Latticed Supply/Return Grille <i>For 316 Stainless Steel, Add</i>	107.69 14.64	20.69
23 37 13 13-0283	SF	>4 SF, 304 Stainless Steel, Latticed Supply/Return Grille <i>For 316 Stainless Steel, Add</i>	107.69 14.64	20.69
23 37 13 13-0284		Supply Grille With Rotating Aluminum Drum And Aluminun Frame (23 37 13 13-0177) Note: Titus DL or equal		
23 37 13 13-0285	EA	9" x 6" Aluminum, Rotating Drum Louver, High Volume Supply Grille <i>For Adjustable Deflection Blades, Add</i> <i>For Split Vane Supply Grille, Add</i> <i>For Curved Frame For Round Duct Mounting, Add</i> <i>For Stainless Steel, Add</i>	96.48 3.60 5.41 8.59 41.59	20.53
23 37 13 13-0286	EA	12" x 6" Aluminum, Rotating Drum Louver, High Volume Supply Grille <i>For Adjustable Deflection Blades, Add</i> <i>For Split Vane Supply Grille, Add</i> <i>For Curved Frame For Round Duct Mounting, Add</i> <i>For Stainless Steel, Add</i>	115.21 4.34 6.51 10.34 50.06	24.24
23 37 13 13-0287	EA	15" x 6" Aluminum, Rotating Drum Louver, High Volume Supply Grille <i>For Adjustable Deflection Blades, Add</i> <i>For Split Vane Supply Grille, Add</i> <i>For Curved Frame For Round Duct Mounting, Add</i> <i>For Stainless Steel, Add</i>	132.34 5.22 7.83 12.45 60.23	25.96
23 37 13 13-0288	EA	18" x 6" Aluminum, Rotating Drum Louver, High Volume Supply Grille <i>For Adjustable Deflection Blades, Add</i> <i>For Split Vane Supply Grille, Add</i> <i>For Curved Frame For Round Duct Mounting, Add</i> <i>For Stainless Steel, Add</i>	146.02 5.88 8.82 14.02 67.84	27.81
23 37 13 13-0289	EA	20" x 6" Aluminum, Rotating Drum Louver, High Volume Supply Grille <i>For Adjustable Deflection Blades, Add</i> <i>For Split Vane Supply Grille, Add</i> <i>For Curved Frame For Round Duct Mounting, Add</i> <i>For Stainless Steel, Add</i>	156.19 6.15 9.23 14.67 70.99	30.72
23 37 13 13-0290	EA	24" x 6" Aluminum, Rotating Drum Louver, High Volume Supply Grille <i>For Adjustable Deflection Blades, Add</i> <i>For Split Vane Supply Grille, Add</i> <i>For Curved Frame For Round Duct Mounting, Add</i> <i>For Stainless Steel, Add</i>	180.25 7.33 10.99 17.47 84.54	33.77

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0291	EA	30" x 6" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	213.72	37.44
		For Adjustable Deflection Blades, Add	9.02	
		For Split Vane Supply Grille, Add	13.54	
		For Curved Frame For Round Duct Mounting, Add	21.52	
		For Stainless Steel, Add	104.12	
23 37 13 13-0292	EA	36" x 6" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	253.17	41.19
		For Adjustable Deflection Blades, Add	11.11	
		For Split Vane Supply Grille, Add	16.67	
		For Curved Frame For Round Duct Mounting, Add	26.50	
		For Stainless Steel, Add	128.23	
23 37 13 13-0293	EA	40" x 6" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	293.40	46.36
		For Adjustable Deflection Blades, Add	13.05	
		For Split Vane Supply Grille, Add	19.57	
		For Curved Frame For Round Duct Mounting, Add	31.11	
		For Stainless Steel, Add	150.53	
23 37 13 13-0294	EA	48" x 6" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	322.83	51.65
		For Adjustable Deflection Blades, Add	14.28	
		For Split Vane Supply Grille, Add	21.41	
		For Curved Frame For Round Duct Mounting, Add	34.04	
		For Stainless Steel, Add	164.73	
23 37 13 13-0295	EA	12" x 8" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	122.68	26.89
		For Adjustable Deflection Blades, Add	4.48	
		For Split Vane Supply Grille, Add	6.72	
		For Curved Frame For Round Duct Mounting, Add	10.69	
		For Stainless Steel, Add	51.71	
23 37 13 13-0296	EA	15" x 8" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	140.62	28.87
		For Adjustable Deflection Blades, Add	5.39	
		For Split Vane Supply Grille, Add	8.09	
		For Curved Frame For Round Duct Mounting, Add	12.86	
		For Stainless Steel, Add	62.23	
23 37 13 13-0297	EA	18" x 8" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	155.03	30.86
		For Adjustable Deflection Blades, Add	6.07	
		For Split Vane Supply Grille, Add	9.11	
		For Curved Frame For Round Duct Mounting, Add	14.48	
		For Stainless Steel, Add	70.08	
23 37 13 13-0298	EA	20" x 8" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	166.00	34.17
		For Adjustable Deflection Blades, Add	6.36	
		For Split Vane Supply Grille, Add	9.53	
		For Curved Frame For Round Duct Mounting, Add	15.16	
		For Stainless Steel, Add	73.34	
23 37 13 13-0299	EA	24" x 8" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	197.35	37.21
		For Adjustable Deflection Blades, Add	8.00	
		For Split Vane Supply Grille, Add	12.00	
		For Curved Frame For Round Duct Mounting, Add	19.07	
		For Stainless Steel, Add	92.29	
23 37 13 13-0300	EA	30" x 8" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	233.20	41.46
		For Adjustable Deflection Blades, Add	9.76	
		For Split Vane Supply Grille, Add	14.64	
		For Curved Frame For Round Duct Mounting, Add	23.28	
		For Stainless Steel, Add	112.65	
23 37 13 13-0301	EA	36" x 8" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	282.86	45.56
		For Adjustable Deflection Blades, Add	12.46	
		For Split Vane Supply Grille, Add	18.70	
		For Curved Frame For Round Duct Mounting, Add	29.72	
		For Stainless Steel, Add	143.81	
23 37 13 13-0302	EA	40" x 8" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	336.02	51.39
		For Adjustable Deflection Blades, Add	15.16	
		For Split Vane Supply Grille, Add	22.75	
		For Curved Frame For Round Duct Mounting, Add	36.16	
		For Stainless Steel, Add	174.97	
		For Stainless Steel, Add	524.90	
23 37 13 13-0303	EA	48" x 8" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	360.69	57.22
		For Adjustable Deflection Blades, Add	16.01	
		For Split Vane Supply Grille, Add	24.02	
		For Curved Frame For Round Duct Mounting, Add	38.18	
		For Stainless Steel, Add	184.74	
23 37 13 13-0304	EA	12" x 10" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	132.92	29.80
		For Adjustable Deflection Blades, Add	4.77	
		For Split Vane Supply Grille, Add	7.15	
		For Curved Frame For Round Duct Mounting, Add	11.37	
		For Stainless Steel, Add	55.04	
23 37 13 13-0305	EA	15" x 10" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	152.21	31.92
		For Adjustable Deflection Blades, Add	5.74	
		For Split Vane Supply Grille, Add	8.61	
		For Curved Frame For Round Duct Mounting, Add	13.69	
		For Stainless Steel, Add	66.23	
23 37 13 13-0306	EA	18" x 10" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	167.71	34.17
		For Adjustable Deflection Blades, Add	6.46	
		For Split Vane Supply Grille, Add	9.70	
		For Curved Frame For Round Duct Mounting, Add	15.41	
		For Stainless Steel, Add	74.59	
23 37 13 13-0307	EA	20" x 10" Aluminum, Rotating Drum Louver, High Volume Supply Grille.....	179.68	37.75
		For Adjustable Deflection Blades, Add	6.77	
		For Split Vane Supply Grille, Add	10.15	
		For Curved Frame For Round Duct Mounting, Add	16.13	
		For Stainless Steel, Add	78.06	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Outlets and Inlets			23 37	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0308	EA		25" x 10" Aluminum, Rotating Drum Louver, High Volume Supply Grille	213.06	41.06
			For Adjustable Deflection Blades, Add	8.51	
			For Split Vane Supply Grille, Add	12.77	
			For Curved Frame For Round Duct Mounting, Add	20.30	
			For Stainless Steel, Add	98.23	
23 37 13 13-0309	EA		30" x 10" Aluminum, Rotating Drum Louver, High Volume Supply Grille	251.99	46.09
			For Adjustable Deflection Blades, Add	10.39	
			For Split Vane Supply Grille, Add	15.59	
			For Curved Frame For Round Duct Mounting, Add	24.78	
			For Stainless Steel, Add	119.90	
23 37 13 13-0310	EA		35" x 10" Aluminum, Rotating Drum Louver, High Volume Supply Grille	303.40	50.60
			For Adjustable Deflection Blades, Add	13.15	
			For Split Vane Supply Grille, Add	19.72	
			For Curved Frame For Round Duct Mounting, Add	31.35	
			For Stainless Steel, Add	151.70	
23 37 13 13-0311	EA		40" x 10" Aluminum, Rotating Drum Louver, High Volume Supply Grille	347.83	57.09
			For Adjustable Deflection Blades, Add	15.20	
			For Split Vane Supply Grille, Add	22.80	
			For Curved Frame For Round Duct Mounting, Add	36.24	
			For Stainless Steel, Add	175.35	
23 37 13 13-0312	EA		50" x 10" Aluminum, Rotating Drum Louver, High Volume Supply Grille	386.60	63.44
			For Adjustable Deflection Blades, Add	16.89	
			For Split Vane Supply Grille, Add	25.34	
			For Curved Frame For Round Duct Mounting, Add	40.28	
			For Stainless Steel, Add	194.89	
23 37 13 13-0313	EA		12" x 12" Aluminum, Rotating Drum Louver, High Volume Supply Grille	148.56	32.18
			For Adjustable Deflection Blades, Add	5.47	
			For Split Vane Supply Grille, Add	8.20	
			For Curved Frame For Round Duct Mounting, Add	13.03	
			For Stainless Steel, Add	63.06	
23 37 13 13-0314	EA		15" x 12" Aluminum, Rotating Drum Louver, High Volume Supply Grille	170.38	34.57
			For Adjustable Deflection Blades, Add	6.58	
			For Split Vane Supply Grille, Add	9.87	
			For Curved Frame For Round Duct Mounting, Add	15.68	
			For Stainless Steel, Add	75.89	
23 37 13 13-0315	EA		18" x 12" Aluminum, Rotating Drum Louver, High Volume Supply Grille	187.87	36.95
			For Adjustable Deflection Blades, Add	7.41	
			For Split Vane Supply Grille, Add	11.11	
			For Curved Frame For Round Duct Mounting, Add	17.66	
			For Stainless Steel, Add	85.47	
23 37 13 13-0316	EA		20" x 12" Aluminum, Rotating Drum Louver, High Volume Supply Grille	201.12	40.93
			For Adjustable Deflection Blades, Add	7.75	
			For Split Vane Supply Grille, Add	11.63	
			For Curved Frame For Round Duct Mounting, Add	18.48	
			For Stainless Steel, Add	89.44	
23 37 13 13-0317	EA		25" x 12" Aluminum, Rotating Drum Louver, High Volume Supply Grille	242.07	45.96
			For Adjustable Deflection Blades, Add	9.75	
			For Split Vane Supply Grille, Add	14.63	
			For Curved Frame For Round Duct Mounting, Add	23.26	
			For Stainless Steel, Add	112.55	
23 37 13 13-0318	EA		30" x 12" Aluminum, Rotating Drum Louver, High Volume Supply Grille	281.05	51.12
			For Adjustable Deflection Blades, Add	11.63	
			For Split Vane Supply Grille, Add	17.44	
			For Curved Frame For Round Duct Mounting, Add	27.73	
			For Stainless Steel, Add	134.19	
23 37 13 13-0319	EA		35" x 12" Aluminum, Rotating Drum Louver, High Volume Supply Grille	328.54	56.42
			For Adjustable Deflection Blades, Add	14.01	
			For Split Vane Supply Grille, Add	21.02	
			For Curved Frame For Round Duct Mounting, Add	33.42	
			For Stainless Steel, Add	161.70	
23 37 13 13-0320	EA		40" x 12" Aluminum, Rotating Drum Louver, High Volume Supply Grille	372.89	61.85
			For Adjustable Deflection Blades, Add	16.20	
			For Split Vane Supply Grille, Add	24.29	
			For Curved Frame For Round Duct Mounting, Add	38.62	
			For Stainless Steel, Add	186.87	
23 37 13 13-0321	EA		50" x 12" Aluminum, Rotating Drum Louver, High Volume Supply Grille	414.19	68.61
			For Adjustable Deflection Blades, Add	18.00	
			For Split Vane Supply Grille, Add	27.00	
			For Curved Frame For Round Duct Mounting, Add	42.92	
			For Stainless Steel, Add	207.69	
23 37 13 13-0322	EA		60" x 12" Aluminum, Rotating Drum Louver, High Volume Supply Grille	472.18	78.27
			For Adjustable Deflection Blades, Add	20.52	
			For Split Vane Supply Grille, Add	30.78	
			For Curved Frame For Round Duct Mounting, Add	48.93	
			For Stainless Steel, Add	236.78	
23 37 13 13-0323	EA		15" x 15" Aluminum, Rotating Drum Louver, High Volume Supply Grille	193.43	38.93
			For Adjustable Deflection Blades, Add	7.52	
			For Split Vane Supply Grille, Add	11.28	
			For Curved Frame For Round Duct Mounting, Add	17.93	
			For Stainless Steel, Add	86.75	
23 37 13 13-0324	EA		18" x 15" Aluminum, Rotating Drum Louver, High Volume Supply Grille	213.32	41.59
			For Adjustable Deflection Blades, Add	8.47	
			For Split Vane Supply Grille, Add	12.70	
			For Curved Frame For Round Duct Mounting, Add	20.19	
			For Stainless Steel, Add	97.69	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0325 EA 20" x 15" Aluminum, Rotating Drum Louver, High Volume Supply Grille	228.32	45.96
For Adjustable Deflection Blades, Add	8.86	
For Split Vane Supply Grille, Add	13.29	
For Curved Frame For Round Duct Mounting, Add	21.13	
For Stainless Steel, Add	102.23	
23 37 13 13-0326 EA 25" x 15" Aluminum, Rotating Drum Louver, High Volume Supply Grille	273.48	50.99
For Adjustable Deflection Blades, Add	11.15	
For Split Vane Supply Grille, Add	16.72	
For Curved Frame For Round Duct Mounting, Add	26.59	
For Stainless Steel, Add	128.64	
23 37 13 13-0327 EA 30" x 15" Aluminum, Rotating Drum Louver, High Volume Supply Grille	316.85	56.15
For Adjustable Deflection Blades, Add	13.29	
For Split Vane Supply Grille, Add	19.94	
For Curved Frame For Round Duct Mounting, Add	31.70	
For Stainless Steel, Add	153.38	
23 37 13 13-0328 EA 35" x 15" Aluminum, Rotating Drum Louver, High Volume Supply Grille	370.60	62.12
For Adjustable Deflection Blades, Add	16.02	
For Split Vane Supply Grille, Add	24.03	
For Curved Frame For Round Duct Mounting, Add	38.20	
For Stainless Steel, Add	184.82	
23 37 13 13-0329 EA 40" x 15" Aluminum, Rotating Drum Louver, High Volume Supply Grille	420.77	67.94
For Adjustable Deflection Blades, Add	18.51	
For Split Vane Supply Grille, Add	27.77	
For Curved Frame For Round Duct Mounting, Add	44.14	
For Stainless Steel, Add	213.59	
23 37 13 13-0330 EA 50" x 15" Aluminum, Rotating Drum Louver, High Volume Supply Grille	467.40	75.49
For Adjustable Deflection Blades, Add	20.58	
For Split Vane Supply Grille, Add	30.86	
For Curved Frame For Round Duct Mounting, Add	49.06	
For Stainless Steel, Add	237.41	
23 37 13 13-0331 EA 60" x 15" Aluminum, Rotating Drum Louver, High Volume Supply Grille	532.83	85.96
For Adjustable Deflection Blades, Add	23.46	
For Split Vane Supply Grille, Add	35.18	
For Curved Frame For Round Duct Mounting, Add	55.93	
For Stainless Steel, Add	270.64	

23 37 13 13-0332 Removal And Reinstallation Of Distribution Devices (23 37 13 13)

Note: Includes storage and cleaning. Excludes ductwork.

23 37 13 13-0333 EA Removal And Reinstallation Of Variable Air Volume Terminal Unit	248.33	
23 37 13 13-0334 EA Removal And Reinstallation Of Fan Powered Variable Volume Terminal Unit	273.89	
23 37 13 13-0335 EA Removal And Reinstallation Of Lay-in Diffuser/Register/Grille	41.05	
23 37 13 13-0336 EA Removal And Reinstallation Of Surface Mounted Diffuser/Register/Grille	55.60	

23 37 13 43 Security Registers and Grilles (23 37 13)**23 37 13 43-0001 Security Supply Or Return Grille (23 37 13 43)**

Note: Designed for maximum security applications, 3/16" steel face plate with 2" x 2" square holes, 1/4" steel backer plate, 3/16" welded steel sleeve, 10 gauge x 2 wire mesh between face and backer plates, 1" x 1" x 3/16" angle iron frame, standard finish.

23 37 13 43-0002 EA 8" x 4" Steel Security Grille	253.14	19.90
For Anchoring Tabs, Add	21.33	
For Rear Operated Opposed Blade Damper, Add	78.65	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	53.34	
For Stainless Steel, Add	266.68	
23 37 13 43-0003 EA 8" x 6" Steel Security Grille	280.33	20.56
For Anchoring Tabs, Add	23.92	
For Rear Operated Opposed Blade Damper, Add	87.83	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	59.80	
For Stainless Steel, Add	299.00	
23 37 13 43-0004 EA 8" x 8" Steel Security Grille	321.19	23.22
For Anchoring Tabs, Add	27.48	
For Rear Operated Opposed Blade Damper, Add	100.81	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	68.69	
For Stainless Steel, Add	343.44	
23 37 13 43-0005 EA 10" x 4" Steel Security Grille	281.07	22.55
For Anchoring Tabs, Add	23.60	
For Rear Operated Opposed Blade Damper, Add	87.10	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	58.99	
For Stainless Steel, Add	294.95	
23 37 13 43-0006 EA 10" x 6" Steel Security Grille	299.90	23.88
For Anchoring Tabs, Add	25.21	
For Rear Operated Opposed Blade Damper, Add	93.02	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	63.03	
For Stainless Steel, Add	315.16	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Outlets and Inlets			23 37	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
23 37 13 43-0007	EA	10" x 8" Steel Security Grille.....	342.65	25.87
		For Anchoring Tabs, Add	29.09	
		For Rear Operated Opposed Blade Damper, Add	106.99	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	72.73	
		For Stainless Steel, Add	363.64	
23 37 13 43-0008	EA	10" x 10" Steel Security Grille.....	382.19	27.87
		For Anchoring Tabs, Add	32.65	
		For Rear Operated Opposed Blade Damper, Add	119.84	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	81.62	
		For Stainless Steel, Add	408.09	
23 37 13 43-0009	EA	12" x 4" Steel Security Grille.....	296.07	25.21
		For Anchoring Tabs, Add	24.57	
		For Rear Operated Opposed Blade Damper, Add	91.02	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	61.42	
		For Stainless Steel, Add	307.08	
23 37 13 43-0010	EA	12" x 6" Steel Security Grille.....	330.47	27.87
		For Anchoring Tabs, Add	27.48	
		For Rear Operated Opposed Blade Damper, Add	101.73	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	68.69	
		For Stainless Steel, Add	343.44	
23 37 13 43-0011	EA	12" x 8" Steel Security Grille.....	376.47	29.85
		For Anchoring Tabs, Add	31.68	
		For Rear Operated Opposed Blade Damper, Add	116.84	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	79.19	
		For Stainless Steel, Add	395.96	
23 37 13 43-0012	EA	12" x 10" Steel Security Grille.....	409.54	31.84
		For Anchoring Tabs, Add	34.59	
		For Rear Operated Opposed Blade Damper, Add	127.42	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	86.47	
		For Stainless Steel, Add	432.33	
23 37 13 43-0013	EA	12" x 12" Steel Security Grille.....	452.31	33.83
		For Anchoring Tabs, Add	38.47	
		For Rear Operated Opposed Blade Damper, Add	141.39	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	96.16	
		For Stainless Steel, Add	480.81	
23 37 13 43-0014	EA	14" x 4" Steel Security Grille.....	316.21	27.20
		For Anchoring Tabs, Add	26.18	
		For Rear Operated Opposed Blade Damper, Add	97.08	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	65.46	
		For Stainless Steel, Add	327.28	
23 37 13 43-0015	EA	14" x 6" Steel Security Grille.....	355.76	29.18
		For Anchoring Tabs, Add	29.74	
		For Rear Operated Opposed Blade Damper, Add	109.92	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	74.35	
		For Stainless Steel, Add	371.73	
23 37 13 43-0016	EA	14" x 8" Steel Security Grille.....	396.62	31.84
		For Anchoring Tabs, Add	33.29	
		For Rear Operated Opposed Blade Damper, Add	122.90	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	83.24	
		For Stainless Steel, Add	416.18	
23 37 13 43-0017	EA	14" x 10" Steel Security Grille.....	447.17	34.50
		For Anchoring Tabs, Add	37.82	
		For Rear Operated Opposed Blade Damper, Add	139.26	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	94.55	
		For Stainless Steel, Add	472.74	
23 37 13 43-0018	EA	14" x 12" Steel Security Grille.....	492.60	37.82
		For Anchoring Tabs, Add	41.70	
		For Rear Operated Opposed Blade Damper, Add	153.51	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	104.25	
		For Stainless Steel, Add	521.23	
23 37 13 43-0019	EA	14" x 14" Steel Security Grille.....	530.22	40.46
		For Anchoring Tabs, Add	44.93	
		For Rear Operated Opposed Blade Damper, Add	165.35	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	112.33	
		For Stainless Steel, Add	561.63	
23 37 13 43-0020	EA	16" x 6" Steel Security Grille.....	380.45	31.84
		For Anchoring Tabs, Add	31.68	
		For Rear Operated Opposed Blade Damper, Add	117.24	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	79.19	
		For Stainless Steel, Add	395.96	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0021	EA	16" x 8" Steel Security Grille	434.24	34.50
		For Anchoring Tabs, Add	36.53	
		For Rear Operated Opposed Blade Damper, Add	134.74	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	91.32	
		For Stainless Steel, Add	456.58	
23 37 13 43-0022	EA	16" x 10" Steel Security Grille	468.64	37.15
		For Anchoring Tabs, Add	39.44	
		For Rear Operated Opposed Blade Damper, Add	145.45	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	98.59	
		For Stainless Steel, Add	492.94	
23 37 13 43-0023	EA	16" x 12" Steel Security Grille	527.57	39.14
		For Anchoring Tabs, Add	44.93	
		For Rear Operated Opposed Blade Damper, Add	165.08	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	112.33	
		For Stainless Steel, Add	561.63	
23 37 13 43-0024	EA	16" x 14" Steel Security Grille	558.74	41.79
		For Anchoring Tabs, Add	47.52	
		For Rear Operated Opposed Blade Damper, Add	174.66	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	118.79	
		For Stainless Steel, Add	593.95	
23 37 13 43-0025	EA	16" x 16" Steel Security Grille	606.06	44.45
		For Anchoring Tabs, Add	51.72	
		For Rear Operated Opposed Blade Damper, Add	189.90	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	129.30	
		For Stainless Steel, Add	646.48	
23 37 13 43-0026	EA	18" x 6" Steel Security Grille	404.58	35.82
		For Anchoring Tabs, Add	33.29	
		For Rear Operated Opposed Blade Damper, Add	123.69	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	83.24	
		For Stainless Steel, Add	416.18	
23 37 13 43-0027	EA	18" x 8" Steel Security Grille	461.60	38.48
		For Anchoring Tabs, Add	38.47	
		For Rear Operated Opposed Blade Damper, Add	142.32	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	96.16	
		For Stainless Steel, Add	480.81	
23 37 13 43-0028	EA	18" x 10" Steel Security Grille	505.69	41.13
		For Anchoring Tabs, Add	42.34	
		For Rear Operated Opposed Blade Damper, Add	156.43	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	105.86	
		For Stainless Steel, Add	529.30	
23 37 13 43-0029	EA	18" x 12" Steel Security Grille	556.26	43.78
		For Anchoring Tabs, Add	46.87	
		For Rear Operated Opposed Blade Damper, Add	172.80	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	117.18	
		For Stainless Steel, Add	585.88	
23 37 13 43-0030	EA	18" x 14" Steel Security Grille	593.71	43.12
		For Anchoring Tabs, Add	50.75	
		For Rear Operated Opposed Blade Damper, Add	186.24	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	126.87	
		For Stainless Steel, Add	634.35	
23 37 13 43-0031	EA	18" x 16" Steel Security Grille	649.42	45.11
		For Anchoring Tabs, Add	55.92	
		For Rear Operated Opposed Blade Damper, Add	204.74	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	139.80	
		For Stainless Steel, Add	699.00	
23 37 13 43-0032	EA	18" x 18" Steel Security Grille	695.41	47.10
		For Anchoring Tabs, Add	60.12	
		For Rear Operated Opposed Blade Damper, Add	219.85	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	150.31	
		For Stainless Steel, Add	751.53	
23 37 13 43-0033	EA	20" x 6" Steel Security Grille	433.84	39.14
		For Anchoring Tabs, Add	35.56	
		For Rear Operated Opposed Blade Damper, Add	132.27	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	88.89	
		For Stainless Steel, Add	444.45	
23 37 13 43-0034	EA	20" x 8" Steel Security Grille	490.28	43.12
		For Anchoring Tabs, Add	40.41	
		For Rear Operated Opposed Blade Damper, Add	150.04	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	101.01	
		For Stainless Steel, Add	505.06	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
Air Outlets and Inlets			23 37	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37	13 43-0035	EA	20" x 10" Steel Security Grille	539.52	45.11
			For Anchoring Tabs, Add	44.93	
			For Rear Operated Opposed Blade Damper, Add	166.28	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	112.33	
			For Stainless Steel, Add	561.63	
23 37	13 43-0036	EA	20" x 12" Steel Security Grille	593.31	47.77
			For Anchoring Tabs, Add	49.78	
			For Rear Operated Opposed Blade Damper, Add	183.78	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	124.45	
			For Stainless Steel, Add	622.24	
23 37	13 43-0037	EA	20" x 14" Steel Security Grille	652.23	49.76
			For Anchoring Tabs, Add	55.27	
			For Rear Operated Opposed Blade Damper, Add	203.41	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	138.19	
			For Stainless Steel, Add	690.93	
23 37	13 43-0038	EA	20" x 16" Steel Security Grille	704.70	51.74
			For Anchoring Tabs, Add	60.12	
			For Rear Operated Opposed Blade Damper, Add	220.78	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	150.31	
			For Stainless Steel, Add	751.53	
23 37	13 43-0039	EA	20" x 18" Steel Security Grille	753.94	53.73
			For Anchoring Tabs, Add	64.65	
			For Rear Operated Opposed Blade Damper, Add	237.01	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	161.62	
			For Stainless Steel, Add	808.10	
23 37	13 43-0040	EA	20" x 20" Steel Security Grille	812.87	55.72
			For Anchoring Tabs, Add	70.14	
			For Rear Operated Opposed Blade Damper, Add	256.64	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	175.36	
			For Stainless Steel, Add	876.79	
23 37	13 43-0041	EA	24" x 6" Steel Security Grille	481.90	43.78
			For Anchoring Tabs, Add	39.44	
			For Rear Operated Opposed Blade Damper, Add	146.78	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	98.59	
			For Stainless Steel, Add	492.94	
23 37	13 43-0042	EA	24" x 8" Steel Security Grille	544.81	47.77
			For Anchoring Tabs, Add	44.93	
			For Rear Operated Opposed Blade Damper, Add	166.81	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	112.33	
			For Stainless Steel, Add	561.63	
23 37	13 43-0043	EA	24" x 10" Steel Security Grille	595.96	49.09
			For Anchoring Tabs, Add	49.78	
			For Rear Operated Opposed Blade Damper, Add	184.04	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	124.45	
			For Stainless Steel, Add	622.24	
23 37	13 43-0044	EA	24" x 12" Steel Security Grille	667.98	54.39
			For Anchoring Tabs, Add	55.92	
			For Rear Operated Opposed Blade Damper, Add	206.60	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	139.80	
			For Stainless Steel, Add	699.00	
23 37	13 43-0045	EA	24" x 14" Steel Security Grille	720.44	56.39
			For Anchoring Tabs, Add	60.77	
			For Rear Operated Opposed Blade Damper, Add	223.97	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	151.92	
			For Stainless Steel, Add	759.61	
23 37	13 43-0046	EA	24" x 16" Steel Security Grille	785.84	58.38
			For Anchoring Tabs, Add	66.91	
			For Rear Operated Opposed Blade Damper, Add	245.86	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	167.28	
			For Stainless Steel, Add	836.38	
23 37	13 43-0047	EA	24" x 18" Steel Security Grille	860.93	60.37
			For Anchoring Tabs, Add	74.02	
			For Rear Operated Opposed Blade Damper, Add	271.15	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	185.06	
			For Stainless Steel, Add	925.28	
23 37	13 43-0048	EA	24" x 20" Steel Security Grille	913.38	62.35
			For Anchoring Tabs, Add	78.87	
			For Rear Operated Opposed Blade Damper, Add	288.51	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	197.18	
			For Stainless Steel, Add	985.88	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 37 13 43-0049	EA	24" x 24" Steel Security Grille	1,024.78	66.34
		<i>For Anchoring Tabs, Add</i>	89.21	
		<i>For Rear Operated Opposed Blade Damper, Add</i>	325.51	
		<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
		<i>For 1" x 1" Square Holes On Face, Add</i>	223.04	
		<i>For Stainless Steel, Add</i>	1,115.18	

23 37 23 HVAC Gravity Ventilators (23 37)**23 37 23 13 HVAC Gravity Dome Ventilators (23 37 23)****23 37 23 13-0001 Rectangular Gravity Intake/Relief Ventilator Hood (23 37 23 13)**

Note: Includes flange base and bird screen. Excludes curb.

23 37 23 13-0002	EA	8" x 8" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,399.44	76.82
23 37 23 13-0003	EA	8" x 12" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,474.99	87.94
23 37 23 13-0004	EA	8" x 18" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,844.55	109.39
23 37 23 13-0005	EA	8" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,964.79	116.42
23 37 23 13-0006	EA	8" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,294.33	135.49
23 37 23 13-0007	EA	10" x 10" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,651.89	87.42
23 37 23 13-0008	EA	12" x 12" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,815.25	98.54
23 37 23 13-0009	EA	12" x 18" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,113.33	105.95
23 37 23 13-0010	EA	12" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,290.09	128.41
23 37 23 13-0011	EA	12" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,644.09	137.74
23 37 23 13-0012	EA	12" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,997.83	146.21
23 37 23 13-0013	EA	14" x 14" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,977.32	99.73
23 37 23 13-0014	EA	14" x 18" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,253.27	113.64
23 37 23 13-0015	EA	14" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,529.21	127.55
23 37 23 13-0016	EA	14" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,851.04	143.83
23 37 23 13-0017	EA	14" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,219.00	162.38
23 37 23 13-0018	EA	16" x 16" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,391.13	120.65
23 37 23 13-0019	EA	16" x 20" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,483.15	125.29
23 37 23 13-0020	EA	16" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,759.07	139.20
23 37 23 13-0021	EA	16" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,126.90	157.74
23 37 23 13-0022	EA	16" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,494.74	176.28
23 37 23 13-0023	EA	16" x 42" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	4,000.59	201.84
23 37 23 13-0024	EA	18" x 18" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,377.46	118.93
23 37 23 13-0025	EA	18" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,766.43	138.41
23 37 23 13-0026	EA	18" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,155.55	157.88
23 37 23 13-0027	EA	18" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,587.78	179.46
23 37 23 13-0028	EA	18" x 42" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,976.80	198.93
23 37 23 13-0029	EA	20" x 20" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,492.65	131.92
23 37 23 13-0030	EA	20" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	2,819.48	149.26
23 37 23 13-0031	EA	20" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,146.45	166.48
23 37 23 13-0032	EA	20" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,636.83	192.44
23 37 23 13-0033	EA	20" x 42" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	4,004.55	211.91
23 37 23 13-0034	EA	24" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,137.19	177.34
23 37 23 13-0035	EA	24" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,481.47	196.81
23 37 23 13-0036	EA	24" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,978.88	224.89
23 37 23 13-0037	EA	24" x 42" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	4,361.44	246.48
23 37 23 13-0038	EA	24" x 48" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	4,782.28	270.32
23 37 23 13-0039	EA	30" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	3,779.61	201.84
23 37 23 13-0040	EA	30" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	4,164.58	222.37
23 37 23 13-0041	EA	30" x 42" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	4,584.64	244.76
23 37 23 13-0042	EA	30" x 48" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	5,004.57	267.27
23 37 23 13-0043	EA	30" x 54" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	6,089.41	325.15
23 37 23 13-0044	EA	30" x 60" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	6,509.48	347.53
23 37 23 13-0045	EA	36" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	4,351.03	250.45
23 37 23 13-0046	EA	36" x 42" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	4,773.07	274.69
23 37 23 13-0047	EA	36" x 48" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	5,714.69	328.86
23 37 23 13-0048	EA	36" x 54" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	6,364.04	366.21
23 37 23 13-0049	EA	36" x 60" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	6,753.77	388.72
23 37 23 13-0050	EA	36" x 66" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	7,273.24	418.52
23 37 23 13-0051	EA	36" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	8,182.44	470.83
23 37 23 13-0052	EA	42" x 42" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	5,199.15	280.38
23 37 23 13-0053	EA	42" x 48" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	6,455.06	348.07
23 37 23 13-0054	EA	42" x 54" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	7,360.59	396.93
23 37 23 13-0055	EA	42" x 60" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	7,623.39	411.10
23 37 23 13-0056	EA	42" x 66" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	8,499.66	458.26
23 37 23 13-0057	EA	42" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	9,346.69	503.95
23 37 23 13-0058	EA	48" x 48" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	6,849.47	404.75
23 37 23 13-0059	EA	48" x 54" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	7,409.25	437.86
23 37 23 13-0060	EA	48" x 60" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	7,968.90	470.97
23 37 23 13-0061	EA	48" x 66" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	8,848.40	522.89
23 37 23 13-0062	EA	48" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	9,379.59	529.77
23 37 23 13-0063	EA	54" x 54" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	7,956.69	456.27
23 37 23 13-0064	EA	54" x 60" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	8,925.09	511.76
23 37 23 13-0065	EA	54" x 66" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	9,684.18	555.33
23 37 23 13-0066	EA	54" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	10,312.23	591.36
23 37 23 13-0067	EA	60" x 60" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	9,917.78	568.05
23 37 23 13-0068	EA	60" x 66" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	10,411.23	605.54
23 37 23 13-0069	EA	60" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	11,159.43	652.02



Heating, Ventilating, and Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Outlets and Inlets			23 37

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 23 13-0070 EA 66" x 66" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	10,386.82	655.07
23 37 23 13-0071 EA 66" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	12,146.17	766.05
23 37 23 13-0072 EA 72" x 72" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	12,558.75	706.32
23 37 23 13-0073 Round Gravity Relief Ventilator Hood (23 37 23 13) Note: Includes integral birdscreen and built-in curb cap with prepunched holes.		
23 37 23 13-0074 EA 22" x 22" Base/Panel, 12" x 12" Throat, Aluminum, Gravity Intake/Relief Ventilator Hood (Greenheck GRS)	851.63	98.54
23 38 Ventilation Hoods (23 30)		
23 38 13 Commercial-Kitchen Hoods (23 38)		
23 38 13 13 Listed Commercial-Kitchen Hoods (23 38 13)		
23 38 13 13-0001 Universal Ventless Hood (23 38 13 13)		
23 38 13 13-0002 EA 109" Wide x 50" Deep x 102" High, Ventless Exhaust Hood With Stand, (Wells WVU-96)	55,726.83	511.66
23 38 13 16 Standard Commercial-Kitchen Hoods (23 38 13)		
23 38 13 16-0001 Commercial Kitchen Hood Ventilation System (23 38 13 16) Note: Excludes fire suppression. See CSI section 23 34 16 00-0108 for exhaust and supply fans.		
23 38 13 16-0002 Dry Filter Exhaust Hoods (23 38 13 16-0001) Note: Includes stainless steel filters, exhaust damper and 48" long fluorescent light fixtures.		
23 38 13 16-0003 EA 8' Long x 60" Deep Dry Filter Exhaust Hood	13,105.04	959.97
23 38 13 16-0004 EA 8'-6" Long x 60" Deep Dry Filter Exhaust Hood	13,647.80	1,019.98
23 38 13 16-0005 EA 9' Long x 60" Deep Dry Filter Exhaust Hood	15,233.71	1,079.98
23 38 13 16-0006 EA 9'-6" Long x 60" Deep Dry Filter Exhaust Hood	15,690.05	1,139.98
23 38 13 16-0007 EA 10' Long x 60" Deep Dry Filter Exhaust Hood	16,248.27	1,199.97
23 38 13 16-0008 EA 10'-6" Long x 60" Deep Dry Filter Exhaust Hood	16,839.07	1,259.97
23 38 13 16-0009 EA 11' Long x 60" Deep Dry Filter Exhaust Hood	17,398.02	1,319.97
23 38 13 16-0010 EA 11'-6" Long x 60" Deep Dry Filter Exhaust Hood	17,974.39	1,379.97
23 38 13 16-0011 EA 12' Long x 60" Deep Dry Filter Exhaust Hood	18,617.23	1,439.97
23 38 13 16-0012 EA 12'-6" Long x 60" Deep Dry Filter Exhaust Hood	19,173.17	1,499.97
23 38 13 16-0013 EA 13' Long x 60" Deep Dry Filter Exhaust Hood	19,630.67	1,559.97
23 38 13 16-0014 EA 13'-6" Long x 60" Deep Dry Filter Exhaust Hood	20,410.38	1,619.96
23 38 13 16-0015 EA 14' Long x 60" Deep Dry Filter Exhaust Hood	22,867.66	1,679.96
23 38 13 16-0016 EA 14'-6" Long x 60" Deep Dry Filter Exhaust Hood	23,480.29	1,739.96
23 38 13 16-0017 EA 15' Long x 60" Deep Dry Filter Exhaust Hood	24,318.60	1,799.96
23 38 13 16-0018 EA 15'-6" Long x 60" Deep Dry Filter Exhaust Hood	24,945.59	1,859.96
23 38 13 16-0019 EA 16' Long x 60" Deep Dry Filter Exhaust Hood	25,889.99	1,919.96
23 38 13 16-0020 Dry Extractor Exhaust Hoods (23 38 13 16-0001) Note: Includes extractor inserts, exhaust damper, 48" long fluorescent light fixtures, and UDS filler panels.		
23 38 13 16-0021 EA 8' Long x 60" Deep Dry Extractor Exhaust Hood	18,428.73	959.97
23 38 13 16-0022 EA 8'-6" Long x 60" Deep Dry Extractor Exhaust Hood	19,005.18	1,019.98
23 38 13 16-0023 EA 9' Long x 60" Deep Dry Extractor Exhaust Hood	20,692.17	1,079.98
23 38 13 16-0024 EA 9'-6" Long x 60" Deep Dry Extractor Exhaust Hood	21,283.29	1,139.98
23 38 13 16-0025 EA 10' Long x 60" Deep Dry Extractor Exhaust Hood	21,875.21	1,199.97
23 38 13 16-0026 EA 10'-6" Long x 60" Deep Dry Extractor Exhaust Hood	22,432.31	1,259.97
23 38 13 16-0027 EA 11' Long x 60" Deep Dry Extractor Exhaust Hood	23,024.95	1,319.97
23 38 13 16-0028 EA 11'-6" Long x 60" Deep Dry Extractor Exhaust Hood	23,584.48	1,379.97
23 38 13 16-0029 EA 12' Long x 60" Deep Dry Extractor Exhaust Hood	24,109.39	1,439.97
23 38 13 16-0030 EA 12'-6" Long x 60" Deep Dry Extractor Exhaust Hood	24,867.49	1,499.97
23 38 13 16-0031 EA 13' Long x 60" Deep Dry Extractor Exhaust Hood	25,746.17	1,559.97
23 38 13 16-0032 EA 13'-6" Long x 60" Deep Dry Extractor Exhaust Hood	26,677.50	1,619.96
23 38 13 16-0033 EA 14' Long x 60" Deep Dry Extractor Exhaust Hood	28,646.22	1,679.96
23 38 13 16-0034 EA 14'-6" Long x 60" Deep Dry Extractor Exhaust Hood	29,595.79	1,739.96
23 38 13 16-0035 EA 15' Long x 60" Deep Dry Extractor Exhaust Hood	31,461.77	1,799.96
23 38 13 16-0036 EA 15'-6" Long x 60" Deep Dry Extractor Exhaust Hood	33,352.30	1,859.96
23 38 13 16-0037 EA 16' Long x 60" Deep Dry Extractor Exhaust Hood	35,223.29	1,919.96
23 38 13 16-0038 Single Manifold Water Wash Exhaust Hoods (23 38 13 16-0001) Note: Includes extraction baffles, 48" long fluorescent light fixtures, and UDS filler panels. Excludes fan wash control panel.		
23 38 13 16-0039 EA 8' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	19,776.50	959.97
23 38 13 16-0040 EA 8'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	20,386.64	1,019.98
23 38 13 16-0041 EA 9' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	22,107.33	1,079.98
23 38 13 16-0042 EA 9'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	22,715.29	1,139.98
23 38 13 16-0043 EA 10' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	23,357.75	1,199.97
23 38 13 16-0044 EA 10'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	23,948.55	1,259.97
23 38 13 16-0045 EA 11' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	24,558.04	1,319.97
23 38 13 16-0046 EA 11'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	25,168.11	1,379.97
23 38 13 16-0047 EA 12' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	25,709.86	1,439.97
23 38 13 16-0048 EA 12'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	26,535.35	1,499.97
23 38 13 16-0049 EA 13' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	27,481.42	1,559.97
23 38 13 16-0050 EA 13'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	28,480.14	1,619.96
23 38 13 16-0051 EA 14' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	30,516.25	1,679.96

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 38 Ventilation Hoods**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 38 13 16-0052 EA 14'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	31,533.21	1,739.96
23 38 13 16-0053 EA 15" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	33,584.51	1,799.96
23 38 13 16-0054 EA 15'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	34,598.98	1,859.96
23 38 13 16-0055 EA 16' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	35,610.77	1,919.96
23 38 13 16-0056 EA Fan Wash Control Panel.....	14,231.04	479.99
Note: Includes time clock and backflow preventer.		
23 38 13 16-0057 Utility Distribution System (UDS) (23 38 13 16-0001)		
Note: Includes "L" shaped primary riser, secondary riser, horizontal mechanical and electrical raceway; 2" IPS looped gas manifold with two (2) solenoid gas valves; 1" hot water manifold; 1" cold water manifold; 100 Amp 120-208 VAC/3 Ph/60 Hz main shunt trip connectors; equipment restraints; flexible drain connectors; and power interruption device. Excludes main shunt breaker.		
23 38 13 16-0058 EA 8' Long Utility Distribution System (UDS).....	57,080.21	488.15
23 38 13 16-0059 EA 8'-6" Long Utility Distribution System (UDS)	58,768.20	500.03
23 38 13 16-0060 EA 9' Long Utility Distribution System (UDS).....	60,437.88	511.66
23 38 13 16-0061 EA 9'-6" Long Utility Distribution System (UDS).....	62,117.06	527.99
23 38 13 16-0062 EA 10' Long Utility Distribution System (UDS).....	63,789.46	540.95
23 38 13 16-0063 EA 10'-6" Long Utility Distribution System (UDS)	65,445.27	554.62
23 38 13 16-0064 EA 11' Long Utility Distribution System (UDS).....	67,128.55	564.10
23 38 13 16-0065 EA 11'-6" Long Utility Distribution System (UDS).....	68,804.67	578.99
23 38 13 16-0066 EA 12' Long Utility Distribution System (UDS).....	70,493.20	599.99
23 38 13 16-0067 EA 12'-6" Long Utility Distribution System (UDS)	72,196.78	628.54
23 38 13 16-0068 EA 13' Long Utility Distribution System (UDS).....	73,880.17	647.02
23 38 13 16-0069 EA 13'-6" Long Utility Distribution System (UDS).....	75,579.43	673.42
23 38 13 16-0070 EA 14' Long Utility Distribution System (UDS).....	77,268.40	694.66
23 38 13 16-0071 EA 14'-6" Long Utility Distribution System (UDS)	78,960.14	717.35
23 38 13 16-0072 EA 15' Long Utility Distribution System (UDS).....	80,654.94	741.59
23 38 13 16-0073 EA 15'-6" Long Utility Distribution System (UDS).....	82,353.10	767.39
23 38 13 16-0074 EA 16' Long Utility Distribution System (UDS).....	84,036.08	785.74
23 38 13 16-0075 Stainless Steel Exhaust Hood Material (23 38 13 16)		
Note: Welded seams.		
23 38 13 16-0076 SF 16 Gauge, Type 304, Stainless Steel Exhaust Hood Material	52.95	17.59
For Type 316 Stainless Steel, Add	1.65	
23 38 13 16-0077 SF 14 Gauge, Type 304, Stainless Steel Exhaust Hood Material	66.18	23.45
For Type 316 Stainless Steel, Add	2.06	
23 38 13 16-0078 SF 12 Gauge, Type 304, Stainless Steel Exhaust Hood Material	91.93	31.66
For Type 316 Stainless Steel, Add	2.88	
23 38 13 16-0079 SF 10 Gauge, Type 304, Stainless Steel Exhaust Hood Material	115.19	38.70
For Type 316 Stainless Steel, Add	3.70	
23 38 13 16-0080 Kitchen Exhaust Hood (23 38 13 16)		
23 38 13 16-0081 EA 10' x 4', Type 1, Low Ceiling Sloped Front Commercial Kitchen Hood System With PSP Makeup Air (Halifax LPSHP1048).....	11,510.54	2,443.67
Note: Ductwork connections by others.		
For Type 316 Stainless Steel, Add	662.32	
23 38 13 16-0082 EA 8' x 4', Type 1, Commercial Kitchen Hood System With Short Cycle Makeup Air (Halifax SCHP848)	10,533.08	1,954.93
Note: Ductwork connections by others.		
For Type 316 Stainless Steel, Add	662.32	
23 38 13 16-0083 EA 4' x 4', Type 1, Low Ceiling Sloped Front Commercial Kitchen Hood System (Halifax LEXHP448)	5,728.88	977.47
Note: Ductwork connections by others.		
For Type 316 Stainless Steel, Add	377.40	
23 38 13 16-0084 EA 6' x 4', Type 1, Low Ceiling Sloped Front Commercial Kitchen Hood System (Halifax LEXHP648)	7,353.12	1,466.20
Note: Ductwork connections by others.		
For Type 316 Stainless Steel, Add	442.07	
23 38 13 16-0085 EA 5' x 4', Type 1, Commercial Kitchen Hood System (Halifax EXHP548)	6,637.15	1,221.84
Note: Ductwork connections by others.		
For Type 316 Stainless Steel, Add	419.35	
23 40 HVAC Air Cleaning Devices (23)		
23 41 Particulate Air Filtration (23 40)		
23 41 13 Panel Air Filters (23 41)		
23 41 13 00-0001 Disposable Air Filters (23 41 13)		
23 41 13 00-0002 EA Throwaway Glass Or Paper Media Filter, Residential.....	14.21	
23 41 13 00-0003 Disposable Fiberglass Air Filters (23 41 13)		
23 41 13 00-0004 EA 8" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.33	6.37
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0005 EA 8" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.33	6.37
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0006 EA 8" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.03	6.37
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0007 EA 10" x 10" x 1" Disposable Fiberglass Air Filter, MERV 5.....	13.95	6.67
Note: One-piece kraft fiberboard frame with two metal grids.		

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Air Cleaning Devices

23 40

Particulate Air Filtration

23 41

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0008	EA	10" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	13.95	6.67
23 41 13 00-0009	EA	10" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	13.95	6.67
23 41 13 00-0010	EA	10" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	13.95	6.67
23 41 13 00-0011	EA	10" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.19	6.67
23 41 13 00-0012	EA	12" x 12" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.73	6.96
23 41 13 00-0013	EA	12" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.71	6.96
23 41 13 00-0014	EA	12" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.03	6.96
23 41 13 00-0015	EA	12" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.03	6.96
23 41 13 00-0016	EA	12" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.03	6.96
23 41 13 00-0017	EA	12" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.68	6.96
23 41 13 00-0018	EA	12" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.72	6.96
23 41 13 00-0019	EA	14" x 14" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.86	7.36
23 41 13 00-0020	EA	14" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.40	7.36
23 41 13 00-0021	EA	14" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.88	7.36
23 41 13 00-0022	EA	14" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.86	7.36
23 41 13 00-0023	EA	14" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.88	7.36
23 41 13 00-0024	EA	14" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.78	7.36
23 41 13 00-0025	EA	15" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.06	7.57
23 41 13 00-0026	EA	15" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.06	7.57
23 41 13 00-0027	EA	15" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.50	7.57
23 41 13 00-0028	EA	16" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.22	7.67
23 41 13 00-0029	EA	16" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.87	7.67
23 41 13 00-0030	EA	16" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.27	7.67
23 41 13 00-0031	EA	16" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.25	7.67
23 41 13 00-0032	EA	16" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.64	7.67
23 41 13 00-0033	EA	16" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.64	7.67
23 41 13 00-0034	EA	16" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	23.33	7.67
23 41 13 00-0035	EA	16" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	23.03	7.67
23 41 13 00-0036	EA	18" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.65	7.96
23 41 13 00-0037	EA	18" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.27	7.96
23 41 13 00-0038	EA	18" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.65	7.96
23 41 13 00-0039	EA	18" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.93	7.96
23 41 13 00-0040	EA	18" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.80	7.96
23 41 13 00-0041	EA	18" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	21.95	7.96
23 41 13 00-0042	EA	19" x 27" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.54	8.36
23 41 13 00-0043	EA	20" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.56	8.36
23 41 13 00-0044	EA	20" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.93	8.36
23 41 13 00-0045	EA	20" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.13	8.36
23 41 13 00-0046	EA	20" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.73	8.36
23 41 13 00-0047	EA	20" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	24.27	8.36
23 41 13 00-0048	EA	20" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	21.88	8.36
23 41 13 00-0049	EA	21" x 21" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.90	8.46

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 40 HVAC Air Cleaning Devices****23 41 Particulate Air Filtration**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0050	EA	22" x 22" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.05	8.56
23 41 13 00-0051	EA	24" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.18	8.66
23 41 13 00-0052	EA	24" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.83	8.66
23 41 13 00-0053	EA	24" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	26.46	8.66
23 41 13 00-0054	EA	25" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.32	8.75
23 41 13 00-0055	EA	25" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	26.99	8.75
23 41 13 00-0056	EA	10" x 10" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.96	6.67
23 41 13 00-0057	EA	10" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.86	6.67
23 41 13 00-0058	EA	12" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.31	6.96
23 41 13 00-0059	EA	14" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.84	7.36
23 41 13 00-0060	EA	14" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.84	7.36
23 41 13 00-0061	EA	15" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.21	7.57
23 41 13 00-0062	EA	16" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.10	7.67
23 41 13 00-0063	EA	16" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.93	7.67
23 41 13 00-0064	EA	16" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.34	7.67
23 41 13 00-0065	EA	18" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.45	7.96
23 41 13 00-0066	EA	20" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.10	8.36
23 41 13 00-0067	EA	20" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.82	8.36
23 41 13 00-0068	EA	20" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.82	8.36
23 41 13 00-0069	EA	24" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.50	8.66
23 41 13 00-0070	EA	25" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.64	8.75
23 41 13 00-0071 Disposable Pleated Air Filters (23 41 13)				
23 41 13 00-0072	EA	10" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	15.07	6.67
23 41 13 00-0073	EA	10" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	22.36	6.67
23 41 13 00-0074	EA	10" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	28.12	6.67
23 41 13 00-0075	EA	12" x 12" x 1" Disposable Pleated Air Filter, MERV 8.....	19.40	6.96
23 41 13 00-0076	EA	12" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	18.04	6.96
23 41 13 00-0077	EA	12" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	17.83	6.96
23 41 13 00-0078	EA	12" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	17.83	6.96
23 41 13 00-0079	EA	12" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	28.52	6.96
23 41 13 00-0080	EA	14" x 14" x 1" Disposable Pleated Air Filter, MERV 8.....	21.95	7.36
23 41 13 00-0081	EA	14" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	18.57	7.36
23 41 13 00-0082	EA	14" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	23.68	7.36
23 41 13 00-0083	EA	14" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	19.19	7.36
23 41 13 00-0084	EA	14" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	27.51	7.36
23 41 13 00-0085	EA	15" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	18.96	7.57
23 41 13 00-0086	EA	16" x 16" x 1" Disposable Pleated Air Filter, MERV 8.....	22.34	7.67
23 41 13 00-0087	EA	16" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	18.68	7.67
23 41 13 00-0088	EA	16" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	21.76	7.67
23 41 13 00-0089	EA	16" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	19.37	7.67
23 41 13 00-0090	EA	16" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	27.90	7.67
23 41 13 00-0091	EA	18" x 18" x 1" Disposable Pleated Air Filter, MERV 8.....	29.84	7.96
23 41 13 00-0092	EA	18" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	22.12	7.96
23 41 13 00-0093	EA	18" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	21.74	7.96
23 41 13 00-0094	EA	18" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	21.47	7.96
23 41 13 00-0095	EA	18" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	30.02	7.96
23 41 13 00-0096	EA	20" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	20.43	8.36
23 41 13 00-0097	EA	20" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	21.82	8.36
23 41 13 00-0098	EA	20" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	21.58	8.36
23 41 13 00-0099	EA	20" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	24.38	8.36
23 41 13 00-0100	EA	22" x 22" x 1" Disposable Pleated Air Filter, MERV 8.....	29.61	8.56
23 41 13 00-0101	EA	24" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	23.23	8.66
23 41 13 00-0102	EA	24" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	36.47	8.66
23 41 13 00-0103	EA	25" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	24.59	8.75
23 41 13 00-0104	EA	10" x 20" x 2" Disposable Pleated Air Filter, MERV 8.....	17.78	6.67
23 41 13 00-0105	EA	12" x 12" x 2" Disposable Pleated Air Filter, MERV 8.....	23.19	6.96
23 41 13 00-0106	EA	12" x 20" x 2" Disposable Pleated Air Filter, MERV 8.....	18.64	6.96
23 41 13 00-0107	EA	12" x 24" x 2" Disposable Pleated Air Filter, MERV 8.....	18.35	6.96
23 41 13 00-0108	EA	14" x 20" x 2" Disposable Pleated Air Filter, MERV 8.....	19.41	7.36
23 41 13 00-0109	EA	14" x 25" x 2" Disposable Pleated Air Filter, MERV 8.....	20.25	7.36

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Air Cleaning Devices

23 40

Particulate Air Filtration

23 41

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0110	EA	15" x 20" x 2" Disposable Pleated Air Filter, MERV 8	19.67	7.57	
23 41 13 00-0111	EA	16" x 16" x 2" Disposable Pleated Air Filter, MERV 8	24.70	7.67	
23 41 13 00-0112	EA	16" x 20" x 2" Disposable Pleated Air Filter, MERV 8	19.27	7.67	
23 41 13 00-0113	EA	16" x 24" x 2" Disposable Pleated Air Filter, MERV 8	21.97	7.67	
23 41 13 00-0114	EA	16" x 25" x 2" Disposable Pleated Air Filter, MERV 8	20.36	7.67	
23 41 13 00-0115	EA	18" x 18" x 2" Disposable Pleated Air Filter, MERV 8	28.51	7.96	
23 41 13 00-0116	EA	18" x 20" x 2" Disposable Pleated Air Filter, MERV 8	24.34	7.96	
23 41 13 00-0117	EA	18" x 24" x 2" Disposable Pleated Air Filter, MERV 8	22.12	7.96	
23 41 13 00-0118	EA	18" x 25" x 2" Disposable Pleated Air Filter, MERV 8	22.97	7.96	
23 41 13 00-0119	EA	20" x 20" x 2" Disposable Pleated Air Filter, MERV 8	21.51	8.36	
23 41 13 00-0120	EA	20" x 24" x 2" Disposable Pleated Air Filter, MERV 8	23.05	8.36	
23 41 13 00-0121	EA	20" x 25" x 2" Disposable Pleated Air Filter, MERV 8	22.79	8.36	
23 41 13 00-0122	EA	20" x 30" x 2" Disposable Pleated Air Filter, MERV 8	32.84	8.36	
23 41 13 00-0123	EA	24" x 24" x 2" Disposable Pleated Air Filter, MERV 8	24.42	8.66	
23 41 13 00-0124	EA	25" x 25" x 2" Disposable Pleated Air Filter, MERV 8	26.98	8.75	
23 41 13 00-0125	EA	12" x 24" x 4" Disposable Pleated Air Filter, MERV 8	28.09	6.96	
23 41 13 00-0126	EA	16" x 20" x 4" Disposable Pleated Air Filter, MERV 8	30.36	7.67	
23 41 13 00-0127	EA	16" x 25" x 4" Disposable Pleated Air Filter, MERV 8	32.45	7.67	
23 41 13 00-0128	EA	18" x 24" x 4" Disposable Pleated Air Filter, MERV 8	35.00	7.96	
23 41 13 00-0129	EA	20" x 20" x 4" Disposable Pleated Air Filter, MERV 8	33.28	8.36	
23 41 13 00-0130	EA	20" x 24" x 4" Disposable Pleated Air Filter, MERV 8	36.20	8.36	
23 41 13 00-0131	EA	20" x 25" x 4" Disposable Pleated Air Filter, MERV 8	36.47	8.36	
23 41 13 00-0132	EA	24" x 24" x 4" Disposable Pleated Air Filter, MERV 8	39.80	8.66	
23 41 13 00-0133	EA	10" x 20" x 1" Disposable Pleated Air Filter, MERV 11	25.56	6.67	
23 41 13 00-0134	EA	10" x 24" x 1" Disposable Pleated Air Filter, MERV 11	25.56	6.67	
23 41 13 00-0135	EA	10" x 30" x 1" Disposable Pleated Air Filter, MERV 11	33.12	6.67	
23 41 13 00-0136	EA	12" x 12" x 1" Disposable Pleated Air Filter, MERV 11	27.09	6.96	
23 41 13 00-0137	EA	12" x 20" x 1" Disposable Pleated Air Filter, MERV 11	26.41	6.96	
23 41 13 00-0138	EA	12" x 24" x 1" Disposable Pleated Air Filter, MERV 11	26.30	6.96	
23 41 13 00-0139	EA	12" x 30" x 1" Disposable Pleated Air Filter, MERV 11	37.57	6.96	
23 41 13 00-0140	EA	14" x 14" x 1" Disposable Pleated Air Filter, MERV 11	30.77	7.36	
23 41 13 00-0141	EA	14" x 20" x 1" Disposable Pleated Air Filter, MERV 11	27.11	7.36	
23 41 13 00-0142	EA	14" x 24" x 1" Disposable Pleated Air Filter, MERV 11	34.99	7.36	
23 41 13 00-0143	EA	14" x 25" x 1" Disposable Pleated Air Filter, MERV 11	34.22	7.36	
23 41 13 00-0144	EA	14" x 30" x 1" Disposable Pleated Air Filter, MERV 11	40.16	7.36	
23 41 13 00-0145	EA	15" x 20" x 1" Disposable Pleated Air Filter, MERV 11	26.03	7.57	
23 41 13 00-0146	EA	16" x 16" x 1" Disposable Pleated Air Filter, MERV 11	36.83	7.67	
23 41 13 00-0147	EA	16" x 20" x 1" Disposable Pleated Air Filter, MERV 11	24.32	7.67	
23 41 13 00-0148	EA	16" x 24" x 1" Disposable Pleated Air Filter, MERV 11	31.33	7.67	
23 41 13 00-0149	EA	16" x 25" x 1" Disposable Pleated Air Filter, MERV 11	28.80	7.67	
23 41 13 00-0150	EA	16" x 30" x 1" Disposable Pleated Air Filter, MERV 11	38.01	7.67	
23 41 13 00-0151	EA	18" x 18" x 1" Disposable Pleated Air Filter, MERV 11	38.89	7.96	
23 41 13 00-0152	EA	18" x 20" x 1" Disposable Pleated Air Filter, MERV 11	33.02	7.96	
23 41 13 00-0153	EA	18" x 24" x 1" Disposable Pleated Air Filter, MERV 11	29.78	7.96	
23 41 13 00-0154	EA	18" x 25" x 1" Disposable Pleated Air Filter, MERV 11	31.73	7.96	
23 41 13 00-0155	EA	18" x 30" x 1" Disposable Pleated Air Filter, MERV 11	43.94	7.96	
23 41 13 00-0156	EA	20" x 20" x 1" Disposable Pleated Air Filter, MERV 11	29.93	8.36	
23 41 13 00-0157	EA	20" x 24" x 1" Disposable Pleated Air Filter, MERV 11	32.83	8.36	
23 41 13 00-0158	EA	20" x 25" x 1" Disposable Pleated Air Filter, MERV 11	33.14	8.36	
23 41 13 00-0159	EA	20" x 30" x 1" Disposable Pleated Air Filter, MERV 11	38.54	8.36	
23 41 13 00-0160	EA	22" x 22" x 1" Disposable Pleated Air Filter, MERV 11	42.64	8.56	
23 41 13 00-0161	EA	24" x 24" x 1" Disposable Pleated Air Filter, MERV 11	35.94	8.66	
23 41 13 00-0162	EA	24" x 30" x 1" Disposable Pleated Air Filter, MERV 11	46.53	8.66	
23 41 13 00-0163	EA	25" x 25" x 1" Disposable Pleated Air Filter, MERV 11	40.44	8.75	
23 41 13 00-0164	EA	10" x 20" x 2" Disposable Pleated Air Filter, MERV 11	26.01	6.67	
23 41 13 00-0165	EA	12" x 12" x 2" Disposable Pleated Air Filter, MERV 11	27.39	6.96	
23 41 13 00-0166	EA	12" x 20" x 2" Disposable Pleated Air Filter, MERV 11	26.04	6.96	
23 41 13 00-0167	EA	12" x 24" x 2" Disposable Pleated Air Filter, MERV 11	30.56	6.96	
23 41 13 00-0168	EA	14" x 20" x 2" Disposable Pleated Air Filter, MERV 11	27.42	7.36	
23 41 13 00-0169	EA	14" x 25" x 2" Disposable Pleated Air Filter, MERV 11	28.72	7.36	
23 41 13 00-0170	EA	15" x 20" x 2" Disposable Pleated Air Filter, MERV 11	28.16	7.57	
23 41 13 00-0171	EA	16" x 16" x 2" Disposable Pleated Air Filter, MERV 11	37.60	7.67	
23 41 13 00-0172	EA	16" x 20" x 2" Disposable Pleated Air Filter, MERV 11	32.76	7.67	
23 41 13 00-0173	EA	16" x 24" x 2" Disposable Pleated Air Filter, MERV 11	31.94	7.67	
23 41 13 00-0174	EA	16" x 25" x 2" Disposable Pleated Air Filter, MERV 11	36.14	7.67	
23 41 13 00-0175	EA	18" x 18" x 2" Disposable Pleated Air Filter, MERV 11	43.30	7.96	
23 41 13 00-0176	EA	18" x 20" x 2" Disposable Pleated Air Filter, MERV 11	34.39	7.96	
23 41 13 00-0177	EA	18" x 24" x 2" Disposable Pleated Air Filter, MERV 11	39.21	7.96	
23 41 13 00-0178	EA	18" x 25" x 2" Disposable Pleated Air Filter, MERV 11	34.01	7.96	
23 41 13 00-0179	EA	20" x 20" x 2" Disposable Pleated Air Filter, MERV 11	37.70	8.36	
23 41 13 00-0180	EA	20" x 24" x 2" Disposable Pleated Air Filter, MERV 11	40.39	8.36	
23 41 13 00-0181	EA	20" x 25" x 2" Disposable Pleated Air Filter, MERV 11	40.79	8.36	
23 41 13 00-0182	EA	24" x 24" x 2" Disposable Pleated Air Filter, MERV 11	40.78	8.66	
23 41 13 00-0183	EA	25" x 25" x 2" Disposable Pleated Air Filter, MERV 11	41.32	8.75	
23 41 13 00-0184	EA	12" x 24" x 4" Disposable Pleated Air Filter, MERV 11	49.53	6.96	
23 41 13 00-0185	EA	16" x 20" x 4" Disposable Pleated Air Filter, MERV 11	50.75	7.67	
23 41 13 00-0186	EA	16" x 25" x 4" Disposable Pleated Air Filter, MERV 11	60.38	7.67	
23 41 13 00-0187	EA	18" x 24" x 4" Disposable Pleated Air Filter, MERV 11	60.31	7.96	
23 41 13 00-0188	EA	20" x 20" x 4" Disposable Pleated Air Filter, MERV 11	60.10	8.36	
23 41 13 00-0189	EA	20" x 24" x 4" Disposable Pleated Air Filter, MERV 11	66.15	8.36	
23 41 13 00-0190	EA	20" x 25" x 4" Disposable Pleated Air Filter, MERV 11	66.15	8.36	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 40 HVAC Air Cleaning Devices****23 41 Particulate Air Filtration**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0191 EA 24" x 24" x 4" Disposable Pleated Air Filter, MERV 11.....	73.79	8.66
23 41 13 00-0192 EA 8" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.53	6.37
23 41 13 00-0193 EA 8" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.53	6.37
23 41 13 00-0194 EA 8" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.53	6.37
23 41 13 00-0195 EA 10" x 10" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.93	6.67
23 41 13 00-0196 EA 10" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	31.51	6.67
23 41 13 00-0197 EA 10" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.93	6.67
23 41 13 00-0198 EA 10" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.93	6.67
23 41 13 00-0199 EA 10" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.93	6.67
23 41 13 00-0200 EA 12" x 12" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	31.91	6.96
23 41 13 00-0201 EA 12" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	33.33	6.96
23 41 13 00-0202 EA 12" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	31.91	6.96
23 41 13 00-0203 EA 12" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	31.91	6.96
23 41 13 00-0204 EA 12" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	33.33	6.96
23 41 13 00-0205 EA 12" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	33.33	6.96
23 41 13 00-0206 EA 12" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	34.74	6.96
23 41 13 00-0207 EA 14" x 14" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.44	7.36
23 41 13 00-0208 EA 14" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	33.86	7.36
23 41 13 00-0209 EA 14" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.44	7.36
23 41 13 00-0210 EA 14" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.44	7.36
23 41 13 00-0211 EA 14" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.44	7.36
23 41 13 00-0212 EA 14" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	33.86	7.36
23 41 13 00-0213 EA 15" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.70	7.57
23 41 13 00-0214 EA 15" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	34.12	7.57
23 41 13 00-0215 EA 15" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	34.12	7.57
23 41 13 00-0216 EA 16" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.83	7.67
23 41 13 00-0217 EA 16" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	34.25	7.67
23 41 13 00-0218 EA 16" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.83	7.67
23 41 13 00-0219 EA 16" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.83	7.67
23 41 13 00-0220 EA 16" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	32.83	7.67
23 41 13 00-0221 EA 16" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	34.25	7.67
23 41 13 00-0222 EA 16" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	34.25	7.67
23 41 13 00-0223 EA 16" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	38.84	7.67
23 41 13 00-0224 EA 18" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	33.23	7.96
23 41 13 00-0225 EA 18" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.06	7.96
23 41 13 00-0226 EA 18" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	33.23	7.96
23 41 13 00-0227 EA 18" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.06	7.96
23 41 13 00-0228 EA 18" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.06	7.96
23 41 13 00-0229 EA 18" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	39.24	7.96
23 41 13 00-0230 EA 19" x 27" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.60	8.36
23 41 13 00-0231 EA 20" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	33.77	8.36
23 41 13 00-0232 EA 20" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	33.77	8.36
23 41 13 00-0233 EA 20" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	33.77	8.36
23 41 13 00-0234 EA 20" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	35.19	8.36
23 41 13 00-0235 EA 20" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	39.78	8.36
23 41 13 00-0236 EA 20" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	39.78	8.36
23 41 13 00-0237 EA 21" x 21" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.73	8.46
23 41 13 00-0238 EA 22" x 22" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	35.45	8.56
23 41 13 00-0239 EA 24" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	38.40	8.66
23 41 13 00-0240 EA 24" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	38.40	8.66
23 41 13 00-0241 EA 24" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	43.00	8.66
23 41 13 00-0242 EA 25" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	38.54	8.75
23 41 13 00-0243 EA 25" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	43.14	8.75
23 41 13 00-0244 EA 30" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	43.40	8.95

23 41 13 00-0245 Electrostatic Air Filters With Frame, Element And Busbar (23 41 13)

23 41 13 00-0246 MF3 Electrostatic Air Filter, High Efficiency Non-Supported With Frame, Element And Busbar.....	73.59
23 41 13 00-0247 MF3 Electrostatic Air Filter, Medium Efficiency Non-Supported With Frame, Element And Busbar.....	71.07
23 41 13 00-0248 MF3 Electrostatic Air Filter, Glass/Paper Throwaway With Frame, Element And Busbar.....	3.07

23 41 13 00-0249 Carbon Vapor Trap, Disposable V-Bank Filter (23 41 13)

23 41 13 00-0250 EA 24" x 24" x 12" Thick Carbon Vapor, Disposable V-Bank Filter.....	996.04	19.90

23 41 16 Renewable-Media Air Filters (23 41)**23 41 16 00-0001 Renewable-Media Electrostatic Air Filters With Frame, Element And Busbar (23 41 16)**

23 41 16 00-0002 MF3 Electrostatic Air Filter, 5' Disposable Roll Renewable With Frame, Element And Busbar.....	126.64

23 41 19 Washable Air Filters (23 41)**23 41 19 00-0001 Washable Electrostatic Air Filters With Frame, Element And Busbar (23 41 19)**

23 41 19 00-0002 MF3 Electrostatic Air Filter, Permanent, Washable With Frame, Element And Busbar.....	48.35

23 41 33 High-Efficiency Particulate Filtration (23 41)



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
HVAC Air Cleaning Devices			23 40	
Particulate Air Filtration			23 41	

MINOR		DESCRIPTION	TOTAL DIRECT		DEMOLITION
CSI	UOM		UNIT COST	UNIT COST	
23 41 33 00-0001		High Efficiency Particulate Air (HEPA) Filters ^(23 41 33)			
		Note: Includes particleboard and kraft paper frame and separator material.			
23 41 33 00-0002		High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-95% ^(23 41 33 00-0001)			
23 41 33 00-0003	EA	12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 150 CFM, Complete	133.05		18.57
		For Removal And Replacement In Existing Equipment, Add	3.72		
		For >10 To 25, Deduct	-3.33		
		For >25 To 50, Deduct	-6.65		
		For >50 To 100, Deduct	-9.98		
		For >100, Deduct	-13.31		
23 41 33 00-0004	EA	24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 375 CFM, Complete	176.32		21.23
		For Removal And Replacement In Existing Equipment, Add	4.25		
		For >10 To 25, Deduct	-4.41		
		For >25 To 50, Deduct	-8.82		
		For >50 To 100, Deduct	-13.22		
		For >100, Deduct	-17.63		
23 41 33 00-0005	EA	24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 450 CFM, Complete	206.32		24.55
		For Removal And Replacement In Existing Equipment, Add	4.91		
		For >10 To 25, Deduct	-5.16		
		For >25 To 50, Deduct	-10.32		
		For >50 To 100, Deduct	-15.47		
		For >100, Deduct	-20.63		
23 41 33 00-0006	EA	24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 700 CFM, Complete	236.33		27.87
		For Removal And Replacement In Existing Equipment, Add	5.57		
		For >10 To 25, Deduct	-5.91		
		For >25 To 50, Deduct	-11.82		
		For >50 To 100, Deduct	-17.72		
		For >100, Deduct	-23.63		
23 41 33 00-0007	EA	12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 250 CFM, Complete	161.65		19.90
		For Removal And Replacement In Existing Equipment, Add	3.98		
		For >10 To 25, Deduct	-4.04		
		For >25 To 50, Deduct	-8.08		
		For >50 To 100, Deduct	-12.12		
		For >100, Deduct	-16.17		
23 41 33 00-0008	EA	24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 500 CFM, Complete	216.50		23.22
		For Removal And Replacement In Existing Equipment, Add	4.64		
		For >10 To 25, Deduct	-5.41		
		For >25 To 50, Deduct	-10.83		
		For >50 To 100, Deduct	-16.24		
		For >100, Deduct	-21.65		
23 41 33 00-0009	EA	24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 875 CFM, Complete	258.58		26.54
		For Removal And Replacement In Existing Equipment, Add	5.31		
		For >10 To 25, Deduct	-6.46		
		For >25 To 50, Deduct	-12.93		
		For >50 To 100, Deduct	-19.39		
		For >100, Deduct	-25.86		
23 41 33 00-0010	EA	24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 1,000 CFM, Complete	307.30		33.17
		For Removal And Replacement In Existing Equipment, Add	6.63		
		For >10 To 25, Deduct	-7.68		
		For >25 To 50, Deduct	-15.37		
		For >50 To 100, Deduct	-23.05		
		For >100, Deduct	-30.73		
23 41 33 00-0011		High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-99.99% ^(23 41 33 00-0001)			
23 41 33 00-0012	EA	12" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete	114.10		16.59
		For Removal And Replacement In Existing Equipment, Add	3.32		
		For >10 To 25, Deduct	-2.85		
		For >25 To 50, Deduct	-5.71		
		For >50 To 100, Deduct	-8.56		
		For >100, Deduct	-11.41		
23 41 33 00-0013	EA	24" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete	157.41		19.90
		For Removal And Replacement In Existing Equipment, Add	3.98		
		For >10 To 25, Deduct	-3.94		
		For >25 To 50, Deduct	-7.87		
		For >50 To 100, Deduct	-11.81		
		For >100, Deduct	-15.74		
23 41 33 00-0014	EA	24" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete	239.68		23.22
		For Removal And Replacement In Existing Equipment, Add	4.64		
		For >10 To 25, Deduct	-5.99		
		For >25 To 50, Deduct	-11.98		
		For >50 To 100, Deduct	-17.98		
		For >100, Deduct	-23.97		
23 41 33 00-0015	EA	36" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete	307.60		26.54
		For Removal And Replacement In Existing Equipment, Add	5.31		
		For >10 To 25, Deduct	-7.69		
		For >25 To 50, Deduct	-15.38		
		For >50 To 100, Deduct	-23.07		
		For >100, Deduct	-30.76		
23 41 33 00-0016	EA	8" x 8" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete	107.40		13.27
		For Removal And Replacement In Existing Equipment, Add	2.65		
		For >10 To 25, Deduct	-2.69		
		For >25 To 50, Deduct	-5.37		
		For >50 To 100, Deduct	-8.06		
		For >100, Deduct	-10.74		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 40 HVAC Air Cleaning Devices****23 41 Particulate Air Filtration**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 33 00-0017 EA 12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 150 CFM, Complete 142.39		17.91
For Removal And Replacement In Existing Equipment, Add	3.58	
For >10 To 25, Deduct	-3.56	
For >25 To 50, Deduct	-7.12	
For >50 To 100, Deduct	-10.68	
For >100, Deduct	-14.24	
23 41 33 00-0018 EA 24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 325 CFM, Complete 191.19		21.23
For Removal And Replacement In Existing Equipment, Add	4.25	
For >10 To 25, Deduct	-4.78	
For >25 To 50, Deduct	-9.56	
For >50 To 100, Deduct	-14.34	
For >100, Deduct	-19.12	
23 41 33 00-0019 EA 24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 550 CFM, Complete 224.46		24.88
For Removal And Replacement In Existing Equipment, Add	4.98	
For >10 To 25, Deduct	-5.61	
For >25 To 50, Deduct	-11.22	
For >50 To 100, Deduct	-16.83	
For >100, Deduct	-22.45	
23 41 33 00-0020 EA 24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete 256.39		27.87
For Removal And Replacement In Existing Equipment, Add	5.57	
For >10 To 25, Deduct	-6.41	
For >25 To 50, Deduct	-12.82	
For >50 To 100, Deduct	-19.23	
For >100, Deduct	-25.64	
23 41 33 00-0021 EA 12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 250 CFM, Complete.....175.18		19.90
For Removal And Replacement In Existing Equipment, Add	3.98	
For >10 To 25, Deduct	-4.38	
For >25 To 50, Deduct	-8.76	
For >50 To 100, Deduct	-13.14	
For >100, Deduct	-17.52	
23 41 33 00-0022 EA 24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 500 CFM, Complete.....235.41		23.22
For Removal And Replacement In Existing Equipment, Add	4.64	
For >10 To 25, Deduct	-5.89	
For >25 To 50, Deduct	-11.77	
For >50 To 100, Deduct	-17.66	
For >100, Deduct	-23.54	
23 41 33 00-0023 EA 24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete.....281.41		26.54
For Removal And Replacement In Existing Equipment, Add	5.31	
For >10 To 25, Deduct	-7.04	
For >25 To 50, Deduct	-14.07	
For >50 To 100, Deduct	-21.11	
For >100, Deduct	-28.14	
23 41 33 00-0024 EA 24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 1,100 CFM, Complete.....346.80		33.17
For Removal And Replacement In Existing Equipment, Add	6.63	
For >10 To 25, Deduct	-8.67	
For >25 To 50, Deduct	-17.34	
For >50 To 100, Deduct	-26.01	
For >100, Deduct	-34.68	
23 41 33 00-0025 High Efficiency Particulate Air (HEPA) Filter Housings, 14 Gauge Galvanized Sheet Metal (23 41 33)		
Note: Nominal sizes.		
23 41 33 00-0026 EA 12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....334.20		98.97
23 41 33 00-0027 EA 24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....625.23		196.71
23 41 33 00-0028 EA 24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....634.47		196.71
23 41 33 00-0029 EA 24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....640.64		196.71
23 41 33 00-0030 EA 24" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....683.79		196.71
23 41 33 00-0031 EA 24" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....737.72		196.71
23 41 33 00-0032 EA 48" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....1,213.47		394.66
23 41 33 00-0033 EA 48" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....1,344.47		394.66
23 41 33 00-0034 EA 48" x 96" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....1,510.90		394.66
23 41 33 00-0035 EA 12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....360.40		98.97
23 41 33 00-0036 EA 24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....669.92		196.71
23 41 33 00-0037 EA 24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....680.70		196.71
23 41 33 00-0038 EA 24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....688.41		196.71
23 41 33 00-0039 EA 24" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....739.27		196.71
23 41 33 00-0040 EA 24" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....807.07		196.71
23 41 33 00-0041 EA 48" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....1,321.35		394.66
23 41 33 00-0042 EA 48" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....1,484.71		394.66
23 41 33 00-0043 EA 48" x 96" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal.....1,691.21		394.66
23 41 33 00-0044 Filter, Bag Type, 90-95% Efficiency (23 41 33)		
23 41 33 00-0045 EA 0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 90 - 95% Efficiency.....302.54		128.29
23 41 33 00-0046 EA 1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 90 - 95% Efficiency.....345.67		128.29
23 41 33 00-0047 Filter, Bag Type, 80-85% Efficiency (23 41 33)		
23 41 33 00-0048 EA 0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 80 - 85% Efficiency.....297.59		128.29
23 41 33 00-0049 EA 1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 80 - 85% Efficiency.....329.41		128.29



Heating, Ventilating, and Air-Conditioning (HVAC)		23	23
HVAC Air Cleaning Devices		23 40	
Gas-Phase Air Filtration		23 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

23 42 Gas-Phase Air Filtration (23 40)

23 42 13 Activated-Carbon Air Filtration (23 42)

23 42 13 00-0001	EA	12" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	47.97	9.95
23 42 13 00-0002	EA	16" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	48.50	9.95
23 42 13 00-0003	EA	16" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	48.83	9.95
23 42 13 00-0004	EA	20" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	48.83	9.95
23 42 13 00-0005	EA	20" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	52.87	9.95
23 42 13 00-0006	EA	24" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	59.52	9.95
23 42 13 00-0007	EA	12" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	60.49	11.28
23 42 13 00-0008	EA	16" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	60.95	11.28
23 42 13 00-0009	EA	16" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	61.33	11.28
23 42 13 00-0010	EA	20" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	61.33	11.28
23 42 13 00-0011	EA	20" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	65.80	11.28
23 42 13 00-0012	EA	24" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	78.25	11.28
23 42 13 00-0013	EA	16" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter.....	29.47	9.95
23 42 13 00-0014	EA	16" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter.....	31.40	9.95
23 42 13 00-0015	EA	20" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter.....	31.47	9.95
23 42 13 00-0016	EA	20" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter.....	33.98	9.95
23 42 13 00-0017	EA	24" x 24" x 1" Thick Carbon Impregnated Pleated Air Filter.....	36.22	9.95
23 42 13 00-0018	EA	16" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter.....	34.11	11.28
23 42 13 00-0019	EA	16" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter.....	37.46	11.28
23 42 13 00-0020	EA	20" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter.....	38.17	11.28
23 42 13 00-0021	EA	20" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter.....	42.33	11.28
23 42 13 00-0022	EA	24" x 24" x 2" Thick Carbon Impregnated Pleated Air Filter.....	44.97	11.28
23 42 13 00-0023	EA	24" x 24" x 4" Thick Carbon Impregnated Pleated Air Filter.....	73.64	11.94

23 43 Electronic Air Cleaners (23 40)

23 43 23 Self-Contained Electronic Air Cleaners (23 43)

23 43 23 00-0001 Stationary Floor, Room Air Purifier (23 43 23)

23 43 23 00-0002	EA	Stationary Floor Room Air Purifier, Up to 390 SF (Blueair Pro M)	1,196.33	
23 43 23 00-0003	EA	Stationary Floor Room Air Purifier, Up to 780 SF (Blueair Pro L)	1,664.41	
23 43 23 00-0004	EA	Stationary Floor Room Air Purifier, Up to 1,180 SF (Blueair Pro XL)	4,205.39	
23 43 23 00-0005	EA	Stationary Floor Room Air Purifier, Up to 550 SF (Delos Compact)	943.92	
23 43 23 00-0006	EA	Stationary Floor Room Air Purifier, Up to 1,125 SF (Delos 468 Ultrafine)	1,696.19	
23 43 23 00-0007	EA	Stationary Floor Room Air Purifier, Up to 3,500 SF (Delos 980P Commercial)	6,711.29	

23 43 23 00-0008 Surface Mounted, Room Air Purifier (23 43 23)

23 43 23 00-0009	EA	Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F114A1067)	3,099.89	
23 43 23 00-0010	EA	Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F115A1064)	4,309.28	
23 43 23 00-0011	EA	Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F111A1063W-3S)	4,925.39	

23 43 23 00-0012 Suspension Ceiling Mounted, Room Air Purifier (23 43 23)

23 43 23 00-0013	EA	2' x 4' Suspension Ceiling Mounted, Air Purification System (Armstrong VidaShield UV24)	3,992.58	

23 43 23 00-0014 Wall Mounted, Room Air Purifier (23 43 23)

23 43 23 00-0015	EA	Air Purifier, Wall Mount, Bipolar Ionizer (Bi-Polar 2400)	998.00	

23 43 23 00-0016 Duct Mounted, Ionization System (23 43 23)

23 43 23 00-0017	EA	Up To 10,000 CFM, 120/240 VAC, 50 Watt, 8 Tubes, Single Phase, Series 500 Bipolar Ionization System (AtmosAir 500FC).....	12,501.92	530.70
23 43 23 00-0018	EA	Up To 15,000 CFM, 120/240 VAC, 50 Watt, 5 Tubes, Single Phase, Series 500 Bipolar Ionization System (AtmosAir 508FC).....	16,975.70	663.37

23 43 33 Self-Contained Electronic Ultraviolet Germicidal Cleaners (23 43)

23 43 33 00-0001 Suspension Ceiling Troffer Mounted, Ultraviolet Germicidal Air Purifier (23 43 33)

23 43 33 00-0002	EA	2' x 2', Troffer Mount UVC Air Purifier (ELEDLIGHTS UVADTM1202X2).....	3,474.83	
Note: 6,300 cu ft/hour air cleaning				
23 43 33 00-0003	EA	2' x 2', Troffer Mount UVC Air Purifier With 1900 Lumens LED Panel Light (ELEDLIGHTS UVALTM1202X2).....	7,539.45	
Note: 6,300 cu ft/hour air cleaning				
23 43 33 00-0004	EA	2' x 4', Troffer Mount UVC Air Purifier (ELEDLIGHTS UVADTM1202X4).....	8,486.59	
Note: 12,600 cu ft/hour air cleaning				
23 43 33 00-0005	EA	2' x 4', Troffer Mount UVC Air Purifier With 3800 Lumens LED Panel Light (ELEDLIGHTS UVALTM1202X4).....	9,488.85	
Note: 12,600 cu ft/hour air cleaning				
23 43 33 00-0006	EA	Replace 8"x8" MERV 16, HEPA Filter In Troffer Mount UVC Air Purifier(ELEDLIGHTS UVFILTERM8X8M16).....	1,054.49	

23 43 33 00-0007 Surface Mounted, Ultraviolet Germicidal Air Purifier (23 43 33)

23 43 33 00-0008	EA	Surface (Wall Or Ceiling) Mounted, Germicidal UV Active Circulation Air Cleaner (ELEDLIGHTS GUV-AC)	3,690.30	
Note: 1060 cu ft/hour air cleaning				

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 40 HVAC Air Cleaning Devices****23 43 Electronic Air Cleaners**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 43 33 00-0009		Wall Mounted, Ultraviolet Germicidal Air Purifier (23 43 33)		
23 43 33 00-0010	EA	Wall Mounted, Upper Room Germicidal UV Disinfection (ELEDLIGHTS URUVGI-NZ).....	1,884.04	
23 43 33 00-0011		Wall Mounted, Ultraviolet Germicidal Fixture (UV Resources) (23 43 33)		
23 43 33 00-0012	EA	14-1/4", 8 Watt, 120-277 Volts, UV-C Light Fixture (UV Resources GLO 150 - 41824001).....	874.49	83.89
23 43 33 00-0013	EA	23-1/4", 25 Watt, 120-277 Volts, UV-C Light Fixture (UV Resources GLO 225 - 41824000).....	923.79	96.27
23 43 33 00-0014	EA	35", 36 Watt, 120-277 Volts, UV-C Light Fixture (UV Resources GLO 310 - 41824002).....	1,338.22	104.52
23 43 33 00-0015		Wall Mounted, Ultraviolet Germicidal Fixtures And Accessories (Fresh-Aire UV) (23 43 33)		
23 43 33 00-0016	EA	32" Single Lamp, Teflon Safety Coating, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-232S-TFHO).....	617.84	101.43
23 43 33 00-0017	EA	32" Dual Lamp, Teflon Safety Coating, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-232D-TFHO).....	817.75	101.43
23 43 33 00-0018	EA	46" Single Lamp, Teflon Safety Coating, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-246S-TFHO).....	671.05	107.41
23 43 33 00-0019	EA	46" Dual Lamp, Teflon Safety Coating, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-246D-TFHO).....	916.51	107.41
23 43 33 00-0020	EA	60" Single Lamp, Teflon Safety Coating, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-260S-TFHO).....	730.30	113.46
23 43 33 00-0021	EA	60" Dual Lamp, Teflon Safety Coating, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-260D-TFHO).....	1,170.60	113.46
23 43 33 00-0022	EA	32" Single Lamp, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-232S-HO).....	584.94	101.43
23 43 33 00-0023	EA	32" Dual Lamp, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-232D-HO).....	753.64	101.43
23 43 33 00-0024	EA	46" Single Lamp, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-246S-HO).....	625.50	107.41
23 43 33 00-0025	EA	46" Dual Lamp, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-246D-HO).....	825.41	107.41
23 43 33 00-0026	EA	60" Single Lamp, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-260S-HO).....	639.20	113.46
23 43 33 00-0027	EA	60" Dual Lamp, High Output Commercial UV-C Core System (Fresh-Aire UV TUVCL-260D-HO).....	989.25	113.46
23 43 33 00-0028	EA	5' (1.5m) Remote Mounting Cable (Fresh-Aire UV TUV-CBL5).....	26.95	
23 43 33 00-0029	EA	10' (3m) Remote Mounting Cable (Fresh-Aire UV TUV-CBL10).....	33.70	
23 43 33 00-0030	EA	5" Stainless Steel Coil Mount Bracket (Fresh-Aire UV TUVCL-CMBRKT-SS5).....	39.91	
23 43 33 00-0031	EA	18" (45cm) Commercial Lamp Shield (Fresh-Aire UV TUVCL-SHIELD-18).....	55.47	
23 43 33 00-0032	EA	24" (60cm) Commercial Lamp Shield (Fresh-Aire UV TUVCL-SHIELD-24).....	61.37	
23 43 33 00-0033	EA	32" (81cm) Commercial Lamp Shield (Fresh-Aire UV TUVCL-SHIELD-32).....	68.12	
23 43 33 00-0034	EA	46" (117cm) Commercial Lamp Shield (Fresh-Aire UV TUVCL-SHIELD-46).....	71.49	
23 43 33 00-0035	EA	60" (152cm) Commercial Lamp Shield (Fresh-Aire UV TUVCL-SHIELD-60).....	74.02	
23 43 33 00-0036	EA	110-277 VAC, Door Interlock Safety Switch Kit (Fresh-Aire UV TUVCL-INTLCK-SP).....	205.61	
23 43 33 00-0037	EA	15" (38cm) Odor Control, UV/UVV Lamp (Fresh-Aire UV TUVCL-115P-OS-50).....	169.75	67.46
		Note: 1 Year Warranty		
23 43 33 00-0038	EA	18" (45cm) High Output, Commercial Series Lamp (Fresh-Aire UV TUVCL-218HO).....	201.91	70.83
		Note: 2 Year Warranty		
23 43 33 00-0039	EA	24" (60cm) High Output, Commercial Series Lamp (Fresh-Aire UV TUVCL-224HO).....	217.28	78.39
		Note: 2 Year Warranty		
23 43 33 00-0040	EA	32" (81cm) Commercial Series Lamp (Fresh-Aire UV TUVCL-132).....	202.25	83.54
		Note: 1 Year Warranty		
23 43 33 00-0041	EA	32" (81cm) Teflon Coated, Commercial Series Lamp (Fresh-Aire UV TUVCL-232TF).....	240.21	83.54
		Note: 1 Year Warranty		
23 43 33 00-0042	EA	32" (81cm) High Output, Commercial Series Lamp (Fresh-Aire UV TUVCL-232HO).....	230.08	83.54
		Note: 1 Year Warranty		
23 43 33 00-0043	EA	32" (81cm) High Output, Teflon Coated, Commercial Series Lamp (Fresh-Aire UV TUVCL-232HO-TF).....	261.29	83.54
		Note: 1 Year Warranty		
23 43 33 00-0044	EA	46" (117cm) Commercial Series Lamp (Fresh-Aire UV TUVCL-146).....	235.50	89.04
		Note: 1 Year Warranty		
23 43 33 00-0045	EA	46" (117cm) Teflon Coated, Commercial Series Lamp (Fresh-Aire UV TUVCL-246TF).....	279.36	89.04
		Note: 2 Year Warranty		
23 43 33 00-0046	EA	46" (117cm) High Output, Commercial Series Lamp (Fresh-Aire UV TUVCL-246HO).....	257.43	89.04
		Note: 2 Year Warranty		
23 43 33 00-0047	EA	46" (117cm) High Output, Teflon Coated, Commercial Series Lamp (Fresh-Aire UV TUVCL-246HO-TF).....	302.98	89.04
		Note: 2 Year Warranty		
23 43 33 00-0048	EA	60" (152cm) Commercial Series Lamp (Fresh-Aire UV TUVCL-160).....	309.18	89.73
		Note: 1 Year Warranty		
23 43 33 00-0049	EA	60" (152cm) Teflon Coated, Commercial Series Lamp (Fresh-Aire UV TUVCL-260TF).....	370.75	89.73
		Note: 2 Year Warranty		
23 43 33 00-0050	EA	60" (152cm) High Output, Commercial Series Lamp (Fresh-Aire UV TUVCL-260HO).....	331.11	89.73
		Note: 2 Year Warranty		
23 43 33 00-0051	EA	60" (152cm) High Output, Teflon Coated, Commercial Series Lamp (Fresh-Aire UV TUVCL-260HO-TF).....	422.20	89.73
		Note: 1 Year Warranty		

23 50 Central Heating Equipment (23)

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 51 Breechings, Chimneys, and Stacks (23 50)**23 51 13 Draft Control Devices (23 51)****23 51 13 13 Draft-Induction Fans (23 51 13)**



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Breechings, Chimneys, and Stacks			23 51

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 13 13-0001		Vertical Discharge Fans (23 51 13 13) Note: Includes chimney adapter. Excludes wiring.		
23 51 13 13-0002		Axial Vane Vertical Discharge Fans (23 51 13 13-0001)		
23 51 13 13-0003	EA	450 CFM Vertical Discharge Chimney Fan, Axial Vane.....	3,944.75	268.81
23 51 13 13-0004	EA	950 CFM Vertical Discharge Chimney Fan, Axial Vane.....	4,474.60	293.24
23 51 13 13-0005	EA	1,400 CFM Vertical Discharge Chimney Fan, Axial Vane.....	5,377.37	323.79
23 51 13 13-0006	EA	1,800 CFM Vertical Discharge Chimney Fan, Axial Vane.....	7,037.97	375.71
23 51 13 13-0007		Centrifugal Impeller Vertical Discharge Fans (23 51 13 13-0001)		
23 51 13 13-0008	EA	700 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	4,748.59	293.24
23 51 13 13-0009	EA	1,100 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	5,798.38	323.79
23 51 13 13-0010	EA	2,300 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	7,538.49	378.77
23 51 13 13-0011	EA	3,000 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	8,932.84	424.58
23 51 13 13-0012		Accessories For Vertical Discharge Fans (23 51 13 13-0001)		
23 51 13 13-0013	EA	Modulating Fan Controller And Sensor.....	544.03	91.63
23 51 13 16		Vent Dampers (23 51 13)		
23 51 13 16-0001		Flue Shutter Draft Control Damper, Parallel Blade (23 51 13 16)		
23 51 13 16-0002	EA	3" Round Flue Shutter Draft Control Damper	1,117.67	54.25
23 51 13 16-0003	EA	4" Round Flue Shutter Draft Control Damper	1,226.69	57.55
23 51 13 16-0004	EA	5" Round Flue Shutter Draft Control Damper	1,355.81	61.09
23 51 13 16-0005	EA	6" Round Flue Shutter Draft Control Damper	1,448.60	65.15
23 51 13 16-0006	EA	7" Round Flue Shutter Draft Control Damper	1,582.41	69.79
23 51 13 16-0007	EA	8" Round Flue Shutter Draft Control Damper	1,680.39	75.14
23 51 13 16-0008	EA	10" Round Flue Shutter Draft Control Damper	1,858.85	81.48
23 51 13 16-0009	EA	12" Round Flue Shutter Draft Control Damper	2,041.53	88.85
23 51 13 16-0010	EA	14" Round Flue Shutter Draft Control Damper	2,289.23	93.16
23 51 13 16-0011	EA	16" Round Flue Shutter Draft Control Damper	2,460.70	97.74
23 51 13 16-0012	EA	18" Round Flue Shutter Draft Control Damper	2,691.03	102.64
23 51 13 16-0013	EA	20" Round Flue Shutter Draft Control Damper	3,160.24	162.50
23 51 13 16-0014	EA	22" Round Flue Shutter Draft Control Damper	3,468.92	172.59
23 51 13 16-0015	EA	24" Round Flue Shutter Draft Control Damper	3,761.11	183.28
23 51 13 16-0016	EA	26" Round Flue Shutter Draft Control Damper	3,823.47	189.39
23 51 13 16-0017	EA	28" Round Flue Shutter Draft Control Damper	3,943.81	195.50
23 51 13 16-0018	EA	30" Round Flue Shutter Draft Control Damper	4,050.23	207.72
23 51 13 16-0019	EA	32" Round Flue Shutter Draft Control Damper	4,228.26	213.69
23 51 13 16-0020	EA	34" Round Flue Shutter Draft Control Damper	4,410.73	225.90
23 51 13 16-0021	EA	36" Round Flue Shutter Draft Control Damper	4,618.45	244.37
23 51 13 16-0022	EA	38" Round Flue Shutter Draft Control Damper	4,854.30	252.76
23 51 13 16-0023	EA	40" Round Flue Shutter Draft Control Damper	5,073.90	256.59
23 51 13 16-0024	EA	42" Round Flue Shutter Draft Control Damper	5,323.32	268.81
23 51 13 16-0025	EA	44" Round Flue Shutter Draft Control Damper	5,574.22	281.02
23 51 13 16-0026	EA	46" Round Flue Shutter Draft Control Damper	5,825.83	293.24
23 51 13 16-0027	EA	48" Round Flue Shutter Draft Control Damper	6,076.36	305.46
23 51 13 19		Barometric Dampers (23 51 13)		
23 51 13 19-0001		Barometric Dampers (23 51 13 19)		
23 51 13 19-0002	EA	6" x 6" Barometric Damper	521.72	10.60
23 51 13 19-0003	EA	12" x 12" Barometric Damper	755.08	14.57
23 51 13 19-0004	EA	18" x 18" Barometric Damper	1,010.74	22.51
23 51 13 19-0005	EA	24" x 24" Barometric Damper	1,204.12	42.39
23 51 13 19-0006	EA	6" Diameter Barometric Damper	254.43	10.60
		For Stainless Steel, Add	255.98	
23 51 13 19-0007	EA	7" Diameter Barometric Damper	301.11	11.92
		For Stainless Steel, Add	304.12	
23 51 13 19-0008	EA	8" Diameter Barometric Damper	349.34	13.24
		For Stainless Steel, Add	352.68	
23 51 13 19-0009	EA	9" Diameter Barometric Damper	430.57	13.24
		For Stainless Steel, Add	446.76	
23 51 13 19-0010	EA	10" Diameter Barometric Damper	568.35	15.89
		For Stainless Steel, Add	608.66	
23 51 13 19-0011	EA	12" Diameter Barometric Damper	722.29	17.22
		For Stainless Steel, Add	785.00	
23 51 13 19-0012	EA	14" Diameter Barometric Damper	908.81	18.55
		For Stainless Steel, Add	1,001.17	
23 51 13 19-0013	EA	15" Diameter Barometric Damper	1,084.97	19.86
		For Stainless Steel, Add	1,203.32	
23 51 13 19-0014	EA	16" Diameter Barometric Damper	1,259.17	22.51
		For Stainless Steel, Add	1,405.06	
23 51 13 19-0015	EA	18" Diameter Barometric Damper	1,659.69	23.84
		For Stainless Steel, Add	1,877.20	
23 51 13 19-0016	EA	20" Diameter Barometric Damper	1,976.10	26.49
		For Stainless Steel, Add	2,246.94	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 13 19-0017	EA		24" Diameter Barometric Damper.....	2,383.75	26.49
			<i>For Stainless Steel, Add</i>	2,730.46	
23 51 13 19-0018	EA		30" Diameter Barometric Damper.....	2,939.73	30.46
			<i>For Stainless Steel, Add</i>	3,384.64	
23 51 13 19-0019	EA		36" Diameter Barometric Damper.....	3,751.86	31.79
			<i>For Stainless Steel, Add</i>	4,351.67	
23 51 16 Fabricated Breechings and Accessories (23 51)					
23 51 16 00-0001			Round Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)		
23 51 16 00-0002			Round Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0001)		
23 51 16 00-0003	LF		3" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	34.45	10.87
			Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	0.40	
			<i>For 304 Stainless Steel Liner, Add</i>	0.55	
			<i>For 2" Wall Instead Of 1", Add</i>	4.91	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	8.72	
23 51 16 00-0004	LF		4" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	37.01	11.49
			Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	0.49	
			<i>For 304 Stainless Steel Liner, Add</i>	0.67	
			<i>For 2" Wall Instead Of 1", Add</i>	5.50	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	9.65	
23 51 16 00-0005	LF		5" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	40.88	12.22
			Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	0.59	
			<i>For 304 Stainless Steel Liner, Add</i>	0.80	
			<i>For 2" Wall Instead Of 1", Add</i>	6.22	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	10.84	
23 51 16 00-0006	LF		6" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	44.59	13.08
			Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	0.68	
			<i>For 304 Stainless Steel Liner, Add</i>	0.93	
			<i>For 2" Wall Instead Of 1", Add</i>	6.93	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	12.01	
23 51 16 00-0007	LF		7" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	52.39	13.93
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	1.00	
			<i>For 304 Stainless Steel Liner, Add</i>	1.37	
			<i>For 2" Wall Instead Of 1", Add</i>	8.89	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	15.04	
23 51 16 00-0008	LF		8" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	58.23	15.03
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	1.12	
			<i>For 304 Stainless Steel Liner, Add</i>	1.52	
			<i>For 2" Wall Instead Of 1", Add</i>	9.88	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	16.72	
23 51 16 00-0009	LF		10" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	83.88	16.13
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	2.36	
			<i>For 304 Stainless Steel Liner, Add</i>	3.21	
			<i>For 2" Wall Instead Of 1", Add</i>	16.96	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	27.49	
23 51 16 00-0010	LF		12" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	101.97	17.84
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	3.16	
			<i>For 304 Stainless Steel Liner, Add</i>	4.31	
			<i>For 2" Wall Instead Of 1", Add</i>	21.70	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	34.77	
23 51 16 00-0011	LF		14" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	143.11	18.57
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	5.31	
			<i>For 304 Stainless Steel Liner, Add</i>	7.24	
			<i>For 2" Wall Instead Of 1", Add</i>	33.62	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	52.76	
23 51 16 00-0012	LF		16" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	178.85	19.55
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	7.16	
			<i>For 304 Stainless Steel Liner, Add</i>	9.76	
			<i>For 2" Wall Instead Of 1", Add</i>	43.92	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	68.32	
23 51 16 00-0013	LF		18" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	220.02	20.53
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	9.25	
			<i>For 304 Stainless Steel Liner, Add</i>	12.61	
			<i>For 2" Wall Instead Of 1", Add</i>	55.64	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	86.05	
23 51 16 00-0014	LF		20" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	280.12	32.62
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			<i>For Aluminum Liner, Add</i>	10.98	
			<i>For 304 Stainless Steel Liner, Add</i>	14.97	
			<i>For 2" Wall Instead Of 1", Add</i>	67.94	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	105.93	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central Heating Equipment			23 50	
Breechings, Chimneys, and Stacks			23 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0015	LF		22" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	338.66	34.46
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	13.84	
			For 304 Stainless Steel Liner, Add	18.88	
			For 2" Wall Instead Of 1", Add	84.21	
			For 3" To 4" Wall Instead Of 1", Add	130.66	
23 51 16 00-0016	LF		24" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	402.67	36.65
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	17.07	
			For 304 Stainless Steel Liner, Add	23.27	
			For 2" Wall Instead Of 1", Add	102.33	
			For 3" To 4" Wall Instead Of 1", Add	158.11	
23 51 16 00-0017	LF		26" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	467.79	37.88
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	20.53	
			For 304 Stainless Steel Liner, Add	27.99	
			For 2" Wall Instead Of 1", Add	121.42	
			For 3" To 4" Wall Instead Of 1", Add	186.86	
23 51 16 00-0018	LF		28" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	490.46	39.10
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	21.60	
			For 304 Stainless Steel Liner, Add	29.46	
			For 2" Wall Instead Of 1", Add	127.60	
			For 3" To 4" Wall Instead Of 1", Add	196.28	
23 51 16 00-0019	LF		30" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	521.23	41.91
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	22.91	
			For 304 Stainless Steel Liner, Add	31.25	
			For 2" Wall Instead Of 1", Add	135.45	
			For 3" To 4" Wall Instead Of 1", Add	208.40	
23 51 16 00-0020	LF		32" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	590.22	43.50
			For Aluminum Liner, Add	26.49	
			For 304 Stainless Steel Liner, Add	36.13	
			For 2" Wall Instead Of 1", Add	155.36	
			For 3" To 4" Wall Instead Of 1", Add	238.47	
23 51 16 00-0021	LF		34" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	661.65	45.09
			For Aluminum Liner, Add	30.19	
			For 304 Stainless Steel Liner, Add	41.17	
			For 2" Wall Instead Of 1", Add	175.96	
			For 3" To 4" Wall Instead Of 1", Add	269.58	
23 51 16 00-0022	LF		36" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	696.53	46.92
			For Aluminum Liner, Add	31.86	
			For 304 Stainless Steel Liner, Add	43.45	
			For 2" Wall Instead Of 1", Add	185.53	
			For 3" To 4" Wall Instead Of 1", Add	284.15	
23 51 16 00-0023	LF		38" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	755.63	48.87
			For Aluminum Liner, Add	34.85	
			For 304 Stainless Steel Liner, Add	47.52	
			For 2" Wall Instead Of 1", Add	202.28	
			For 3" To 4" Wall Instead Of 1", Add	309.53	
23 51 16 00-0024	LF		40" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	832.65	50.96
			For Aluminum Liner, Add	38.79	
			For 304 Stainless Steel Liner, Add	52.89	
			For 2" Wall Instead Of 1", Add	224.31	
			For 3" To 4" Wall Instead Of 1", Add	342.83	
23 51 16 00-0025	LF		42" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	871.09	53.27
			For Aluminum Liner, Add	40.58	
			For 304 Stainless Steel Liner, Add	55.33	
			For 2" Wall Instead Of 1", Add	234.66	
			For 3" To 4" Wall Instead Of 1", Add	358.66	
23 51 16 00-0026	LF		44" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	964.22	55.84
			For Aluminum Liner, Add	45.35	
			For 304 Stainless Steel Liner, Add	61.84	
			For 2" Wall Instead Of 1", Add	261.33	
			For 3" To 4" Wall Instead Of 1", Add	398.98	
23 51 16 00-0027	LF		46" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	1,047.14	58.65
			For Aluminum Liner, Add	49.53	
			For 304 Stainless Steel Liner, Add	67.54	
			For 2" Wall Instead Of 1", Add	284.61	
			For 3" To 4" Wall Instead Of 1", Add	434.55	
23 51 16 00-0028	LF		48" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	1,152.18	61.71
			For Aluminum Liner, Add	54.90	
			For 304 Stainless Steel Liner, Add	74.86	
			For 2" Wall Instead Of 1", Add	314.85	
			For 3" To 4" Wall Instead Of 1", Add	479.97	
23 51 16 00-0029			90 Degree Elbows (23 51 16 00-0001)		
23 51 16 00-0030	EA		3" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	87.48	21.75
			For Aluminum Liner, Add	1.85	
			For 304 Stainless Steel Liner, Add	2.52	
			For 2" Wall Instead Of 1", Add	15.47	
			For 3" To 4" Wall Instead Of 1", Add	25.90	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0031	EA	4" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	96.97	22.97
		For Aluminum Liner, Add	2.18	
		For 304 Stainless Steel Liner, Add	2.98	
		For 2" Wall Instead Of 1", Add	17.63	
		For 3" To 4" Wall Instead Of 1", Add	29.31	
23 51 16 00-0032	EA	5" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	108.19	24.44
		For Aluminum Liner, Add	2.61	
		For 304 Stainless Steel Liner, Add	3.55	
		For 2" Wall Instead Of 1", Add	20.30	
		For 3" To 4" Wall Instead Of 1", Add	33.48	
23 51 16 00-0033	EA	6" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	119.70	26.02
		For Aluminum Liner, Add	3.03	
		For 304 Stainless Steel Liner, Add	4.13	
		For 2" Wall Instead Of 1", Add	22.98	
		For 3" To 4" Wall Instead Of 1", Add	37.71	
23 51 16 00-0034	EA	7" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	142.89	27.85
		For Aluminum Liner, Add	4.05	
		For 304 Stainless Steel Liner, Add	5.52	
		For 2" Wall Instead Of 1", Add	29.02	
		For 3" To 4" Wall Instead Of 1", Add	46.99	
23 51 16 00-0035	EA	8" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	167.36	30.06
		For Aluminum Liner, Add	5.07	
		For 304 Stainless Steel Liner, Add	6.92	
		For 2" Wall Instead Of 1", Add	35.18	
		For 3" To 4" Wall Instead Of 1", Add	56.53	
23 51 16 00-0036	EA	10" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	293.81	32.62
		For Aluminum Liner, Add	11.67	
		For 304 Stainless Steel Liner, Add	15.91	
		For 2" Wall Instead Of 1", Add	71.80	
		For 3" To 4" Wall Instead Of 1", Add	111.79	
23 51 16 00-0037	EA	12" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	356.26	35.55
		For Aluminum Liner, Add	14.71	
		For 304 Stainless Steel Liner, Add	20.06	
		For 2" Wall Instead Of 1", Add	89.11	
		For 3" To 4" Wall Instead Of 1", Add	138.11	
23 51 16 00-0038	EA	14" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	462.90	37.27
		For Aluminum Liner, Add	20.34	
		For 304 Stainless Steel Liner, Add	27.74	
		For 2" Wall Instead Of 1", Add	120.25	
		For 3" To 4" Wall Instead Of 1", Add	185.03	
23 51 16 00-0039	EA	16" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	569.73	39.10
		For Aluminum Liner, Add	25.97	
		For 304 Stainless Steel Liner, Add	35.41	
		For 2" Wall Instead Of 1", Add	151.41	
		For 3" To 4" Wall Instead Of 1", Add	231.99	
23 51 16 00-0040	EA	18" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	737.46	41.17
		For Aluminum Liner, Add	34.90	
		For 304 Stainless Steel Liner, Add	47.59	
		For 2" Wall Instead Of 1", Add	200.64	
		For 3" To 4" Wall Instead Of 1", Add	306.11	
23 51 16 00-0041	EA	20" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,039.09	65.13
		For Aluminum Liner, Add	48.18	
		For 304 Stainless Steel Liner, Add	65.71	
		For 2" Wall Instead Of 1", Add	279.13	
		For 3" To 4" Wall Instead Of 1", Add	426.84	
23 51 16 00-0042	EA	22" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,371.44	69.03
		For Aluminum Liner, Add	65.94	
		For 304 Stainless Steel Liner, Add	89.91	
		For 2" Wall Instead Of 1", Add	376.92	
		For 3" To 4" Wall Instead Of 1", Add	574.00	
23 51 16 00-0043	EA	24" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,548.31	73.31
		For Aluminum Liner, Add	75.07	
		For 304 Stainless Steel Liner, Add	102.36	
		For 2" Wall Instead Of 1", Add	427.80	
		For 3" To 4" Wall Instead Of 1", Add	650.87	
23 51 16 00-0044		45 Degree Elbows (23 51 16 00-0001)		
23 51 16 00-0045	EA	3" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	73.62	21.75
		For Aluminum Liner, Add	1.07	
		For 304 Stainless Steel Liner, Add	1.45	
		For 2" Wall Instead Of 1", Add	11.24	
		For 3" To 4" Wall Instead Of 1", Add	19.57	
23 51 16 00-0046	EA	4" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	80.37	22.97
		For Aluminum Liner, Add	1.26	
		For 304 Stainless Steel Liner, Add	1.71	
		For 2" Wall Instead Of 1", Add	12.60	
		For 3" To 4" Wall Instead Of 1", Add	21.78	
23 51 16 00-0047	EA	5" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	87.96	24.44
		For Aluminum Liner, Add	1.48	
		For 304 Stainless Steel Liner, Add	2.01	
		For 2" Wall Instead Of 1", Add	14.17	
		For 3" To 4" Wall Instead Of 1", Add	24.31	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Breechings, Chimneys, and Stacks			23 51

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0048	EA		6" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	97.31	26.02
			For Aluminum Liner, Add	1.77	
			For 304 Stainless Steel Liner, Add	2.41	
			For 2" Wall Instead Of 1", Add	16.16	
			For 3" To 4" Wall Instead Of 1", Add	27.50	
23 51 16 00-0049	EA		7" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	115.90	27.85
			For Aluminum Liner, Add	2.54	
			For 304 Stainless Steel Liner, Add	3.46	
			For 2" Wall Instead Of 1", Add	20.81	
			For 3" To 4" Wall Instead Of 1", Add	34.71	
23 51 16 00-0050	EA		8" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	128.17	30.06
			For Aluminum Liner, Add	2.92	
			For 304 Stainless Steel Liner, Add	3.98	
			For 2" Wall Instead Of 1", Add	23.42	
			For 3" To 4" Wall Instead Of 1", Add	38.89	
23 51 16 00-0051	EA		10" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	214.05	32.62
			For Aluminum Liner, Add	7.29	
			For 304 Stainless Steel Liner, Add	9.94	
			For 2" Wall Instead Of 1", Add	47.92	
			For 3" To 4" Wall Instead Of 1", Add	75.95	
23 51 16 00-0052	EA		12" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	255.99	35.55
			For Aluminum Liner, Add	9.19	
			For 304 Stainless Steel Liner, Add	12.54	
			For 2" Wall Instead Of 1", Add	59.03	
			For 3" To 4" Wall Instead Of 1", Add	92.99	
23 51 16 00-0053	EA		14" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	328.28	37.27
			For Aluminum Liner, Add	12.93	
			For 304 Stainless Steel Liner, Add	17.64	
			For 2" Wall Instead Of 1", Add	79.86	
			For 3" To 4" Wall Instead Of 1", Add	124.45	
23 51 16 00-0054	EA		16" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	392.81	39.10
			For Aluminum Liner, Add	16.23	
			For 304 Stainless Steel Liner, Add	22.13	
			For 2" Wall Instead Of 1", Add	98.30	
			For 3" To 4" Wall Instead Of 1", Add	152.34	
23 51 16 00-0055	EA		18" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	499.44	41.17
			For Aluminum Liner, Add	21.81	
			For 304 Stainless Steel Liner, Add	29.74	
			For 2" Wall Instead Of 1", Add	129.25	
			For 3" To 4" Wall Instead Of 1", Add	199.03	
23 51 16 00-0056	EA		20" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	609.75	65.00
			For Aluminum Liner, Add	24.60	
			For 304 Stainless Steel Liner, Add	33.55	
			For 2" Wall Instead Of 1", Add	150.43	
			For 3" To 4" Wall Instead Of 1", Add	233.77	
23 51 16 00-0057	EA		22" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	845.78	69.03
			For Aluminum Liner, Add	37.03	
			For 304 Stainless Steel Liner, Add	50.49	
			For 2" Wall Instead Of 1", Add	219.22	
			For 3" To 4" Wall Instead Of 1", Add	337.46	
23 51 16 00-0058	EA		24" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	1,036.19	73.31
			For Aluminum Liner, Add	46.92	
			For 304 Stainless Steel Liner, Add	63.98	
			For 2" Wall Instead Of 1", Add	274.23	
			For 3" To 4" Wall Instead Of 1", Add	420.50	
23 51 16 00-0059	EA		26" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	1,872.28	75.76
			For Aluminum Liner, Add	92.57	
			For 304 Stainless Steel Liner, Add	126.23	
			For 2" Wall Instead Of 1", Add	523.83	
			For 3" To 4" Wall Instead Of 1", Add	795.21	
23 51 16 00-0060	EA		28" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	1,924.49	78.19
			For Aluminum Liner, Add	95.10	
			For 304 Stainless Steel Liner, Add	129.68	
			For 2" Wall Instead Of 1", Add	538.27	
			For 3" To 4" Wall Instead Of 1", Add	817.18	
23 51 16 00-0061	EA		30" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,028.93	83.09
			For Aluminum Liner, Add	100.17	
			For 304 Stainless Steel Liner, Add	136.60	
			For 2" Wall Instead Of 1", Add	567.16	
			For 3" To 4" Wall Instead Of 1", Add	861.12	
23 51 16 00-0062	EA		32" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,265.58	85.53
			For Aluminum Liner, Add	112.85	
			For 304 Stainless Steel Liner, Add	153.89	
			For 2" Wall Instead Of 1", Add	636.94	
			For 3" To 4" Wall Instead Of 1", Add	966.09	
23 51 16 00-0063	EA		34" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,473.76	90.41
			For Aluminum Liner, Add	123.63	
			For 304 Stainless Steel Liner, Add	168.59	
			For 2" Wall Instead Of 1", Add	696.95	
			For 3" To 4" Wall Instead Of 1", Add	1,056.72	
23 51 16 00-0064	EA		36" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,549.71	97.74
			For Aluminum Liner, Add	126.80	
			For 304 Stainless Steel Liner, Add	172.91	
			For 2" Wall Instead Of 1", Add	716.07	
			For 3" To 4" Wall Instead Of 1", Add	1,086.32	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0065	EA	38" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,731.17	101.17
		For Aluminum Liner, Add	136.31	
		For 304 Stainless Steel Liner, Add	185.88	
		For 2" Wall Instead Of 1", Add	768.80	
		For 3" To 4" Wall Instead Of 1", Add	1,165.84	
23 51 16 00-0066	EA	40" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,907.75	102.64
		For Aluminum Liner, Add	145.82	
		For 304 Stainless Steel Liner, Add	198.85	
		For 2" Wall Instead Of 1", Add	821.04	
		For 3" To 4" Wall Instead Of 1", Add	1,244.38	
23 51 16 00-0067	EA	42" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	3,035.23	107.52
		For Aluminum Liner, Add	152.16	
		For 304 Stainless Steel Liner, Add	207.50	
		For 2" Wall Instead Of 1", Add	856.84	
		For 3" To 4" Wall Instead Of 1", Add	1,298.70	
23 51 16 00-0068	EA	44" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	3,220.34	112.41
		For Aluminum Liner, Add	161.67	
		For 304 Stainless Steel Liner, Add	220.46	
		For 2" Wall Instead Of 1", Add	909.94	
		For 3" To 4" Wall Instead Of 1", Add	1,378.95	
23 51 16 00-0069	EA	46" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	3,463.10	117.29
		For Aluminum Liner, Add	174.35	
		For 304 Stainless Steel Liner, Add	237.75	
		For 2" Wall Instead Of 1", Add	980.32	
		For 3" To 4" Wall Instead Of 1", Add	1,485.14	
23 51 16 00-0070	EA	48" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	3,590.58	122.18
		For Aluminum Liner, Add	180.69	
		For 304 Stainless Steel Liner, Add	246.40	
		For 2" Wall Instead Of 1", Add	1,016.12	
		For 3" To 4" Wall Instead Of 1", Add	1,539.45	
23 51 16 00-0071 Tees (23 51 16 00-0001)				
23 51 16 00-0072	EA	3" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	119.77	28.96
		For Aluminum Liner, Add	2.60	
		For 304 Stainless Steel Liner, Add	3.54	
		For 2" Wall Instead Of 1", Add	21.43	
		For 3" To 4" Wall Instead Of 1", Add	35.77	
23 51 16 00-0073	EA	4" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	124.71	30.06
		For Aluminum Liner, Add	2.73	
		For 304 Stainless Steel Liner, Add	3.72	
		For 2" Wall Instead Of 1", Add	22.39	
		For 3" To 4" Wall Instead Of 1", Add	37.33	
23 51 16 00-0074	EA	5" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	130.07	31.28
		For Aluminum Liner, Add	2.85	
		For 304 Stainless Steel Liner, Add	3.89	
		For 2" Wall Instead Of 1", Add	23.38	
		For 3" To 4" Wall Instead Of 1", Add	38.98	
23 51 16 00-0075	EA	6" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	139.14	32.62
		For Aluminum Liner, Add	3.17	
		For 304 Stainless Steel Liner, Add	4.32	
		For 2" Wall Instead Of 1", Add	25.44	
		For 3" To 4" Wall Instead Of 1", Add	42.24	
23 51 16 00-0076	EA	7" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	164.58	33.96
		For Aluminum Liner, Add	4.37	
		For 304 Stainless Steel Liner, Add	5.97	
		For 2" Wall Instead Of 1", Add	32.37	
		For 3" To 4" Wall Instead Of 1", Add	52.80	
23 51 16 00-0077	EA	8" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	176.43	35.55
		For Aluminum Liner, Add	4.82	
		For 304 Stainless Steel Liner, Add	6.57	
		For 2" Wall Instead Of 1", Add	35.17	
		For 3" To 4" Wall Instead Of 1", Add	57.19	
23 51 16 00-0078	EA	10" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	330.57	37.27
		For Aluminum Liner, Add	13.06	
		For 304 Stainless Steel Liner, Add	17.81	
		For 2" Wall Instead Of 1", Add	80.55	
		For 3" To 4" Wall Instead Of 1", Add	125.48	
23 51 16 00-0079	EA	12" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	383.59	39.10
		For Aluminum Liner, Add	15.72	
		For 304 Stainless Steel Liner, Add	21.44	
		For 2" Wall Instead Of 1", Add	95.54	
		For 3" To 4" Wall Instead Of 1", Add	148.19	
23 51 16 00-0080	EA	14" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	574.29	43.50
		For Aluminum Liner, Add	25.61	
		For 304 Stainless Steel Liner, Add	34.93	
		For 2" Wall Instead Of 1", Add	150.57	
		For 3" To 4" Wall Instead Of 1", Add	231.29	
23 51 16 00-0081	EA	16" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	781.50	48.87
		For Aluminum Liner, Add	36.27	
		For 304 Stainless Steel Liner, Add	49.45	
		For 2" Wall Instead Of 1", Add	210.02	
		For 3" To 4" Wall Instead Of 1", Add	321.14	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central Heating Equipment			23 50	
Breechings, Chimneys, and Stacks			23 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0082	EA		18" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	969.59	55.84
			For Aluminum Liner, Add	45.65	
			For 304 Stainless Steel Liner, Add	62.25	
			For 2" Wall Instead Of 1", Add	262.96	
			For 3" To 4" Wall Instead Of 1", Add	401.41	
23 51 16 00-0083	EA		20" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,290.55	69.03
			For Aluminum Liner, Add	61.50	
			For 304 Stainless Steel Liner, Add	83.86	
			For 2" Wall Instead Of 1", Add	352.69	
			For 3" To 4" Wall Instead Of 1", Add	537.65	
23 51 16 00-0084	EA		22" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,620.26	90.17
			For Aluminum Liner, Add	76.72	
			For 304 Stainless Steel Liner, Add	104.61	
			For 2" Wall Instead Of 1", Add	440.99	
			For 3" To 4" Wall Instead Of 1", Add	672.76	
23 51 16 00-0085	EA		24" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,863.64	95.31
			For Aluminum Liner, Add	89.40	
			For 304 Stainless Steel Liner, Add	121.90	
			For 2" Wall Instead Of 1", Add	511.44	
			For 3" To 4" Wall Instead Of 1", Add	779.07	
23 51 16 00-0086	EA		26" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,562.19	102.64
			For Aluminum Liner, Add	126.80	
			For 304 Stainless Steel Liner, Add	172.91	
			For 2" Wall Instead Of 1", Add	717.32	
			For 3" To 4" Wall Instead Of 1", Add	1,088.81	
23 51 16 00-0087	EA		28" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,860.22	106.66
			For Aluminum Liner, Add	142.65	
			For 304 Stainless Steel Liner, Add	194.53	
			For 2" Wall Instead Of 1", Add	804.76	
			For 3" To 4" Wall Instead Of 1", Add	1,220.46	
23 51 16 00-0088	EA		30" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,105.24	112.41
			For Aluminum Liner, Add	155.33	
			For 304 Stainless Steel Liner, Add	211.82	
			For 2" Wall Instead Of 1", Add	875.37	
			For 3" To 4" Wall Instead Of 1", Add	1,327.11	
23 51 16 00-0089	EA		32" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,578.48	117.29
			For Aluminum Liner, Add	180.69	
			For 304 Stainless Steel Liner, Add	246.40	
			For 2" Wall Instead Of 1", Add	1,014.91	
			For 3" To 4" Wall Instead Of 1", Add	1,537.03	
23 51 16 00-0090	EA		34" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,648.43	122.18
			For Aluminum Liner, Add	183.86	
			For 304 Stainless Steel Liner, Add	250.72	
			For 2" Wall Instead Of 1", Add	1,033.44	
			For 3" To 4" Wall Instead Of 1", Add	1,565.43	
23 51 16 00-0091	EA		36" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,245.33	130.37
			For Aluminum Liner, Add	215.56	
			For 304 Stainless Steel Liner, Add	293.95	
			For 2" Wall Instead Of 1", Add	1,208.40	
			For 3" To 4" Wall Instead Of 1", Add	1,828.90	
23 51 16 00-0092	EA		38" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,343.67	146.62
			For Aluminum Liner, Add	218.73	
			For 304 Stainless Steel Liner, Add	298.27	
			For 2" Wall Instead Of 1", Add	1,229.76	
			For 3" To 4" Wall Instead Of 1", Add	1,862.98	
23 51 16 00-0093	EA		40" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,741.81	167.63
			For Aluminum Liner, Add	237.75	
			For 304 Stainless Steel Liner, Add	324.21	
			For 2" Wall Instead Of 1", Add	1,338.74	
			For 3" To 4" Wall Instead Of 1", Add	2,029.06	
23 51 16 00-0094	EA		42" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	5,215.01	195.50
			For Aluminum Liner, Add	259.94	
			For 304 Stainless Steel Liner, Add	354.47	
			For 2" Wall Instead Of 1", Add	1,466.76	
			For 3" To 4" Wall Instead Of 1", Add	2,224.57	
23 51 16 00-0095	EA		44" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	5,679.11	219.93
			For Aluminum Liner, Add	282.14	
			For 304 Stainless Steel Liner, Add	384.73	
			For 2" Wall Instead Of 1", Add	1,593.86	
			For 3" To 4" Wall Instead Of 1", Add	2,418.25	
23 51 16 00-0096	EA		46" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	6,216.23	227.27
			For Aluminum Liner, Add	310.67	
			For 304 Stainless Steel Liner, Add	423.63	
			For 2" Wall Instead Of 1", Add	1,751.32	
			For 3" To 4" Wall Instead Of 1", Add	2,655.36	
23 51 16 00-0097	EA		48" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	6,580.59	234.59
			For Aluminum Liner, Add	329.69	
			For 304 Stainless Steel Liner, Add	449.57	
			For 2" Wall Instead Of 1", Add	1,856.92	
			For 3" To 4" Wall Instead Of 1", Add	2,814.69	

23 51 16 00-0098 Vent Top Caps (23 51 16 00-0001)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0099	EA	3" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	60.37	16.98
		For Aluminum Liner, Add	0.98	
		For 304 Stainless Steel Liner, Add	1.34	
		For 2" Wall Instead Of 1", Add	9.61	
		For 3" To 4" Wall Instead Of 1", Add	16.54	
23 51 16 00-0100	EA	4" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	63.26	17.84
		For Aluminum Liner, Add	1.03	
		For 304 Stainless Steel Liner, Add	1.41	
		For 2" Wall Instead Of 1", Add	10.08	
		For 3" To 4" Wall Instead Of 1", Add	17.35	
23 51 16 00-0101	EA	6" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	81.49	19.55
		For Aluminum Liner, Add	1.79	
		For 304 Stainless Steel Liner, Add	2.45	
		For 2" Wall Instead Of 1", Add	14.67	
		For 3" To 4" Wall Instead Of 1", Add	24.45	
23 51 16 00-0102	EA	8" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	86.87	21.75
		For Aluminum Liner, Add	1.79	
		For 304 Stainless Steel Liner, Add	2.45	
		For 2" Wall Instead Of 1", Add	15.21	
		For 3" To 4" Wall Instead Of 1", Add	25.53	
23 51 16 00-0103	EA	10" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	105.50	22.97
		For Aluminum Liner, Add	2.64	
		For 304 Stainless Steel Liner, Add	3.61	
		For 2" Wall Instead Of 1", Add	20.16	
		For 3" To 4" Wall Instead Of 1", Add	33.12	
23 51 16 00-0104	EA	12" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	124.49	24.44
		For Aluminum Liner, Add	3.49	
		For 304 Stainless Steel Liner, Add	4.76	
		For 2" Wall Instead Of 1", Add	25.13	
		For 3" To 4" Wall Instead Of 1", Add	40.75	
23 51 16 00-0105	EA	16" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	292.25	27.85
		For Aluminum Liner, Add	12.24	
		For 304 Stainless Steel Liner, Add	16.69	
		For 2" Wall Instead Of 1", Add	73.72	
		For 3" To 4" Wall Instead Of 1", Add	114.07	
23 51 16 00-0106	EA	18" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	543.73	34.94
		For Aluminum Liner, Add	25.11	
		For 304 Stainless Steel Liner, Add	34.24	
		For 2" Wall Instead Of 1", Add	145.67	
		For 3" To 4" Wall Instead Of 1", Add	222.87	
23 51 16 00-0107	EA	20" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	1,003.86	41.91
		For Aluminum Liner, Add	49.45	
		For 304 Stainless Steel Liner, Add	67.44	
		For 2" Wall Instead Of 1", Add	280.21	
		For 3" To 4" Wall Instead Of 1", Add	425.56	
23 51 16 00-0108	EA	24" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	1,668.27	58.65
		For Aluminum Liner, Add	83.69	
		For 304 Stainless Steel Liner, Add	114.12	
		For 2" Wall Instead Of 1", Add	471.15	
		For 3" To 4" Wall Instead Of 1", Add	714.06	
23 51 16 00-0109	EA	26" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	2,459.77	61.71
		For Aluminum Liner, Add	126.80	
		For 304 Stainless Steel Liner, Add	172.91	
		For 2" Wall Instead Of 1", Add	707.08	
		For 3" To 4" Wall Instead Of 1", Add	1,068.33	
23 51 16 00-0110	EA	28" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	2,756.59	65.13
		For Aluminum Liner, Add	142.65	
		For 304 Stainless Steel Liner, Add	194.53	
		For 2" Wall Instead Of 1", Add	794.40	
		For 3" To 4" Wall Instead Of 1", Add	1,199.74	
23 51 16 00-0111	EA	30" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	3,112.09	69.03
		For Aluminum Liner, Add	161.67	
		For 304 Stainless Steel Liner, Add	220.46	
		For 2" Wall Instead Of 1", Add	899.11	
		For 3" To 4" Wall Instead Of 1", Add	1,357.30	
23 51 16 00-0112	EA	32" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	3,295.77	73.31
		For Aluminum Liner, Add	171.18	
		For 304 Stainless Steel Liner, Add	233.43	
		For 2" Wall Instead Of 1", Add	952.06	
		For 3" To 4" Wall Instead Of 1", Add	1,437.26	
23 51 16 00-0113	EA	34" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	3,480.89	78.19
		For Aluminum Liner, Add	180.69	
		For 304 Stainless Steel Liner, Add	246.40	
		For 2" Wall Instead Of 1", Add	1,005.16	
		For 3" To 4" Wall Instead Of 1", Add	1,517.51	
23 51 16 00-0114	EA	36" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	3,725.24	83.82
		For Aluminum Liner, Add	193.37	
		For 304 Stainless Steel Liner, Add	263.69	
		For 2" Wall Instead Of 1", Add	1,075.70	
		For 3" To 4" Wall Instead Of 1", Add	1,624.02	

23 51 16 00-0115 Wall Thimbles (23 51 16 00-0001)



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Breechings, Chimneys, and Stacks			23 51

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0116	EA		3" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	24.89	9.16
			For Aluminum Liner, Add	0.11	
			For 304 Stainless Steel Liner, Add	0.15	
			For 2" Wall Instead Of 1", Add	2.90	
			For 3" To 4" Wall Instead Of 1", Add	5.49	
23 51 16 00-0117	EA		4" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	31.55	11.73
			For Aluminum Liner, Add	0.12	
			For 304 Stainless Steel Liner, Add	0.16	
			For 2" Wall Instead Of 1", Add	3.58	
			For 3" To 4" Wall Instead Of 1", Add	6.84	
23 51 16 00-0118	EA		5" Or 6" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	41.99	15.76
			For Aluminum Liner, Add	0.14	
			For 304 Stainless Steel Liner, Add	0.19	
			For 2" Wall Instead Of 1", Add	4.72	
			For 3" To 4" Wall Instead Of 1", Add	9.04	
23 51 16 00-0119	EA		7" Or 8" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	52.54	19.55
			For Aluminum Liner, Add	0.20	
			For 304 Stainless Steel Liner, Add	0.28	
			For 2" Wall Instead Of 1", Add	5.99	
			For 3" To 4" Wall Instead Of 1", Add	11.43	
23 51 16 00-0120	EA		10" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	75.42	26.39
			For Aluminum Liner, Add	0.52	
			For 304 Stainless Steel Liner, Add	0.71	
			For 2" Wall Instead Of 1", Add	9.43	
			For 3" To 4" Wall Instead Of 1", Add	17.44	
23 51 16 00-0121	EA		12" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	95.24	32.75
			For Aluminum Liner, Add	0.74	
			For 304 Stainless Steel Liner, Add	1.00	
			For 2" Wall Instead Of 1", Add	12.20	
			For 3" To 4" Wall Instead Of 1", Add	22.39	
23 51 16 00-0122	EA		14" Or 16" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	120.41	39.10
			For Aluminum Liner, Add	1.25	
			For 304 Stainless Steel Liner, Add	1.70	
			For 2" Wall Instead Of 1", Add	16.58	
			For 3" To 4" Wall Instead Of 1", Add	29.75	
23 51 16 00-0123	EA		18" Or 20" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	156.64	46.43
			For Aluminum Liner, Add	2.23	
			For 304 Stainless Steel Liner, Add	3.04	
			For 2" Wall Instead Of 1", Add	23.78	
			For 3" To 4" Wall Instead Of 1", Add	41.47	
23 51 16 00-0124	EA		22" Or 24" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	209.85	51.32
			For Aluminum Liner, Add	4.49	
			For 304 Stainless Steel Liner, Add	6.12	
			For 2" Wall Instead Of 1", Add	37.30	
			For 3" To 4" Wall Instead Of 1", Add	62.36	
23 51 16 00-0125 Adjustable Roof Flashing (23 51 16 00-0001)					
23 51 16 00-0126	EA		3" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	67.52	21.75
			For Aluminum Liner, Add	0.73	
			For 304 Stainless Steel Liner, Add	0.99	
			For 2" Wall Instead Of 1", Add	9.40	
			For 3" To 4" Wall Instead Of 1", Add	16.82	
23 51 16 00-0127	EA		4" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	74.60	22.97
			For Aluminum Liner, Add	0.94	
			For 304 Stainless Steel Liner, Add	1.28	
			For 2" Wall Instead Of 1", Add	10.87	
			For 3" To 4" Wall Instead Of 1", Add	19.19	
23 51 16 00-0128	EA		6" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	93.71	26.02
			For Aluminum Liner, Add	1.57	
			For 304 Stainless Steel Liner, Add	2.14	
			For 2" Wall Instead Of 1", Add	15.09	
			For 3" To 4" Wall Instead Of 1", Add	25.89	
23 51 16 00-0129	EA		8" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	114.22	30.06
			For Aluminum Liner, Add	2.15	
			For 304 Stainless Steel Liner, Add	2.93	
			For 2" Wall Instead Of 1", Add	19.24	
			For 3" To 4" Wall Instead Of 1", Add	32.61	
23 51 16 00-0130	EA		10" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	188.71	32.62
			For Aluminum Liner, Add	5.90	
			For 304 Stainless Steel Liner, Add	8.04	
			For 2" Wall Instead Of 1", Add	40.31	
			For 3" To 4" Wall Instead Of 1", Add	64.54	
23 51 16 00-0131	EA		12" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	224.84	35.55
			For Aluminum Liner, Add	7.48	
			For 304 Stainless Steel Liner, Add	10.20	
			For 2" Wall Instead Of 1", Add	49.69	
			For 3" To 4" Wall Instead Of 1", Add	78.97	
23 51 16 00-0132	EA		14" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	264.89	39.10
			For Aluminum Liner, Add	9.19	
			For 304 Stainless Steel Liner, Add	12.54	
			For 2" Wall Instead Of 1", Add	59.92	
			For 3" To 4" Wall Instead Of 1", Add	94.77	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0133	EA		16" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	316.24	43.50
			For Aluminum Liner, Add	11.41	
			For 304 Stainless Steel Liner, Add	15.56	
			For 2" Wall Instead Of 1", Add	73.12	
			For 3" To 4" Wall Instead Of 1", Add	115.12	
23 51 16 00-0134	EA		18" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	479.58	48.87
			For Aluminum Liner, Add	19.65	
			For 304 Stainless Steel Liner, Add	26.80	
			For 2" Wall Instead Of 1", Add	119.43	
			For 3" To 4" Wall Instead Of 1", Add	185.25	
23 51 16 00-0135	EA		20" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	527.18	65.13
			For Aluminum Liner, Add	20.03	
			For 304 Stainless Steel Liner, Add	27.32	
			For 2" Wall Instead Of 1", Add	125.57	
			For 3" To 4" Wall Instead Of 1", Add	196.50	
23 51 16 00-0136	EA		22" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	670.61	83.82
			For Aluminum Liner, Add	25.36	
			For 304 Stainless Steel Liner, Add	34.58	
			For 2" Wall Instead Of 1", Add	159.28	
			For 3" To 4" Wall Instead Of 1", Add	249.40	
23 51 16 00-0137	EA		24" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	797.69	97.74
			For Aluminum Liner, Add	30.43	
			For 304 Stainless Steel Liner, Add	41.50	
			For 2" Wall Instead Of 1", Add	190.43	
			For 3" To 4" Wall Instead Of 1", Add	297.87	
23 51 16 00-0138 Galvanized Storm Collars (23 51 16 00-0001)					
23 51 16 00-0139	EA		3" Round Galvanized Storm Collar, Double Wall	26.67	9.16
			For Aluminum Liner, Add	0.21	
			For 304 Stainless Steel Liner, Add	0.29	
			For 2" Wall Instead Of 1", Add	3.43	
			For 3" To 4" Wall Instead Of 1", Add	6.29	
23 51 16 00-0140	EA		4" Round Galvanized Storm Collar, Double Wall	33.71	11.73
			For Aluminum Liner, Add	0.24	
			For 304 Stainless Steel Liner, Add	0.33	
			For 2" Wall Instead Of 1", Add	4.25	
			For 3" To 4" Wall Instead Of 1", Add	7.84	
23 51 16 00-0141	EA		5" Round Galvanized Storm Collar, Double Wall	39.68	13.68
			For Aluminum Liner, Add	0.30	
			For 304 Stainless Steel Liner, Add	0.41	
			For 2" Wall Instead Of 1", Add	5.06	
			For 3" To 4" Wall Instead Of 1", Add	9.30	
23 51 16 00-0142	EA		6" Round Galvanized Storm Collar, Double Wall	45.66	15.64
			For Aluminum Liner, Add	0.36	
			For 304 Stainless Steel Liner, Add	0.49	
			For 2" Wall Instead Of 1", Add	5.88	
			For 3" To 4" Wall Instead Of 1", Add	10.77	
23 51 16 00-0143	EA		7" Or 8" Round Galvanized Storm Collar, Double Wall	57.61	19.55
			For Aluminum Liner, Add	0.48	
			For 304 Stainless Steel Liner, Add	0.65	
			For 2" Wall Instead Of 1", Add	7.51	
			For 3" To 4" Wall Instead Of 1", Add	13.70	
23 51 16 00-0144	EA		10" Round Galvanized Storm Collar, Double Wall	79.66	26.39
			For Aluminum Liner, Add	0.75	
			For 304 Stainless Steel Liner, Add	1.03	
			For 2" Wall Instead Of 1", Add	10.70	
			For 3" To 4" Wall Instead Of 1", Add	19.35	
23 51 16 00-0145	EA		12" Round Galvanized Storm Collar, Double Wall	98.31	32.75
			For Aluminum Liner, Add	0.90	
			For 304 Stainless Steel Liner, Add	1.23	
			For 2" Wall Instead Of 1", Add	13.12	
			For 3" To 4" Wall Instead Of 1", Add	23.77	
23 51 16 00-0146	EA		14" Or 16" Round Galvanized Storm Collar, Double Wall	125.64	39.10
			For Aluminum Liner, Add	1.53	
			For 304 Stainless Steel Liner, Add	2.09	
			For 2" Wall Instead Of 1", Add	18.14	
			For 3" To 4" Wall Instead Of 1", Add	32.10	
23 51 16 00-0147	EA		18" Or 20" Round Galvanized Storm Collar, Double Wall	166.57	46.43
			For Aluminum Liner, Add	2.78	
			For 304 Stainless Steel Liner, Add	3.79	
			For 2" Wall Instead Of 1", Add	26.76	
			For 3" To 4" Wall Instead Of 1", Add	45.94	
23 51 16 00-0148	EA		22" Or 24" Round Galvanized Storm Collar, Double Wall	234.70	51.32
			For Aluminum Liner, Add	5.85	
			For 304 Stainless Steel Liner, Add	7.98	
			For 2" Wall Instead Of 1", Add	44.75	
			For 3" To 4" Wall Instead Of 1", Add	73.54	
23 51 16 00-0149 Oval Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)					
23 51 16 00-0150 Oval Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0149)					
23 51 16 00-0151	LF		4" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	45.24	11.49
			For 2" Wall Instead Of 1", Add	7.83	
			For 3" To 4" Wall Instead Of 1", Add	13.18	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central Heating Equipment			23 50	
Breechings, Chimneys, and Stacks			23 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0152	LF		5" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	49.94 8.92 14.89	12.22
23 51 16 00-0153	LF		6" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	55.37 10.09 16.76	13.08
23 51 16 00-0154 45 Degree Elbows (23 51 16 00-0149)					
23 51 16 00-0155	EA		4" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	99.20 17.84 29.74	23.83
23 51 16 00-0156	EA		5" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	115.76 20.80 34.68	27.85
23 51 16 00-0157	EA		6" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	137.95 25.62 42.37	31.53
23 51 16 00-0158	EA		4" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	101.18 18.43 30.63	23.83
23 51 16 00-0159	EA		5" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	120.57 22.24 36.84	27.85
23 51 16 00-0160	EA		6" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	141.06 26.55 43.77	31.53
23 51 16 00-0161 Tees (23 51 16 00-0149)					
23 51 16 00-0162	EA		4" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	166.04 31.71 52.09	36.17
23 51 16 00-0163	EA		4" Short Snout Oval Flue/Vent Tee, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	169.15 32.64 53.49	36.17
23 51 16 00-0164	EA		5" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	194.38 37.54 61.51	41.54
23 51 16 00-0165	EA		6" Oval Flue/Vent Tee With Round Coupling, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	222.45 43.46 71.01	46.56
23 51 16 00-0166 Tops/Caps And Adjustable Flashing (23 51 16 00-0149)					
23 51 16 00-0167	EA		4" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	63.67 13.21 21.29	11.73
23 51 16 00-0168	EA		6" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	99.52 21.97 34.93	15.76
23 51 16 00-0169	EA		4" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	51.50 9.56 15.82	11.73
23 51 16 00-0170	EA		6" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	88.07 18.54 29.78	15.76
23 51 16 00-0171 Storm Collars (23 51 16 00-0149)					
23 51 16 00-0172	EA		4" Oval Galvanized Storm Collar, Double Wall <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	33.71 4.25 7.84	11.73
23 51 16 00-0173	EA		5" Oval Galvanized Storm Collar, Double Wall <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	39.68 5.06 9.30	13.68
23 51 16 00-0174	EA		6" Oval Galvanized Storm Collar, Double Wall <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	45.66 5.88 10.77	15.64
23 51 16 00-0175 Round Double Wall Flue/Vent Pipe And Fittings (23 51 16)					
Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.					
23 51 16 00-0176 Round Double Wall Flue/Vent Pipe (23 51 16 00-0175)					
Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.					
23 51 16 00-0177	LF		6" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	124.71 16.57 9.21 18.42	13.08

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0178	LF		8" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	150.03	15.03
			For 316 Stainless Steel, Add	20.23	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	11.24	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	22.48	
23 51 16 00-0179	LF		10" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	166.60	16.25
			For 316 Stainless Steel, Add	22.67	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	12.59	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	25.19	
23 51 16 00-0180	LF		12" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	187.95	17.72
			For 316 Stainless Steel, Add	25.84	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	14.35	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	28.71	
23 51 16 00-0181	LF		14" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	211.76	18.57
			For 316 Stainless Steel, Add	29.74	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	16.52	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	33.04	
23 51 16 00-0182	LF		16" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	223.63	19.55
			For 316 Stainless Steel, Add	31.44	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	17.47	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	34.93	
23 51 16 00-0183	LF		18" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	247.85	20.65
			For 316 Stainless Steel, Add	35.34	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	19.63	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	39.27	
23 51 16 00-0184	LF		20" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	306.27	32.62
			For 316 Stainless Steel, Add	40.46	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	22.48	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	44.95	
23 51 16 00-0185	LF		24" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	381.43	36.65
			For 316 Stainless Steel, Add	52.16	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	28.98	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	57.95	
23 51 16 00-0186	LF		28" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	430.80	39.10
			For 316 Stainless Steel, Add	59.96	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	33.31	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	66.62	
23 51 16 00-0187	LF		32" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	482.22	43.38
			For 316 Stainless Steel, Add	67.27	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	37.37	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	74.74	
23 51 16 00-0188	LF		36" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	536.91	46.92
			For 316 Stainless Steel, Add	75.56	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	41.98	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	83.95	
23 51 16 00-0189	LF		42" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	612.93	53.39
			For 316 Stainless Steel, Add	86.28	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	47.93	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	95.87	
23 51 16 00-0190	LF		48" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	717.86	61.83
			For 316 Stainless Steel, Add	101.39	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	56.33	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	112.66	
23 51 16 00-0191			90 Degree Elbows (23 51 16 00-0175)		
23 51 16 00-0192	EA		6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	590.14	27.00
			For 316 Stainless Steel, Add	104.53	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	52.27	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	104.53	
23 51 16 00-0193	EA		8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	651.96	30.06
			For 316 Stainless Steel, Add	115.37	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	57.68	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	115.37	
23 51 16 00-0194	EA		10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	742.32	32.62
			For 316 Stainless Steel, Add	132.16	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	66.08	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	132.16	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Breechings, Chimneys, and Stacks			23 51

23

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
23 51 16 00-0195	EA	12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	838.98		35.55
		For 316 Stainless Steel, Add	150.03		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	75.02		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	150.03		
23 51 16 00-0196	EA	14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	973.25		37.27
		For 316 Stainless Steel, Add	176.03		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	88.01		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	176.03		
23 51 16 00-0197	EA	16" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,072.64		39.10
		For 316 Stainless Steel, Add	194.98		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	97.49		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	194.98		
23 51 16 00-0198	EA	18" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,240.28		41.17
		For 316 Stainless Steel, Add	227.48		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	113.74		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	227.48		
23 51 16 00-0199	EA	20" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,435.73		65.13
		For 316 Stainless Steel, Add	254.56		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	127.28		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	254.56		
23 51 16 00-0200	EA	24" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,767.53		73.31
		For 316 Stainless Steel, Add	316.85		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	158.43		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	316.85		
23 51 16 00-0201	EA	28" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,145.34		78.19
		For 316 Stainless Steel, Add	389.97		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	194.98		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	389.97		
23 51 16 00-0202	EA	32" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,836.25		83.69
		For 316 Stainless Steel, Add	525.37		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	262.69		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	525.37		
23 51 16 00-0203	EA	36" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,223.29		97.74
		For 316 Stainless Steel, Add	595.78		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	297.89		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	595.78		
23 51 16 00-0204	EA	42" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	4,734.90		106.66
		For 316 Stainless Steel, Add	893.68		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	446.84		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	893.68		
23 51 16 00-0205	EA	48" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	5,912.56		117.29
		For 316 Stainless Steel, Add	1,123.87		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	561.93		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	1,123.87		
23 51 16 00-0206		45 Degree Elbows (23 51 16 00-0175)			
23 51 16 00-0207	EA	6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	392.81		26.02
		For 316 Stainless Steel, Add	65.54		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	32.77		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	65.54		
23 51 16 00-0208	EA	8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	448.85		30.06
		For 316 Stainless Steel, Add	74.74		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	37.37		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	74.74		
23 51 16 00-0209	EA	10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	498.56		32.62
		For 316 Stainless Steel, Add	83.41		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	41.71		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	83.41		
23 51 16 00-0210	EA	12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	568.18		35.55
		For 316 Stainless Steel, Add	95.87		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	47.93		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	95.87		
23 51 16 00-0211	EA	14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	640.15		37.27
		For 316 Stainless Steel, Add	109.41		
		For 2" Insulated Wall Instead Of 1" Thickness, Add	54.70		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	109.41		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0212	EA		16" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	717.88	39.10
			For 316 Stainless Steel, Add	124.03	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	62.02	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	124.03	
23 51 16 00-0213	EA		18" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	804.27	41.17
			For 316 Stainless Steel, Add	140.28	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	70.14	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	140.28	
23 51 16 00-0214	EA		20" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	964.53	65.13
			For 316 Stainless Steel, Add	160.32	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	80.16	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	160.32	
23 51 16 00-0215	EA		24" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,212.37	73.31
			For 316 Stainless Steel, Add	205.82	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	102.91	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	205.82	
23 51 16 00-0216	EA		28" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,359.99	78.19
			For 316 Stainless Steel, Add	232.90	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	116.45	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	232.90	
23 51 16 00-0217	EA		32" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,766.54	83.69
			For 316 Stainless Steel, Add	311.43	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	155.72	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	311.43	
23 51 16 00-0218	EA		36" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,343.16	97.74
			For 316 Stainless Steel, Add	419.76	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	209.88	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	419.76	
23 51 16 00-0219	EA		42" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,110.04	106.66
			For 316 Stainless Steel, Add	568.70	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	284.35	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	568.70	
23 51 16 00-0220	EA		48" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	4,152.32	117.29
			For 316 Stainless Steel, Add	771.81	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	385.91	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	771.81	
23 51 16 00-0221			Tees (23 51 16 00-0175)		
23 51 16 00-0222	EA		6" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	425.47	32.62
			For 316 Stainless Steel, Add	75.66	
			For Tee Cap, Add	97.33	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	34.39	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	68.79	
23 51 16 00-0223	EA		8" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	484.21	35.55
			For 316 Stainless Steel, Add	86.98	
			For Tee Cap, Add	110.17	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	39.54	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	79.08	
23 51 16 00-0224	EA		10" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	556.17	37.27
			For 316 Stainless Steel, Add	101.88	
			For Tee Cap, Add	125.20	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	46.31	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	92.62	
23 51 16 00-0225	EA		12" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	639.34	39.10
			For 316 Stainless Steel, Add	119.16	
			For Tee Cap, Add	142.53	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	54.16	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	108.32	
23 51 16 00-0226	EA		14" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	747.72	43.50
			For 316 Stainless Steel, Add	140.60	
			For Tee Cap, Add	165.84	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	63.91	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	127.82	
23 51 16 00-0227	EA		16" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	839.75	48.87
			For 316 Stainless Steel, Add	157.88	
			For Tee Cap, Add	186.27	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	71.77	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	143.53	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Breechings, Chimneys, and Stacks			23 51

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0228	EA		18" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel		
			Outer Jacket.....	979.04	55.84
			For 316 Stainless Steel, Add	184.69	
			For Tee Cap, Add	216.74	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	83.95	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	167.90	
23 51 16 00-0229	EA		20" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel		
			Outer Jacket.....	1,120.32	69.03
			For 316 Stainless Steel, Add	208.52	
			For Tee Cap, Add	249.94	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	94.78	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	189.57	
23 51 16 00-0230	EA		24" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel		
			Outer Jacket.....	1,422.40	97.74
			For 316 Stainless Steel, Add	259.17	
			For Tee Cap, Add	321.14	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	117.80	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	235.61	
23 51 16 00-0231	EA		28" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel		
			Outer Jacket.....	1,728.90	106.66
			For 316 Stainless Steel, Add	321.72	
			For Tee Cap, Add	385.76	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	146.24	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	292.48	
23 51 16 00-0232	EA		32" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel		
			Outer Jacket.....	2,297.23	117.29
			For 316 Stainless Steel, Add	440.88	
			For Tee Cap, Add	503.43	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	200.40	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	400.80	
23 51 16 00-0233	EA		36" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel		
			Outer Jacket.....	2,560.18	130.37
			For 316 Stainless Steel, Add	491.52	
			For Tee Cap, Add	560.93	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	223.42	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	446.84	
23 51 16 00-0234	EA		42" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel		
			Outer Jacket.....	4,076.99	195.50
			For 316 Stainless Steel, Add	789.42	
			For Tee Cap, Add	888.71	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	358.83	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	717.65	
23 51 16 00-0235	EA		48" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel		
			Outer Jacket.....	5,122.61	234.59
			For 316 Stainless Steel, Add	997.94	
			For Tee Cap, Add	1,112.50	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	453.61	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	907.22	
23 51 16 00-0236			Bellows (23 51 16 00-0175)		
23 51 16 00-0237	EA		6" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	807.15	26.02
			For 2" Insulated Wall Instead Of 1" Thickness, Add	74.20	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	148.40	
23 51 16 00-0238	EA		8" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	879.44	30.06
			For 2" Insulated Wall Instead Of 1" Thickness, Add	80.43	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	160.86	
23 51 16 00-0239	EA		10" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	961.68	32.62
			For 2" Insulated Wall Instead Of 1" Thickness, Add	88.01	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	176.03	
23 51 16 00-0240	EA		12" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,063.75	35.55
			For 2" Insulated Wall Instead Of 1" Thickness, Add	97.49	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	194.98	
23 51 16 00-0241	EA		14" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,189.90	37.27
			For 2" Insulated Wall Instead Of 1" Thickness, Add	109.68	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	219.36	
23 51 16 00-0242	EA		16" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,316.37	39.10
			For 2" Insulated Wall Instead Of 1" Thickness, Add	121.87	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	243.73	
23 51 16 00-0243	EA		18" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,470.47	41.17
			For 2" Insulated Wall Instead Of 1" Thickness, Add	136.76	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	273.52	
23 51 16 00-0244	EA		20" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,706.52	65.13
			For 2" Insulated Wall Instead Of 1" Thickness, Add	154.36	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	308.72	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0245	EA	24" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	2,106.06	73.31
		For 2" Insulated Wall Instead Of 1" Thickness, Add	192.28	
		For 3" Insulated Wall Instead Of 1" Thickness, Add	384.55	
23 51 16 00-0246	EA	28" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	2,362.01	78.19
		For 2" Insulated Wall Instead Of 1" Thickness, Add	216.65	
		For 3" Insulated Wall Instead Of 1" Thickness, Add	433.30	
23 51 16 00-0247	EA	32" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	2,700.97	83.82
		For 2" Insulated Wall Instead Of 1" Thickness, Add	249.15	
		For 3" Insulated Wall Instead Of 1" Thickness, Add	498.29	
23 51 16 00-0248	EA	36" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	3,087.91	97.74
		For 2" Insulated Wall Instead Of 1" Thickness, Add	284.35	
		For 3" Insulated Wall Instead Of 1" Thickness, Add	568.70	
23 51 16 00-0249	EA	42" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	3,922.49	106.66
		For 2" Insulated Wall Instead Of 1" Thickness, Add	365.60	
		For 3" Insulated Wall Instead Of 1" Thickness, Add	731.19	
23 51 16 00-0250	EA	48" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	4,761.64	117.29
		For 2" Insulated Wall Instead Of 1" Thickness, Add	446.84	
		For 3" Insulated Wall Instead Of 1" Thickness, Add	893.68	
23 51 16 00-0251 Ventilated Roof Thimbles (23 51 16 00-0175)				
23 51 16 00-0252	EA	6" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	535.56	30.06
		For 316 Stainless Steel, Add	57.55	
23 51 16 00-0253	EA	8" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	581.72	35.55
		For 316 Stainless Steel, Add	61.61	
23 51 16 00-0254	EA	10" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	636.62	39.10
		For 316 Stainless Steel, Add	67.36	
23 51 16 00-0255	EA	12" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	688.21	43.50
		For 316 Stainless Steel, Add	72.44	
23 51 16 00-0256	EA	14" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	876.01	46.06
		For 316 Stainless Steel, Add	95.12	
23 51 16 00-0257	EA	16" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	782.94	48.87
		For 316 Stainless Steel, Add	82.60	
23 51 16 00-0258	EA	18" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	842.62	52.17
		For 316 Stainless Steel, Add	89.03	
23 51 16 00-0259	EA	20" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	946.99	73.31
		For 316 Stainless Steel, Add	95.46	
23 51 16 00-0260	EA	24" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,062.30	83.69
		For 316 Stainless Steel, Add	106.63	
23 51 16 00-0261	EA	28" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,213.89	90.17
		For 316 Stainless Steel, Add	123.56	
23 51 16 00-0262	EA	32" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,354.54	97.62
		For 316 Stainless Steel, Add	138.79	
23 51 16 00-0263	EA	36" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,511.71	117.17
		For 316 Stainless Steel, Add	152.33	
23 51 16 00-0264	EA	42" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,937.01	130.25
		For 316 Stainless Steel, Add	201.42	
23 51 16 00-0265	EA	48" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	2,397.38	146.49
		For 316 Stainless Steel, Add	253.89	
23 51 16 00-0266 Exit Cones (23 51 16 00-0175)				
23 51 16 00-0267	EA	6" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	370.23	16.98
23 51 16 00-0268	EA	8" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	390.49	18.57
23 51 16 00-0269	EA	10" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	419.87	19.55
23 51 16 00-0270	EA	12" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	438.70	20.53
23 51 16 00-0271	EA	14" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	483.41	21.14
23 51 16 00-0272	EA	16" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	528.12	21.62



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Breechings, Chimneys, and Stacks			23 51

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0273	EA	18" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	640.76	22.36
23 51 16 00-0274	EA	20" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	800.72	41.91
23 51 16 00-0275	EA	24" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,006.44	45.09
23 51 16 00-0276	EA	28" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,200.55	46.92
23 51 16 00-0277	EA	32" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,476.25	48.87
23 51 16 00-0278	EA	36" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,676.96	53.39
23 51 16 00-0279	EA	42" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,116.60	55.84
23 51 16 00-0280	EA	48" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,705.80	58.65
23 51 16 00-0281		Vent Top Caps (23 51 16 00-0175)		
23 51 16 00-0282	EA	6" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	405.34	16.98
23 51 16 00-0283	EA	8" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	469.03	18.57
23 51 16 00-0284	EA	10" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	544.41	19.55
23 51 16 00-0285	EA	12" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	625.53	20.53
23 51 16 00-0286	EA	14" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	729.80	21.14
23 51 16 00-0287	EA	16" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	828.80	21.75
23 51 16 00-0288	EA	18" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	922.45	22.36
23 51 16 00-0289	EA	20" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,106.63	41.91
23 51 16 00-0290	EA	24" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,317.87	45.09
23 51 16 00-0291	EA	28" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,430.66	46.92
23 51 16 00-0292	EA	32" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,625.12	48.87
23 51 16 00-0293	EA	36" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,893.46	53.27
23 51 16 00-0294	EA	42" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,306.09	55.84
23 51 16 00-0295	EA	48" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,678.62	58.65
23 51 16 00-0296		Roof Support Assemblies (23 51 16 00-0175)		
23 51 16 00-0297	EA	6" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	611.59	31.28
		For 316 Stainless Steel, Add	106.70	
23 51 16 00-0298	EA	8" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	675.35	37.27
		For 316 Stainless Steel, Add	116.45	
23 51 16 00-0299	EA	10" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	741.92	41.17
		For 316 Stainless Steel, Add	127.82	
23 51 16 00-0300	EA	12" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	791.95	45.94
		For 316 Stainless Steel, Add	135.41	
23 51 16 00-0301	EA	14" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	883.15	48.87
		For 316 Stainless Steel, Add	152.20	
23 51 16 00-0302	EA	16" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	937.37	52.17
		For 316 Stainless Steel, Add	161.40	
23 51 16 00-0303	EA	18" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,006.36	55.96
		For 316 Stainless Steel, Add	173.32	
23 51 16 00-0304	EA	20" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,116.26	78.19
		For 316 Stainless Steel, Add	184.15	
23 51 16 00-0305	EA	24" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,254.67	90.29
		For 316 Stainless Steel, Add	205.82	
23 51 16 00-0306	EA	28" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,449.48	97.74
		For 316 Stainless Steel, Add	241.02	
23 51 16 00-0307	EA	32" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,728.92	106.66
		For 316 Stainless Steel, Add	292.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0308	EA	36" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,005.02	130.37
		<i>For 316 Stainless Steel, Add</i>	335.81	
23 51 16 00-0309	EA	42" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,993.39	146.62
		<i>For 316 Stainless Steel, Add</i>	525.37	
23 51 16 00-0310	EA	48" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,666.45	166.66
		<i>For 316 Stainless Steel, Add</i>	649.95	
23 51 16 00-0311		Round Stainless Steel Double Wall Flue/Vent Pipe And Fittings (23 51 16) Note: With 1" insulation.		
23 51 16 00-0312		Round Stainless Steel Double Wall Flue/Vent Pipe (23 51 16 00-0311) Note: With 1" insulation.		
23 51 16 00-0313	LF	6" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	108.46	13.08
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	7.58	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	15.17	
23 51 16 00-0314	LF	7" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	132.42	13.93
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	9.75	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	19.50	
23 51 16 00-0315	LF	8" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	151.39	15.03
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	11.37	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	22.75	
23 51 16 00-0316	LF	10" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	205.82	16.25
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	16.52	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	33.04	
23 51 16 00-0317	LF	12" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	266.54	17.84
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	22.21	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	44.41	
23 51 16 00-0318	LF	14" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	339.14	18.69
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	29.25	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	58.50	
23 51 16 00-0319		90 Degree Elbows (23 51 16 00-0311)		
23 51 16 00-0320	EA	6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	234.43	26.02
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	16.93	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	33.85	
23 51 16 00-0321	EA	7" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	259.33	27.85
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	18.96	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	37.91	
23 51 16 00-0322	EA	8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	291.82	30.06
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	21.67	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	43.33	
23 51 16 00-0323	EA	10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	363.14	32.62
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	28.16	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	56.33	
23 51 16 00-0324	EA	12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	432.78	35.55
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	34.39	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	68.79	
23 51 16 00-0325	EA	14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	504.68	37.27
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	41.16	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	82.33	
23 51 16 00-0326		45 Degree Elbows (23 51 16 00-0311)		
23 51 16 00-0327	EA	6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	192.12	26.02
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	12.69	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	25.39	
23 51 16 00-0328	EA	7" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	211.94	27.85
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	14.22	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	28.44	
23 51 16 00-0329	EA	8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	237.68	30.06
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	16.25	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	32.50	
23 51 16 00-0330	EA	10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	292.73	32.62
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	21.12	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	42.25	
23 51 16 00-0331	EA	12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	346.77	35.55
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	25.80	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	51.59	
23 51 16 00-0332	EA	14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	401.83	37.27
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	30.87	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	61.74	
23 51 16 00-0333		Tees With Tee Caps (23 51 16 00-0311)		
23 51 16 00-0334	EA	6" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe	384.67	26.02
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	31.96	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	63.91	
23 51 16 00-0335	EA	7" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe	486.82	27.85
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	41.71	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	83.41	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Breechings, Chimneys, and Stacks			23 51

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0336	EA		8" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	546.35 47.12 94.24	30.06
23 51 16 00-0337	EA		10" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	744.91 66.35 132.70	32.62
23 51 16 00-0338	EA		12" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	1,023.09 93.43 186.86	35.55
23 51 16 00-0339	EA		14" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	1,311.67 121.87 243.73	37.27
23 51 16 00-0340 Joist Shields (23 51 16 00-0311)					
23 51 16 00-0341	EA		6" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	162.62	26.02
23 51 16 00-0342	EA		7" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	175.39	27.85
23 51 16 00-0343	EA		8" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	205.13	30.06
23 51 16 00-0344	EA		10" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	256.22	32.62
23 51 16 00-0345	EA		12" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	306.83	35.55
23 51 16 00-0346	EA		14" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	363.86	37.27
23 51 16 00-0347 Adjustable Roof Flashing (23 51 16 00-0311)					
23 51 16 00-0348	EA		6" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	193.76	26.02
23 51 16 00-0349	EA		7" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	215.99	27.85
23 51 16 00-0350	EA		8" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	234.90	30.06
23 51 16 00-0351	EA		10" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	285.98	32.62
23 51 16 00-0352	EA		12" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	352.95	35.55
23 51 16 00-0353	EA		14" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	423.40	37.14
23 51 16 00-0354 Vent Top Caps (23 51 16 00-0311)					
23 51 16 00-0355	EA		6" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	173.45	26.02
23 51 16 00-0356	EA		7" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	217.34	27.85
23 51 16 00-0357	EA		8" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	272.83	30.06
23 51 16 00-0358	EA		10" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	436.32	32.62
23 51 16 00-0359	EA		12" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	595.31	35.55
23 51 16 00-0360	EA		14" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	759.27	37.27
23 51 16 00-0361 Roof Support Assemblies (23 51 16 00-0311)					
23 51 16 00-0362	EA		6" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	258.66	26.02
23 51 16 00-0363	EA		7" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	287.75	27.85
23 51 16 00-0364	EA		8" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	312.08	30.06
23 51 16 00-0365	EA		10" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	392.88	32.62
23 51 16 00-0366	EA		12" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	465.27	35.55
23 51 16 00-0367	EA		14" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	569.71	37.27
23 51 16 00-0368 Polyvinyl Chloride (PVC) Flue/Vent Accessories (23 51 16)					
23 51 16 00-0369 Concentric Polyvinyl Chloride (PVC) Vent Termination (23 51 16 00-0368)					
23 51 16 00-0370	EA		2" Concentric Polyvinyl Chloride (PVC) Vent Termination	255.71	49.76
23 51 16 00-0371	EA		3" Concentric Polyvinyl Chloride (PVC) Vent Termination	278.03	49.76
23 51 16 00-0372 Polypropylene (PP) Flue/Vent Pipe And Fittings (23 51 16)					
Note: Centrotherm InnoFlue® Vent System					
23 51 16 00-0373 Polypropylene Flue/Vent Rigid Pipe Sections (23 51 16 00-0372)					
Note: Gasketed rigid single wall polypropylene vent lengths with dedicated male and female ends.					
23 51 16 00-0374	EA		2" x 12" Polypropylene Flue/Vent Rigid Pipe Section	46.62	15.11
23 51 16 00-0375	EA		2" x 24" Polypropylene Flue/Vent Rigid Pipe Section	53.28	15.90
23 51 16 00-0376	EA		2" x 36" Polypropylene Flue/Vent Rigid Pipe Section	61.17	17.68
23 51 16 00-0377	EA		2" x 72" Polypropylene Flue/Vent Rigid Pipe Section	76.22	20.80
23 51 16 00-0378	EA		3" x 12" Polypropylene Flue/Vent Rigid Pipe Section	56.22	17.32
23 51 16 00-0379	EA		3" x 24" Polypropylene Flue/Vent Rigid Pipe Section	68.44	18.24
23 51 16 00-0380	EA		3" x 36" Polypropylene Flue/Vent Rigid Pipe Section	84.41	20.27
23 51 16 00-0381	EA		3" x 72" Polypropylene Flue/Vent Rigid Pipe Section	104.67	23.84
23 51 16 00-0382	EA		4" x 12" Polypropylene Flue/Vent Rigid Pipe Section	94.15	22.92
23 51 16 00-0383	EA		4" x 24" Polypropylene Flue/Vent Rigid Pipe Section	111.82	24.12
23 51 16 00-0384	EA		4" x 36" Polypropylene Flue/Vent Rigid Pipe Section	139.73	26.81
23 51 16 00-0385	EA		4" x 72" Polypropylene Flue/Vent Rigid Pipe Section	181.73	31.54
23 51 16 00-0386	EA		5" x 12" Polypropylene Flue/Vent Rigid Pipe Section	139.70	33.83
23 51 16 00-0387	EA		5" x 24" Polypropylene Flue/Vent Rigid Pipe Section	160.40	35.60
23 51 16 00-0388	EA		5" x 36" Polypropylene Flue/Vent Rigid Pipe Section	210.00	39.56
23 51 16 00-0389	EA		5" x 72" Polypropylene Flue/Vent Rigid Pipe Section	274.02	46.56
23 51 16 00-0390 Polypropylene Flue/Vent Elbows (23 51 16 00-0372)					
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.					

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0391 EA 2" Polypropylene Flue/Vent 15 Degree Elbow	57.70	18.36
23 51 16 00-0392 EA 3" Polypropylene Flue/Vent 15 Degree Elbow	67.96	19.33
23 51 16 00-0393 EA 4" Polypropylene Flue/Vent 15 Degree Elbow	85.72	20.04
23 51 16 00-0394 EA 5" Polypropylene Flue/Vent 15 Degree Elbow	100.04	20.86
23 51 16 00-0395 EA 2" Polypropylene Flue/Vent 30 Degree Elbow	57.70	18.36
23 51 16 00-0396 EA 3" Polypropylene Flue/Vent 30 Degree Elbow	67.96	19.33
23 51 16 00-0397 EA 4" Polypropylene Flue/Vent 30 Degree Elbow	85.72	20.04
23 51 16 00-0398 EA 5" Polypropylene Flue/Vent 30 Degree Elbow	100.04	20.86
23 51 16 00-0399 EA 2" Polypropylene Flue/Vent 45 Degree Elbow	57.70	18.36
23 51 16 00-0400 EA 3" Polypropylene Flue/Vent 45 Degree Elbow	67.96	19.33
23 51 16 00-0401 EA 4" Polypropylene Flue/Vent 45 Degree Elbow	85.72	20.04
23 51 16 00-0402 EA 5" Polypropylene Flue/Vent 45 Degree Elbow	100.04	20.86
23 51 16 00-0403 EA 2" Polypropylene Flue/Vent 87 Degree Elbow	57.70	18.36
23 51 16 00-0404 EA 3" Polypropylene Flue/Vent 87 Degree Elbow	67.96	19.33
23 51 16 00-0405 EA 4" Polypropylene Flue/Vent 87 Degree Elbow	84.61	20.04
23 51 16 00-0406 EA 5" Polypropylene Flue/Vent 87 Degree Elbow	102.78	20.86
23 51 16 00-0407 Polypropylene Flue/Vent Tees (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0408 EA 2" Polypropylene Flue/Vent Tee	185.53	27.55
23 51 16 00-0409 EA 3" Polypropylene Flue/Vent Tee	234.26	29.01
23 51 16 00-0410 EA 4" Polypropylene Flue/Vent Tee	275.73	30.06
23 51 16 00-0411 EA 5" Polypropylene Flue/Vent Tee	302.00	31.28
23 51 16 00-0412 Polypropylene Flue/Vent Adaptors (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0413 EA 2" Polypropylene Flue/Vent Adaptor With Gasket.....	68.50	18.36
23 51 16 00-0414 EA 3" Polypropylene Flue/Vent Adaptor With Gasket.....	99.42	19.33
23 51 16 00-0415 EA 4" Polypropylene Flue/Vent Adaptor With Gasket.....	116.18	20.04
23 51 16 00-0416 EA 5" Polypropylene Flue/Vent Adaptor With Gasket.....	159.59	20.86
23 51 16 00-0417 Polypropylene Flue/Vent Increases (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0418 EA 2" to 3" Polypropylene Flue/Vent Centric Increaser	76.19	18.85
23 51 16 00-0419 EA 3" to 4" Polypropylene Flue/Vent Centric Increaser	83.60	19.68
23 51 16 00-0420 EA 4" to 5" Polypropylene Flue/Vent Centric Increaser	153.05	20.44
23 51 16 00-0421 EA 2" to 3" Polypropylene Flue/Vent Eccentric Increaser	103.91	18.85
23 51 16 00-0422 EA 3" to 4" Polypropylene Flue/Vent Eccentric Increaser	81.34	19.68
23 51 16 00-0423 EA 4" to 5" Polypropylene Flue/Vent Eccentric Increaser	212.26	20.44
23 51 16 00-0424 Polypropylene Flue/Vent Reducers (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0425 EA 3" to 2" Polypropylene Flue/Vent Reducer.....	76.19	18.85
23 51 16 00-0426 EA 4" to 3" Polypropylene Flue/Vent Reducer.....	83.60	19.68
23 51 16 00-0427 EA 5" to 4" Polypropylene Flue/Vent Reducer.....	189.96	20.44
23 51 16 00-0428 Polypropylene Flue/Vent Test Ports (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0429 EA 2" Polypropylene Flue/Vent Test Port	95.98	27.55
23 51 16 00-0430 EA 3" Polypropylene Flue/Vent Test Port	108.01	29.01
23 51 16 00-0431 EA 4" Polypropylene Flue/Vent Test Port	167.87	30.06
23 51 16 00-0432 EA 5" Polypropylene Flue/Vent Test Port	179.37	31.28
23 51 16 00-0433 Polypropylene Flue/Vent Cascade Components (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0434 EA 4" x 15" Polypropylene Flue/Vent Branch Tee With 4" Feeder	280.70	30.06
23 51 16 00-0435 EA 4" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder	367.93	37.57
23 51 16 00-0436 EA 5" x 12" Polypropylene Flue/Vent Branch Tee With 4" Feeder	229.71	31.28
23 51 16 00-0437 EA 5" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder	341.56	39.10
23 51 16 00-0438 EA 3" to 4" Polypropylene Flue/Vent Non-Return Valve	361.59	19.68
23 51 16 00-0439 EA 4" to 4" Polypropylene Flue/Vent Non-Return Valve	419.04	20.44
23 51 16 00-0440 Polypropylene Flue/Vent Condensate Management (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0441 EA 2" Polypropylene Flue/Vent Horizontal Drain Tee	133.41	27.55
23 51 16 00-0442 EA 3" Polypropylene Flue/Vent Horizontal Drain Tee	162.00	29.01
23 51 16 00-0443 EA 4" Polypropylene Flue/Vent Horizontal Drain Tee	186.11	30.06
23 51 16 00-0444 EA 5" Polypropylene Flue/Vent Horizontal Drain Tee	212.87	31.28
23 51 16 00-0445 EA 4" Polypropylene Flue/Vent Horizontal Drain Fittings	236.76	30.06
23 51 16 00-0446 EA 5" Polypropylene Flue/Vent Horizontal Drain Fittings	261.34	31.28
23 51 16 00-0447 EA 2" Polypropylene Flue/Vent Tee Cap	78.06	9.19
23 51 16 00-0448 EA 3" Polypropylene Flue/Vent Tee Cap	100.58	9.66
23 51 16 00-0449 EA 4" Polypropylene Flue/Vent Tee Cap	119.79	10.02
23 51 16 00-0450 EA 5" Polypropylene Flue/Vent Tee Cap	156.92	10.42



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central Heating Equipment			23 50	
Breechings, Chimneys, and Stacks			23 51	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0451	EA	2" Polypropylene Flue/Vent Tee Cap With Drain	149.62	27.55	
23 51 16 00-0452	EA	3" Polypropylene Flue/Vent Tee Cap With Drain	184.47	29.01	
23 51 16 00-0453	EA	4" Polypropylene Flue/Vent Tee Cap With Drain	213.97	30.06	
23 51 16 00-0454	EA	5" Polypropylene Flue/Vent Tee Cap With Drain	258.67	31.28	
23 51 16 00-0455 Polypropylene Flue/Vent Terminations (23 51 16 00-0372)					
23 51 16 00-0456	EA	2" Polypropylene-UV Black Flue/Vent Chimney Cover	197.52	18.36	
23 51 16 00-0457	EA	3" Polypropylene-UV Black Flue/Vent Chimney Cover	173.71	19.33	
23 51 16 00-0458	EA	4" Polypropylene-UV Black Flue/Vent Chimney Cover	218.10	20.04	
23 51 16 00-0459	EA	3" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe	449.28	19.33	
23 51 16 00-0460	EA	4" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe	479.83	20.04	
23 51 16 00-0461	EA	5" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe	560.57	20.86	
23 51 16 00-0462	EA	2 1/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	115.33	18.36	
23 51 16 00-0463	EA	2 1/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	122.27	18.36	
23 51 16 00-0464	EA	2 1/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	129.21	18.36	
23 51 16 00-0465	EA	2 1/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	136.15	18.36	
23 51 16 00-0466	EA	3 1/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	124.70	19.33	
23 51 16 00-0467	EA	3 1/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	131.64	19.33	
23 51 16 00-0468	EA	3 1/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	138.58	19.33	
23 51 16 00-0469	EA	3 1/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	145.52	19.33	
23 51 16 00-0470	EA	4 1/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	140.34	20.04	
23 51 16 00-0471	EA	4 1/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	147.28	20.04	
23 51 16 00-0472	EA	4 1/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	154.23	20.04	
23 51 16 00-0473	EA	2" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination	122.20	18.36	
23 51 16 00-0474	EA	3" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination	157.32	19.33	
23 51 16 00-0475	EA	2" Polypropylene-UV Black Flue/Vent Termination Tee	140.94	27.55	
23 51 16 00-0476	EA	3" Polypropylene-UV Black Flue/Vent Termination Tee	186.91	29.01	
23 51 16 00-0477	EA	4" Polypropylene-UV Black Flue/Vent Termination Tee	221.73	30.06	
23 51 16 00-0478	EA	5" Polypropylene-UV Black Flue/Vent Termination Tee	244.62	31.28	
23 51 16 00-0479	EA	2" x 20" Polypropylene-UV Black Flue/Vent End Pipe	49.06	15.90	
23 51 16 00-0480	EA	2" x 39" Polypropylene-UV Black Flue/Vent End Pipe	58.95	17.68	
23 51 16 00-0481	EA	3" x 20" Polypropylene-UV Black Flue/Vent End Pipe	59.19	18.24	
23 51 16 00-0482	EA	3" x 39" Polypropylene-UV Black Flue/Vent End Pipe	74.42	20.27	
23 51 16 00-0483	EA	4" x 20" Polypropylene-UV Black Flue/Vent End Pipe	89.98	24.12	
23 51 16 00-0484	EA	5" x 20" Polypropylene-UV Black Flue/Vent End Pipe	123.77	35.60	
23 51 16 00-0485	EA	5" x 39" Polypropylene-UV Black Flue/Vent End Pipe	150.67	39.56	
23 51 16 00-0486	EA	2" x 24" Polypropylene-UV Black Flue/Vent Vent Length	54.63	15.90	
23 51 16 00-0487	EA	3" x 24" Polypropylene-UV Black Flue/Vent Vent Length	70.73	18.24	
23 51 16 00-0488	EA	4" x 24" Polypropylene-UV Black Flue/Vent Vent Length	116.97	24.12	
23 51 16 00-0489	EA	2" Polypropylene-UV Black Flue/Vent 45 Degree Elbow	59.90	18.36	
23 51 16 00-0490	EA	3" Polypropylene-UV Black Flue/Vent 45 Degree Elbow	70.73	19.33	
23 51 16 00-0491	EA	4" Polypropylene-UV Black Flue/Vent 45 Degree Elbow	89.28	20.04	
23 51 16 00-0492	EA	2" Polypropylene-UV Black Flue/Vent 87 Degree Elbow	58.86	18.36	
23 51 16 00-0493	EA	3" Polypropylene-UV Black Flue/Vent 87 Degree Elbow	70.04	19.33	
23 51 16 00-0494	EA	4" Polypropylene-UV Black Flue/Vent 87 Degree Elbow	88.06	20.04	
23 51 16 00-0495	EA	2" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent	38.97	9.19	
23 51 16 00-0496	EA	3" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent	45.62	9.66	
23 51 16 00-0497	EA	4" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent	51.28	10.02	
23 51 16 00-0498	EA	3" Stainless Steel Bird Screen For Polypropylene Flue/Vent	102.50	9.66	
23 51 16 00-0499	EA	5" Stainless Steel Bird Screen For Polypropylene Flue/Vent	117.92	10.42	
23 51 16 00-0500 Polypropylene Flue/Vent Accessories (23 51 16 00-0372)					
23 51 16 00-0501	EA	2" Spacer For Polypropylene Flue/Vent	19.88	4.59	
23 51 16 00-0502	EA	3" Spacer For Polypropylene Flue/Vent	18.83	4.84	
23 51 16 00-0503	EA	4" Spacer For Polypropylene Flue/Vent	19.39	5.01	
23 51 16 00-0504	EA	5" Spacer For Polypropylene Flue/Vent	31.20	5.21	
23 51 16 00-0505	EA	2" Flue Clamp For Polypropylene Flue/Vent	37.91	6.90	
23 51 16 00-0506	EA	3" Flue Clamp For Polypropylene Flue/Vent	44.73	7.25	
23 51 16 00-0507	EA	4" Flue Clamp For Polypropylene Flue/Vent	52.10	7.51	
23 51 16 00-0508	EA	2" Support Clamp For Polypropylene Flue/Vent	35.98	6.90	
23 51 16 00-0509	EA	4" Support Clamp For Polypropylene Flue/Vent	35.76	7.51	
23 51 16 00-0510	EA	5" Support Clamp For Polypropylene Flue/Vent	43.87	7.82	
23 51 16 00-0511	EA	3" Plastic Support Clamp For Polypropylene Flue/Vent	27.02	7.25	
23 51 16 00-0512	EA	2" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	52.91	18.36	
23 51 16 00-0513	EA	3" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	58.54	19.33	
23 51 16 00-0514	EA	4" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	63.22	20.04	
23 51 16 00-0515	EA	5" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	70.94	20.86	
23 51 16 00-0516	EA	2" Single Wall EDPM Gasket For Polypropylene Flue/Vent	4.46		
23 51 16 00-0517	EA	3" Single Wall EDPM Gasket For Polypropylene Flue/Vent	4.98		
23 51 16 00-0518	EA	4" Single Wall EDPM Gasket For Polypropylene Flue/Vent	6.75		
23 51 16 00-0519	EA	5" Single Wall EDPM Gasket For Polypropylene Flue/Vent	11.15		
23 51 16 00-0520	EA	2" Connector Ring For Polypropylene Flue/Vent	16.27	4.59	
23 51 16 00-0521	EA	3" Connector Ring For Polypropylene Flue/Vent	18.49	4.84	
23 51 16 00-0522	EA	4" Connector Ring For Polypropylene Flue/Vent	19.96	5.01	
23 51 16 00-0523	EA	5" Connector Ring For Polypropylene Flue/Vent	22.15	5.21	
23 51 16 00-0524	EA	2 1/4" Polypropylene Flue/Vent Air Intake, White	85.02	9.19	
23 51 16 00-0525	EA	3 1/5" Polypropylene Flue/Vent Air Intake, White	87.10	9.66	
23 51 16 00-0526	EA	4 1/6" Polypropylene Flue/Vent Air Intake, White	64.02	10.02	
23 51 16 00-0527	EA	2" Base Support For Polypropylene Flue/Vent	74.17	6.90	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0528 EA 3" Base Support For Polypropylene Flue/Vent.....	76.47	7.25
23 51 16 00-0529 EA 4" Base Support For Polypropylene Flue/Vent.....	103.20	7.51
23 51 16 00-0530 EA 5" Base Support For Polypropylene Flue/Vent.....	176.08	7.82
23 51 16 00-0531 Polypropylene Flue/Vent Flex Pipe (23 51 16 00-0372)		
23 51 16 00-0532 LF 2", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	13.30	1.61
23 51 16 00-0533 LF 2", > 50', Polypropylene Flue/Vent Flex Pipe.....	11.45	1.61
23 51 16 00-0534 LF 3", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	16.35	1.90
23 51 16 00-0535 LF 3", > 50', Polypropylene Flue/Vent Flex Pipe.....	14.03	1.90
23 51 16 00-0536 LF 4", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	23.70	2.35
23 51 16 00-0537 LF 4", > 50', Polypropylene Flue/Vent Flex Pipe.....	20.13	2.35
23 51 16 00-0538 Polypropylene Flue/Vent Couplers (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0539 EA 2" Polypropylene Flue/Vent Coupler, Single Wall to Flex.....	91.91	18.36
23 51 16 00-0540 EA 2" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	103.50	18.36
23 51 16 00-0541 EA 3" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	215.29	19.33
23 51 16 00-0542 EA 4" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	397.18	20.04
23 51 16 00-0543 EA 2" Polypropylene Flue/Vent Coupler, Flex to Flex.....	106.91	18.36
23 51 16 00-0544 EA 3" Polypropylene Flue/Vent Coupler, Flex to Flex.....	257.63	19.33
23 51 16 00-0545 EA 4" Polypropylene Flue/Vent Coupler, Flex to Flex.....	674.85	20.04
23 51 16 00-0546 Polypropylene Flue/Vent Flex End Terminations (23 51 16 00-0372)		
23 51 16 00-0547 EA 2" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	122.30	18.36
23 51 16 00-0548 EA 3" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	112.40	19.33
23 51 16 00-0549 EA 4" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	139.97	20.04
23 51 16 00-0550 Aluminum Flue/Vent Fittings (23 51 16)		
23 51 16 00-0551 Aluminum Vent Top Caps (23 51 16 00-0550)		
23 51 16 00-0552 EA 3" Aluminum Vent Cap (Star-Kap® 3-SK).....	116.92	18.21
23 51 16 00-0553 EA 4" Aluminum Vent Cap (Star-Kap® 4-SK).....	124.43	17.84
23 51 16 00-0554 EA 5" Aluminum Vent Cap (Star-Kap® 5-SK).....	135.13	18.69
23 51 16 00-0555 EA 6" Aluminum Vent Cap (Star-Kap® 6-SK).....	190.50	19.55
23 51 16 00-0556 EA 8" Aluminum Vent Cap (Star-Kap® 8-SK).....	213.12	21.75
23 51 16 00-0557 EA 10" Aluminum Vent Cap (Star-Kap® 10-SK).....	620.40	22.97
23 51 16 00-0558 EA 12" Aluminum Vent Cap (Star-Kap® 12-SK).....	635.55	24.44
23 52 Heating Boilers (23 50)		
23 52 13 Electric Boilers (23 52)		
23 52 13 00-0001 Packaged Electric Steam Boiler (23 52 13)		
Note: Includes burners, standard controls and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Rated by KW and MBH gross rated output.		
23 52 13 00-0002 EA 12 KW, 42 MBH Electric Steam Boiler With Packaged Standard Controls.....	9,006.93	666.73
23 52 13 00-0003 EA 24 KW, 84 MBH Electric Steam Boiler With Packaged Standard Controls.....	9,722.91	777.86
23 52 13 00-0004 EA 36 KW, 126 MBH Electric Steam Boiler With Packaged Standard Controls.....	10,442.48	833.42
23 52 13 00-0005 EA 48 KW, 168 MBH Electric Steam Boiler With Packaged Standard Controls.....	11,631.79	888.98
23 52 13 00-0006 EA 60 KW, 210 MBH Electric Steam Boiler With Packaged Standard Controls.....	12,792.25	944.54
23 52 13 00-0007 EA 80 KW, 280 MBH Electric Steam Boiler With Packaged Standard Controls.....	14,938.82	1,055.67
23 52 13 00-0008 EA 100 KW, 350 MBH Electric Steam Boiler With Packaged Standard Controls.....	17,085.49	1,166.79
23 52 13 00-0009 EA 120 KW, 420 MBH Electric Steam Boiler With Packaged Standard Controls.....	17,772.47	1,222.35
23 52 13 00-0010 EA 140 KW, 490 MBH Electric Steam Boiler With Packaged Standard Controls.....	18,699.87	1,277.91
23 52 13 00-0011 EA 160 KW, 560 MBH Electric Steam Boiler With Packaged Standard Controls.....	24,489.93	1,389.03
23 52 13 00-0012 EA 180 KW, 630 MBH Electric Steam Boiler With Packaged Standard Controls.....	25,526.21	1,444.59
23 52 13 00-0013 EA 200 KW, 700 MBH Electric Steam Boiler With Packaged Standard Controls.....	26,993.93	1,638.83
23 52 13 00-0014 EA 220 KW, 770 MBH Electric Steam Boiler With Packaged Standard Controls.....	28,117.69	1,760.23
23 52 13 00-0015 EA 240 KW, 840 MBH Electric Steam Boiler With Packaged Standard Controls.....	30,337.22	1,881.62
23 52 13 00-0016 EA 260 KW, 910 MBH Electric Steam Boiler With Packaged Standard Controls.....	32,675.06	2,063.71
23 52 13 00-0017 EA 280 KW, 980 MBH Electric Steam Boiler With Packaged Standard Controls.....	34,742.98	2,124.42
23 52 13 00-0018 EA 300 KW, 1,050 MBH Electric Steam Boiler With Packaged Standard Controls.....	36,432.04	2,185.11
23 52 13 00-0019 EA 320 KW, 1,120 MBH Electric Steam Boiler With Packaged Standard Controls.....	38,701.26	2,245.81
23 52 13 00-0020 EA 360 KW, 1,260 MBH Electric Steam Boiler With Packaged Standard Controls.....	40,971.09	2,306.50
23 52 13 00-0021 EA 400 KW, 1,400 MBH Electric Steam Boiler With Packaged Standard Controls.....	43,839.55	2,427.91
23 52 13 00-0022 EA 460 KW, 1,610 MBH Electric Steam Boiler With Packaged Standard Controls.....	46,792.99	2,549.30
23 52 13 00-0023 EA 500 KW, 1,750 MBH Electric Steam Boiler With Packaged Standard Controls.....	49,685.73	2,609.99
23 52 13 00-0024 EA 600 KW, 2,100 MBH Electric Steam Boiler With Packaged Standard Controls.....	55,080.42	2,670.69
23 52 13 00-0025 EA 700 KW, 2,450 MBH Electric Steam Boiler With Packaged Standard Controls.....	59,322.41	2,792.09
23 52 13 00-0026 EA 756 KW, 2,646 MBH Electric Steam Boiler With Packaged Standard Controls.....	60,756.65	2,913.48
23 52 13 00-0027 EA 828 KW, 2,898 MBH Electric Steam Boiler With Packaged Standard Controls.....	66,816.66	3,095.58
23 52 13 00-0028 EA 936 KW, 3,276 MBH Electric Steam Boiler With Packaged Standard Controls.....	68,984.15	3,277.66
23 52 13 00-0029 EA 1,008 KW, 3,528 MBH Electric Steam Boiler With Packaged Standard Controls.....	71,273.05	3,459.76
23 52 13 00-0030 EA 1,116 KW, 3,906 MBH Electric Steam Boiler With Packaged Standard Controls.....	75,711.83	3,641.85
23 52 13 00-0031 EA 1,224 KW, 4,284 MBH Electric Steam Boiler With Packaged Standard Controls.....	77,683.54	3,763.25

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Central Heating Equipment

23 50

Heating Boilers

23 52

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

23 52 13 00-0032	EA	1,368 KW, 4,788 MBH Electric Steam Boiler With Packaged Standard Controls.....	80,272.02	4,006.04
23 52 13 00-0033	EA	1,440 KW, 5,040 MBH Electric Steam Boiler With Packaged Standard Controls.....	83,019.09	4,248.83
23 52 13 00-0034	EA	1,512 KW, 5,292 MBH Electric Steam Boiler With Packaged Standard Controls.....	90,700.32	4,491.62
23 52 13 00-0035	EA	1,620 KW, 5,670 MBH Electric Steam Boiler With Packaged Standard Controls.....	95,624.68	4,734.41

23 52 13 00-0036**Packaged Electric Hot Water Boiler (23 52 13)**

Note: Flush jacketed steel shell. Includes burners, and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.). Rated by KW and MBH gross rated output.

23 52 13 00-0037	EA	9 KW, 31 MBH, Electric Hot Boiler With Packaged Standard Controls.....	7,903.55	611.17
23 52 13 00-0038	EA	12 KW, 41 MBH, Electric Hot Boiler With Packaged Standard Controls.....	8,329.15	666.73
23 52 13 00-0039	EA	18 KW, 61 MBH, Electric Hot Boiler With Packaged Standard Controls.....	8,754.75	722.30
23 52 13 00-0040	EA	24 KW, 82 MBH, Electric Hot Boiler With Packaged Standard Controls.....	9,165.65	777.86
23 52 13 00-0041	EA	36 KW, 123 MBH, Electric Hot Boiler With Packaged Standard Controls.....	9,638.54	833.42
23 52 13 00-0042	EA	48 KW, 164 MBH, Electric Hot Boiler With Packaged Standard Controls.....	9,989.66	888.98
23 52 13 00-0043	EA	60 KW, 205 MBH Electric Hot Boiler With Packaged Standard Controls.....	10,415.26	944.54
23 52 13 00-0044	EA	72 KW, 246 MBH Electric Hot Boiler With Packaged Standard Controls.....	11,053.66	1,000.10
23 52 13 00-0045	EA	84 KW, 287 MBH Electric Hot Boiler With Packaged Standard Controls.....	11,606.79	1,055.67
23 52 13 00-0046	EA	90 KW, 307 MBH Electric Hot Boiler With Packaged Standard Controls.....	11,947.27	1,111.23
23 52 13 00-0047	EA	105 KW, 358 MBH Electric Hot Boiler With Packaged Standard Controls.....	12,828.14	1,166.79
23 52 13 00-0048	EA	120 KW, 409 MBH Electric Hot Boiler With Packaged Standard Controls.....	13,656.51	1,222.35
23 52 13 00-0049	EA	135 KW, 461 MBH Electric Hot Boiler With Packaged Standard Controls.....	15,153.52	1,277.91
23 52 13 00-0050	EA	150 KW, 512 MBH Electric Hot Boiler With Packaged Standard Controls.....	16,126.18	1,333.48
23 52 13 00-0051	EA	165 KW, 563 MBH Electric Hot Boiler With Packaged Standard Controls.....	16,946.91	1,389.03
23 52 13 00-0052	EA	180 KW, 614 MBH Electric Hot Boiler With Packaged Standard Controls.....	18,406.95	1,444.59
23 52 13 00-0053	EA	195 KW, 665 MBH Electric Hot Boiler With Packaged Standard Controls.....	20,298.80	1,638.83
23 52 13 00-0054	EA	225 KW, 768 MBH Electric Hot Boiler With Packaged Standard Controls.....	21,824.67	1,760.23
23 52 13 00-0055	EA	240 KW, 819 MBH Electric Hot Boiler With Packaged Standard Controls.....	23,482.59	1,881.62
23 52 13 00-0056	EA	270 KW, 921 MBH Electric Hot Boiler With Packaged Standard Controls.....	25,129.86	2,063.71
23 52 13 00-0057	EA	300 KW, 1,024 MBH Electric Hot Boiler With Packaged Standard Controls.....	26,787.76	2,185.11
23 52 13 00-0058	EA	330 KW, 1,126 MBH Electric Hot Boiler With Packaged Standard Controls.....	28,329.85	2,306.50
23 52 13 00-0059	EA	360 KW, 1,228 MBH Electric Hot Boiler With Packaged Standard Controls.....	30,478.91	2,367.20
23 52 13 00-0060	EA	390 KW, 1,331 MBH Electric Hot Boiler With Packaged Standard Controls.....	32,481.65	2,427.91
23 52 13 00-0061	EA	420 KW, 1,433 MBH Electric Hot Boiler With Packaged Standard Controls.....	34,399.27	2,549.30
23 52 13 00-0062	EA	450 KW, 1,535 MBH Electric Hot Boiler With Packaged Standard Controls.....	36,413.78	2,549.30
23 52 13 00-0063	EA	504 KW, 1,720 MBH Electric Hot Boiler With Packaged Standard Controls.....	39,897.51	2,609.99
23 52 13 00-0064	EA	612 KW, 2,088 MBH Electric Hot Boiler With Packaged Standard Controls.....	41,752.10	2,670.69
23 52 13 00-0065	EA	684 KW, 2,334 MBH Electric Hot Boiler With Packaged Standard Controls.....	44,078.81	2,792.09
23 52 13 00-0066	EA	720 KW, 2,457 MBH Electric Hot Boiler With Packaged Standard Controls.....	45,849.40	2,852.79
23 52 13 00-0067	EA	750 KW, 2,559 MBH Electric Hot Boiler With Packaged Standard Controls.....	47,626.19	2,913.48
23 52 13 00-0068	EA	810 KW, 2,764 MBH Electric Hot Boiler With Packaged Standard Controls.....	48,952.40	3,095.58
23 52 13 00-0069	EA	900 KW, 3,071 MBH Electric Hot Boiler With Packaged Standard Controls.....	51,356.58	3,277.66
23 52 13 00-0070	EA	1,020 KW, 3,480 MBH Electric Hot Boiler With Packaged Standard Controls.....	59,792.48	3,459.76
23 52 13 00-0071	EA	1,110 KW, 3,787 MBH Electric Hot Boiler With Packaged Standard Controls.....	65,610.08	3,641.85
23 52 13 00-0072	EA	1,200 KW, 4,094 MBH Electric Hot Boiler With Packaged Standard Controls.....	68,167.33	3,763.25
23 52 13 00-0073	EA	1,350 KW, 4,606 MBH Electric Hot Boiler With Packaged Standard Controls.....	71,009.42	4,006.04
23 52 13 00-0074	EA	1,440 KW, 4,913 MBH Electric Hot Boiler With Packaged Standard Controls.....	73,851.51	4,248.83
23 52 13 00-0075	EA	1,560 KW, 5,323 MBH Electric Hot Boiler With Packaged Standard Controls.....	81,876.49	4,491.62
23 52 13 00-0076	EA	1,680 KW, 5,732 MBH Electric Hot Boiler With Packaged Standard Controls.....	87,043.68	4,734.41
23 52 13 00-0077	EA	1,740 KW, 5,937 MBH Electric Hot Boiler With Packaged Standard Controls.....	89,247.37	4,855.80
23 52 13 00-0078	EA	1,800 KW, 6,142 MBH Electric Hot Boiler With Packaged Standard Controls.....	91,451.06	4,977.20
23 52 13 00-0079	EA	1,980 KW, 6,756 MBH Electric Hot Boiler With Packaged Standard Controls.....	91,936.65	5,159.29
23 52 13 00-0080	EA	2,100 KW, 7,165 MBH Electric Hot Boiler With Packaged Standard Controls.....	98,714.81	5,280.69
23 52 13 00-0081	EA	2,220 KW, 7,575 MBH Electric Hot Boiler With Packaged Standard Controls.....	103,243.60	5,462.78
23 52 13 00-0082	EA	2,600 KW, 8,871 MBH Electric Hot Boiler With Packaged Standard Controls.....	110,841.55	5,826.96
23 52 13 00-0083	EA	2,960 KW, 10,100 MBH Electric Hot Boiler With Packaged Standard Controls.....	119,425.66	6,433.94
23 52 13 00-0084	EA	3,240 KW, 11,055 MBH Electric Hot Boiler With Packaged Standard Controls.....	129,285.13	7,162.32
23 52 13 00-0085	EA	3,360 KW, 11,464 MBH Electric Hot Boiler With Packaged Standard Controls.....	136,883.08	7,890.68

23 52 16 Condensing Boilers (23 52)**23 52 16 13 Stainless-Steel Condensing Boilers (23 52 16)****23 52 16 13-0001 Hamilton Evo Series Stainless Steel Condensing Boilers (23 52 16 13)**

Note: Includes circulating pump, mounting rack, disconnect panel, plumbing and gas manifold, manual reset high limit and LWCO (Cal Code). Rated by gross rated output.

23 52 16 13-0002	EA	75 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW79).....	12,496.07	444.50
23 52 16 13-0003	EA	127 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW129).....	13,217.51	592.06
23 52 16 13-0004	EA	168 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW179).....	14,097.13	666.62
23 52 16 13-0005	EA	187 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW199.1).....	14,943.62	703.74
23 52 16 13-0006	EA	281 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW299).....	19,719.42	814.86
23 52 16 13-0007	EA	374 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW399).....	22,822.64	888.87
23 52 16 13-0008	EA	589 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW599).....	30,824.53	1,037.00
23 52 16 13-0009	EA	785 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW798).....	42,839.08	1,185.24
Note: Includes vent manifold.				
23 52 16 13-0010	EA	980 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW998).....	52,382.03	1,296.35
Note: Includes vent manifold.				
23 52 16 13-0011	EA	1,425 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1499).....	75,612.70	1,518.49
23 52 16 13-0012	EA	1,900 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1999).....	83,323.60	1,629.61

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 13-0013 Buderus SB615 Stainless Steel Condensing Boilers (23 52 16 13)				
Note: Includes Riello burners. Rated by gross rated output.				
23 52 16 13-0014	EA	484 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/145)	39,617.01	962.99
23 52 16 13-0015	EA	612 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/185)	41,486.67	1,037.00
23 52 16 13-0016	EA	791 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/240)	46,386.24	1,185.24
23 52 16 13-0017	EA	1,022 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/310)	50,125.56	1,333.36
23 52 16 13-0018	EA	1,317 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/400)	55,584.19	1,444.48
23 52 16 13-0019	EA	1,459 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/510)	63,599.59	1,518.49
23 52 16 13-0020	EA	2,104 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/640)	76,416.65	1,629.61
23 52 16 13-0021 Buderus SB735 Stainless Steel Condensing Boilers (23 52 16 13)				
Note: Includes Riello burners. Rated by gross rated output.				
23 52 16 13-0022	EA	2,650 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/790)	77,914.47	1,777.74
23 52 16 13-0023	EA	3,251 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/970)	90,233.48	1,851.86
23 52 16 13-0024	EA	4,079 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/1200)	104,574.90	1,925.98
23 52 16 13-0025 Laars Neotherm Stainless Steel Condensing Boiler (23 52 16 13)				
Note: Compliant with SCAQMD. Rated by gross rated input.				
23 52 16 13-0026	EA	80 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH080)	8,736.73	481.49
23 52 16 13-0027	EA	105 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH105)	9,972.25	555.61
23 52 16 13-0028	EA	150 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH150)	11,166.36	666.62
23 52 16 13-0029	EA	210 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH210)	12,436.13	740.74
23 52 16 13-0030	EA	285 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH285)	15,664.09	814.86
23 52 16 13-0031	EA	399 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH399)	20,492.44	888.87
23 52 16 13-0032	EA	500 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH500)	24,636.30	962.99
23 52 16 13-0033	EA	600 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH600)	27,354.12	1,037.00
23 52 16 13-0034	EA	750 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH750)	29,715.42	1,111.12
23 52 16 13-0035	EA	850 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH850)	32,298.97	1,259.24
23 52 16 13-0036	EA	1,000 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1000)	46,036.46	1,333.36
23 52 16 13-0037	EA	1,700 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1700)	61,236.11	1,555.60
23 52 16 13-0038 AERCO Benchmark Stainless-Steel Condensing Boilers (23 52 16 13)				
Note: Rated by gross rated output.				
23 52 16 13-0039	EA	1,500 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK1.5LN)	49,873.80	1,518.49
Note: Includes gas PRV and pump delay relay.				
23 52 16 13-0040	EA	2,000 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK2.0LN)	59,194.38	1,629.61
Note: Includes gas PRV and pump delay relay.				
23 52 16 13-0041	EA	3,000 MBH Water, 220 Volt, 1 Phase, 230 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000)	85,142.86	1,814.86
Note: Includes gas PRV and pump delay relay.				
23 52 16 13-0042	EA	3,000 MBH Water, 480 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000)	90,724.64	1,814.86
Note: Includes gas PRV and pump delay relay.				
23 52 16 13-0043 Lochinvar Knight Stainless Steel Condensing Boilers (23 52 16 13)				
Note: Rated by gross rated output.				
23 52 16 13-0044	EA	184 MBH 95% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KBN211)	12,111.38	666.62
23 52 16 13-0045	EA	264 MBH 95% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KHB285N)	15,683.66	740.74
23 52 16 13-0046 Lochinvar Knight XL Stainless Steel Condensing Boilers (23 52 16 13)				
Note: Rated by gross rated output.				
23 52 16 13-0047	EA	387 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0400N)	17,810.35	851.87
23 52 16 13-0048	EA	485 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0500N)	22,221.68	888.87
23 52 16 13-0049	EA	631 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0650N)	27,284.55	962.99
23 52 16 13-0050	EA	776 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0800N)	32,734.65	999.99
23 52 16 13-0051	EA	969 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX1000N)	40,044.31	1,074.11
23 52 16 13-0052 Lochinvar Crest Stainless Steel Condensing Boilers (23 52 16 13)				
Note: Rated by gross rated output.				
23 52 16 13-0053	EA	1,203 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1251)	50,765.35	1,259.02
23 52 16 13-0054	EA	1,443 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1501)	52,380.36	1,444.48
23 52 16 13-0055	EA	1,684 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1751)	57,428.46	1,536.83
23 52 16 13-0056	EA	1,923 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2001)	62,476.56	1,629.61
23 52 16 13-0057	EA	2,400 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2501)	73,327.66	1,703.73
23 52 16 13-0058	EA	2,883 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3001)	81,254.96	1,777.74
23 52 16 13-0059	EA	3,364 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3501)	99,880.27	1,851.86
23 52 16 13-0060	EA	3,843 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN4001)	110,374.57	1,925.87
23 52 16 13-0061	EA	4,804 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN5001)	135,467.44	1,999.88



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Heating Boilers			23 52

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 13-0062 Patterson Kelley Stainless Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0063 Patterson Kelley Stainless Steel Condensing Boilers, SOLIS® Series (23 52 16 13-0062)		
23 52 16 13-0064 EA 1,500 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Patterson-Kelley SOLIS® SL-1500).....	47,389.50	1,518.49
23 52 16 13-0065 EA 3,000 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Patterson-Kelley SOLIS® SL-3000).....	72,880.80	1,814.86
23 52 16 13-0066 Patterson Kelley Stainless Steel Condensing Boilers, SONIC® Series (23 52 16 13-0062)		
23 52 16 13-0067 EA 650 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-650 SCD-650).....	24,688.30	1,074.11
23 52 16 13-0068 EA 1,000 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-1000 SCD-1000).....	29,680.91	1,333.36
23 52 16 13-0069 EA 2,000 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-2000).....	50,369.35	1,629.61
23 52 16 13-0070 EA 4,000 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-4000).....	86,544.49	1,925.98
23 52 16 13-0071 Patterson Kelley Stainless Steel Condensing Boilers, STORM® Series (23 52 16 13-0062)		
23 52 16 13-0072 EA 1,250 MBH 97% Efficient, Gas Fired, Stainless Steel Condensing Boiler (Patterson-Kelley STORM® ST1250).....	36,176.24	1,407.37
23 52 16 13-0073 EA 2,000 MBH 97% Efficient, Gas Fired, Stainless Steel Condensing Boiler (Patterson-Kelley STORM® ST2000).....	59,582.95	1,629.61
23 52 16 13-0074 EA 4,000 MBH 97% Efficient, Gas Fired, Stainless Steel Condensing Boiler (Patterson-Kelley STORM® ST4000).....	88,504.82	1,925.98
23 52 16 16 Aluminum Condensing Boilers (23 52 16)		
23 52 16 16-0001 Weil McLain Aluminum Condensing Boilers (23 52 16 16)		
Note: Rated by gross rated output.		
23 52 16 16-0002 EA 80 MBH Water, Gas Fired, Condensing Boiler (Weil McLain Ultra 80).....	8,390.12	481.49
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0003 EA 105 MBH Water, Gas Fired, Condensing Boiler (Weil McLain Ultra 105).....	9,244.74	555.61
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0004 EA 155 MBH Water, Gas Fired, Condensing Boiler (Weil McLain Ultra 155).....	10,421.27	666.62
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0005 EA 230 MBH Water, Gas Fired, Condensing Boiler (Weil McLain Ultra 230).....	11,697.47	740.74
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0006 EA 310 MBH Water, Gas Fired, Condensing Boiler (Weil McLain Ultra 310).....	15,192.68	851.87
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0007 Patterson Kelley Mach Series Aluminum Condensing Boilers (23 52 16 16)		
Note: Rated by gross rated output.		
23 52 16 16-0008 EA 300 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach CM300).....	20,727.39	814.86
23 52 16 16-0009 EA 450 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C450).....	23,323.54	925.99
23 52 16 16-0010 EA 750 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C750).....	26,396.19	1,111.12
23 52 16 16-0011 EA 900 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C900).....	39,185.38	1,259.24
23 52 16 16-0012 EA 1,050 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C1050).....	40,930.52	1,333.36
23 52 16 16-0013 EA 1,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C1500).....	63,614.43	1,518.49
23 52 16 16-0014 EA 2,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C2000).....	68,889.20	1,629.61
23 52 16 16-0015 EA 2,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C2500).....	83,151.68	1,777.74
23 52 16 16-0016 EA 3,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C3000).....	96,575.82	1,814.86
23 52 16 16-0017 EA 4,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C4000).....	109,917.06	1,925.98
23 52 16 16-0018 Buderus GB142 Wall Hung Aluminum Condensing Boilers (23 52 16 16)		
Note: Includes standard controls. Rated by gross rated output.		
23 52 16 16-0019 EA 75 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/24).....	6,055.38	444.50
Note: Includes an aluminum heat exchanger and three speed circulating pump.		
23 52 16 16-0020 EA 95 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/30).....	7,033.21	518.49
Note: Includes an aluminum heat exchanger and three speed circulating pump.		
23 52 16 16-0021 EA 143 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/45).....	8,119.68	629.62
Note: Includes an aluminum heat exchanger and three speed circulating pump.		
23 52 16 16-0022 EA 193 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/60).....	8,892.94	703.74
Note: Includes an aluminum heat exchanger and three speed circulating pump.		
23 52 16 16-0023 EA Optional Vertical Or Horizontal 3" Concentric Termination Kit For GB142 (Buderus 60L46).....	343.79	111.12
23 52 16 16-0024 EA Optional Stainless Steel Concentric Hood For GB142 (Buderus SJT3).....	444.83	111.12
23 52 16 16-0025 EA Optional GB Floor Stand For GB142 (Buderus 7098265).....	931.00	111.12
23 52 16 16-0026 Buderus GB162 Wall Hung Aluminum Condensing Boilers (23 52 16 16)		
Note: Includes standard controls. Rated by gross rated output.		
23 52 16 16-0027 EA 290 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/80).....	10,059.07	814.86
Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.		
23 52 16 16-0028 EA 333 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/100).....	12,358.23	851.87
Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 16-0029	EA	580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/80-TL2) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	23,647.66	999.99
23 52 16 16-0030	EA	580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/80-TR2) Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	22,121.18	999.99
23 52 16 16-0031	EA	666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/100-TL2) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	28,245.97	1,074.11
23 52 16 16-0032	EA	666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/100-TR2) Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	26,719.49	1,074.11
23 52 16 16-0033	EA	870 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/80-TL3) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	32,843.02	1,259.24
23 52 16 16-0034	EA	999 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/100-TL3) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	39,629.39	1,333.36
23 52 16 16-0035	EA	1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/80-TL4) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	40,746.15	1,407.37
23 52 16 16-0036	EA	1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/80-TR4) Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	41,357.51	1,407.37
23 52 16 16-0037	EA	1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/100-TL4) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	49,609.42	1,444.48
23 52 16 16-0038	EA	1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/100-TR4) Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	50,220.78	1,444.48
23 52 16 16-0039	EA	EMS Control Module For Condensing Boiler (Buderus RC35)	762.82	111.12
23 52 16 16-0040 Buderus GB312 Aluminum Condensing Boilers (23 52 16 16)				
Note: Includes standard controls. Rated by gross rated output.				
23 52 16 16-0041	EA	305 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/90)..... Note: Includes an aluminum heat exchanger.	14,283.96	814.86
23 52 16 16-0042	EA	409 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/120)..... Note: Includes an aluminum heat exchanger.	16,634.47	888.87
23 52 16 16-0043	EA	544 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/160)..... Note: Includes an aluminum heat exchanger.	20,793.07	981.44
23 52 16 16-0044	EA	676 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/200)..... Note: Includes an aluminum heat exchanger.	23,882.42	1,074.11
23 52 16 16-0045	EA	810 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/240)..... Note: Includes an aluminum heat exchanger.	28,533.52	1,185.24
23 52 16 16-0046	EA	944 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/280)..... Note: Includes an aluminum heat exchanger.	31,502.73	1,296.35
23 52 16 16-0047	EA	Optional CSD-1 Kit Consisting Of High And Low Gas Pressure Switches For GB312 (Buderus 7747019985).....	495.52	55.56
23 52 16 16-0048	EA	Optional L4006E1125 Manual Reset Aquastat For GB312 (Buderus L4006E1125).....	272.20	55.56
23 52 16 16-0049	EA	Optional Hydrolevel 550 low Water Cut-Off For GB312 (Buderus 550).....	384.96	55.56
23 52 16 16-0050	EA	Optional Condensate Neutralization Tank For GB312 (Buderus 63035899)	803.76	55.56
23 52 16 19 Copper Water-Tube Condensing Boilers (23 52 16)				
23 52 16 19-0001 Laars Rheos+ Copper Fin Tube Condensing Boilers (23 52 16 19)				
Note: Rated by gross rated output.				
23 52 16 19-0002	EA	1,200 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	45,586.17	1,407.37
23 52 16 19-0003	EA	1,600 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	51,399.46	1,555.60
23 52 16 19-0004	EA	2,000 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	56,245.60	1,629.61
23 52 16 19-0005	EA	2,400 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	60,696.99	1,703.73

23 52 16 23 Cast Iron Condensing Boilers (23 52 16)



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central Heating Equipment			23 50	
Heating Boilers			23 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 23-0001 Hydrotherm KN Cast Iron Condensing Boilers (23 52 16 23) Note: Rated by gross rated output.		
23 52 16 23-0002 EA 199 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-2).....	16,046.66	703.74
23 52 16 23-0003 EA 399 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-4).....	23,487.97	888.87
23 52 16 23-0004 EA 600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-6).....	38,612.72	1,037.00
23 52 16 23-0005 EA 1,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-10).....	50,683.39	1,333.36
23 52 16 23-0006 EA 1,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-16).....	67,563.18	1,555.60
23 52 16 23-0007 EA 1,999 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-20).....	73,698.59	1,629.61
23 52 16 23-0008 EA 2,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-26).....	93,795.80	1,777.74
23 52 16 23-0009 EA 3,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-30).....	102,521.20	1,814.86
23 52 23 Cast-Iron Boilers (23 52)		
23 52 23 00-0001 Weil-McLain Model 80 Cast Iron Boiler (23 52 23) Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0002 Gas Fired Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0003 EA 209 MBH Steam, 242 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 380).....	19,397.51	3,720.47
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0004 EA 297 MBH Steam, 344 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 480).....	21,232.43	3,968.50
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0005 EA 386 MBH Steam, 448 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 580).....	23,242.57	4,216.53
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0006 EA 476 MBH Steam, 551 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 680).....	25,110.56	4,464.56
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0007 EA 565 MBH Steam, 655 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 780).....	26,834.27	4,712.59
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0008 EA 654 MBH Steam, 758 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 880).....	29,200.84	4,960.62
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0009 EA 743 MBH Steam, 862 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 980).....	31,025.62	5,208.65
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0010 EA 833 MBH Steam, 965 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1080).....	32,470.35	5,456.68
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0011 EA 922 MBH Steam, 1,069 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1180).....	33,909.73	5,704.72
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0012 EA 1,018 MBH Steam, 1,172 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1280).....	35,574.72	5,952.75
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0013 Gas Fired Package Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001) Note: Fire tested factory assembled package unit.		
23 52 23 00-0014 EA 209 MBH Steam, 242 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 380).....	13,958.84	485.59
Note: Fire tested factory assembled package unit.		
23 52 23 00-0015 EA 297 MBH Steam, 344 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 480).....	15,539.78	485.59
Note: Fire tested factory assembled package unit.		
23 52 23 00-0016 EA 386 MBH Steam, 448 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 580).....	17,784.53	606.98
Note: Fire tested factory assembled package unit.		
23 52 23 00-0017 EA 476 MBH Steam, 551 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 680).....	19,396.54	606.98
Note: Fire tested factory assembled package unit.		
23 52 23 00-0018 EA 565 MBH Steam, 655 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 780).....	21,355.15	728.37
Note: Fire tested factory assembled package unit.		
23 52 23 00-0019 EA 654 MBH Steam, 758 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 880).....	23,487.06	728.37
Note: Fire tested factory assembled package unit.		
23 52 23 00-0020 EA 743 MBH Steam, 862 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 980).....	25,543.79	849.77
Note: Fire tested factory assembled package unit.		
23 52 23 00-0021 EA 833 MBH Steam, 965 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1080).....	27,221.20	971.16
Note: Fire tested factory assembled package unit.		
23 52 23 00-0022 EA 922 MBH Steam, 1,069 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1180).....	28,409.77	971.16
Note: Fire tested factory assembled package unit.		
23 52 23 00-0023 EA 1018 MBH Steam, 1172 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1280).....	30,304.65	1,092.55
Note: Fire tested factory assembled package unit.		
23 52 23 00-0024 Gas/Oil Fired Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0025 EA 209 MBH Steam, 242 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 380).....	20,321.23	3,720.47
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0026 EA 297 MBH Steam, 344 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 480).....	22,321.28	3,968.50
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0027 EA 386 MBH Steam, 448 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 580).....	24,231.69	4,216.53
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0028 EA 476 MBH Steam, 551 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 680).....	26,367.80	4,464.56
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0029 EA 565 MBH Steam, 655 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 780).....	28,125.84	4,712.59
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0030 EA 654 MBH Steam, 758 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 880).....	30,701.68	4,960.62
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0031 EA 743 MBH Steam, 862 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 980).....	32,313.92	5,208.65
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		
23 52 23 00-0032 EA 833 MBH Steam, 965 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1080).....	33,881.27	5,456.68
Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0033	EA	922 MBH Steam, 1069 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	35,322.29	5,704.72
23 52 23 00-0034	EA	1,018 MBH Steam, 1172 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	37,031.42	5,952.75
23 52 23 00-0035		Gas/Oil Fired Package Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
23 52 23 00-0036	EA	209 MBH Steam, 242 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 380)..... Note: Fire tested factory assembled package cast iron unit.	14,882.55	485.59
23 52 23 00-0037	EA	297 MBH Steam, 344 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 480)..... Note: Fire tested factory assembled package cast iron unit.	16,628.63	485.59
23 52 23 00-0038	EA	386 MBH Steam, 448 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 580)..... Note: Fire tested factory assembled package cast iron unit.	18,773.64	606.98
23 52 23 00-0039	EA	476 MBH Steam, 551 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 680)..... Note: Fire tested factory assembled package cast iron unit.	20,653.78	606.98
23 52 23 00-0040	EA	565 MBH Steam, 655 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 780)..... Note: Fire tested factory assembled package cast iron unit.	22,646.72	728.37
23 52 23 00-0041	EA	654 MBH Steam, 758 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 880)..... Note: Fire tested factory assembled package cast iron unit.	24,987.90	728.37
23 52 23 00-0042	EA	743 MBH Steam, 862 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 980)..... Note: Fire tested factory assembled package cast iron unit.	26,832.09	849.77
23 52 23 00-0043	EA	833 MBH Steam, 965 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1080)..... Note: Fire tested factory assembled package cast iron unit.	28,632.12	971.16
23 52 23 00-0044	EA	922 MBH Steam, 1,069 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1180)..... Note: Fire tested factory assembled package cast iron unit.	29,822.33	971.16
23 52 23 00-0045	EA	1,018 MBH Steam, 1,172 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1280)..... Note: Fire tested factory assembled package cast iron unit.	31,761.34	1,092.55
23 52 23 00-0046		Weil-McLain Model 88 Cast Iron Boiler (23 52 23) Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0047		Gas Fired Weil-McLain Model 88 Cast Iron Boiler (23 52 23 00-0046) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0048	EA	629 MBH Steam, 730 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 488)..... Note: Includes field assembly of individual sections and testing.	31,694.56	5,580.70
23 52 23 00-0049	EA	845 MBH Steam, 979 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 588)..... Note: Includes field assembly of individual sections and testing.	35,039.91	5,921.74
23 52 23 00-0050	EA	1072 MBH Steam, 1229 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 688)..... Note: Includes field assembly of individual sections and testing.	39,186.46	6,262.78
23 52 23 00-0051	EA	1,311 MBH Steam, 1,478 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 788)..... Note: Includes field assembly of individual sections and testing.	42,837.10	6,603.82
23 52 23 00-0052	EA	1,543 MBH Steam, 1,728 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 888)..... Note: Includes field assembly of individual sections and testing.	46,008.05	6,944.87
23 52 23 00-0053	EA	1,766 MBH Steam, 1,977 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 988)..... Note: Includes field assembly of individual sections and testing.	50,614.23	7,285.91
23 52 23 00-0054	EA	1,988 MBH Steam, 2,227 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1088)..... Note: Includes field assembly of individual sections and testing.	53,815.29	7,626.95
23 52 23 00-0055	EA	2,211 MBH Steam, 2,477 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1188)..... Note: Includes field assembly of individual sections and testing.	56,644.36	7,967.99
23 52 23 00-0056	EA	2,434 MBH Steam, 2,726 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1288)..... Note: Includes field assembly of individual sections and testing.	60,429.40	8,309.03
23 52 23 00-0057	EA	2,657 MBH Steam, 2,976 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1388)..... Note: Includes field assembly of individual sections and testing.	63,469.08	8,650.08
23 52 23 00-0058	EA	2,880 MBH Steam, 3,225 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1488)..... Note: Includes field assembly of individual sections and testing.	68,393.51	8,991.12
23 52 23 00-0059	EA	3,102 MBH Steam, 3,475 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1588)..... Note: Includes field assembly of individual sections and testing.	71,284.56	9,332.16
23 52 23 00-0060	EA	3,325 MBH Steam, 3,724 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1688)..... Note: Includes field assembly of individual sections and testing.	74,352.49	9,673.20
23 52 23 00-0061	EA	3,548 MBH Steam, 3,974 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1788)..... Note: Includes field assembly of individual sections and testing.	77,773.63	10,014.25
23 52 23 00-0062	EA	3,771 MBH Steam, 4,223 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1888)..... Note: Includes field assembly of individual sections and testing.	80,552.68	10,355.29
23 52 23 00-0063		Gas Fired Package Weil-McLain Model 88 Cast Iron Boiler (23 52 23 00-0046)		
23 52 23 00-0064	EA	629 MBH Steam, 730 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 488)..... Note: Fire tested factory assembled package unit.	25,566.68	849.77
23 52 23 00-0065	EA	845 MBH Steam, 979 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 588)..... Note: Fire tested factory assembled package unit.	28,995.07	971.16
23 52 23 00-0066	EA	1,072 MBH Steam, 1,229 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 688)..... Note: Fire tested factory assembled package unit.	33,244.20	1,092.55
23 52 23 00-0067	EA	1,311 MBH Steam, 1,478 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 788)..... Note: Fire tested factory assembled package unit.	36,961.97	1,213.95
23 52 23 00-0068	EA	1,543 MBH Steam, 1,728 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 888)..... Note: Fire tested factory assembled package unit.	39,728.22	1,213.95
23 52 23 00-0069	EA	1,766 MBH Steam, 1,977 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 988)..... Note: Fire tested factory assembled package unit.	44,422.02	1,335.34
23 52 23 00-0070	EA	1,988 MBH Steam, 2,227 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1088)..... Note: Fire tested factory assembled package unit.	47,222.60	1,335.34
23 52 23 00-0071	EA	2,211 MBH Steam, 2,477 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1188)..... Note: Fire tested factory assembled package unit.	50,134.38	1,456.75



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central Heating Equipment			23 50	
Heating Boilers			23 52	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0072	EA	2,434 MBH Steam, 2,726 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1288)..... Note: Fire tested factory assembled package unit.	53,520.26	1,456.75
23 52 23 00-0073	EA	2,657 MBH Steam, 2,976 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1388)..... Note: Fire tested factory assembled package unit.	56,642.98	1,578.14
23 52 23 00-0074	EA	2,880 MBH Steam, 3,225 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1488)..... Note: Fire tested factory assembled package unit.	59,665.89	1,699.53
23 52 23 00-0075	EA	3,102 MBH Steam, 3,475 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1588)..... Note: Fire tested factory assembled package unit.	62,157.48	1,699.53
23 52 23 00-0076	EA	3,325 MBH Steam, 3,724 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1688)..... Note: Fire tested factory assembled package unit.	65,309.58	1,820.93
23 52 23 00-0077	EA	3,548 MBH Steam, 3,974 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1788)..... Note: Fire tested factory assembled package unit.	68,329.24	1,820.93
23 52 23 00-0078	EA	3,771 MBH Steam, 4,223 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1888)..... Note: Fire tested factory assembled package unit.	71,226.24	1,942.32
23 52 23 00-0079		Gas/Oil Fired Weil-McLain Model 88 Cast Iron Boiler (23 52 23 00-0046) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0080	EA	629 MBH Steam, 730 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 488)..... Note: Includes field assembly of individual sections and testing.	32,832.45	5,580.70
23 52 23 00-0081	EA	845 MBH Steam, 979 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 588)..... Note: Includes field assembly of individual sections and testing.	36,171.26	5,921.74
23 52 23 00-0082	EA	1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 688)..... Note: Includes field assembly of individual sections and testing.	40,612.09	6,262.78
23 52 23 00-0083	EA	1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 788)..... Note: Includes field assembly of individual sections and testing.	44,406.60	6,603.82
23 52 23 00-0084	EA	1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 888)..... Note: Includes field assembly of individual sections and testing.	47,417.33	6,944.87
23 52 23 00-0085	EA	1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 988)..... Note: Includes field assembly of individual sections and testing.	51,935.23	7,285.91
23 52 23 00-0086	EA	1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1088)..... Note: Includes field assembly of individual sections and testing.	55,798.42	7,626.95
23 52 23 00-0087	EA	2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1188)..... Note: Includes field assembly of individual sections and testing.	58,627.50	7,967.99
23 52 23 00-0088	EA	2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1288)..... Note: Includes field assembly of individual sections and testing.	62,373.30	8,309.03
23 52 23 00-0089	EA	2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1388)..... Note: Includes field assembly of individual sections and testing.	66,248.41	8,650.08
23 52 23 00-0090	EA	2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1488)..... Note: Includes field assembly of individual sections and testing.	71,313.44	8,991.12
23 52 23 00-0091	EA	3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1588)..... Note: Includes field assembly of individual sections and testing.	75,187.06	9,332.16
23 52 23 00-0092	EA	3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1688)..... Note: Includes field assembly of individual sections and testing.	77,270.79	9,673.20
23 52 23 00-0093	EA	3,548 MBH Steam, 3,974 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1788)..... Note: Includes field assembly of individual sections and testing.	80,603.64	10,014.25
23 52 23 00-0094	EA	3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1888)..... Note: Includes field assembly of individual sections and testing.	83,413.76	10,355.29
23 52 23 00-0095		Gas/Oil Fired Package Weil-McLain Model 88 Cast Iron Boiler (23 52 23 00-0046)		
23 52 23 00-0096	EA	629 MBH Steam, 730 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 488)..... Note: Fire tested factory assembled package cast iron unit.	26,704.57	849.77
23 52 23 00-0097	EA	845 MBH Steam, 979 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 588)..... Note: Fire tested factory assembled package cast iron unit.	30,126.42	971.16
23 52 23 00-0098	EA	1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 688)..... Note: Fire tested factory assembled package cast iron unit.	34,653.48	1,092.55
23 52 23 00-0099	EA	1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 788)..... Note: Fire tested factory assembled package cast iron unit.	38,531.47	1,213.95
23 52 23 00-0100	EA	1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 888)..... Note: Fire tested factory assembled package cast iron unit.	41,140.77	1,213.95
23 52 23 00-0101	EA	1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 988)..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	45,743.02	1,335.34
23 52 23 00-0102	EA	1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1088)..... Note: Fire tested factory assembled package cast iron unit.	49,205.74	1,335.34
23 52 23 00-0103	EA	2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1188)..... Note: Fire tested factory assembled package cast iron unit.	52,117.52	1,456.75
23 52 23 00-0104	EA	2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1288)..... Note: Fire tested factory assembled package cast iron unit.	55,464.16	1,456.75
23 52 23 00-0105	EA	2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1388)..... Note: Fire tested factory assembled package cast iron unit.	59,430.48	1,578.14
23 52 23 00-0106	EA	2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1488)..... Note: Fire tested factory assembled package cast iron unit.	62,585.82	1,699.53
23 52 23 00-0107	EA	3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1588)..... Note: Fire tested factory assembled package cast iron unit.	64,425.09	1,699.53
23 52 23 00-0108	EA	3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1688)..... Note: Fire tested factory assembled package cast iron unit.	68,227.88	1,820.93
23 52 23 00-0109	EA	3,548 MBh Steam, 3,974 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1788)..... Note: Fire tested factory assembled package cast iron unit.	71,159.25	1,820.93
23 52 23 00-0110	EA	3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1888)..... Note: Fire tested factory assembled package cast iron unit.	74,054.62	1,942.32

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0111		Weil-McLain Model 94 Cast Iron Boiler (23 52 23) Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes fue piping, fuel piping, boiler base or pad.		
23 52 23 00-0112		Gas Fired Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0113	EA	1,584 MBH Steam, 1,784 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-894) Note: Includes field assembly of individual sections and testing.	87,212.74	10,851.36
23 52 23 00-0114	EA	1,800 MBH Steam, 2,050 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-994) Note: Includes field assembly of individual sections and testing.	94,602.14	11,471.43
23 52 23 00-0115	EA	2,024 MBH Steam, 2,310 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1094) Note: Includes field assembly of individual sections and testing.	101,344.91	12,091.51
23 52 23 00-0116	EA	2,249 MBH Steam, 2,571 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1194) Note: Includes field assembly of individual sections and testing.	107,945.65	12,711.59
23 52 23 00-0117	EA	2,474 MBH Steam, 2,834 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1294) Note: Includes field assembly of individual sections and testing.	114,608.21	13,331.67
23 52 23 00-0118	EA	2,703 MBH Steam, 3,098 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1394) Note: Includes field assembly of individual sections and testing.	123,038.21	13,951.75
23 52 23 00-0119	EA	2,928 MBH Steam, 3,362 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1494) Note: Includes field assembly of individual sections and testing.	129,312.09	14,571.82
23 52 23 00-0120	EA	3,154 MBH Steam, 3,628 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1594) Note: Includes field assembly of individual sections and testing.	135,380.58	15,191.90
23 52 23 00-0121	EA	3,378 MBH Steam, 3,894 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1694) Note: Includes field assembly of individual sections and testing.	145,299.45	15,811.97
23 52 23 00-0122	EA	3,604 MBH Steam, 4,162 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1794) Note: Includes field assembly of individual sections and testing.	151,364.44	16,432.05
23 52 23 00-0123	EA	3,834 MBH Steam, 4,430 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1894) Note: Includes field assembly of individual sections and testing.	156,558.02	17,052.12
23 52 23 00-0124	EA	4,059 MBH Steam, 4,700 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1994) Note: Includes field assembly of individual sections and testing.	166,128.87	17,672.20
23 52 23 00-0125	EA	4,285 MBH Steam, 4,970 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2094) Note: Includes field assembly of individual sections and testing.	172,244.84	18,292.28
23 52 23 00-0126	EA	4,510 MBH Steam, 5,241 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2194) Note: Includes field assembly of individual sections and testing.	182,037.00	18,912.36
23 52 23 00-0127	EA	4,781 MBH Steam, 5,568 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2294) Note: Includes field assembly of individual sections and testing.	188,478.80	19,532.44
23 52 23 00-0128	EA	4,961 MBH Steam, 5,787 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2394) Note: Includes field assembly of individual sections and testing.	195,533.53	20,152.51
23 52 23 00-0129	EA	5,232 MBH Steam, 6,117 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2494) Note: Includes field assembly of individual sections and testing.	201,583.74	20,772.59
23 52 23 00-0130	EA	5,413 MBH Steam, 6,338 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2594) Note: Includes field assembly of individual sections and testing.	207,809.79	21,392.67
23 52 23 00-0131		Gas Fired Package Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)		
23 52 23 00-0132	EA	1,584 MBH Steam, 1,784 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-894) Note: Fire tested factory assembled package cast iron unit.	78,763.17	1,578.14
23 52 23 00-0133	EA	1,800 MBH Steam, 2,050 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-994) Note: Fire tested factory assembled package cast iron unit.	85,914.21	1,699.53
23 52 23 00-0134	EA	2,024 MBH Steam, 2,310 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1094) Note: Fire tested factory assembled package cast iron unit.	92,414.59	1,820.93
23 52 23 00-0135	EA	2,249 MBH Steam, 2,571 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1194) Note: Fire tested factory assembled package cast iron unit.	98,777.57	1,942.32
23 52 23 00-0136	EA	2,474 MBH Steam, 2,834 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1294) Note: Fire tested factory assembled package cast iron unit.	104,712.26	1,942.32
23 52 23 00-0137	EA	2,703 MBH Steam, 3,098 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1394) Note: Fire tested factory assembled package cast iron unit.	110,921.74	2,063.71
23 52 23 00-0138	EA	2,928 MBH Steam, 3,362 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1494) Note: Fire tested factory assembled package cast iron unit.	116,468.95	2,063.71
23 52 23 00-0139	EA	3,154 MBH Steam, 3,628 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1594) Note: Fire tested factory assembled package cast iron unit.	122,297.33	2,185.11
23 52 23 00-0140	EA	3,378 MBH Steam, 3,894 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1694) Note: Fire tested factory assembled package cast iron unit.	131,490.38	2,185.11
23 52 23 00-0141	EA	3,604 MBH Steam, 4,162 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1794) Note: Fire tested factory assembled package cast iron unit.	137,317.11	2,306.50
23 52 23 00-0142	EA	3,834 MBH Steam, 4,430 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1894) Note: Fire tested factory assembled package cast iron unit.	141,783.65	2,306.50
23 52 23 00-0143	EA	4,059 MBH Steam, 4,700 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1994) Note: Fire tested factory assembled package cast iron unit.	151,117.38	2,427.91
23 52 23 00-0144	EA	4,285 MBH Steam, 4,970 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2094) Note: Fire tested factory assembled package cast iron unit.	156,506.01	2,427.91
23 52 23 00-0145	EA	4,510 MBH Steam, 5,241 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2194) Note: Fire tested factory assembled package cast iron unit.	166,088.25	2,549.30
23 52 23 00-0146	EA	4,781 MBH Steam, 5,568 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2294) Note: Fire tested factory assembled package cast iron unit.	171,772.80	2,549.30
23 52 23 00-0147	EA	4,961 MBH Steam, 5,787 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2394) Note: Fire tested factory assembled package cast iron unit.	178,585.44	2,670.69
23 52 23 00-0148	EA	5,232 MBH Steam, 6,117 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2494) Note: Fire tested factory assembled package cast iron unit.	183,910.30	2,670.69
23 52 23 00-0149	EA	5,413 MBH Steam, 6,338 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2594) Note: Fire tested factory assembled package cast iron unit.	189,895.63	2,792.09



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Heating Boilers			23 52

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0150 Oil Fired Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0151 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-894) Note: Includes field assembly of individual sections and testing.	82,334.19	10,851.36
23 52 23 00-0152 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-994) Note: Includes field assembly of individual sections and testing.	89,723.60	11,471.43
23 52 23 00-0153 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1094) Note: Includes field assembly of individual sections and testing.	98,725.80	12,091.51
23 52 23 00-0154 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1194) Note: Includes field assembly of individual sections and testing.	104,736.34	12,711.59
23 52 23 00-0155 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1294) Note: Includes field assembly of individual sections and testing.	110,996.72	13,331.67
23 52 23 00-0156 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1394) Note: Includes field assembly of individual sections and testing.	118,977.11	13,951.75
23 52 23 00-0157 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1494) Note: Includes field assembly of individual sections and testing.	125,555.09	14,571.82
23 52 23 00-0158 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1594) Note: Includes field assembly of individual sections and testing.	131,626.85	15,191.90
23 52 23 00-0159 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1694) Note: Includes field assembly of individual sections and testing.	142,713.04	15,811.97
23 52 23 00-0160 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1794) Note: Includes field assembly of individual sections and testing.	148,779.66	16,432.05
23 52 23 00-0161 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1894) Note: Includes field assembly of individual sections and testing.	154,844.64	17,052.12
23 52 23 00-0162 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1994) Note: Includes field assembly of individual sections and testing.	166,140.32	17,672.20
23 52 23 00-0163 EA 4,285 MBH Steam, 4,970 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2094) Note: Includes field assembly of individual sections and testing.	172,256.28	18,292.28
23 52 23 00-0164 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2194) Note: Includes field assembly of individual sections and testing.	182,311.66	18,912.36
23 52 23 00-0165 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2294) Note: Includes field assembly of individual sections and testing.	188,751.83	19,532.44
23 52 23 00-0166 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2394) Note: Includes field assembly of individual sections and testing.	195,665.96	20,152.51
23 52 23 00-0167 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2494) Note: Includes field assembly of individual sections and testing.	201,716.16	20,772.59
23 52 23 00-0168 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2594) Note: Includes field assembly of individual sections and testing.	207,952.03	21,392.67
23 52 23 00-0169 Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)		
23 52 23 00-0170 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-894) Note: Fire tested factory assembled package cast iron unit.	73,619.78	1,578.14
23 52 23 00-0171 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-994) Note: Fire tested factory assembled package cast iron unit.	80,770.82	1,699.53
23 52 23 00-0172 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094) Note: Fire tested factory assembled package cast iron unit.	89,530.62	1,820.93
23 52 23 00-0173 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194) Note: Fire tested factory assembled package cast iron unit.	95,303.41	1,942.32
23 52 23 00-0174 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294) Note: Fire tested factory assembled package cast iron unit.	100,835.91	1,942.32
23 52 23 00-0175 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394) Note: Fire tested factory assembled package cast iron unit.	106,595.79	2,063.71
23 52 23 00-0176 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494) Note: Fire tested factory assembled package cast iron unit.	112,447.10	2,063.71
23 52 23 00-0177 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594) Note: Fire tested factory assembled package cast iron unit.	118,275.48	2,185.11
23 52 23 00-0178 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694) Note: Fire tested factory assembled package cast iron unit.	128,639.11	2,185.11
23 52 23 00-0179 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794) Note: Fire tested factory assembled package cast iron unit.	134,464.20	2,306.50
23 52 23 00-0180 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894) Note: Fire tested factory assembled package cast iron unit.	139,805.42	2,306.50
23 52 23 00-0181 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994) Note: Fire tested factory assembled package cast iron unit.	150,863.97	2,427.91
23 52 23 00-0182 EA 4,285 MBH Steam, 4,970 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094) Note: Fire tested factory assembled package cast iron unit.	156,252.60	2,427.91
23 52 23 00-0183 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194) Note: Fire tested factory assembled package cast iron unit.	166,065.37	2,549.30
23 52 23 00-0184 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294) Note: Fire tested factory assembled package cast iron unit.	171,780.98	2,549.30
23 52 23 00-0185 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394) Note: Fire tested factory assembled package cast iron unit.	178,453.01	2,670.69
23 52 23 00-0186 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494) Note: Fire tested factory assembled package cast iron unit.	183,777.88	2,670.69
23 52 23 00-0187 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594) Note: Fire tested factory assembled package cast iron unit.	189,773.01	2,792.09
23 52 23 00-0188 Gas/Oil Fired Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0189 EA 1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-894) Note: Includes field assembly of individual sections and testing.	88,746.27	10,851.36

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0190 EA 1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-994).....	96,137.31	11,471.43
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0191 EA 2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1094).....	103,298.61	12,091.51
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0192 EA 2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1194).....	110,064.48	12,711.59
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0193 EA 2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1294).....	116,689.44	13,331.67
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0194 EA 2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1394).....	123,806.61	13,951.75
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0195 EA 2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1494).....	131,864.17	14,571.82
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0196 EA 3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1594).....	138,334.85	15,191.90
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0197 EA 3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1694).....	148,510.39	15,811.97
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0198 EA 3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1794).....	154,575.38	16,432.05
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0199 EA 3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1894).....	159,883.41	17,052.12
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0200 EA 4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1994).....	169,565.43	17,672.20
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0201 EA 4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2094).....	177,316.30	18,292.28
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0202 EA 4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2194).....	187,984.76	18,912.36
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0203 EA 4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2294).....	194,377.52	19,532.44
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0204 EA 4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2394).....	201,736.34	20,152.51
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0205 EA 5,232 MBH Steam, 6,117 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2494).....	207,788.18	20,772.59
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0206 EA 5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2594).....	214,019.14	21,392.67
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0207 Gas/Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)		
23 52 23 00-0208 EA 1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-894).....	80,416.06	1,578.14
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0209 EA 1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-994).....	87,568.73	1,699.53
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0210 EA 2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094).....	94,492.55	1,820.93
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0211 EA 2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194).....	101,017.39	1,942.32
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0212 EA 2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294).....	106,914.47	1,942.32
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0213 EA 2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394).....	111,809.49	2,063.71
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0214 EA 2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494).....	119,140.38	2,063.71
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0215 EA 3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594).....	125,369.31	2,185.11
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0216 EA 3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694).....	134,822.30	2,185.11
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0217 EA 3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794).....	140,645.76	2,306.50
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0218 EA 3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894).....	145,228.39	2,306.50
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0219 EA 4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994).....	154,673.29	2,427.91
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0220 EA 4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094).....	161,698.45	2,427.91
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0221 EA 4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194).....	172,124.31	2,549.30
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0222 EA 4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294).....	177,792.50	2,549.30
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0223 EA 4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394).....	184,907.59	2,670.69
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0224 EA 5,232 MBH Steam, 6,117 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494).....	190,234.10	2,670.69
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0225 EA 5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594).....	196,225.96	2,792.09
Note: Fire tested factory assembled package cast iron unit.		
23 52 33 Water-Tube Boilers (23 52)		
23 52 33 13 Finned Water-Tube Boilers (23 52 33)		
23 52 33 13-0001 Laars Pennant 85% Efficient Water, Gas Fired, Copper Fin Tube LoNox Boiler (23 52 33 13)		
Note: Rated by gross rated output.		
23 52 33 13-0002 EA 200 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	9,025.97	660.07
23 52 33 13-0003 EA 300 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	9,934.25	733.41

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Central Heating Equipment

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Heating Boilers

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 13-0004	EA	400 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	11,419.70	880.09
23 52 33 13-0005	EA	500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	14,545.51	916.76
23 52 33 13-0006	EA	750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	17,092.33	1,100.11
23 52 33 13-0007	EA	1,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	20,996.59	1,320.13
23 52 33 13-0008	EA	1,250 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	23,830.81	1,393.48
23 52 33 13-0009	EA	1,500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	26,389.38	1,503.49
23 52 33 13-0010	EA	1,750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	28,763.61	1,576.83
23 52 33 13-0011	EA	2,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	30,850.03	1,613.50
23 52 33 13-0012 Patterson Kelly Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler				
<i>(23 52 33 13)</i>				
Note: Rated by gross rated output.				
23 52 33 13-0013	EA	1,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire)	31,312.40	1,320.13
23 52 33 13-0014	EA	1,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire)	39,080.00	1,503.49
23 52 33 13-0015	EA	2,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire)	41,644.94	1,613.50
23 52 33 13-0016	EA	2,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire)	58,836.70	1,833.52
23 52 33 13-0017	EA	3,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire)	61,738.18	2,053.55
23 52 33 13-0018 Lochinvar Copper-Fin II Finned Tube Boiler				
<i>(23 52 33 13)</i>				
Note: Rated by gross rated output.				
23 52 33 13-0019	EA	340 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0402).....	14,700.44	592.28
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>			551.17	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>			488.26	
23 52 33 13-0020	EA	425 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0502).....	17,640.18	740.08
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>			551.17	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>			488.26	
23 52 33 13-0021	EA	552.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0652).....	18,905.42	888.98
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>			551.17	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>			488.26	
23 52 33 13-0022	EA	637.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0752).....	19,431.12	888.98
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>			551.17	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>			488.26	
23 52 33 13-0023	EA	841.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0992).....	24,101.32	1,111.23
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>			551.17	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>			488.26	
23 52 33 13-0024	EA	1,071 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1262).....	27,959.49	1,111.23
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>			551.17	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>			488.26	
23 52 33 13-0025	EA	1,224 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1442).....	30,511.63	1,111.23
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>			551.17	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>			488.26	
23 52 33 13-0026	EA	1,530 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1802).....	32,852.84	1,333.48
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>			551.17	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>			488.26	
23 52 33 13-0027	EA	1,759.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN2072).....	38,862.01	1,555.71
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>			551.17	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>			488.26	
23 52 33 13-0028 Raypak Cupro-Nickel Finned-Tube Boiler With Pump				
<i>(23 52 33 13)</i>				
Note: Rated by gross rated output.				
23 52 33 13-0029	EA	385 MBH Water, Gas Fired, On/Off, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H4-399B).....	14,104.36	814.08
23 52 33 13-0030	EA	420 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-499B)	15,182.13	733.41
23 52 33 13-0031	EA	546 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-649B)	16,904.46	880.09
23 52 33 13-0032	EA	630 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-749B)	17,936.84	999.10
23 52 33 13-0033	EA	756 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-899B)	19,924.53	1,100.11
23 52 33 13-0034	EA	832 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-989B)	21,433.47	1,184.12
23 52 33 13-0035	EA	1,058 MBH Water, Gas Fired, Three Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H8-1259B).....	24,496.74	1,320.13
23 52 33 13-0036	EA	1,285 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1529B).....	28,520.06	1,393.48
23 52 33 13-0037	EA	1,512 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1799B).....	30,251.31	1,503.49
23 52 33 13-0038	EA	1,679 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1999B).....	36,264.88	1,540.16
23 52 33 13-0039	EA	1,739 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2069B).....	36,376.01	1,576.83
23 52 33 13-0040	EA	1,966 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2339B).....	42,655.09	1,613.50
23 52 33 16 Steel Water-Tube Boilers				
<i>(23 52 33)</i>				
23 52 33 16-0001 Unilux 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler				
<i>(23 52 33 16)</i>				
Note: Compliant with SCAQMD.				
23 52 33 16-0002	EA	1,250 MBH Input/1,062 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF100).....	92,524.94	1,777.96
23 52 33 16-0003	EA	1,750 MBH Input/1,488 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF150).....	99,435.73	2,222.46
23 52 33 16-0004	EA	2,200 MBH Input/1,870 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF200).....	208,249.17	2,444.70
23 52 33 16-0005	EA	2,750 MBH Input/2,338 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF250).....	216,052.33	2,666.94
23 52 33 16-0006	EA	3,000 MBH Input/2,550 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF300).....	219,729.96	3,000.31

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 16-0007	EA	3,750 MBH Input/3,188 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ350).....	231,433.54	3,333.68	
23 52 33 16-0008	EA	4,300 MBH Input/3,655 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ400).....	236,673.17	3,444.80	
23 52 33 16-0009 Unilux 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (23 52 33 16)					
Note: Compliant with SCAQMD.					
23 52 33 16-0010	EA	1,250 MBH, 31 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF100LSG).....	108,021.59	2,000.21	
23 52 33 16-0011	EA	1,750 MBH, 43.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF150LSG).....	113,370.90	2,333.57	
23 52 33 16-0012	EA	2,200 MBH, 54.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF200LSG).....	223,523.56	2,555.82	
23 52 33 16-0013	EA	2,750 MBH, 68 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF250LSG).....	237,346.18	2,778.07	
23 52 33 16-0014	EA	3,000 MBH, 74 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF300LSG).....	242,138.45	3,000.31	
23 52 33 16-0015	EA	3,750 MBH, 93 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF350LSG).....	251,500.74	3,333.68	
23 52 33 16-0016	EA	4,300 MBH, 106.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF400LSG).....	259,980.54	3,555.92	
23 52 33 16-0017	EA	5,400 MBH, 134 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF500LSG).....	256,067.88	3,778.17	
23 52 33 16-0018	EA	6,250 MBH, 155 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF600LSG).....	277,249.18	4,000.42	
23 52 33 16-0019	EA	7,235 MBH, 179 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF700LSG).....	291,741.41	4,222.66	
23 52 33 16-0020	EA	8,270 MBH, 205 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF800LSG).....	299,209.77	4,444.91	
23 52 33 16-0021 Unilux 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (23 52 33 16)					
Note: Compliant with SCAQMD.					
23 52 33 16-0022	EA	1,250 MBH, 31 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100HS).....	116,382.34	2,000.21	
23 52 33 16-0023	EA	1,750 MBH, 43.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150HS).....	123,405.67	2,333.57	
23 52 33 16-0024	EA	2,200 MBH, 54.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200HS).....	234,895.21	2,555.82	
23 52 33 16-0025	EA	2,750 MBH, 68 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250HS).....	249,052.63	2,778.07	
23 52 33 16-0026	EA	3,000 MBH, 74 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300HS).....	253,844.90	3,000.31	
23 52 33 16-0027	EA	3,750 MBH, 93 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350HS).....	261,535.51	3,333.68	
23 52 33 16-0028	EA	4,300 MBH, 106.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400HS).....	270,343.08	3,555.92	
23 52 33 16-0029	EA	5,400 MBH, 134 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500HS).....	265,767.85	3,778.17	
23 52 33 16-0030	EA	6,250 MBH, 155 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600HS).....	288,623.17	4,000.42	
23 52 33 16-0031	EA	7,235 MBH, 179 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700HS).....	297,763.21	4,222.66	
23 52 33 16-0032	EA	8,270 MBH, 205 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800HS).....	310,583.76	4,444.91	
23 52 33 16-0033	EA	9,300 MBH, 230 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 900HS).....	345,478.00	4,667.15	
23 52 33 16-0034	EA	10,330 MBH, 256 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1000HS).....	500,279.05	4,889.40	
23 52 33 16-0035	EA	12,400 MBH, 307 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1200HS).....	525,641.89	5,111.64	
23 52 36 Fire-Box Boiler (23 52)					
23 52 36 00-0001 Package Oil Fired Firebox Boilers (23 52 36)					
Note: Prices are good for 15 PSI steam or 30 PSI water. Packaged type, complete with burner and all basic safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Normally required (Boiler HP) boiler sizes are based on HP rating and gross output.					
23 52 36 00-0002	EA	40 HP, 1,339 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	91,621.27	2,913.48	
23 52 36 00-0003	EA	46 HP, 1,553 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	95,779.02	3,156.27	
23 52 36 00-0004	EA	53 HP, 1,784 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	100,270.53	3,399.07	
23 52 36 00-0005	EA	61 HP, 2,062 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	108,434.20	3,641.85	
23 52 36 00-0006	EA	69 HP, 2,313 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	113,259.51	3,884.64	
23 52 36 00-0007	EA	80 HP, 2,678 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	118,001.53	4,127.43	
23 52 36 00-0008	EA	100 HP, 3,348 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	131,272.75	4,370.23	
23 52 36 00-0009	EA	127 HP, 4,251 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	151,923.19	4,855.80	
23 52 36 00-0010	EA	151 HP, 5,055 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	172,924.22	5,341.39	
23 52 36 00-0011	EA	183 HP, 6,126 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	189,706.66	5,887.67	
23 52 36 00-0012	EA	220 HP, 7,388 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	206,489.23	6,433.94	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Central Heating Equipment

23 50

Heating Boilers

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23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 36 00-0013 EA 257 HP, 8,606 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	217,020.27	7,526.50
23 52 36 00-0014 EA 294 HP, 9,842 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	264,522.75	8,619.05
23 52 36 00-0015 EA 368 HP, 12,302 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	313,193.62	9,711.61
23 52 36 00-0016 EA 441 HP, 14,766 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	362,357.72	10,925.56
23 52 36 00-0017 EA 514 HP, 17,220 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	410,414.03	11,836.02
23 52 39 Fire-Tube Boilers (23 52)		
23 52 39 13 Scotch Marine Boilers (23 52 39)		
23 52 39 13-0001 15 PSI Steam Scotch Marine Boilers (23 52 39 13)		
Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.		
23 52 39 13-0002 15 PSI Gas Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		
23 52 39 13-0003 EA 30 HP, 1,033 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	72,994.14	1,335.34
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0004 EA 40 HP, 1,339 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	78,568.76	1,456.75
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0005 EA 50 HP, 1,674 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	85,336.25	1,578.14
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0006 EA 60 HP, 2,009 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	89,138.83	1,820.93
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0007 EA 70 HP, 2,343 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	93,398.06	1,942.32
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0008 EA 80 HP, 2,678 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	97,765.12	2,063.71
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0009 EA 90 HP, 3,013 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	100,783.07	2,124.42
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0010 EA 100 HP, 3,348 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	106,399.08	2,185.11
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0011 EA 125 HP, 4,184 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	120,307.54	2,427.91
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0012 EA 150 HP, 5,021 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	136,721.22	2,670.69
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0013 EA 175 HP, 5,858 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	149,962.16	2,943.83
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0014 EA 200 HP, 6,695 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	163,200.62	3,216.97
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0015 EA 250 HP, 8,369 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	172,085.95	3,763.25
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0016 EA 300 HP, 10,043 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	209,325.21	4,309.53
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0017 EA 350 HP, 11,716 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	226,582.02	4,855.80
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0018 EA 400 HP, 13,390 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	266,830.20	5,402.08
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0019 EA 500 HP, 16,738 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	324,171.51	5,948.36
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0020 EA 600 HP, 20,085 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	379,305.53	6,494.63
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0021 EA 700 HP, 23,433 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	432,089.62	7,040.91
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0022 EA 800 HP, 26,780 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	482,751.86	7,587.20
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0023 EA 900 HP, 30,128 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	752,179.70	8,133.48
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0024 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler	818,423.69	8,679.75
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0025 15 PSI Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		
23 52 39 13-0026 EA 30 HP, 1,033 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler	67,638.67	1,335.34
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0027 EA 40 HP, 1,339 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler	72,810.19	1,456.75
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0028 EA 50 HP, 1,674 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler	79,076.94	1,578.14
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0029 EA 60 HP, 2,009 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler	86,144.37	1,820.93
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0030 EA 70 HP, 2,343 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler	89,866.13	1,942.32
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0031 EA 80 HP, 2,678 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler	93,582.23	2,063.71
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0032 EA 90 HP, 3,013 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler	97,064.21	2,124.42
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0033 EA 100 HP, 3,348 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler	104,018.87	2,185.11
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0034 EA 125 HP, 4,184 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler	120,421.04	2,427.91
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0035 EA 150 HP, 5,021 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler	136,844.74	2,670.69
Note: Burnham Series 3. Fire tested factory assembled unit.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0036 EA 175 HP, 5,858 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	150,099.03	2,943.83
23 52 39 13-0037 EA 200 HP, 6,695 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	163,350.84	3,216.97
23 52 39 13-0038 EA 250 HP, 8,369 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	172,242.85	3,763.25
23 52 39 13-0039 EA 300 HP, 10,043 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	209,518.83	4,309.53
23 52 39 13-0040 EA 350 HP, 11,716 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	226,788.99	4,855.80
23 52 39 13-0041 EA 400 HP, 13,390 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	267,077.24	5,402.08
23 52 39 13-0042 EA 500 HP, 16,738 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	324,471.96	5,948.36
23 52 39 13-0043 EA 600 HP, 20,085 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	379,659.39	6,494.63
23 52 39 13-0044 EA 700 HP, 23,433 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	432,493.56	7,040.91
23 52 39 13-0045 EA 800 HP, 26,780 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	483,205.87	7,587.20
23 52 39 13-0046 EA 900 HP, 30,128 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	752,897.39	8,133.48
23 52 39 13-0047 EA 1,000 HP, 33,476 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	819,208.82	8,679.75
23 52 39 13-0048 15 PSI Gas/Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		
23 52 39 13-0049 EA 30 HP, 1,033 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	75,338.13	1,335.34
23 52 39 13-0050 EA 40 HP, 1,339 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	81,089.17	1,456.75
23 52 39 13-0051 EA 50 HP, 1,674 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	88,070.32	1,578.14
23 52 39 13-0052 EA 60 HP, 2,009 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	92,537.22	1,820.93
23 52 39 13-0053 EA 70 HP, 2,343 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	96,522.70	1,942.32
23 52 39 13-0054 EA 80 HP, 2,678 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	100,502.52	2,063.71
23 52 39 13-0055 EA 90 HP, 3,013 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	104,244.89	2,124.42
23 52 39 13-0056 EA 100 HP, 3,348 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	107,988.11	2,185.11
23 52 39 13-0057 EA 125 HP, 4,184 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	125,034.57	2,427.91
23 52 39 13-0058 EA 150 HP, 5,021 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	142,102.56	2,670.69
23 52 39 13-0059 EA 175 HP, 5,858 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	155,864.27	2,943.83
23 52 39 13-0060 EA 200 HP, 6,695 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	169,620.17	3,216.97
23 52 39 13-0061 EA 250 HP, 8,369 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	178,792.60	3,763.25
23 52 39 13-0062 EA 300 HP, 10,043 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	217,530.75	4,309.53
23 52 39 13-0063 EA 350 HP, 11,716 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	235,428.51	4,855.80
23 52 39 13-0064 EA 400 HP, 13,390 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	277,305.79	5,402.08
23 52 39 13-0065 EA 500 HP, 16,738 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	337,000.60	5,948.36
23 52 39 13-0066 EA 600 HP, 20,085 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	394,394.64	6,494.63
23 52 39 13-0067 EA 700 HP, 23,433 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	449,341.96	7,040.91
23 52 39 13-0068 EA 800 HP, 26,780 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	502,073.94	7,587.20
23 52 39 13-0069 EA 900 HP, 30,128 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	782,915.06	8,133.48
23 52 39 13-0070 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	851,894.94	8,679.75
23 52 39 13-0071 125 PSI Water Scotch Marine Boilers (23 52 39 13) Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.		
23 52 39 13-0072 125 PSI Gas Fired Water Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0073 EA 40 HP, 1,339 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	86,430.45	1,456.75
23 52 39 13-0074 EA 50 HP, 1,674 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	97,000.27	1,578.14



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central Heating Equipment			23 50	
Heating Boilers			23 52	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0075	EA	60 HP, 2,009 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	104,191.22	1,820.93
23 52 39 13-0076	EA	70 HP, 2,343 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	112,002.40	1,942.32
23 52 39 13-0077	EA	80 HP, 2,678 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	119,978.16	2,063.71
23 52 39 13-0078	EA	90 HP, 3,013 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	126,327.75	2,124.42
23 52 39 13-0079	EA	100 HP, 3,348 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	136,029.83	2,185.11
23 52 39 13-0080	EA	125 HP, 4,184 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	145,928.99	2,427.91
23 52 39 13-0081	EA	150 HP, 5,021 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	159,084.49	2,670.69
23 52 39 13-0082	EA	175 HP, 5,858 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	169,210.80	2,943.83
23 52 39 13-0083	EA	200 HP, 6,695 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	175,171.76	3,216.97
23 52 39 13-0084	EA	250 HP, 8,369 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	212,072.11	3,763.25
23 52 39 13-0085	EA	300 HP, 10,043 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	246,927.82	4,309.53
23 52 39 13-0086	EA	350 HP, 11,716 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	266,120.84	4,855.80
23 52 39 13-0087	EA	400 HP, 13,390 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	296,924.98	5,402.08
23 52 39 13-0088	EA	500 HP, 16,738 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	359,877.97	5,948.36
23 52 39 13-0089	EA	600 HP, 20,085 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	421,298.00	6,494.63
23 52 39 13-0090	EA	700 HP, 23,433 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	480,101.05	7,040.91
23 52 39 13-0091	EA	800 HP, 26,780 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	536,525.19	7,587.20
23 52 39 13-0092	EA	900 HP, 30,128 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	837,719.47	8,133.48
23 52 39 13-0093	EA	1,000 HP, 33,476 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	911,573.85	8,679.75
23 52 39 13-0094 125 PSI Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)				
23 52 39 13-0095	EA	40 HP, 1,339 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	80,047.62	1,456.75
23 52 39 13-0096	EA	50 HP, 1,674 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	89,816.25	1,578.14
23 52 39 13-0097	EA	60 HP, 2,009 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	100,642.61	1,820.93
23 52 39 13-0098	EA	70 HP, 2,343 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	107,706.01	1,942.32
23 52 39 13-0099	EA	80 HP, 2,678 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	114,760.40	2,063.71
23 52 39 13-0100	EA	90 HP, 3,013 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	121,577.34	2,124.42
23 52 39 13-0101	EA	100 HP, 3,348 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	132,925.21	2,185.11
23 52 39 13-0102	EA	125 HP, 4,184 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	146,065.86	2,427.91
23 52 39 13-0103	EA	150 HP, 5,021 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	159,231.38	2,670.69
23 52 39 13-0104	EA	175 HP, 5,858 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	169,367.70	2,943.83
23 52 39 13-0105	EA	200 HP, 6,695 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	175,335.34	3,216.97
23 52 39 13-0106	EA	250 HP, 8,369 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	212,269.07	3,763.25
23 52 39 13-0107	EA	300 HP, 10,043 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	247,158.16	4,309.53
23 52 39 13-0108	EA	350 HP, 11,716 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	266,367.87	4,855.80
23 52 39 13-0109	EA	400 HP, 13,390 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	297,202.06	5,402.08
23 52 39 13-0110	EA	500 HP, 16,738 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	360,215.14	5,948.36
23 52 39 13-0111	EA	600 HP, 20,085 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	421,695.26	6,494.63
23 52 39 13-0112	EA	700 HP, 23,433 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	480,555.06	7,040.91
23 52 39 13-0113	EA	800 HP, 26,780 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	537,032.62	7,587.20
23 52 39 13-0114	EA	900 HP, 30,128 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	838,523.86	8,133.48
23 52 39 13-0115	EA	1,000 HP, 33,476 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	912,450.49	8,679.75

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0116			125 PSI Gas/Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0117	EA		40 HP, 1,339 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	89,221.27	1,456.75
23 52 39 13-0118	EA		50 HP, 1,674 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	100,138.27	1,578.14
23 52 39 13-0119	EA		60 HP, 2,009 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	108,213.87	1,820.93
23 52 39 13-0120	EA		70 HP, 2,343 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	115,808.06	1,942.32
23 52 39 13-0121	EA		80 HP, 2,678 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	123,396.58	2,063.71
23 52 39 13-0122	EA		90 HP, 3,013 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	130,747.65	2,124.42
23 52 39 13-0123	EA		100 HP, 3,348 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	138,099.57	2,185.11
23 52 39 13-0124	EA		125 HP, 4,184 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	151,747.64	2,427.91
23 52 39 13-0125	EA		150 HP, 5,021 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	165,420.58	2,670.69
23 52 39 13-0126	EA		175 HP, 5,858 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	175,934.13	2,943.83
23 52 39 13-0127	EA		200 HP, 6,695 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	182,105.41	3,216.97
23 52 39 13-0128	EA		250 HP, 8,369 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	220,487.96	3,763.25
23 52 39 13-0129	EA		300 HP, 10,043 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	256,739.08	4,309.53
23 52 39 13-0130	EA		350 HP, 11,716 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	276,656.52	4,855.80
23 52 39 13-0131	EA		400 HP, 13,390 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	308,685.81	5,402.08
23 52 39 13-0132	EA		500 HP, 16,738 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	374,236.00	5,948.36
23 52 39 13-0133	EA		600 HP, 20,085 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	438,183.13	6,494.63
23 52 39 13-0134	EA		700 HP, 23,433 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	499,406.44	7,040.91
23 52 39 13-0135	EA		800 HP, 26,780 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	558,144.02	7,587.20
23 52 39 13-0136	EA		900 HP, 30,128 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	872,110.71	8,133.48
23 52 39 13-0137	EA		1,000 HP, 33,476 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	949,018.88	8,679.75
23 52 39 13-0138			150 PSI Steam Scotch Marine Boilers (23 52 39 13) Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.		
23 52 39 13-0139			150 PSI Gas Fired Steam Scotch Marine Boilers (23 52 39 13-0138)		
23 52 39 13-0140	EA		40 HP, 1,339 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	100,391.22	1,456.75
23 52 39 13-0141	EA		50 HP, 1,674 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	109,041.52	1,578.14
23 52 39 13-0142	EA		60 HP, 2,009 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	113,695.36	1,820.93
23 52 39 13-0143	EA		70 HP, 2,343 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	119,086.27	1,942.32
23 52 39 13-0144	EA		80 HP, 2,678 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	124,618.40	2,063.71
23 52 39 13-0145	EA		90 HP, 3,013 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	128,470.93	2,124.42
23 52 39 13-0146	EA		100 HP, 3,348 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	135,699.34	2,185.11
23 52 39 13-0147	EA		125 HP, 4,184 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	153,490.24	2,427.91
23 52 39 13-0148	EA		150 HP, 5,021 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	174,530.81	2,670.69
23 52 39 13-0149	EA		175 HP, 5,858 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	191,417.17	2,943.83
23 52 39 13-0150	EA		200 HP, 6,695 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	208,301.05	3,216.97
23 52 39 13-0151	EA		250 HP, 8,369 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	219,196.04	3,763.25
23 52 39 13-0152	EA		300 HP, 10,043 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	266,954.28	4,309.53
23 52 39 13-0153	EA		350 HP, 11,716 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	288,707.19	4,855.80
23 52 39 13-0154	EA		400 HP, 13,390 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	340,403.00	5,402.08
23 52 39 13-0155	EA		500 HP, 16,738 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	414,295.60	5,948.36

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Central Heating Equipment

23 50

Heating Boilers

23 52

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0156 EA 600 HP, 20,085 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	485,293.22	6,494.63
23 52 39 13-0157 EA 700 HP, 23,433 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	553,269.91	7,040.91
23 52 39 13-0158 EA 800 HP, 26,780 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	618,473.78	7,587.20
23 52 39 13-0159 EA 900 HP, 30,128 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	968,078.64	8,133.48
23 52 39 13-0160 EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	1,053,512.37	8,679.75
23 52 39 13-0161 150 PSI Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0138)		
23 52 39 13-0162 EA 40 HP, 1,339 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	92,903.42	1,456.75
23 52 39 13-0163 EA 50 HP, 1,674 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	100,906.08	1,578.14
23 52 39 13-0164 EA 60 HP, 2,009 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	109,799.56	1,820.93
23 52 39 13-0165 EA 70 HP, 2,343 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	114,496.11	1,942.32
23 52 39 13-0166 EA 80 HP, 2,678 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	119,183.65	2,063.71
23 52 39 13-0167 EA 90 HP, 3,013 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	123,633.74	2,124.42
23 52 39 13-0168 EA 100 HP, 3,348 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	132,601.39	2,185.11
23 52 39 13-0169 EA 125 HP, 4,184 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	153,633.78	2,427.91
23 52 39 13-0170 EA 150 HP, 5,021 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	174,694.38	2,670.69
23 52 39 13-0171 EA 175 HP, 5,858 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	191,597.44	2,943.83
23 52 39 13-0172 EA 200 HP, 6,695 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	208,498.01	3,216.97
23 52 39 13-0173 EA 250 HP, 8,369 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	219,399.68	3,763.25
23 52 39 13-0174 EA 300 HP, 10,043 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	267,204.65	4,309.53
23 52 39 13-0175 EA 350 HP, 11,716 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	288,977.59	4,855.80
23 52 39 13-0176 EA 400 HP, 13,390 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	340,723.48	5,402.08
23 52 39 13-0177 EA 500 HP, 16,738 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	414,686.18	5,948.36
23 52 39 13-0178 EA 600 HP, 20,085 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	485,753.90	6,494.63
23 52 39 13-0179 EA 700 HP, 23,433 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	553,794.02	7,040.91
23 52 39 13-0180 EA 800 HP, 26,780 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	619,061.32	7,587.20
23 52 39 13-0181 EA 900 HP, 30,128 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	969,013.08	8,133.48
23 52 39 13-0182 EA 1,000 HP, 33,476 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	1,054,533.51	8,679.75
23 52 39 13-0183 150 PSI Gas/Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0138)		
23 52 39 13-0184 EA 40 HP, 1,339 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	103,666.09	1,456.75
23 52 39 13-0185 EA 50 HP, 1,674 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	112,596.81	1,578.14
23 52 39 13-0186 EA 60 HP, 2,009 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	118,111.93	1,820.93
23 52 39 13-0187 EA 70 HP, 2,343 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	123,148.98	1,942.32
23 52 39 13-0188 EA 80 HP, 2,678 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	128,177.03	2,063.71
23 52 39 13-0189 EA 90 HP, 3,013 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	132,970.96	2,124.42
23 52 39 13-0190 EA 100 HP, 3,348 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	137,762.41	2,185.11
23 52 39 13-0191 EA 125 HP, 4,184 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	159,632.71	2,427.91
23 52 39 13-0192 EA 150 HP, 5,021 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	181,527.88	2,670.69
23 52 39 13-0193 EA 175 HP, 5,858 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	199,088.58	2,943.83
23 52 39 13-0194 EA 200 HP, 6,695 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	216,650.14	3,216.97
23 52 39 13-0195 EA 250 HP, 8,369 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	227,915.68	3,763.25
23 52 39 13-0196 EA 300 HP, 10,043 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	277,620.15	4,309.53

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0197 EA 350 HP, 11,716 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	300,207.63	4,855.80
23 52 39 13-0198 EA 400 HP, 13,390 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	354,019.92	5,402.08
23 52 39 13-0199 EA 500 HP, 16,738 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	430,977.08	5,948.36
23 52 39 13-0200 EA 600 HP, 20,085 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	504,909.07	6,494.63
23 52 39 13-0201 EA 700 HP, 23,433 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	575,696.61	7,040.91
23 52 39 13-0202 EA 800 HP, 26,780 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	643,591.15	7,587.20
23 52 39 13-0203 EA 900 HP, 30,128 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	1,008,033.17	8,133.48
23 52 39 13-0204 EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	1,097,021.62	8,679.75

23 53 Heating Boiler Feedwater Equipment (23 50)**23 53 13 Boiler Feedwater Pumps (23 53)**

See CSI section 23 53 16 00-0001 for boiler feedwater units.

23 53 16 Deaerators (23 53)**23 53 16 00-0001 Boiler Feed System (23 53 16)****23 53 16 00-0002 Low Pressure Boiler Feed System (23 53 16 00-0001)**

Note: With deaerator includes pumps and accessories.

23 53 16 00-0003 EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	7,218.17	1,388.80
23 53 16 00-0004 EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	7,792.97	1,636.15
23 53 16 00-0005 EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	8,371.04	1,693.47
23 53 16 00-0006 EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	8,638.45	1,755.60
23 53 16 00-0007 EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	9,141.08	1,876.27
23 53 16 00-0008 EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	14,621.75	2,033.12
23 53 16 00-0009 EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	16,497.47	2,171.89
23 53 16 00-0010 EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	18,912.60	2,473.53
23 53 16 00-0011 EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	20,812.27	2,654.53
23 53 16 00-0012 EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	22,423.06	2,835.52

23 53 16 00-0013 High Pressure Boiler Feed System (23 53 16 00-0001)

Note: With deaerator includes pumps and accessories.

23 53 16 00-0014 EA 10 HP, 100 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	10,017.58	1,184.04
23 53 16 00-0015 EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	10,437.46	1,388.80
23 53 16 00-0016 EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	11,614.91	1,636.15
23 53 16 00-0017 EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	12,552.99	1,693.47
23 53 16 00-0018 EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	12,772.14	1,755.60
23 53 16 00-0019 EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	15,416.95	1,876.27
23 53 16 00-0020 EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	20,062.30	2,033.12
23 53 16 00-0021 EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	20,579.71	2,171.89
23 53 16 00-0022 EA 183 HP, 1,800 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	22,639.28	2,325.85
23 53 16 00-0023 EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	24,362.35	2,473.53
23 53 16 00-0024 EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	26,061.72	2,654.53
23 53 16 00-0025 EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	28,116.23	2,835.52

23 53 16 00-0026 Boiler Feedwater System (23 53 16)

Note: With deaerator includes pumps and accessories.

23 53 16 00-0027 EA 1,380 Lb./Hour Feedwater System With Deaerator, Pumps, And Accessories	12,516.09	1,636.15
23 53 16 00-0028 EA 2,600 Lb./Hour Feedwater System With Deaerator, Pumps, And Accessories	16,322.01	1,874.46
23 53 16 00-0029 EA 4,300 Lb./Hour Feedwater System With Deaerator, Pumps, And Accessories	21,548.45	2,145.34
23 53 16 00-0030 EA 6,900 Lb./Hour Feedwater System With Deaerator, Pumps, And Accessories	25,924.65	2,474.74
23 53 16 00-0031 EA 8,500 Lb./Hour Feedwater System With Deaerator, Pumps, And Accessories	27,513.44	2,654.53
23 53 16 00-0032 EA 11,000 Lb./Hour Feedwater System With Deaerator, Pumps, And Accessories	29,024.52	2,835.52
23 53 16 00-0033 EA 13,800 Lb./Hour Feedwater System With Deaerator, Pumps, And Accessories	32,310.62	3,257.95
23 53 16 00-0034 EA 17,250 Lb./Hour Feedwater System With Deaerator, Pumps, And Accessories	41,798.36	3,740.71
23 53 16 00-0035 EA 20,700 Lb./Hour Feedwater System With Deaerator, Pumps, And Accessories	54,279.89	4,322.30
23 53 16 00-0036 EA 27,600 Lb./Hour Feedwater System With Deaerator, Pumps, And Accessories	68,730.66	4,961.55
23 53 16 00-0037 EA 34,500 Lb./Hour Feedwater System With Deaerator, Pumps, And Accessories	88,106.15	5,708.44

23 53 16 00-0038 Duplex Vacuum Condensate Pumps (23 53 16)

23 53 16 00-0039 EA 7 CFM, 15 GPM, 45 Gallon Duplex Vacuum Condensate Pump	34,913.32	965.28
Note: Two 3/4 HP vacuum pumps rated for 7 CFM, two 3/4 HP condensate pumps rated for 15 GPM at 20 PSI and 45 GAL cast iron receiver. Skidmore JVC-7-45-102.		
23 53 16 00-0040 EA 9 CFM, 30 GPM, 45 Gallon Duplex Vacuum Condensate Pump	35,696.04	1,025.61
Note: Two 1 HP vacuum pumps rated for 9 CFM, two 3/4 HP condensate pumps rated for 30 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-9-45-201.5.		
23 53 16 00-0041 EA 12 CFM, 45 GPM, 45 Gallon Duplex Vacuum Condensate Pump	36,599.14	1,085.94
Note: Two 1-1/2 HP vacuum pumps rated for 12 CFM, two 1 HP condensate pumps rated for 45 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-12-45-301.5.		



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Heating Boiler Feedwater Equipment			23 53

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 53 16 00-0042	EA		18 CFM, 37.5 GPM, 65 Gallon Duplex Vacuum Condensate Pump..... Note: Two 2 HP vacuum pumps rated for 18 CFM, two 1 HP condensate pumps rated for 37.5 GPM at 20 PSI and 65 GAL cast iron receiver. Skidmore JVC-18-65-252.	35,329.75	1,146.28
23 53 16 00-0043	EA		28 CFM, 60 GPM, 110 Gallon Duplex Vacuum Condensate Pump..... Note: Two 3 HP vacuum pumps rated for 28 CFM, two 1-1/2 HP condensate pumps rated for 60 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-28-110-402.	48,035.33	1,206.61
23 53 16 00-0044	EA		42 CFM, 75 GPM, 110 Gallon Duplex Vacuum Condensate Pump..... Note: Two 5 HP vacuum pumps rated for 42 CFM, two 2 HP condensate pumps rated for 75 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-42-110-502.	50,563.48	1,266.94

23 54 Furnaces (23 50)

Note: All units based on output. See CSI section 23 84 13 00-0000 for humidifiers.

23 54 13 Electric-Resistance Furnaces (23 54)**23 54 13 00-0001 Down Flow Multi-Speed Air Handler/Electric Furnace** (23 54 13)

23 54 13 00-0002	EA	Up To 2 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	1,394.08	122.18
Note: Excludes cooling equipment.				
23 54 13 00-0003	EA	>2 To 3.5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	1,845.67	152.72
Note: Excludes cooling equipment.				
23 54 13 00-0004	EA	>3.5 To 5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	2,394.26	183.28
Note: Excludes cooling equipment.				

23 54 13 00-0005 Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace (23 54 13)

23 54 13 00-0006	EA	Up To 2 Ton Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace	1,394.08	122.18
Note: Excludes cooling equipment.				
23 54 13 00-0007	EA	>2 To 2.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace	1,671.41	137.45
Note: Excludes cooling equipment.				
23 54 13 00-0008	EA	>2.5 To 3 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace	1,825.46	152.72
Note: Excludes cooling equipment.				
23 54 13 00-0009	EA	>3 To 3.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace	1,906.76	168.01
Note: Excludes cooling equipment.				
23 54 13 00-0010	EA	>3.5 To 5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace	2,394.26	183.28
Note: Excludes cooling equipment.				

23 54 13 00-0011 Heating Coil For Air Handler/Electric Furnace (23 54 13)

23 54 13 00-0012	EA	5 KW Heating Coil For Air Handler/Electric Furnace	248.86	34.43
23 54 13 00-0013	EA	7 KW Heating Coil For Air Handler/Electric Furnace	284.85	37.88
23 54 13 00-0014	EA	10 KW Heating Coil For Air Handler/Electric Furnace	308.73	41.32
23 54 13 00-0015	EA	15 KW Heating Coil For Air Handler/Electric Furnace	423.56	44.76
23 54 13 00-0016	EA	20 KW Heating Coil For Air Handler/Electric Furnace	457.53	48.20

23 54 16 Fuel-Fired Furnaces (23 54)**23 54 16 13 Gas-Fired Furnaces** (23 54 16)**23 54 16 13-0001 Natural Gas Fired Forced Air Furnaces** (23 54 16 13)

Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.

23 54 16 13-0002 Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace (23 54 16 13-0001)

23 54 16 13-0003	EA	40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace	2,230.28	106.91
Note: Blower cooling capacity up to 3 tons.				
23 54 16 13-0004	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace	2,372.20	122.18
Note: Blower cooling capacity up to 3 tons.				
23 54 16 13-0005	EA	80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	2,738.44	137.45
Note: Blower cooling capacity up to 4 tons.				
23 54 16 13-0006	EA	100 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace	3,198.11	168.01
Note: Blower cooling capacity up to 5 tons.				
23 54 16 13-0007	EA	120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace	3,410.77	183.28
Note: Blower cooling capacity up to 5 tons.				

23 54 16 13-0008 Up/Horizontal Flow Variable Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)

23 54 16 13-0009	EA	40 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,488.94	106.91
Note: Blower cooling capacity up to 3 tons.				
23 54 16 13-0010	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,723.84	122.18
Note: Blower cooling capacity up to 3 tons.				
23 54 16 13-0011	EA	80 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,885.50	137.45
Note: Blower cooling capacity up to 3 tons.				
23 54 16 13-0012	EA	80 MBH, 1,600 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	3,250.42	152.72
Note: Blower cooling capacity up to 3.5 tons.				
23 54 16 13-0013	EA	100 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	3,402.23	168.01
Note: Blower cooling capacity up to 5 tons.				
23 54 16 13-0014	EA	120 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	3,584.57	183.28
Note: Blower cooling capacity up to 5 tons.				

23 54 16 13-0015 Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 54 Furnaces**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 16 13-0016	EA	45 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	2,185.72	106.91
23 54 16 13-0017	EA	70 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	2,509.54	122.18
23 54 16 13-0018	EA	90 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	2,712.56	152.72
23 54 16 13-0019	EA	90 MBH, 2,000 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	2,894.90	168.01
23 54 16 13-0020		Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0021	EA	40 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	2,885.03	106.91
23 54 16 13-0022	EA	60 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	3,035.05	122.18
23 54 16 13-0023	EA	80 MBH, 1,600 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	3,379.07	137.45
23 54 16 13-0024	EA	100 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	3,683.13	168.01
23 54 16 13-0025	EA	120 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	3,946.31	183.28
23 54 16 13-0026		Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0027	EA	40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,983.71	106.91
23 54 16 13-0028	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	2,087.25	122.18
23 54 16 13-0029	EA	80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	2,328.20	137.45
23 54 16 13-0030	EA	80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	2,348.41	137.45
23 54 16 13-0031	EA	80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	2,561.07	152.72
23 54 16 13-0032	EA	100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	2,696.93	168.01
23 54 16 13-0033	EA	120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	2,857.05	183.28
23 54 16 13-0034		Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0035	EA	40 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,363.30	106.91
23 54 16 13-0036	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,489.07	122.18
23 54 16 13-0037	EA	60 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,703.74	137.45
23 54 16 13-0038	EA	80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,705.76	137.45
23 54 16 13-0039	EA	80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	1,871.94	152.72
23 54 16 13-0040	EA	100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	1,916.86	168.01
23 54 16 13-0041	EA	120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	2,131.54	183.28
23 54 16 13-0042		Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0043	EA	40 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,383.51	106.91
23 54 16 13-0044	EA	60 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,495.13	122.18
23 54 16 13-0045	EA	80 MBH, 1,600 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,794.68	137.45
23 54 16 13-0046	EA	100 MBH, 2,000 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	1,975.01	152.72
23 54 16 13-0047		75% AFUE Gas Wall/Recessed Furnace (23 54 16 13-0001)		
23 54 16 13-0048	EA	35 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace Note: Includes burner, controls and electronic ignition.	2,389.37	91.63
23 54 16 13-0049	EA	55 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace Note: Includes burner, controls and electronic ignition.	2,753.82	114.60
23 54 16 13-0050	EA	35 MBH 75% AFUE Gas Wall/Recessed Furnace Note: Includes burner, controls and electronic ignition.	2,156.97	91.63
23 54 16 13-0051	EA	40 MBH 75% AFUE Gas Wall/Recessed Furnace Note: Includes burner, controls and electronic ignition.	2,304.72	99.33
23 54 16 13-0052	EA	50 MBH 75% AFUE Gas Wall/Recessed Furnace Note: Includes burner, controls and electronic ignition.	2,280.70	106.91
23 54 16 13-0053	EA	65 MBH 75% AFUE Gas Wall/Recessed Furnace Note: Includes burner, controls and electronic ignition.	2,347.72	114.60
23 54 16 13-0054	EA	75 MBH 75% AFUE Gas Wall/Recessed Furnace Note: Includes burner, controls and electronic ignition.	2,432.75	114.60
23 54 16 13-0055		Gas Fired Indoor Duct Furnace (23 54 16 13-0001)		
23 54 16 13-0056		Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0055)		



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Furnaces			23 54

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 16 13-0057 EA 100 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace	3,040.87	238.26
23 54 16 13-0058 EA 150 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace	3,378.32	293.24
23 54 16 13-0059 EA 200 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace	3,806.21	421.53
23 54 16 13-0060 EA 250 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace	4,292.62	476.51
23 54 16 13-0061 EA 300 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace	5,005.07	549.83
23 54 16 13-0062 EA 350 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace	5,482.33	659.79
23 54 16 13-0063 EA 400 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace	6,213.42	879.72
23 54 16 13-0064 Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0055)		
Note: Includes burner, controls and electronic ignition.		
23 54 16 13-0065 EA 100 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	3,415.10	238.26
23 54 16 13-0066 EA 150 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	3,746.96	293.24
23 54 16 13-0067 EA 200 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	4,312.63	421.53
23 54 16 13-0068 EA 250 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	4,890.27	476.51
23 54 16 13-0069 EA 300 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	6,036.53	549.83
23 54 16 13-0070 EA 350 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	6,601.30	659.79
23 54 16 13-0071 EA 400 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	7,270.95	879.72
23 54 16 16 Oil-Fired Furnaces (23 54 16)		
23 54 16 16-0001 Oil Fired Forced Air Furnaces (23 54 16 16)		
Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.		
23 54 16 16-0002 Up Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0003 EA 72 MBH, 1,220 CFM Up Flow Single Speed, One Stage 84% AFUE Oil Furnace.....	3,867.66	122.18
Note: Blower cooling capacity up to 3 tons.		
23 54 16 16-0004 EA 95 MBH, 1,590 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace.....	4,095.39	168.01
Note: Blower cooling capacity up to 4 tons.		
23 54 16 16-0005 EA 126 MBH, 1,835 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace.....	4,724.82	198.55
Note: Blower cooling capacity up to 5 tons.		
23 54 16 16-0006 Down/Horizontal Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0007 EA 95 MBH, 1,210 CFM Down/Horizontal Flow Single Speed, One Stage 83% AFUE Oil Furnace.....	4,471.28	168.01
Note: Blower cooling capacity up to 3 tons.		
23 54 16 16-0008 EA 126 MBH, 2,005 CFM Down/Horizontal Flow Single Speed, One Stage 84% AFUE Oil Furnace.....	4,496.46	198.55
Note: Blower cooling capacity up to 5 tons.		
23 54 16 16-0009 Up Flow Lowboy Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0010 EA 95 MBH, 1,550 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace	3,856.93	168.01
Note: Blower cooling capacity up to 4 tons.		
23 54 16 16-0011 EA 127 MBH, 2,130 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace	4,579.32	198.55
Note: Blower cooling capacity up to 5 tons.		
23 54 19 Furnace Accessories (23 54)		
23 54 19 00-0001 EA LP Gas Furnace Conversion Kit	217.56	30.54
23 54 19 00-0002 EA 1" Furnace External Filter Rack	66.56	
23 54 19 00-0003 EA Removal And Reinstallation Of Forced Air Furnace	565.66	
Note: Includes storage and cleaning. Excludes ductwork.		
23 55 Fuel-Fired Heaters (23 50)		
23 55 23 Gas-Fired Radiant Heaters (23 55)		
23 55 23 13 Low-Intensity Gas-Fired Radiant Heaters (23 55 23)		
23 55 23 13-0001 Infrared Heaters-Radiant Energy (23 55 23 13)		
Note: For spot localized or total heating, ceiling hung units, no fan required.		
23 55 23 13-0002 Gas Fired Electric Ignition Infrared Gas Heater (23 55 23 13-0001)		
Note: Ceramic combustion, surface chromized wire screen aluminized steel housing and polished aluminum reflector.		
23 55 23 13-0003 EA 15,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,036.03	120.66
23 55 23 13-0004 EA 37,500 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,143.40	132.72
23 55 23 13-0005 EA 50,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,223.62	132.72
23 55 23 13-0006 EA 75,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,535.18	159.27
23 55 23 13-0007 EA 100,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,548.70	159.27
23 55 23 13-0008 Rolled Steel Or Aluminum Housing Infrared Electric Heater (23 55 23 13-0001)		
Note: Anodized aluminum reflector and quartz/tungsten tubular element with an inner heavy-duty coiled element.		
23 55 23 13-0009 EA 1,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,172.75	134.40
For Stainless Steel Housing, Add		
	191.37	
23 55 23 13-0010 EA 3,200 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,255.19	134.40
For Stainless Steel Housing, Add		
	211.98	
23 55 23 13-0011 EA 5,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,349.40	134.40
For Stainless Steel Housing, Add		
	235.53	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 55 Fuel-Fired Heaters**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 55 23 13-0012	EA	7,300 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,462.66		134.40
		<i>For Stainless Steel Housing, Add</i>	263.85		
23 55 23 13-0013	EA	10,950 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required.....	1,597.55		146.62
		<i>For Stainless Steel Housing, Add</i>	294.00		
23 55 23 13-0014	EA	13,500 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required.....	1,706.73		158.83
		<i>For Stainless Steel Housing, Add</i>	316.62		
23 55 23 13-0015	EA	24,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required.....	2,750.73		171.06
		<i>For Stainless Steel Housing, Add</i>	565.38		
23 55 23 13-0016		Gas Fired Tubular Infrared Heater (23 55 23 13-0001)			
		Note: Per Tube Length. Includes controls and supports.			
23 55 23 13-0017		"U" Package (23 55 23 13-0016)			
23 55 23 13-0018	LF	Up To 75 MBH Input Radiant Heater	104.74		6.03
23 55 23 13-0019	LF	76 To 105 MBH Input Radiant Heater.....	120.74		7.24
23 55 23 13-0020	LF	106 To 130 MBH Input Radiant Heater.....	147.91		8.45
23 55 23 13-0021		"S" Straight Package (23 55 23 13-0016)			
23 55 23 13-0022	LF	Up To 75 MBH Input Radiant Heater	85.00		4.82
23 55 23 13-0023	LF	76 To 105 MBH Input Radiant Heater.....	108.46		6.03
23 55 23 13-0024	LF	106 To 130 MBH Input Radiant Heater.....	131.91		7.24
23 55 33		Fuel-Fired Unit Heaters (23 55)			
23 55 33 00-0001		Oil-Fired Unit Heaters (23 55 33)			
23 55 33 00-0002		Oil Fired Unit Heater (23 55 33 00-0001)			
23 55 33 00-0003		Horizontal Fan Propelled Oil Fired Unit Heater, 115 Voltl, 1 phase (23 55 33 00-0002)			
23 55 33 00-0004	EA	97 MBH Output, 2,000 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	6,319.97		555.61
		<i>For 3 Phase, 460 Volt, Add</i>	671.93		
23 55 33 00-0005	EA	142 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	6,788.15		611.17
		<i>For 3 Phase, 460 Volt, Add</i>	718.01		
23 55 33 00-0006	EA	188 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	7,297.20		666.73
		<i>For 3 Phase, 460 Volt, Add</i>	769.29		
23 55 33 00-0007		Gas-Fired Unit Heaters (23 55 33)			
23 55 33 00-0008		Removal And Reinstallation Of Unit Heaters (23 55 33 00-0007)			
		Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.			
23 55 33 00-0009	EA	Removal And Reinstallation Of Up To 101.3 MBH Output Gas or Oil Unit Heater.....	693.79		
23 55 33 00-0010	EA	Removal And Reinstallation Of >101.3 MBH Output Gas or Oil Unit Heater	935.12		
23 55 33 00-0011		Gas Fired Unit Heaters (23 55 33 00-0007)			
23 55 33 00-0012		Horizontal Fan Propelled Natural Gas Fired Unit Heaters, 115 Vol, 1 phase			
		(23 55 33 00-0011)			
		Note: 80 to 83 percent thermal efficiency, single stage, propeller unit, aluminum steel heat exchanger			
23 55 33 00-0013	EA	24.3 MBH Output, 30 MBH Input, 500 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,879.69		208.35
		<i>For 90 Percent Efficiency, Add</i>	825.11		
		<i>For Stainless Steel Heat Exchanger, Add</i>	215.51		
		<i>For 30 Degree, Downward Air Deflection Hood, Add</i>	59.11		
		<i>For 60 Degree, Downward Air Deflection Hood, Add</i>	94.83		
		<i>For 90 Degree, Downward Air Deflection Hood, Add</i>	141.62		
		<i>For 3 Phase, 460 Volt, Add</i>	317.73		
		<i>For Quick-Swivel Flush Mount With Brackets, Add</i>	175.00		
23 55 33 00-0014	EA	36.5 MBH Output, 45 MBH Input, 750 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	3,132.30		250.03
		<i>For 90 Percent Efficiency, Add</i>	881.82		
		<i>For Stainless Steel Heat Exchanger, Add</i>	230.33		
		<i>For 30 Degree, Downward Air Deflection Hood, Add</i>	63.17		
		<i>For 60 Degree, Downward Air Deflection Hood, Add</i>	101.34		
		<i>For 90 Degree, Downward Air Deflection Hood, Add</i>	151.36		
		<i>For 3 Phase, 460 Volt, Add</i>	339.57		
		<i>For Quick-Swivel Flush Mount With Brackets, Add</i>	175.00		
23 55 33 00-0015	EA	48.6 MBH Output, 60 MBH Input, 1,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	3,183.89		250.03
		<i>For Blower Unit Model, Add</i>	254.97		
		<i>For 90 Percent Efficiency, Add</i>	899.10		
		<i>For Stainless Steel Heat Exchanger, Add</i>	234.84		
		<i>For 30 Degree, Downward Air Deflection Hood, Add</i>	64.41		
		<i>For 60 Degree, Downward Air Deflection Hood, Add</i>	103.33		
		<i>For 90 Degree, Downward Air Deflection Hood, Add</i>	154.32		
		<i>For 3 Phase, 460 Volt, Add</i>	346.22		
		<i>For Quick-Swivel Flush Mount With Brackets, Add</i>	175.00		



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central Heating Equipment			23 50	
Fuel-Fired Heaters			23 55	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 55 33 00-0016	EA		60.8 MBH Output, 75 MBH Input, 1,250 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	3,461.33	291.70
			For Blower Unit Model, Add	273.41	
			For 90 Percent Efficiency, Add	964.11	
			For Stainless Steel Heat Exchanger, Add	251.82	
			For 30 Degree, Downward Air Deflection Hood, Add	69.07	
			For 60 Degree, Downward Air Deflection Hood, Add	110.80	
			For 90 Degree, Downward Air Deflection Hood, Add	165.48	
			For 3 Phase, 460 Volt, Add	371.26	
			For Quick-Swivel Flush Mount With Brackets, Add	175.00	
23 55 33 00-0017	EA		72.9 MBH Output, 90 MBH Input, 1,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	3,796.50	333.37
			For Blower Unit Model, Add	297.33	
			For 90 Percent Efficiency, Add	1,048.49	
			For Stainless Steel Heat Exchanger, Add	273.86	
			For 30 Degree, Downward Air Deflection Hood, Add	75.12	
			For 60 Degree, Downward Air Deflection Hood, Add	120.50	
			For 90 Degree, Downward Air Deflection Hood, Add	179.96	
			For 3 Phase, 460 Volt, Add	403.75	
			For Quick-Swivel Flush Mount With Brackets, Add	175.00	
23 55 33 00-0018	EA		81 MBH Output, 100 MBH Input, 1,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	4,077.64	354.20
			For Blower Unit Model, Add	320.08	
			For 90 Percent Efficiency, Add	1,128.72	
			For Stainless Steel Heat Exchanger, Add	294.61	
			For 30 Degree, Downward Air Deflection Hood, Add	80.86	
			For 60 Degree, Downward Air Deflection Hood, Add	129.72	
			For 90 Degree, Downward Air Deflection Hood, Add	193.74	
			For 3 Phase, 460 Volt, Add	434.64	
			For Quick-Swivel Flush Mount With Brackets, Add	175.00	
23 55 33 00-0019	EA		101.3 MBH Output, 125 MBH Input, 2,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	4,207.72	354.20
			For Blower Unit Model, Add	332.44	
			For 90 Percent Efficiency, Add	1,172.30	
			For Stainless Steel Heat Exchanger, Add	306.20	
			For 30 Degree, Downward Air Deflection Hood, Add	83.99	
			For 60 Degree, Downward Air Deflection Hood, Add	134.73	
			For 90 Degree, Downward Air Deflection Hood, Add	201.21	
			For 3 Phase, 460 Volt, Add	451.42	
			For Quick-Swivel Flush Mount With Brackets, Add	175.00	
23 55 33 00-0020	EA		121.5 MBH Output, 150 MBH Input, 2,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	4,326.51	354.20
			For Blower Unit Model, Add	343.73	
			For 90 Percent Efficiency, Add	1,212.09	
			For Stainless Steel Heat Exchanger, Add	316.59	
			For 30 Degree, Downward Air Deflection Hood, Add	86.84	
			For 60 Degree, Downward Air Deflection Hood, Add	139.30	
			For 90 Degree, Downward Air Deflection Hood, Add	208.05	
			For 3 Phase, 460 Volt, Add	466.75	
			For Quick-Swivel Flush Mount With Brackets, Add	175.00	
23 55 33 00-0021	EA		141.8 MBH Output, 175 MBH Input, 2,850 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	4,912.11	375.04
			For Blower Unit Model, Add	395.40	
			For 90 Percent Efficiency, Add	1,394.30	
			For Stainless Steel Heat Exchanger, Add	364.18	
			For 30 Degree, Downward Air Deflection Hood, Add	99.89	
			For 60 Degree, Downward Air Deflection Hood, Add	160.24	
			For 90 Degree, Downward Air Deflection Hood, Add	239.32	
			For 3 Phase, 460 Volt, Add	536.91	
			For Quick-Swivel Flush Mount With Brackets, Add	175.00	
23 55 33 00-0022	EA		162 MBH Output, 200 MBH Input, 3,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	5,419.98	375.04
			For Blower Unit Model, Add	443.65	
			For 90 Percent Efficiency, Add	1,564.44	
			For Stainless Steel Heat Exchanger, Add	408.62	
			For 30 Degree, Downward Air Deflection Hood, Add	112.08	
			For 60 Degree, Downward Air Deflection Hood, Add	179.79	
			For 90 Degree, Downward Air Deflection Hood, Add	268.52	
			For 3 Phase, 460 Volt, Add	602.42	
			For Quick-Swivel Flush Mount With Brackets, Add	175.00	
23 55 33 00-0023	EA		202.5 MBH Output, 250 MBH Input, 3,450 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	5,841.14	375.04
			For Blower Unit Model, Add	483.66	
			For 90 Percent Efficiency, Add	1,705.53	
			For Stainless Steel Heat Exchanger, Add	445.47	
			For 30 Degree, Downward Air Deflection Hood, Add	122.19	
			For 60 Degree, Downward Air Deflection Hood, Add	196.01	
			For 90 Degree, Downward Air Deflection Hood, Add	292.74	
			For 3 Phase, 460 Volt, Add	656.75	
			For Quick-Swivel Flush Mount With Brackets, Add	175.00	
23 55 33 00-0024	EA		243 MBH Output, 300 MBH Input, 5,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	7,010.56	416.71
			For Blower Unit Model, Add	586.82	
			For 90 Percent Efficiency, Add	2,069.32	
			For Stainless Steel Heat Exchanger, Add	540.49	
			For 30 Degree, Downward Air Deflection Hood, Add	148.25	
			For 60 Degree, Downward Air Deflection Hood, Add	237.82	
			For 90 Degree, Downward Air Deflection Hood, Add	355.18	
			For 3 Phase, 460 Volt, Add	796.84	
			For Quick-Swivel Flush Mount With Brackets, Add	175.00	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 55 Fuel-Fired Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 55 33 00-0025 EA 283.5 MBH Output, 350 MBH Input, 5,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	7,964.37	416.71
For Blower Unit Model, Add	677.43	
For 90 Percent Efficiency, Add	2,388.84	
For Stainless Steel Heat Exchanger, Add	623.95	
For 30 Degree, Downward Air Deflection Hood, Add	171.14	
For 60 Degree, Downward Air Deflection Hood, Add	274.54	
For 90 Degree, Downward Air Deflection Hood, Add	410.03	
For 3 Phase, 460 Volt, Add	919.88	
For Quick-Swivel Flush Mount With Brackets, Add	175.00	
23 55 33 00-0026 EA 324 MBH Output, 400 MBH Input, 5,800 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	8,534.86	458.38
For Blower Unit Model, Add	723.72	
For 90 Percent Efficiency, Add	2,552.06	
For Stainless Steel Heat Exchanger, Add	666.58	
For 30 Degree, Downward Air Deflection Hood, Add	182.83	
For 60 Degree, Downward Air Deflection Hood, Add	293.30	
For 90 Degree, Downward Air Deflection Hood, Add	438.04	
For 3 Phase, 460 Volt, Add	982.73	
For Quick-Swivel Flush Mount With Brackets, Add	175.00	

23 57 Heat Exchangers for HVAC (23 50)**23 57 13 Steam-To-Steam Heat Exchangers** (23 57)**23 57 13 00-0001 Steam Generator Heat Exchanger** (23 57 13)

Note: 35 PSI generated steam using 180 degree feed water; 400 degree F water to valve.

23 57 13 00-0002 EA 75 Lb./Hour Steam Generator Heat Exchanger, 35 PSI	23,065.70	1,930.57
23 57 13 00-0003 EA 300 Lb./Hour Steam Generator Heat Exchanger, 35 PSI	31,216.26	2,051.23
23 57 13 00-0004 EA 525 Lb./Hour Steam Generator Heat Exchanger, 35 PSI	42,148.36	2,558.87

23 57 16 Steam-To-Water Heat Exchangers (23 57)**23 57 16 00-0001 Heat Exchanger, Hot Water 40 To 180 Degree By Steam 10 PSI** (23 57 16)

Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes. Excludes controls expansion tank and accessories.

23 57 16 00-0002 EA 8 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	2,688.94	301.65
For Bronze Head And Tube Sheet, Add	1,029.03	
For Copper Nickel Tubes, Add	228.67	
For Double Wall Tube Bundles, Add	343.01	
23 57 16 00-0003 EA 10 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	3,945.42	301.65
For Bronze Head And Tube Sheet, Add	1,558.25	
For Copper Nickel Tubes, Add	346.28	
For Double Wall Tube Bundles, Add	519.42	
23 57 16 00-0004 EA 40 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	5,960.79	422.32
For Bronze Head And Tube Sheet, Add	2,410.87	
For Copper Nickel Tubes, Add	535.75	
For Double Wall Tube Bundles, Add	803.62	
23 57 16 00-0005 EA 64 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	9,373.52	422.32
For Bronze Head And Tube Sheet, Add	3,675.11	
For Copper Nickel Tubes, Add	816.69	
For Double Wall Tube Bundles, Add	1,225.04	
23 57 16 00-0006 EA 96 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	12,353.90	497.12
For Bronze Head And Tube Sheet, Add	4,880.54	
For Copper Nickel Tubes, Add	1,084.57	
For Double Wall Tube Bundles, Add	1,626.85	
23 57 16 00-0007 EA 120 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	16,257.22	634.37
For Bronze Head And Tube Sheet, Add	6,409.39	
For Copper Nickel Tubes, Add	1,424.31	
For Double Wall Tube Bundles, Add	2,136.46	
23 57 16 00-0008 EA 168 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	20,062.89	952.14
For Bronze Head And Tube Sheet, Add	7,850.03	
For Copper Nickel Tubes, Add	1,744.45	
For Double Wall Tube Bundles, Add	2,616.68	
23 57 16 00-0009 EA 240 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	30,452.44	952.14
For Bronze Head And Tube Sheet, Add	12,230.76	
For Copper Nickel Tubes, Add	2,717.95	
For Double Wall Tube Bundles, Add	4,076.92	

23 57 19 Liquid-To-Liquid Heat Exchangers (23 57)**23 57 19 13 Plate-Type, Liquid-To-Liquid Heat Exchangers** (23 57 19)**23 57 19 13-0001 Plate And Frame Heat Exchanger** (23 57 19 13)

23 57 19 13-0002 EA 8" W x 18-7/8"H Plate And Frame Heat Exchanger.....	4,243.24	301.65
23 57 19 13-0003 EA 8" W x 24-9/16"H Plate And Frame Heat Exchanger.....	5,663.71	301.65
23 57 19 13-0004 EA 11-3/16" W x 34-11/16"H Plate And Frame Heat Exchanger.....	7,559.89	361.98
23 57 19 13-0005 EA 16-3/4" W x 46-1/4"H Plate And Frame Heat Exchanger.....	10,283.68	392.15
23 57 19 13-0006 EA 16-1/2" W x 49-5/8"H Plate And Frame Heat Exchanger.....	11,260.25	392.15
23 57 19 13-0007 EA 24" W x 57-11/16"H Plate And Frame Heat Exchanger.....	14,694.26	422.32
23 57 19 13-0008 EA 26-5/16" W x 56-5/8"H Plate And Frame Heat Exchanger.....	15,493.27	422.32
23 57 19 13-0009 EA 24-1/4" W x 68-3/8"H Plate And Frame Heat Exchanger.....	19,164.99	482.65
23 57 19 13-0010 EA 24" W x 69-11/16"H Plate And Frame Heat Exchanger.....	23,458.19	542.97
23 57 19 13-0011 EA 26-5/16" W x 68-3/4"H Plate And Frame Heat Exchanger.....	24,345.98	542.97



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Heat Exchangers for HVAC			23 57

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

23 57 19 13-0012	EA		24" W x 89-13/16"H Plate And Frame Heat Exchanger	30,162.39	642.69
23 57 19 13-0013	EA		26-5/16" W x 88-9/16"H Plate And Frame Heat Exchanger	36,418.89	706.84
23 57 19 13-0014	EA		40-13/16" W x 89-1/4"H Plate And Frame Heat Exchanger	42,053.79	770.99

23 57 19 19 Copper Tube, Water-To-Water Heat Exchanger (23 57 19)

23 57 19 19-0001			Heat Exchanger Hot Water 40-140 Degree By Water At 200 Degree F (23 57 19)		
Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes.					
23 57 19 19-0002	EA		7 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	3,211.63	301.65
			For Copper Nickel Tubes, Add	280.94	
			For Double Wall Tube Bundles, Add	421.41	
23 57 19 19-0003	EA		16 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	4,468.10	301.65
			For Copper Nickel Tubes, Add	398.55	
			For Double Wall Tube Bundles, Add	597.82	
23 57 19 19-0004	EA		34 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	6,679.48	422.32
			For Copper Nickel Tubes, Add	607.62	
			For Double Wall Tube Bundles, Add	911.43	
23 57 19 19-0005	EA		55 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	9,559.32	422.32
			For Copper Nickel Tubes, Add	875.49	
			For Double Wall Tube Bundles, Add	1,313.24	
23 57 19 19-0006	EA		74 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	11,829.54	482.65
			For Copper Nickel Tubes, Add	1,078.03	
			For Double Wall Tube Bundles, Add	1,617.05	
23 57 19 19-0007	EA		86 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	15,774.54	482.65
			For Copper Nickel Tubes, Add	1,450.44	
			For Double Wall Tube Bundles, Add	2,175.66	
23 57 19 19-0008	EA		112 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	19,572.76	476.07
			For Copper Nickel Tubes, Add	1,803.25	
			For Double Wall Tube Bundles, Add	2,704.88	
23 57 19 19-0009	EA		126 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	24,345.61	476.07
			For Copper Nickel Tubes, Add	2,247.53	
			For Double Wall Tube Bundles, Add	3,371.30	
23 57 19 19-0010	EA		152 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	31,127.86	476.07
			For Copper Nickel Tubes, Add	2,874.75	
			For Double Wall Tube Bundles, Add	4,312.13	

23 57 19 23 Refrigerant-To-Water Heat Exchanger (23 57 19)

23 57 19 23-0001			Heat Exchanger Refrigerant To Water (23 57 19 23)		
23 57 19 23-0002	EA		10 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	3,627.49	241.32
			For Copper Nickel Tubes, Add	314.48	
			For Double Wall Tube Bundles, Add	471.73	
23 57 19 23-0003	EA		53 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	9,698.53	402.17
			For Copper Nickel Tubes, Add	889.41	
			For Double Wall Tube Bundles, Add	1,334.12	
23 57 19 23-0004	EA		70 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	13,071.06	524.63
			For Copper Nickel Tubes, Add	1,202.37	
			For Double Wall Tube Bundles, Add	1,803.55	
23 57 19 23-0005	EA		87 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	14,011.68	635.03
			For Copper Nickel Tubes, Add	1,274.42	
			For Double Wall Tube Bundles, Add	1,911.64	
23 57 19 23-0006	EA		105 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	16,912.91	756.12
			For Copper Nickel Tubes, Add	1,537.63	
			For Double Wall Tube Bundles, Add	2,306.45	

23 60 Central Cooling Equipment (23)

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 61 Refrigerant Compressors (23 61)**23 61 16 Reciprocating Refrigerant Compressors (23 61)**

23 61 16 00-0001			Reciprocating Open Type Refrigerant Compressors (23 61 16)		
Note: Includes manual reversible oil pump and automatic pressure regulator. Excludes muffler, vibration isolators, crank case oil heaters, couplings and flywheel.					
23 61 16 00-0002	EA		1/4 Ton Refrigerant Compressor, Reciprocating Open Type	923.02	114.39
23 61 16 00-0003	EA		1/3 Ton Refrigerant Compressor, Reciprocating Open Type	1,114.53	114.39
23 61 16 00-0004	EA		1/2 Ton Refrigerant Compressor, Reciprocating Open Type	1,522.82	142.94
23 61 16 00-0005	EA		3/4 Ton Refrigerant Compressor, Reciprocating Open Type	1,917.81	142.94
23 61 16 00-0006	EA		1 Ton Refrigerant Compressor, Reciprocating Open Type	2,157.20	142.94
23 61 16 00-0007	EA		1-1/4 Ton Refrigerant Compressor, Reciprocating Open Type	2,182.60	148.71
23 61 16 00-0008	EA		1-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	2,196.56	148.71
23 61 16 00-0009	EA		1-3/4 Ton Refrigerant Compressor, Reciprocating Open Type	2,414.95	160.15
23 61 16 00-0010	EA		2 Ton Refrigerant Compressor, Reciprocating Open Type	2,597.42	171.59
23 61 16 00-0011	EA		2-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	2,835.74	183.02
23 61 16 00-0012	EA		3 Ton Refrigerant Compressor, Reciprocating Open Type	3,246.69	183.02
23 61 16 00-0013	EA		3-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	3,652.58	194.46
23 61 16 00-0014	EA		4 Ton Refrigerant Compressor, Reciprocating Open Type	3,723.36	205.90
23 61 16 00-0015	EA		4-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	3,782.64	211.57

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 61 Refrigerant Compressors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 61 16 00-0016 EA 5 Ton Refrigerant Compressor, Reciprocating Open Type	5,154.08	1,107.56
23 61 16 00-0017 EA 7.5 Ton Refrigerant Compressor, Reciprocating Open Type	8,050.77	1,265.72
23 61 16 00-0018 EA 10 Ton Refrigerant Compressor, Reciprocating Open Type	10,947.64	1,424.00
23 61 16 00-0019 EA 12.5 Ton Refrigerant Compressor, Reciprocating Open Type	14,700.51	1,542.56
23 61 16 00-0020 EA 15 Ton Refrigerant Compressor, Reciprocating Open Type	18,453.73	1,661.34
23 61 16 00-0021 EA 20 Ton Refrigerant Compressor, Reciprocating Open Type	22,144.49	1,993.60
23 61 16 00-0022 EA 25 Ton Refrigerant Compressor, Reciprocating Open Type	26,825.02	2,142.74
23 61 16 00-0023 EA 30 Ton Refrigerant Compressor, Reciprocating Open Type	31,330.25	2,265.46
23 61 16 00-0024 EA 50 Ton Refrigerant Compressor, Reciprocating Open Type	41,341.89	2,555.93
23 61 16 00-0025 EA 60 Ton Refrigerant Compressor, Reciprocating Open Type	49,023.52	2,622.96
23 61 16 00-0026 EA 70 Ton Refrigerant Compressor, Reciprocating Open Type	61,757.35	2,689.88
23 61 16 00-0027 EA 75 Ton Refrigerant Compressor, Reciprocating Open Type	64,929.95	2,723.45
23 61 16 00-0028 EA 80 Ton Refrigerant Compressor, Reciprocating Open Type	67,968.07	2,756.91
23 61 16 00-0029 EA 90 Ton Refrigerant Compressor, Reciprocating Open Type	73,652.24	2,823.84
23 61 16 00-0030 EA 100 Ton Refrigerant Compressor, Reciprocating Open Type	78,806.57	2,890.97
23 61 16 00-0031 EA 110 Ton Refrigerant Compressor, Reciprocating Open Type	84,264.32	3,357.67
23 61 16 00-0032 EA 120 Ton Refrigerant Compressor, Reciprocating Open Type	88,364.76	3,432.81
23 61 16 00-0033 EA 130 Ton Refrigerant Compressor, Reciprocating Open Type	91,890.04	3,476.51
23 61 16 00-0034 EA 140 Ton Refrigerant Compressor, Reciprocating Open Type	94,979.54	3,584.07
23 61 16 00-0035 EA 150 Ton Refrigerant Compressor, Reciprocating Open Type	97,491.99	3,659.21
23 61 16 00-0036 EA 175 Ton Refrigerant Compressor, Reciprocating Open Type	100,041.29	3,759.49
23 61 16 00-0037 EA 185 Ton Refrigerant Compressor, Reciprocating Open Type	102,499.71	3,799.91
23 61 16 00-0038 EA 200 Ton Refrigerant Compressor, Reciprocating Open Type	104,993.10	3,862.79
23 61 16 00-0039 EA 225 Ton Refrigerant Compressor, Reciprocating Open Type	107,797.41	4,123.30
23 61 16 00-0040 EA 250 Ton Refrigerant Compressor, Reciprocating Open Type	110,539.59	4,345.58
23 61 16 00-0041 Reciprocating Hermetic Type Refrigerant Compressors (23 61 16)		
Note: Includes automatic reversible oil pump, suction and discharge shut-off valves, device for loading and unloading compressor cylinders and crank case oil heater. Excludes mufflers and vibration isolators.		
23 61 16 00-0042 Reciprocating Hermetic Type Refrigerant Compressors <5 Tons (23 61 16 00-0041)		
23 61 16 00-0043 EA 1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,609.20	114.39
23 61 16 00-0044 EA 1/3 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,667.95	114.39
23 61 16 00-0045 EA 1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,783.89	142.94
23 61 16 00-0046 EA 3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,842.60	142.94
23 61 16 00-0047 EA 1 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,871.98	142.94
23 61 16 00-0048 EA 1-1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,930.41	148.71
23 61 16 00-0049 EA 1-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,995.03	148.71
23 61 16 00-0050 EA 1-3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,141.26	160.15
23 61 16 00-0051 EA 2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,281.63	171.59
23 61 16 00-0052 EA 2-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,480.71	183.02
23 61 16 00-0053 EA 3 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,598.21	183.02
23 61 16 00-0054 EA 3-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,797.29	194.46
23 61 16 00-0055 EA 4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	3,348.86	205.90
23 61 16 00-0056 EA 4-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	3,683.34	211.57
23 61 16 00-0057 Reciprocating Hermetic Type Refrigerant Compressors (23 61 16 00-0041)		
23 61 16 00-0058 EA 5 Ton Refrigerant Compressor, Reciprocating Hermetic Type	4,457.14	569.60
23 61 16 00-0059 EA 10 Ton Refrigerant Compressor, Reciprocating Hermetic Type	8,787.40	712.00
23 61 16 00-0060 EA 15 Ton Refrigerant Compressor, Reciprocating Hermetic Type	14,938.85	866.80
23 61 16 00-0061 EA 20 Ton Refrigerant Compressor, Reciprocating Hermetic Type	19,118.11	996.80
23 61 16 00-0062 EA 25 Ton Refrigerant Compressor, Reciprocating Hermetic Type	21,108.61	1,107.56
23 61 16 00-0063 EA 30 Ton Refrigerant Compressor, Reciprocating Hermetic Type	23,388.41	1,246.00
23 61 16 00-0064 EA 35 Ton Refrigerant Compressor, Reciprocating Hermetic Type	30,405.59	1,424.00
23 61 16 00-0065 EA 40 Ton Refrigerant Compressor, Reciprocating Hermetic Type	39,441.86	1,424.00
23 61 16 00-0066 EA 50 Ton Refrigerant Compressor, Reciprocating Hermetic Type	48,794.68	1,661.34
23 61 16 00-0067 EA 60 Ton Refrigerant Compressor, Reciprocating Hermetic Type	55,008.56	1,780.00
23 61 16 00-0068 EA 70 Ton Refrigerant Compressor, Reciprocating Hermetic Type	58,133.80	1,865.42
23 61 16 00-0069 EA 75 Ton Refrigerant Compressor, Reciprocating Hermetic Type	59,730.41	1,957.57
23 61 16 00-0070 EA 80 Ton Refrigerant Compressor, Reciprocating Hermetic Type	61,465.67	1,965.16
23 61 16 00-0071 EA 90 Ton Refrigerant Compressor, Reciprocating Hermetic Type	64,571.02	2,057.64
23 61 16 00-0072 EA 100 Ton Refrigerant Compressor, Reciprocating Hermetic Type	67,714.58	2,142.74
23 61 19 Scroll Refrigerant Compressors (23 61)		
23 61 19 00-0001 Scroll Refrigerant Compressors (23 61 19)		
23 61 19 00-0002 EA Up To 3 Ton Scroll Refrigerant Compressor	1,516.81	182.81
23 61 19 00-0003 EA 3.5 Ton Scroll Refrigerant Compressor	1,590.16	194.58
23 61 19 00-0004 EA 4 Ton Scroll Refrigerant Compressor	1,628.57	205.80
23 61 19 00-0005 EA 4.5 Ton Scroll Refrigerant Compressor	1,660.25	211.68
23 61 19 00-0006 EA 5 Ton Scroll Refrigerant Compressor	2,056.49	267.26
23 61 19 00-0007 EA 7.5 Ton Scroll Refrigerant Compressor	3,924.85	400.90
23 61 19 00-0008 EA 8.75 Ton Scroll Refrigerant Compressor	4,489.93	467.72
23 61 19 00-0009 EA 10 Ton Scroll Refrigerant Compressor	5,029.60	534.53
23 61 19 00-0010 EA 12 Ton Scroll Refrigerant Compressor	6,078.88	641.44
23 61 19 00-0011 EA 13.5 Ton Scroll Refrigerant Compressor	7,170.45	721.62
23 61 19 00-0012 EA 15 Ton Scroll Refrigerant Compressor	8,414.05	801.81
23 61 19 00-0013 EA 20 Ton Scroll Refrigerant Compressor	11,863.26	1,069.07

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Central Cooling Equipment

23 60

Refrigerant Compressors

23 61

23

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 61 19 00-0014	EA	25 Ton Scroll Refrigerant Compressor		13,363.59	1,336.33
23 61 19 00-0015	EA	30 Ton Scroll Refrigerant Compressor		14,274.05	1,603.60
23 61 23 Rotary-Screw Refrigerant Compressors (23 61)					
23 61 23 00-0001 Rotary Screw Type Refrigerant Compressors (23 61 23)					
23 61 23 00-0002	EA	75 Ton Refrigerant Compressor, Rotary Screw Type		69,435.12	2,723.45
23 61 23 00-0003	EA	80 Ton Refrigerant Compressor, Rotary Screw Type		71,562.76	2,756.91
23 61 23 00-0004	EA	90 Ton Refrigerant Compressor, Rotary Screw Type		76,275.95	2,823.84
23 61 23 00-0005	EA	100 Ton Refrigerant Compressor, Rotary Screw Type		80,906.75	2,890.97
23 61 23 00-0006	EA	110 Ton Refrigerant Compressor, Rotary Screw Type		87,171.05	3,357.67
23 61 23 00-0007	EA	120 Ton Refrigerant Compressor, Rotary Screw Type		92,608.19	3,432.81
23 61 23 00-0008	EA	130 Ton Refrigerant Compressor, Rotary Screw Type		97,948.10	3,476.51
23 61 23 00-0009	EA	140 Ton Refrigerant Compressor, Rotary Screw Type		103,427.41	3,584.07
23 61 23 00-0010	EA	150 Ton Refrigerant Compressor, Rotary Screw Type		108,867.40	3,659.21
23 61 23 00-0011	EA	170 Ton Refrigerant Compressor, Rotary Screw Type		116,540.15	3,759.49
23 61 23 00-0012	EA	185 Ton Refrigerant Compressor, Rotary Screw Type		121,906.28	3,799.91
23 61 23 00-0013	EA	200 Ton Refrigerant Compressor, Rotary Screw Type		124,376.55	3,862.79
23 61 23 00-0014	EA	215 Ton Refrigerant Compressor, Rotary Screw Type		139,777.05	4,123.30
23 61 23 00-0015	EA	225 Ton Refrigerant Compressor, Rotary Screw Type		155,020.69	4,345.58
23 62 Packaged Compressor and Condenser Units (23 60)					
23 62 13 Packaged Air-Cooled Refrigerant Compressor and Condenser Units (23 62)					
23 62 13 00-0001 Combination Direct-Expansion Liquid Cooler And Compressors (23 62 13)					
Note: Shell and tube type. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.					
23 62 13 00-0002	EA	1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		7,618.06	987.82
23 62 13 00-0003	EA	5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		16,964.22	1,058.38
23 62 13 00-0004	EA	10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		29,835.59	1,128.93
23 62 13 00-0005	EA	15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		35,351.16	1,199.50
23 62 13 00-0006	EA	20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		41,948.48	1,270.06
23 62 13 00-0007	EA	25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		46,489.22	1,411.17
23 62 13 00-0008	EA	30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		47,898.70	1,627.48
23 62 13 00-0009	EA	40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		51,619.29	1,922.59
23 62 13 00-0010	EA	50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		55,078.99	2,082.80
23 62 13 00-0011	EA	60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		63,128.20	2,243.03
23 62 13 00-0012	EA	75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		71,371.01	2,483.35
23 62 13 00-0013	EA	80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		75,434.28	2,581.89
23 62 13 00-0014	EA	90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		85,171.31	2,743.27
23 62 13 00-0015	EA	100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube		93,095.67	2,904.63
23 62 13 00-0016 Direct-Expansion Liquid Cooler Shell And Tube Type (23 62 13)					
Note: For built-up systems. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Excludes compressors. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.					
23 62 13 00-0017	EA	1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		7,268.72	987.82
23 62 13 00-0018	EA	5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		14,975.90	1,058.38
23 62 13 00-0019	EA	10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		23,403.08	1,128.93
23 62 13 00-0020	EA	15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		25,277.52	1,199.50
23 62 13 00-0021	EA	20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		27,151.98	1,270.06
23 62 13 00-0022	EA	25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		32,186.37	1,411.17
23 62 13 00-0023	EA	30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		36,531.25	1,627.48
23 62 13 00-0024	EA	40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		46,940.90	1,922.59
23 62 13 00-0025	EA	50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		52,646.97	2,082.80
23 62 13 00-0026	EA	60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		56,985.48	2,243.03
23 62 13 00-0027	EA	75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		65,528.07	2,483.35
23 62 13 00-0028	EA	80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		69,406.01	2,581.89
23 62 13 00-0029	EA	90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		76,136.45	2,743.27
23 62 13 00-0030	EA	100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems		86,825.52	2,904.63
23 62 13 00-0031 Packaged Chiller With Remote Air-Cooled Condenser (23 62 13)					
Note: With remote air-cooled condenser rated by cooling capacity. Units are factory assembled package type. Includes hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, vibration eliminators, phase monitoring for 3 phase units, start-up and equipment rigging. Units include dual compressors. Excludes piping and power wiring.					
23 62 13 00-0032	EA	15 Ton Packaged Chiller With Remote Air-Cooled Condensers		54,683.87	9,341.32
For Gas Fired Engine Driven, Add				9,536.29	
23 62 13 00-0033	EA	20 Ton Packaged Chiller With Remote Air-Cooled Condensers		61,925.94	9,846.24
For Gas Fired Engine Driven, Add				10,909.00	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 62 Packaged Compressor and Condenser Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 62 13 00-0034 EA 25 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	72,071.72 12,807.90	10,714.93
23 62 13 00-0035 EA 30 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	80,739.90 14,441.13	11,384.68
23 62 13 00-0036 EA 40 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	101,371.22 18,390.83	12,562.39
23 62 13 00-0037 EA 50 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	112,066.22 20,462.56	13,010.99
23 62 13 00-0038 EA 60 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	121,820.46 22,263.36	14,011.85
23 62 13 00-0039 EA 70 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	148,626.96 27,449.60	14,992.20
23 62 13 00-0040 EA 75 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	150,411.94 27,790.22	15,288.69
23 62 13 00-0041 EA 80 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	153,029.80 28,214.13	15,953.48
23 62 13 00-0042 EA 90 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	170,100.36 31,519.53	16,678.66
23 62 13 00-0043 EA 100 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	188,486.31 35,077.64	17,472.91
23 62 13 00-0044 EA 110 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	209,284.04 39,106.21	18,346.50
23 62 13 00-0045 EA 120 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	226,453.06 42,395.24	19,312.15
23 62 13 00-0046 EA 140 Ton Packaged Chiller With Remote Air-Cooled Condensers..... <i>For Gas Fired Engine Driven, Add</i>	250,169.74 46,977.73	20,385.00

23 62 23 Packaged Water-Cooled Refrigerant Compressor and Condenser Units (23 62)**23 62 23 00-0001 Water Cooled Condensing Units (23 62 23)**

Note: Includes compressor, condenser and motor, and equipment rigging. Excludes piping and power wiring.

23 62 23 00-0002 EA 5 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor.....	8,555.32	772.30
23 62 23 00-0003 EA 10 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor.....	12,982.35	1,127.89
23 62 23 00-0004 EA 15 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor.....	14,874.04	1,222.35
23 62 23 00-0005 EA 20 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor.....	18,451.37	1,466.82
23 62 23 00-0006 EA 30 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor.....	19,911.30	1,725.74
23 62 23 00-0007 EA 60 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor.....	42,395.26	2,587.25
23 62 23 00-0008 EA 80 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor.....	52,627.73	3,122.59
23 62 23 00-0009 EA 120 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor.....	72,902.59	3,416.60

23 63 Refrigerant Condensers (23 60)**23 63 13 Air-Cooled Refrigerant Condensers (23 63)****23 63 13 00-0001 Air-Cooled Condensing Units (23 63 13)**

Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers and phase monitoring for 3 phase units and equipment rigging. Meets minimum ASHRAE EER requirements. Excludes piping and power wiring.

23 63 13 00-0002 EA 6 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	7,423.31	772.30
<i>For >10 To 25, Deduct</i>	-187.61	
<i>For >25 To 50, Deduct</i>	-312.68	
<i>For >50, Deduct</i>	-500.29	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,105.40	
<i>For Winter Start Control, Add</i>	367.12	
23 63 13 00-0003 EA 7.5 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	8,893.36	916.76
<i>For >10 To 25, Deduct</i>	-225.13	
<i>For >25 To 50, Deduct</i>	-375.22	
<i>For >50, Deduct</i>	-600.35	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	947.60	
<i>For Winter Start Control, Add</i>	288.99	
23 63 13 00-0004 EA 10 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	11,581.04	1,127.89
<i>For >10 To 25, Deduct</i>	-296.14	
<i>For >25 To 50, Deduct</i>	-493.57	
<i>For >50, Deduct</i>	-789.72	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,118.40	
<i>For Winter Start Control, Add</i>	368.39	
23 63 13 00-0005 EA 12.5 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	14,394.29	1,173.46
<i>For >10 To 25, Deduct</i>	-378.49	
<i>For >25 To 50, Deduct</i>	-630.82	
<i>For >50, Deduct</i>	-1,009.31	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,327.63	
<i>For Winter Start Control, Add</i>	430.12	
23 63 13 00-0006 EA 15 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	17,213.24	1,222.35
<i>For >10 To 25, Deduct</i>	-460.84	
<i>For >25 To 50, Deduct</i>	-768.06	
<i>For >50, Deduct</i>	-1,228.90	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,384.68	
<i>For Winter Start Control, Add</i>	338.82	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central Cooling Equipment			23 60	
Refrigerant Condensers			23 63	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63 13 00-0007	EA		20 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	22,217.21	1,466.82
			For >10 To 25, Deduct	-599.84	
			For >25 To 50, Deduct	-999.74	
			For >50, Deduct	-1,599.58	
			For Low Ambient Protection, 0 Degree F, Add	1,755.30	
			For Winter Start Control, Add	422.19	
23 63 13 00-0008	EA		25 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	25,304.60	1,577.94
			For >10 To 25, Deduct	-687.48	
			For >25 To 50, Deduct	-1,145.79	
			For >50, Deduct	-1,833.27	
			For Low Ambient Protection, 0 Degree F, Add	1,857.55	
			For Winter Start Control, Add	468.03	
23 63 13 00-0009	EA		30 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	29,047.48	1,722.40
			For >10 To 25, Deduct	-793.24	
			For >25 To 50, Deduct	-1,322.07	
			For >50, Deduct	-2,115.31	
			For Low Ambient Protection, 0 Degree F, Add	1,973.59	
			For Winter Start Control, Add	525.02	
23 63 13 00-0010	EA		40 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	40,066.01	2,058.05
			For >10 To 25, Deduct	-1,106.76	
			For >25 To 50, Deduct	-1,844.60	
			For >50, Deduct	-2,951.37	
			For Low Ambient Protection, 0 Degree F, Add	2,638.09	
			For Winter Start Control, Add	686.31	
23 63 13 00-0011	EA		50 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	48,625.72	2,587.25
			For >10 To 25, Deduct	-1,339.07	
			For >25 To 50, Deduct	-2,231.78	
			For >50, Deduct	-3,570.85	
			For Low Ambient Protection, 0 Degree F, Add	2,782.95	
			For Winter Start Control, Add	622.19	
23 63 13 00-0012	EA		60 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	56,082.52	2,855.54
			For >10 To 25, Deduct	-1,553.85	
			For >25 To 50, Deduct	-2,589.75	
			For >50, Deduct	-4,143.60	
			For Low Ambient Protection, 0 Degree F, Add	3,143.69	
			For Winter Start Control, Add	687.73	
23 63 13 00-0013	EA		80 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	72,807.83	3,122.59
			For >10 To 25, Deduct	-2,039.77	
			For >25 To 50, Deduct	-3,399.61	
			For >50, Deduct	-5,439.38	
			For Low Ambient Protection, 0 Degree F, Add	3,923.59	
			For Winter Start Control, Add	821.52	
23 63 13 00-0014	EA		100 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	100,660.76	2,811.56
			For >10 To 25, Deduct	-2,848.12	
			For >25 To 50, Deduct	-4,746.86	
			For >50, Deduct	-7,594.98	
			For Low Ambient Protection, 0 Degree F, Add	4,278.99	
			For Winter Start Control, Add	1,047.04	
23 63 13 00-0015	EA		120 Ton Air-Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	124,274.31	2,906.87
			For >10 To 25, Deduct	-3,550.70	
			For >25 To 50, Deduct	-5,917.84	
			For >50, Deduct	-9,468.54	
			For Low Ambient Protection, 0 Degree F, Add	5,030.08	
23 63 13 00-0016			Air-Cooled Condensing Units (23 63 13) Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers, 14 SEER, 1 or 3 phase and equipment rigging. Higher SEER ratings can be obtained by oversizing evaporators. Includes 20' length of piping (liquid line and insulated suction line). Excludes additional piping and power wiring.		
23 63 13 00-0017	EA		1.5 Ton, 14 SEER, Air-Cooled Condensing Unit.....	2,618.84	397.34
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			For >10 To 25, Deduct	-60.69	
			For >25 To 50, Deduct	-101.14	
			For >50, Deduct	-161.83	
			For 15 SEER, Add	485.48	
			For 16 SEER, Add	829.36	
			For 18 SEER, Add	1,739.64	
23 63 13 00-0018	EA		2 Ton, 14 SEER, Air-Cooled Condensing Unit	2,813.94	441.70
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			For >10 To 25, Deduct	-64.55	
			For >25 To 50, Deduct	-107.59	
			For >50, Deduct	-172.14	
			For 15 SEER, Add	516.41	
			For 16 SEER, Add	882.21	
			For 18 SEER, Add	1,850.48	
23 63 13 00-0019	EA		2.5 Ton, 14 SEER, Air-Cooled Condensing Unit.....	2,982.83	485.87
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			For >10 To 25, Deduct	-67.63	
			For >25 To 50, Deduct	-112.72	
			For >50, Deduct	-180.35	
			For 15 SEER, Add	541.05	
			For 16 SEER, Add	924.30	
			For 18 SEER, Add	1,938.78	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 63 Refrigerant Condensers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63 13 00-0020 EA 3 Ton, 14 SEER, Air-Cooled Condensing Unit.....	3,431.34	529.77
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-79.10	
For >25 To 50, Deduct	-131.83	
For >50, Deduct	-210.93	
For 15 SEER, Add	632.80	
For 16 SEER, Add	1,081.04	
For 18 SEER, Add	2,267.54	
23 63 13 00-0021 EA 3.5 Ton, 14 SEER, Air-Cooled Condensing Unit.....	3,630.81	574.21
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-83.10	
For >25 To 50, Deduct	-138.50	
For >50, Deduct	-221.59	
For 15 SEER, Add	664.78	
For 16 SEER, Add	1,135.67	
For 18 SEER, Add	2,382.14	
23 63 13 00-0022 EA 4 Ton, 14 SEER, Air-Cooled Condensing Unit.....	4,050.93	618.38
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-93.71	
For >25 To 50, Deduct	-156.19	
For >50, Deduct	-249.91	
For 15 SEER, Add	749.72	
For 16 SEER, Add	1,280.77	
For 18 SEER, Add	2,686.49	
23 63 13 00-0023 EA 5 Ton, 14 SEER, Air-Cooled Condensing Unit.....	4,579.07	662.22
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-107.57	
For >25 To 50, Deduct	-179.29	
For >50, Deduct	-286.86	
For 15 SEER, Add	860.58	
For 16 SEER, Add	1,470.15	
For 18 SEER, Add	3,083.74	
23 63 13 00-0024 Removal And Reinstallation Of AC Condensing Unit (23 63 13)		
Note: Includes storage and cleaning.		
23 63 13 00-0025 EA Removal And Reinstallation Of Up To 5 Tons Air-Cooled Condensing Unit.....	407.28	
23 63 13 00-0026 EA Removal And Reinstallation Of 7.5 To 15 Tons Air-Cooled Condensing Unit.....	1,527.29	
23 63 13 00-0027 EA Removal And Reinstallation Of 20 To 40 Tons Air-Cooled Condensing Unit.....	2,334.51	

23 64 Packaged Water Chillers (23 60)

See CSI section 26 29 23 00-0000 for variable frequency motor controllers.

23 64 13 Absorption Water Chillers (23 64)**23 64 13 16 Indirect-Fired Absorption Water Chillers (23 64 13)****23 64 13 16-0001 Packaged, Steam Driven, Water Cooled Absorption Chillers (23 64 13 16)**

Note: Includes refrigerant monitor with scanner, audible alarm, and lights, 460 voltage motor rating, and all accessories, controls (water temperature controller with PE switches, flow switch, etc.) factory wired and installed control panel, and also includes start-up. Price includes closed transition starter. (rated by cooling capacity in tons). Units are factory assembled package type consisting of motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, controls, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Exclude piping and power wiring.

23 64 13 16-0002 EA 50 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	218,449.98	12,744.45
For Two Stage Unit, Add	142,719.43	
23 64 13 16-0003 EA 100 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	275,738.51	14,669.86
For Two Stage Unit, Add	181,281.07	
23 64 13 16-0004 EA 150 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	349,378.48	15,770.11
For Two Stage Unit, Add	231,948.85	
23 64 13 16-0005 EA 200 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	388,028.30	16,870.35
For Two Stage Unit, Add	258,123.53	
23 64 13 16-0006 EA 250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	433,231.51	17,359.34
For Two Stage Unit, Add	289,374.58	
23 64 13 16-0007 EA 300 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	487,913.02	17,970.59
For Two Stage Unit, Add	327,162.65	
23 64 13 16-0008 EA 350 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	523,154.91	18,581.84
For Two Stage Unit, Add	351,342.97	
23 64 13 16-0009 EA 400 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	622,309.13	19,559.83
For Two Stage Unit, Add	419,968.54	
23 64 13 16-0010 EA 500 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	696,430.32	20,171.06
For Two Stage Unit, Add	471,364.36	
23 64 13 16-0011 EA 650 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	843,450.18	20,782.31
For Two Stage Unit, Add	573,789.27	
23 64 13 16-0012 EA 750 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	914,422.91	22,249.29
For Two Stage Unit, Add	622,296.60	
23 64 13 16-0013 EA 850 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	980,291.25	23,594.04
For Two Stage Unit, Add	667,328.65	
23 64 13 16-0014 EA 950 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	1,051,805.78	25,331.91
For Two Stage Unit, Add	715,998.51	
23 64 13 16-0015 EA 1,125 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	1,203,822.36	25,949.76
For Two Stage Unit, Add	821,866.40	
23 64 13 16-0016 EA 1,250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	1,318,442.43	27,432.62
For Two Stage Unit, Add	900,963.62	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Cooling Equipment			23 60
Packaged Water Chillers			23 64

23

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 13 16-0017	EA	1,450 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	1,539,609.92	28,668.31	
		For Two Stage Unit, Add	1,054,792.29		
23 64 13 16-0018	EA	1,700 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	1,799,401.22	29,533.31	
		For Two Stage Unit, Add	1,235,954.22		
23 64 16 Centrifugal Water Chillers (23 64)					
23 64 16 13 Air-Cooled Centrifugal Water Chillers (23 64 16)					
23 64 16 13-0001 Magnetic Bearing, Air-Cooled Centrifugal Chillers (23 64 16 13)					
Note: SMARTD air-cooled oil-free centrifugal chiller with variable speed control, magnetic bearings, lowest ARI IPLV in industry. Includes start up, freight, R-134a refrigerant charge, BACnet or equivalent interface.					
23 64 16 13-0002	EA	85 Ton, Single Compressor, Magnetic Bearing, Air-Cooled Centrifugal Chiller	252,569.45	6,771.55	
		For 5 Year Parts Only Compressor Warranty, Add	7,023.60		
23 64 16 13-0003	EA	175 Ton, Two Compressor, Magnetic Bearing, Air-Cooled Centrifugal Chiller	358,489.64	9,082.48	
		For 5 Year Parts Only Compressor Warranty, Add	14,047.20		
23 64 16 13-0004	EA	240 Ton, Three Compressor, Magnetic Bearing, Air-Cooled Centrifugal Chiller	448,340.12	9,605.46	
		For 5 Year Parts Only Compressor Warranty, Add	21,070.80		
23 64 16 16 Water-Cooled Centrifugal Water Chillers (23 64 16)					
23 64 16 16-0001 Packaged Water-Cooled Centrifugal Water Chillers (23 64 16 16)					
Note: Includes integral heat exchanger, refrigerant monitor with scanner, audible alarm, and lights, 460 voltage motor rating, controls (water temperature controller with PE switches, flow switch, etc.), start-up, and closed transition starter. Rated by cooling capacity in tons. Units are factory assembled package type consisting of compressor, motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, factory wired and installed control panel, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.					
23 64 16 16-0002	EA	180 Ton Packaged Water-Cooled Centrifugal Water Chiller	166,401.34	6,974.91	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	6,207.89		
23 64 16 16-0003	EA	200 Ton Packaged Water-Cooled Centrifugal Water Chiller	181,902.44	7,151.56	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	6,816.44		
23 64 16 16-0004	EA	225 Ton Packaged Water-Cooled Centrifugal Water Chiller	200,637.52	7,333.34	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	7,554.31		
23 64 16 16-0005	EA	250 Ton Packaged Water-Cooled Centrifugal Water Chiller	218,922.23	7,627.35	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	8,266.80		
23 64 16 16-0006	EA	275 Ton Packaged Water-Cooled Centrifugal Water Chiller	236,792.38	8,058.03	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	8,953.94		
23 64 16 16-0007	EA	300 Ton Packaged Water-Cooled Centrifugal Water Chiller	254,009.25	8,476.98	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	9,615.70		
23 64 16 16-0008	EA	325 Ton Packaged Water-Cooled Centrifugal Water Chiller	270,663.82	8,941.77	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	10,252.01		
23 64 16 16-0009	EA	350 Ton Packaged Water-Cooled Centrifugal Water Chiller	286,647.76	9,382.72	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	10,863.04		
23 64 16 16-0010	EA	375 Ton Packaged Water-Cooled Centrifugal Water Chiller	301,933.22	9,784.80	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	11,448.62		
23 64 16 16-0011	EA	400 Ton Packaged Water-Cooled Centrifugal Water Chiller	316,448.53	10,102.28	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	12,008.83		
23 64 16 16-0012	EA	425 Ton Packaged Water-Cooled Centrifugal Water Chiller	330,623.46	10,602.76	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	12,543.68		
23 64 16 16-0013	EA	450 Ton Packaged Water-Cooled Centrifugal Water Chiller	344,017.49	11,011.81	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	13,053.15		
23 64 16 16-0014	EA	475 Ton Packaged Water-Cooled Centrifugal Water Chiller	356,768.73	11,415.60	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	13,537.26		
23 64 16 16-0015	EA	500 Ton Packaged Water-Cooled Centrifugal Water Chiller	368,739.56	11,728.31	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	13,995.99		
23 64 16 16-0016	EA	550 Ton Packaged Water-Cooled Centrifugal Water Chiller	390,439.98	12,144.20	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	14,837.29		
23 64 16 16-0017	EA	600 Ton Packaged Water-Cooled Centrifugal Water Chiller	409,359.55	12,408.27	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	15,577.11		
23 64 16 16-0018	EA	650 Ton Packaged Water-Cooled Centrifugal Water Chiller	426,301.50	13,021.59	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	16,215.38		
23 64 16 16-0019	EA	700 Ton Packaged Water-Cooled Centrifugal Water Chiller	440,721.39	13,644.20	
		Note: Includes integral heat exchanger, controls, and 440/460 V motor.			
		For 208/230 Voltage Motor Rating, Add	16,752.17		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 64 Packaged Water Chillers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 16 16-0020 EA 750 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	452,708.60	14,329.16
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	17,187.64	
23 64 16 16-0021 EA 800 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	480,859.60	15,020.48
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	18,269.26	
23 64 16 16-0022 EA 850 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	508,811.76	15,709.59
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	19,343.08	
23 64 16 16-0023 EA 900 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	536,671.45	16,464.85
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	20,408.93	
23 64 16 16-0024 EA 950 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	564,452.91	17,296.39
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	21,466.76	
23 64 16 16-0025 EA 1,000 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	592,021.68	18,315.84
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	22,516.56	
23 64 16 16-0026 EA 1,100 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	642,334.11	21,133.74
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	24,349.93	
23 64 16 16-0027 EA 1,200 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	690,760.67	23,959.66
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	26,107.35	
23 64 16 16-0028 EA 1,300 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	736,431.38	26,248.81
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	27,788.66	
23 64 16 16-0029 EA 1,400 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	778,801.25	27,658.25
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	29,393.87	
23 64 16 16-0030 EA 1,500 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	819,189.88	29,021.60
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	30,922.74	
23 64 16 16-0031 EA 1,600 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	856,864.71	29,862.87
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	32,376.26	
23 64 16 16-0032 EA 1,700 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	894,605.43	31,946.26
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	33,753.45	
23 64 16 16-0033 EA 1,800 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	929,609.02	33,504.61
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	35,054.53	
23 64 16 16-0034 EA 1,900 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	963,446.53	35,526.46
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	36,279.51	
23 64 16 16-0035 EA 2,000 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	994,188.42	36,795.29
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	37,428.53	
23 64 16 16-0036 EA 2,250 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	1,058,746.42	38,878.06
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	39,968.32	
23 64 16 16-0037 EA 2,500 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	1,116,311.98	41,210.70
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	42,032.79	
23 64 16 16-0038 Magnetic Bearing, Water Cooled Centrifugal Water Chillers (23 64 16 16)		
Note: SMARTD water cooled oil-free centrifugal chiller with variable speed control, magnetic bearings, 10 amp maximum inrush current and ARI part load <0.4kW per ton. Includes start up, freight, R-134a refrigerant charge, BACnet or equivalent interface, 12/18 month compressor warranty.		
23 64 16 16-0039 EA 60 To 85 Ton, Single Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller.....	159,013.31	5,867.94
For 5 Year Parts Only Compressor Warranty, Add	7,023.60	
For Marine Water Box Connections, Add	4,456.76	
23 64 16 16-0040 EA 130 To 137 Ton, Single Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller.....	200,232.39	6,820.27
For 5 Year Parts Only Compressor Warranty, Add	7,023.60	
For Marine Water Box Connections, Add	4,456.76	
23 64 16 16-0041 EA 125 To 170 Ton, Dual Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller.....	250,807.16	6,974.91
For 5 Year Parts Only Compressor Warranty, Add	14,047.20	
For Marine Water Box Connections, Add	4,456.76	
23 64 16 16-0042 EA 240 To 270 Ton, Dual Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller.....	326,643.73	8,058.03
For 5 Year Parts Only Compressor Warranty, Add	14,047.20	
For Marine Water Box Connections, Add	4,456.76	
23 64 16 16-0043 EA 210 To 260 Ton, Three Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller.....	329,175.67	7,627.35
For 5 Year Parts Only Compressor Warranty, Add	21,070.80	
For Marine Water Box Connections, Add	4,456.76	
23 64 16 16-0044 EA 355 To 405 Ton, Three Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller.....	493,879.35	10,102.28
For 5 Year Parts Only Compressor Warranty, Add	21,070.80	
For Marine Water Box Connections, Add	4,456.76	
23 64 16 16-0045 EA 299 To 340 Ton, Four Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller.....	437,546.00	9,382.72
For 5 Year Parts Only Compressor Warranty, Add	25,753.20	
For Marine Water Box Connections, Add	6,207.63	
23 64 16 16-0046 EA 540 Ton, Four Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller.....	607,961.40	12,144.20
For 5 Year Parts Only Compressor Warranty, Add	25,753.20	
For Marine Water Box Connections, Add	6,207.63	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central Cooling Equipment			23 60
Packaged Water Chillers			23 64

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 16 16-0047 EA 425 Ton, Five Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller..... For 5 Year Parts Only Compressor Warranty, Add For Marine Water Box Connections, Add	544,604.61 30,435.60 6,207.63	10,602.76
23 64 16 16-0048 EA 650 Ton, Five Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller..... For 5 Year Parts Only Compressor Warranty, Add For Marine Water Box Connections, Add	728,933.45 30,435.60 6,207.63	13,021.59
23 64 16 16-0049 EA 510 Ton, Six Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller..... For 5 Year Parts Only Compressor Warranty, Add For Marine Water Box Connections, Add	648,491.41 35,118.00 6,525.97	11,728.31
23 64 16 16-0050 EA 800 Ton, Six Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller..... For 5 Year Parts Only Compressor Warranty, Add For Marine Water Box Connections, Add	835,541.17 35,118.00 6,525.97	15,020.48

23 64 23 Scroll Water Chillers (23 64)**23 64 23 13 Air-Cooled Scroll Water Chillers (23 64 23)****23 64 23 13-0001 Packaged Air-Cooled Scroll Water Chillers (23 64 23 13)**

Note: With integral heat exchanger. Rated by cooling capacity, tons. Units are factory assembled package type. Includes scroll compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, flow switch, operation and safety controls, isolation valves, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, factory charge of refrigerant, freeze protection thermostat, start-up and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.

23 64 23 13-0002 EA 10 Ton Packaged Air-Cooled Scroll Water Chiller	31,637.70	1,757.85
23 64 23 13-0003 EA 15 Ton Packaged Air-Cooled Scroll Water Chiller	46,481.86	1,780.39
23 64 23 13-0004 EA 18 Ton Packaged Air-Cooled Scroll Water Chiller	50,736.94	1,904.34
23 64 23 13-0005 EA 22 Ton Packaged Air-Cooled Scroll Water Chiller	55,832.20	2,039.56
23 64 23 13-0006 EA 25 Ton Packaged Air-Cooled Scroll Water Chiller	56,719.80	2,174.78
23 64 23 13-0007 EA 30 Ton Packaged Air-Cooled Scroll Water Chiller	59,839.65	2,332.54
23 64 23 13-0008 EA 40 Ton Packaged Air-Cooled Scroll Water Chiller	68,455.64	2,524.09
23 64 23 13-0009 EA 45 Ton Packaged Air-Cooled Scroll Water Chiller	73,513.34	2,738.19
23 64 23 13-0010 EA 50 Ton Packaged Air-Cooled Scroll Water Chiller	77,643.83	2,817.07
23 64 23 13-0011 EA 55 Ton Packaged Air-Cooled Scroll Water Chiller	81,094.99	2,941.02
23 64 23 13-0012 EA 60 Ton Packaged Air-Cooled Scroll Water Chiller	83,818.12	3,042.43
23 64 23 13-0013 EA 70 Ton Packaged Air-Cooled Scroll Water Chiller	96,720.65	3,425.55
23 64 23 13-0014 EA 80 Ton Packaged Air-Cooled Scroll Water Chiller	104,094.30	3,752.33
23 64 23 13-0015 EA 90 Ton Packaged Air-Cooled Scroll Water Chiller	106,005.87	3,763.60
23 64 23 13-0016 EA 100 Ton Packaged Air-Cooled Scroll Water Chiller	112,212.15	3,774.87
23 64 23 13-0017 EA 110 Ton Packaged Air-Cooled Scroll Water Chiller	118,255.89	3,786.14
23 64 23 13-0018 EA 120 Ton Packaged Air-Cooled Scroll Water Chiller	124,374.77	3,797.41
23 64 23 13-0019 EA 130 Ton Packaged Air-Cooled Scroll Water Chiller	130,806.37	3,808.68

23 64 23 16 Water-Cooled Scroll Water Chillers (23 64 23)**23 64 23 16-0001 Packaged Water Cooled Scroll Water Chillers (23 64 23 16)**

Note: Integral heat exchanger. Rated by cooling capacity in tons. Units are factory assembled package type. Includes hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, flow switch, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.

23 64 23 16-0002 EA 20 Ton Packaged Water Cooled Scroll Water Chiller	39,135.07	2,248.43
23 64 23 16-0003 EA 25 Ton Packaged Water Cooled Scroll Water Chiller	45,073.40	2,316.36
23 64 23 16-0004 EA 30 Ton Packaged Water Cooled Scroll Water Chiller	50,007.85	2,542.88
23 64 23 16-0005 EA 40 Ton Packaged Water Cooled Scroll Water Chiller	61,503.16	3,252.75
23 64 23 16-0006 EA 50 Ton Packaged Water Cooled Scroll Water Chiller	68,043.23	3,564.68
23 64 23 16-0007 EA 60 Ton Packaged Water Cooled Scroll Water Chiller	71,472.24	3,938.52

23 64 26 Rotary-Screw Water Chillers (23 64)**23 64 26 13 Air-Cooled, Rotary-Screw Water Chillers (23 64 26)****23 64 26 13-0001 Packaged Air-Cooled Rotary-Screw Water Chillers (23 64 26 13)**

Note: Includes hermetic direct-drive compressors start-up, coil guards, copper fins, copper tubes, factory wired and installed control panel, refrigerant monitor with scanner, audible alarm, and lights, phase monitoring for 3 phase units, 440/460 voltage motor rating, motor starters, factory charge of refrigerant and equipment rigging. Units greater than 20 tons include dual compressors. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.

23 64 26 13-0002 EA 70 Ton Packaged Air-Cooled Rotary-Screw Water Chiller	111,873.28	4,315.75
For Aluminum Fins Instead Of Copper, Deduct	-1,581.08	
For 208/230 Voltage Motor Rating, Add	4,216.21	
23 64 26 13-0003 EA 80 Ton Packaged Air-Cooled Rotary-Screw Water Chiller	120,230.30	4,687.60
For Aluminum Fins Instead Of Copper, Deduct	-1,698.15	
For 208/230 Voltage Motor Rating, Add	4,528.41	
23 64 26 13-0004 EA 90 Ton Packaged Air-Cooled Rotary-Screw Water Chiller	126,476.06	4,890.43
For Aluminum Fins Instead Of Copper, Deduct	-1,787.11	
For 208/230 Voltage Motor Rating, Add	4,765.62	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 64 Packaged Water Chillers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 26 13-0005 EA 100 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	131,130.91 -1,848.65 4,929.72	5,262.29
23 64 26 13-0006 EA 110 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	140,745.91 -1,987.13 5,299.00	5,521.45
23 64 26 13-0007 EA 120 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	149,590.52 -2,117.09 5,645.57	5,634.13
23 64 26 13-0008 EA 130 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	157,921.95 -2,237.84 5,967.56	5,825.70
23 64 26 13-0009 EA 140 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	162,978.37 -2,310.81 6,162.16	5,949.65
23 64 26 13-0010 EA 160 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	172,117.23 -2,445.02 6,520.05	6,073.60
23 64 26 13-0011 EA 170 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	179,667.84 -2,554.05 6,810.80	6,265.16
23 64 26 13-0012 EA 180 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	189,469.41 -2,695.50 7,187.99	6,513.06
23 64 26 13-0013 EA 200 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	198,069.08 -2,821.62 7,524.32	6,648.28
23 64 26 13-0014 EA 215 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	212,357.46 -3,033.24 8,088.64	6,760.96
23 64 26 13-0015 EA 225 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	221,853.00 -3,174.32 8,464.86	6,828.57
23 64 26 13-0016 EA 240 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	231,348.54 -3,315.40 8,841.07	6,884.92
23 64 26 13-0017 EA 260 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	259,767.55 -3,738.64 9,969.72	7,020.14
23 64 26 13-0018 EA 280 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	274,067.22 -3,950.27 10,534.04	7,155.36
23 64 26 13-0019 EA 300 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	293,058.30 -4,232.43 11,286.48	7,268.04
23 64 26 13-0020 EA 325 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	321,454.79 -4,655.67 12,415.12	7,391.98
23 64 26 13-0021 EA 350 Ton Packaged Air-Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Voltage Motor Rating, Add	350,501.48 -5,089.17 13,571.13	7,482.13

23 64 26 16 Water-Cooled, Rotary-Screw Water Chillers (23 64 26)**23 64 26 16-0001 Packaged Water Cooled Helical Rotary Water Chillers (23 64 26 16)**

Note: Integral heat exchanger. Rated by cooling capacity in tons. Factory assembled package type includes semi-hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gages, lead-lag switch, compressor unloaders, removable core filter dryer, 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, full factory refrigerant charge, vibration eliminators, NEMA 1 flow switches, wye-delta starter, extended warranty on compressor(s), start-up costs and equipment rigging. Excludes piping and power wiring.

23 64 26 16-0002 EA 70 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	73,850.10	5,501.20
23 64 26 16-0003 EA 80 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	80,145.30	5,715.13
23 64 26 16-0004 EA 90 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	85,614.27	5,867.94
23 64 26 16-0005 EA 100 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	90,377.71	6,115.50
23 64 26 16-0006 EA 110 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	95,107.15	6,283.59
23 64 26 16-0007 EA 125 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	100,867.29	6,460.00
23 64 26 16-0008 EA 130 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	136,078.21	6,640.56
23 64 26 16-0009 EA 150 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	141,269.41	6,820.27
23 64 26 16-0010 EA 175 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	145,156.46	6,989.09
23 64 26 16-0011 EA 190 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	146,627.95	7,338.60
23 64 26 16-0012 EA 200 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	145,590.75	7,692.51
23 64 26 16-0013 EA 210 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	154,036.02	7,857.18
23 64 26 16-0014 EA 235 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	167,400.28	8,029.06
23 64 26 16-0015 EA 255 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	177,850.03	8,396.55
23 64 26 16-0016 EA 275 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	187,736.22	8,736.39
23 64 26 16-0017 EA 300 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	199,243.23	9,082.48
23 64 26 16-0018 EA 350 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	218,725.02	9,887.49
23 64 26 16-0019 EA 400 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	234,678.24	10,875.26
23 64 26 16-0020 EA 450 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	247,120.78	11,963.28



Heating, Ventilating, and Air-Conditioning (HVAC)		23	23
Central Cooling Equipment		23 60	
Cooling Towers		23 65	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

23 65 Cooling Towers (23 60)

23 65 13 Forced-Draft Cooling Towers (23 65)

23 65 13 16 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13)

23 65 13 16-0001 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13 16)

23 65 13 16-0002 Blow-Thru Centrifugal Fan Type Galvanized Cooling Towers (23 65 13 16-0001)

Note: Including 2-speed motor internal piping, vibration switch, basin, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Design temperature 95 degree F in, 85 degree F out. Excludes crane and associated personnel.

23 65 13 16-0003	EA	50 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	19,786.48	1,870.53
		For Counter Flow Type, Add	1,273.55	
		For Stainless Steel Cooling Tower, Add	13,584.54	
23 65 13 16-0004	EA	75 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	27,263.55	2,287.46
		For Counter Flow Type, Add	1,788.70	
		For Stainless Steel Cooling Tower, Add	19,079.42	
23 65 13 16-0005	EA	100 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	34,193.09	2,873.41
		For Counter Flow Type, Add	2,217.98	
		For Stainless Steel Cooling Tower, Add	23,658.48	
23 65 13 16-0006	EA	125 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	39,431.14	3,211.46
		For Counter Flow Type, Add	2,570.27	
		For Stainless Steel Cooling Tower, Add	27,416.22	
23 65 13 16-0007	EA	150 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	45,063.52	3,617.11
		For Counter Flow Type, Add	2,943.68	
		For Stainless Steel Cooling Tower, Add	31,399.27	
23 65 13 16-0008	EA	175 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	50,668.28	4,056.58
		For Counter Flow Type, Add	3,311.64	
		For Stainless Steel Cooling Tower, Add	35,324.18	
23 65 13 16-0009	EA	200 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	56,863.26	4,518.57
		For Counter Flow Type, Add	3,720.49	
		For Stainless Steel Cooling Tower, Add	39,685.19	
23 65 13 16-0010	EA	225 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	62,148.27	5,093.26
		For Counter Flow Type, Add	4,047.56	
		For Stainless Steel Cooling Tower, Add	43,174.00	
23 65 13 16-0011	EA	250 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	67,712.74	5,656.67
		For Counter Flow Type, Add	4,396.44	
		For Stainless Steel Cooling Tower, Add	46,895.39	
23 65 13 16-0012	EA	275 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	74,166.28	6,693.35
		For Counter Flow Type, Add	4,756.23	
		For Stainless Steel Cooling Tower, Add	50,733.08	
23 65 13 16-0013	EA	300 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	80,607.73	7,414.52
		For Counter Flow Type, Add	5,151.44	
		For Stainless Steel Cooling Tower, Add	54,948.72	
23 65 13 16-0014	EA	325 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	84,940.54	7,887.79
		For Counter Flow Type, Add	5,424.01	
		For Stainless Steel Cooling Tower, Add	57,856.06	
23 65 13 16-0015	EA	350 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	90,010.74	8,349.79
		For Counter Flow Type, Add	5,744.27	
		For Stainless Steel Cooling Tower, Add	61,272.18	
23 65 13 16-0016	EA	375 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	94,934.47	8,755.45
		For Counter Flow Type, Add	6,064.53	
		For Stainless Steel Cooling Tower, Add	64,688.31	
23 65 13 16-0017	EA	400 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	100,573.74	9,161.11
		For Counter Flow Type, Add	6,439.30	
		For Stainless Steel Cooling Tower, Add	68,685.90	
23 65 13 16-0018	EA	425 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	106,552.49	9,656.91
		For Counter Flow Type, Add	6,827.71	
		For Stainless Steel Cooling Tower, Add	72,828.86	
23 65 13 16-0019	EA	450 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	113,337.65	10,152.72
		For Counter Flow Type, Add	7,277.44	
		For Stainless Steel Cooling Tower, Add	77,625.98	
23 65 13 16-0020	EA	475 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	119,930.56	10,580.91
		For Counter Flow Type, Add	7,720.35	
		For Stainless Steel Cooling Tower, Add	82,350.40	
23 65 13 16-0021	EA	500 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	126,534.72	11,009.10
		For Counter Flow Type, Add	8,163.26	
		For Stainless Steel Cooling Tower, Add	87,074.82	
23 65 13 16-0022	EA	550 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	139,078.22	11,471.10
		For Counter Flow Type, Add	9,049.10	
		For Stainless Steel Cooling Tower, Add	96,523.68	
23 65 13 16-0023	EA	600 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	152,711.98	11,921.83
		For Counter Flow Type, Add	10,016.69	
		For Stainless Steel Cooling Tower, Add	106,844.74	
23 65 13 16-0024	EA	650 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	158,253.39	12,169.73
		For Counter Flow Type, Add	10,425.54	
		For Stainless Steel Cooling Tower, Add	111,205.74	
23 65 13 16-0025	EA	700 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	164,885.05	12,327.49
		For Counter Flow Type, Add	10,916.15	
		For Stainless Steel Cooling Tower, Add	116,438.96	
23 65 13 16-0026	EA	750 Ton Blow-Thru Centrifugal Fan Type Cooling Tower	172,599.89	12,958.52
		For Counter Flow Type, Add	11,420.39	
		For Stainless Steel Cooling Tower, Add	121,817.54	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 65 Cooling Towers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 13 16-0027 EA 800 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Counter Flow Type, Add</i> <i>For Stainless Steel Cooling Tower, Add</i>	181,586.68 12,020.03 128,213.69	13,589.53
23 65 13 16-0028 EA 850 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Counter Flow Type, Add</i> <i>For Stainless Steel Cooling Tower, Add</i>	190,663.62 12,619.67 134,609.83	14,276.90
23 65 13 16-0029 EA 900 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Counter Flow Type, Add</i> <i>For Stainless Steel Cooling Tower, Add</i>	201,194.22 13,328.34 142,168.91	14,964.27
23 65 13 16-0030 EA 950 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Counter Flow Type, Add</i> <i>For Stainless Steel Cooling Tower, Add</i>	212,064.31 14,050.63 149,873.37	15,753.05
23 65 13 16-0031 EA 1,000 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Counter Flow Type, Add</i> <i>For Stainless Steel Cooling Tower, Add</i>	224,376.76 14,881.95 158,740.75	16,541.83

23 65 14 Induced-Draft Cooling Towers (23 65)**23 65 14 13 Open-Circuit, Induced-Draft Counterflow Cooling Towers (23 65 14)****23 65 14 13-0001 Galvanized Induced Draft Axial Single Flow Propeller Type Cooling Towers**

(23 65 14 13)

Note: Includes internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.

23 65 14 13-0002 EA 10 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	10,097.22 1,230.62 2,461.25	1,262.05
23 65 14 13-0003 EA 20 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	11,972.13 1,488.20 2,976.39	1,363.46
23 65 14 13-0004 EA 30 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	14,318.76 1,803.00 3,606.01	1,532.48
23 65 14 13-0005 EA 40 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	15,890.95 2,003.34 4,006.68	1,690.24
23 65 14 13-0006 EA 50 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	18,832.51 2,404.01 4,808.01	1,870.53
23 65 14 13-0007 EA 60 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	21,917.22 2,834.60 5,669.20	2,017.02
23 65 14 13-0008 EA 75 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	25,164.82 3,262.58 6,525.16	2,287.46
23 65 14 13-0009 EA 100 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	31,331.17 4,006.68 8,013.35	2,873.41
23 65 14 13-0010 EA 125 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	34,161.58 4,350.11 8,700.21	3,211.46
23 65 14 13-0011 EA 150 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	52,217.68 6,960.49 13,920.98	3,617.11
23 65 14 13-0012 EA 200 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	63,182.19 8,388.81 16,777.63	4,518.57
23 65 14 13-0013 EA 300 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	81,686.72 10,464.73 20,929.47	7,414.52

23 65 14 13-0014 Galvanized Induced Draft Double Flow Propeller Type Packaged Cooling Towers (23 65 14 13)

Note: 3 GPM/ton draft. Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel.

23 65 14 13-0015 EA 100 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	31,331.17 4,006.68 8,013.35	2,873.41
23 65 14 13-0016 EA 150 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	41,747.33 5,389.94 10,779.87	3,617.11
23 65 14 13-0017 EA 200 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	53,047.37 6,868.59 13,737.18	4,518.57
23 65 14 13-0018 EA 250 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	62,933.80 8,076.05 16,152.09	5,656.67
23 65 14 13-0019 EA 300 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	74,765.80 9,426.60 18,853.19	7,414.52
23 65 14 13-0020 EA 350 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	83,332.95 10,486.87 20,973.73	8,349.79



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central Cooling Equipment			23 60	
Cooling Towers			23 65	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 13-0021	EA		400 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	92,941.97 11,733.84 23,467.68	9,161.11
23 65 14 13-0022	EA		450 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	105,342.46 13,355.59 26,711.18	10,152.72
23 65 14 13-0023	EA		500 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	118,812.10 15,168.14 30,336.27	11,009.10
23 65 14 13-0024	EA		550 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	127,267.15 16,326.53 32,653.06	11,606.32
23 65 14 13-0025	EA		600 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	136,407.26 17,587.68 35,175.36	11,921.83
23 65 14 13-0026	EA		700 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	154,800.21 20,319.58 40,639.16	12,327.49
23 65 14 13-0027	EA		800 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	169,775.61 22,268.41 44,536.81	13,589.53
23 65 14 13-0028	EA		900 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	187,566.07 24,612.45 49,224.90	14,964.27

23 65 14 14 Open-Circuit, Induced-Draft Crossflow Cooling Towers (23 65 14)

23 65 14 14-0001 Galvanized Induced Draft Crossflow Film Filled Propeller Type Cooling Towers (23 65 14 14)

Note: Includes fan, 2-speed motor, geared speed reducer, louvers, drift eliminators, hot water distribution system, cold water collection basin, float valve and access door, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.

23 65 14 14-0002	EA		10 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	8,403.21 976.52 1,953.04	1,262.05
23 65 14 14-0003	EA		15 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	9,068.38 1,072.92 2,145.83	1,284.59
23 65 14 14-0004	EA		20 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	9,863.36 1,165.12 2,330.24	1,397.27
23 65 14 14-0005	EA		25 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	11,529.45 1,399.82 2,799.64	1,464.87
23 65 14 14-0006	EA		30 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	13,055.82 1,613.56 3,227.13	1,532.48
23 65 14 14-0007	EA		35 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	14,548.86 1,818.93 3,637.85	1,611.36
23 65 14 14-0008	EA		40 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	15,918.86 2,007.53 4,015.05	1,690.24
23 65 14 14-0009	EA		45 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	17,439.83 2,217.08 4,434.16	1,780.39
23 65 14 14-0010	EA		50 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	18,927.47 2,418.25 4,836.50	1,870.53
23 65 14 14-0011	EA		60 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	21,851.80 2,824.79 5,649.57	2,017.02
23 65 14 14-0012	EA		70 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	25,022.18 3,264.85 6,529.70	2,174.78
23 65 14 14-0013	EA		75 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	26,493.13 3,461.83 6,923.66	2,287.46
23 65 14 14-0014	EA		80 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	28,099.32 3,658.81 7,317.62	2,479.02
23 65 14 14-0015	EA		90 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	29,286.39 3,792.92 7,585.85	2,670.58
23 65 14 14-0016	EA		100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	31,498.75 4,031.81 8,063.63	2,873.41
23 65 14 14-0017	EA		125 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	32,794.02 4,144.97 8,289.95	3,211.46
23 65 14 14-0018	EA		150 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	38,085.71 4,840.69 9,681.38	3,617.11

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 65 Cooling Towers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 14-0019 EA 175 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	42,081.32 5,335.24 10,670.48	4,056.58
23 65 14 14-0020 EA 200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	44,305.87 5,557.37 11,114.73	4,518.57
23 65 14 14-0021 EA 225 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	51,209.14 6,454.26 12,908.51	5,093.26
23 65 14 14-0022 EA 250 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	56,145.30 7,057.77 14,115.54	5,656.67
23 65 14 14-0023 EA 275 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	60,064.91 7,397.25 14,794.49	6,693.35
23 65 14 14-0024 EA 300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	64,813.20 7,933.71 15,867.41	7,414.52
23 65 14 14-0025 EA 350 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	74,079.34 9,098.82 18,197.65	8,349.79
23 65 14 14-0026 EA 400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	81,661.80 10,041.82 20,083.63	9,161.11
23 65 14 14-0027 EA 450 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	90,263.68 11,093.78 22,187.55	10,152.72
23 65 14 14-0028 EA 500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	98,355.41 12,099.63 24,199.27	11,009.10
23 65 14 14-0029 EA 600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	112,393.51 13,985.62 27,971.24	11,921.83
23 65 14 14-0030 EA 700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	126,013.18 16,001.52 32,003.05	12,327.49
23 65 14 14-0031 EA 800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	140,849.03 17,929.42 35,858.84	13,589.53
23 65 14 14-0032 EA 900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	155,250.48 19,765.11 39,530.22	14,964.27
23 65 14 14-0033 EA 1,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	169,369.41 21,512.79 43,025.58	16,541.83
23 65 14 14-0034 EA 1,100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	185,344.83 23,721.48 47,442.97	17,341.87
23 65 14 14-0035 EA 1,200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	200,749.73 25,854.74 51,709.48	18,085.58
23 65 14 14-0036 EA 1,300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	213,549.58 27,409.63 54,819.26	19,640.60
23 65 14 14-0037 EA 1,400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	225,943.01 28,876.51 57,753.01	21,308.30
23 65 14 14-0038 EA 1,500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	237,896.17 30,255.37 60,510.74	23,066.14
23 65 14 14-0039 EA 1,600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	248,924.98 31,537.84 63,075.68	24,654.98
23 65 14 14-0040 EA 1,700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	259,710.94 32,728.10 65,456.21	26,469.17
23 65 14 14-0041 EA 1,800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	270,360.87 33,830.36 67,660.72	28,565.08
23 65 14 14-0042 EA 1,900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	280,356.96 34,836.22 69,672.43	30,660.96
23 65 14 14-0043 EA 2,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower For Polymer Coating Over Galvanized Components, Add For Stainless Steel Support Structure, Add	290,960.73 35,754.06 71,508.12	33,523.12
23 65 14 14-0044 Induced Draft Crossflow Stainless Steel Propeller Type Cooling Towers (23 65 14 14) Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.		
23 65 14 14-0045 EA 100 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower For Induced Draft Counter Flow Type, Add	95,098.60 4,523.93	2,873.41
23 65 14 14-0046 EA 125 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower For Induced Draft Counter Flow Type, Add	107,794.88 5,131.70	3,188.92
23 65 14 14-0047 EA 150 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower For Induced Draft Counter Flow Type, Add	117,790.00 5,598.78	3,617.11

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Central Cooling Equipment

23 60

Cooling Towers

23 65

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 14-0048 EA 200 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	130,861.92 6,180.26	4,518.57
23 65 14 14-0049 EA 250 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	148,136.86 6,952.17	5,656.67
23 65 14 14-0050 EA 300 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	169,927.80 7,900.30	7,414.52
23 65 14 14-0051 EA 350 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	185,088.28 8,583.39	8,349.79
23 65 14 14-0052 EA 400 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	200,045.92 9,266.48	9,161.11
23 65 14 14-0053 EA 500 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	230,822.79 10,656.58	11,009.10
23 65 14 14-0054 EA 600 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	260,804.61 12,082.43	11,921.83
23 65 14 14-0055 EA 750 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	323,225.81 15,090.81	12,958.52
23 65 14 14-0056 EA 1,000 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	419,730.34 19,688.98	16,541.83
23 65 14 16 Closed-Circuit, Induced-Draft Counterflow Cooling Towers (23 65 14)		
23 65 14 16-0001 Stainless Steel Packaged Propeller Type Cooling Towers (23 65 14 16) Note: Including internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 79 degree F wet Bulb. 3 GPM/ton.		
23 65 14 16-0002 Draw-Thru Stainless Steel Propeller Type Cooling Towers (23 65 14 16-0001) Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.		
23 65 14 16-0003 EA 50 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	39,878.34	1,870.53
23 65 14 16-0004 EA 75 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	56,735.08	2,287.46
23 65 14 16-0005 EA 100 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	66,808.64	2,873.41
23 65 14 16-0006 EA 125 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	75,743.66	3,211.46
23 65 14 16-0007 EA 150 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	83,076.53	3,617.11
23 65 14 16-0008 EA 200 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	99,592.32	4,518.57
23 65 14 16-0009 EA 250 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	117,156.23	5,656.67
23 65 14 16-0010 EA 300 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	138,771.89	7,414.52
23 65 14 16-0011 EA 350 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	151,885.94	8,349.79
23 65 14 16-0012 EA 400 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	172,248.62	9,161.11
23 65 14 16-0013 EA 500 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	199,610.04	11,009.10
23 65 14 16-0014 EA 600 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	225,418.87	11,921.83
23 65 14 16-0015 EA 750 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	279,027.42	12,958.52
23 65 14 16-0016 EA 1,000 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	355,534.55	16,361.53
23 65 14 16-0017 Belt Driven Stainless Steel Propeller Type Cooling Towers (23 65 14 16-0001) Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.		
23 65 14 16-0018 EA 100 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	69,608.26	2,873.41
23 65 14 16-0019 EA 125 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	75,307.85	3,211.46
23 65 14 16-0020 EA 150 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	81,124.85	3,617.11
23 65 14 16-0021 EA 200 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	95,902.12	4,518.57
23 65 14 16-0022 EA 250 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	105,602.44	5,656.67
23 65 14 16-0023 Fiberglass Packaged Draw-Thru Propeller Type Cooling Towers (23 65 14 16) Note: Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.		
23 65 14 16-0024 EA 5 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	4,698.05	1,171.90
23 65 14 16-0025 EA 8 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	4,945.43	1,228.24
23 65 14 16-0026 EA 10 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	5,760.93	1,262.05
23 65 14 16-0027 EA 15 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	6,522.45	1,284.59
23 65 14 16-0028 EA 20 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	8,558.05	1,397.27
23 65 14 16-0029 EA 25 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	9,052.55	1,464.87
23 65 14 16-0030 EA 30 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	10,238.85	1,532.48
23 65 14 16-0031 EA 40 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	11,811.93	1,690.24
23 65 14 16-0032 EA 50 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	13,182.98	1,870.53
23 65 14 16-0033 EA 60 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	14,780.70	2,017.02
23 65 14 16-0034 EA 70 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	17,061.32	2,174.78
23 65 14 16-0035 EA 80 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	18,565.50	2,479.02
23 65 14 16-0036 EA 100 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	22,466.33	2,873.41
23 65 14 16-0037 EA 125 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	27,801.99	3,211.46
23 65 14 16-0038 EA 150 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	31,222.80	3,617.11
23 65 14 16-0039 EA 175 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	37,943.34	4,056.58
23 65 14 16-0040 EA 200 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	42,319.06	4,518.57
23 65 14 16-0041 EA 225 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	46,765.01	5,093.26
23 65 14 16-0042 EA 250 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	51,011.02	5,656.67
23 65 14 16-0043 EA 300 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	61,056.21	7,414.52
23 65 14 16-0044 EA 350 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	69,394.39	8,349.79
23 65 14 16-0045 EA 400 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	77,136.67	9,161.11
23 65 14 16-0046 EA 500 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	93,790.51	10,783.74
23 65 14 16-0047 EA 600 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	107,204.86	11,921.83

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 65 Cooling Towers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 16-0048 EA 700 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	113,852.77	9,161.11
23 65 14 16-0049 EA 800 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	130,059.84	13,589.53
23 65 14 16-0050 EA 1,000 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	148,913.25	11,324.61

23 65 43 Cooling Tower Basins and Accessories (23 65)**23 65 43 00-0001 Fiberglass Cooling Tower Remote Sump Basins (23 65 43)**

Note: Includes one inlet sleeve. Excludes cover, excavation, backfill, concrete cut and concrete patch. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.

23 65 43 00-0002 EA 30" Diameter x 30" Depth, 92 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	1,372.95	
For Anti-Flotation Flanges, Add	115.00	
For Perforated Basins, Add	80.00	
23 65 43 00-0003 EA 30" Diameter x 36" Depth, 110 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	1,553.28	
For Anti-Flotation Flanges, Add	115.00	
For Perforated Basins, Add	80.00	
23 65 43 00-0004 EA 36" Diameter x 30" Depth, 132 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	1,527.68	
For Anti-Flotation Flanges, Add	253.00	
For Perforated Basins, Add	80.00	
23 65 43 00-0005 EA 36" Diameter x 36" Depth, 159 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	1,788.94	
For Anti-Flotation Flanges, Add	253.00	
For Perforated Basins, Add	80.00	
23 65 43 00-0006 EA 42" Diameter x 30" Depth, 180 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	1,938.52	
For Anti-Flotation Flanges, Add	276.00	
For Perforated Basins, Add	100.00	
23 65 43 00-0007 EA 42" Diameter x 36" Depth, 216 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,152.67	
For Anti-Flotation Flanges, Add	276.00	
For Perforated Basins, Add	100.00	
23 65 43 00-0008 EA 42" Diameter x 42" Depth, 252 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,366.82	
For Anti-Flotation Flanges, Add	276.00	
For Perforated Basins, Add	100.00	
23 65 43 00-0009 EA 48" Diameter x 36" Depth, 282 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,399.63	
For Anti-Flotation Flanges, Add	294.00	
For Perforated Basins, Add	140.00	
23 65 43 00-0010 EA 48" Diameter x 42" Depth, 329 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,653.75	
For Anti-Flotation Flanges, Add	294.00	
For Perforated Basins, Add	140.00	
23 65 43 00-0011 EA 48" Diameter x 48" Depth, 376 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	3,023.62	
For Anti-Flotation Flanges, Add	294.00	
For Perforated Basins, Add	140.00	
23 65 43 00-0012 EA 48" Diameter x 54" Depth, 423 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	3,396.56	
For Anti-Flotation Flanges, Add	294.00	
For Perforated Basins, Add	140.00	
23 65 43 00-0013 EA 48" Diameter x 60" Depth, 470 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	3,644.53	
For Anti-Flotation Flanges, Add	294.00	
For Perforated Basins, Add	140.00	

23 65 43 00-0014 Cooling Tower Accessories (23 65 43)

23 65 43 00-0015 EA 2" Deflection Vibration Isolator, Cooling Tower Accessory (M.M. Sausse RMLS-SB-EQ).....	37,627.20	
23 65 43 00-0016 EA 3" Deflection Vibration Isolator, Cooling Tower Accessory (M.M. Sausse RMLS-SB-EQ).....	43,984.60	

23 70 Central HVAC Equipment (23)

Note: New air filters shall be provided on HVAC equipment prior to turning over to owner. Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 71 Thermal Storage (23 70)**23 71 13 Thermal Heat Storage (23 71)****23 71 13 23 Pressurized-Water Thermal Storage Tanks (23 71 13)****23 71 13 23-0001 Nickelshield Storage Tanks (23 71 13 23)**

23 71 13 23-0002 EA 325 Gallon Nickelshield Storage Tank.....	31,658.82	213.60
23 71 13 23-0003 EA 490 Gallon Nickelshield Storage Tank.....	44,181.97	283.20
23 71 13 23-0004 EA 605 Gallon Nickelshield Storage Tank.....	50,579.04	342.53
23 71 13 23-0005 EA 740 Gallon Nickelshield Storage Tank.....	59,882.79	428.16
23 71 13 23-0006 EA 940 Gallon Nickelshield Storage Tank.....	69,658.67	569.18
23 71 13 23-0007 EA 1,505 Gallon Nickelshield Storage Tank.....	89,983.04	856.44
23 71 13 23-0008 EA 1,615 Gallon Nickelshield Storage Tank.....	101,614.52	964.62
23 71 13 23-0009 EA 2,275 Gallon Nickelshield Storage Tank.....	139,550.94	1,281.28
23 71 13 23-0010 EA 3,815 Gallon Nickelshield Storage Tank.....	180,594.18	1,489.53

23 72 Air-To-Air Energy Recovery Equipment (23 70)**23 72 13 Heat-Wheel Air-To-Air Energy-Recovery Equipment (23 72)****23 72 13 00-0001 Enthalpy Recovery Wheel (23 72 13)**

23 72 13 00-0002 EA Up To 1,000 CFM Enthalpy Recovery Wheel.....	11,155.43	804.20
23 72 13 00-0003 EA >1,000 To 2,000 CFM Enthalpy Recovery Wheel.....	12,377.13	965.28
23 72 13 00-0004 EA >2,000 To 4,000 CFM Enthalpy Recovery Wheel.....	15,487.95	1,206.61



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Air-To-Air Energy Recovery Equipment			23 72	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 72 13 00-0005	EA		>4,000 To 6,000 CFM Enthalpy Recovery Wheel.....	18,114.95	1,378.54
23 72 13 00-0006	EA		>6,000 To 8,000 CFM Enthalpy Recovery Wheel.....	20,051.19	1,447.93
23 72 13 00-0007	EA		>8,000 To 10,000 CFM Enthalpy Recovery Wheel.....	24,384.52	1,609.00
23 72 13 00-0008	EA		>10,000 To 15,000 CFM Enthalpy Recovery Wheel.....	32,432.92	1,689.24
23 72 13 00-0009	EA		>15,000 To 20,000 CFM Enthalpy Recovery Wheel.....	40,424.22	1,809.90
23 72 13 00-0010	EA		>20,000 To 25,000 CFM Enthalpy Recovery Wheel.....	48,965.54	2,068.12
23 72 13 00-0011	EA		>25,000 To 30,000 CFM Enthalpy Recovery Wheel.....	54,842.57	2,654.53
23 72 13 00-0012	EA		>30,000 To 40,000 CFM Enthalpy Recovery Wheel.....	73,551.24	3,016.51
23 72 13 00-0013	EA		>40,000 To 50,000 CFM Enthalpy Recovery Wheel.....	87,480.90	3,619.81

23 72 16 Heat-Pipe Air-To-Air Energy-Recovery Equipment (23 72)

23 72 16 00-0001			Glycol Heat Pipe Type, 50 Percent Efficient (23 72 16)		
23 72 16 00-0002	EA		100 MBH, 1,700 CFM Glycol Heat Recovery Unit.....	20,190.90	603.30
23 72 16 00-0003	EA		160 MBH, 2,700 CFM Glycol Heat Recovery Unit.....	31,760.32	804.44
23 72 16 00-0004	EA		620 MBH, 4,000 CFM Glycol Heat Recovery Unit.....	47,082.13	1,206.61

23 73 Indoor Central-Station Air-Handling Units (23 70)

23 73 13 Modular Indoor Central-Station Air-Handling Units (23 73)

Note: Sized by CFM. Includes motor drive vibration isolators. Use modifiers for Filters and heating and cooling coils. Includes double wall insulated casing, fan section, fan motor, internal dampers, starter, vibration isolators and equipment rigging. Variable speed drives are included on units with 10 HP or greater fans. Modifiers include cooling coil sections with 6 row aluminum fin coil and drain pan, heating coil section with 1 row aluminum fin coil, and filter section with replaceable filters.

23 73 13 00-0001			Single Zone Units (23 73 13)		
Note: Horizontal/vertical draw-thru fan, motor and cabinet.					
23 73 13 00-0002	EA		300 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan.....	2,932.91	669.82
			For Flat Filter Box And Throwaway Filters, Add	245.45	
			For Medium Capacity Filter Box And Throwaway Filters, Add	462.19	
			For Combination Filter Mixing Box And Throwaway Filters, Add	688.50	
			For Manual Roll Filter, Add	1,182.50	
			For Automatic Roll Filter, Add	1,281.30	
			For Hot Water Heating Coil, Aluminum Fins, Add	589.69	
			For Electric Heating Coil, Add	984.90	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	984.90	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	886.10	
			For Steam Heating Coil, Aluminum Fins, Add	787.30	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	640.65	
			For Chilled Water Cooling Coil, Copper Fins, Add	1,182.50	
			For Direct Expansion Cooling Coil, Copper Fins, Add	1,083.70	
			For Hot Water Heating Coil, Copper Fins, Add	787.30	
			For Variable Air Volume, Add	276.64	
			For Economizer, Panel, Controls And Damper(s), Add	1,309.82	
			For 2 Coils, Independent Circuits, Add	332.81	
23 73 13 00-0003	EA		500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan.....	4,643.38	803.79
			For Flat Filter Box And Throwaway Filters, Add	406.97	
			For Medium Capacity Filter Box And Throwaway Filters, Add	779.52	
			For Combination Filter Mixing Box And Throwaway Filters, Add	1,163.54	
			For Manual Roll Filter, Add	2,037.55	
			For Automatic Roll Filter, Add	2,212.35	
			For Hot Water Heating Coil, Aluminum Fins, Add	988.74	
			For Electric Heating Coil, Add	1,687.95	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	1,687.95	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,513.15	
			For Steam Heating Coil, Aluminum Fins, Add	1,338.35	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,106.18	
			For Chilled Water Cooling Coil, Copper Fins, Add	2,037.55	
			For Direct Expansion Cooling Coil, Copper Fins, Add	1,862.75	
			For Hot Water Heating Coil, Copper Fins, Add	1,338.35	
			For Variable Air Volume, Add	489.44	
			For Economizer, Panel, Controls And Damper(s), Add	1,443.15	
			For 2 Coils, Independent Circuits, Add	534.26	
23 73 13 00-0004	EA		800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan.....	5,250.88	863.24
			For Flat Filter Box And Throwaway Filters, Add	463.43	
			For Medium Capacity Filter Box And Throwaway Filters, Add	889.87	
			For Combination Filter Mixing Box And Throwaway Filters, Add	1,328.64	
			For Manual Roll Filter, Add	2,333.08	
			For Automatic Roll Filter, Add	2,533.97	
			For Hot Water Heating Coil, Aluminum Fins, Add	1,127.75	
			For Electric Heating Coil, Add	1,931.31	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	1,931.31	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,730.42	
			For Steam Heating Coil, Aluminum Fins, Add	1,529.53	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,266.99	
			For Chilled Water Cooling Coil, Copper Fins, Add	2,333.08	
			For Direct Expansion Cooling Coil, Copper Fins, Add	2,132.20	
			For Hot Water Heating Coil, Copper Fins, Add	1,529.53	
			For Variable Air Volume, Add	562.49	
			For Economizer, Panel, Controls And Damper(s), Add	1,503.18	
			For 2 Coils, Independent Circuits, Add	605.44	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0005 EA 1,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	5,926.46	927.59
For Flat Filter Box And Throwaway Filters, Add	526.38	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,013.00	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,512.87	
For Manual Roll Filter, Add	2,663.15	
For Automatic Roll Filter, Add	2,893.21	
For Hot Water Heating Coil, Aluminum Fins, Add	1,282.82	
For Electric Heating Coil, Add	2,203.04	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,203.04	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,972.99	
For Steam Heating Coil, Aluminum Fins, Add	1,742.93	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,446.61	
For Chilled Water Cooling Coil, Copper Fins, Add	2,663.15	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,433.10	
For Hot Water Heating Coil, Copper Fins, Add	1,742.93	
For Variable Air Volume, Add	644.16	
For Economizer, Panel, Controls And Damper(s), Add	1,567.73	
For 2 Coils, Independent Circuits, Add	684.67	
23 73 13 00-0006 EA 1,200 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	6,723.46	997.92
For Flat Filter Box And Throwaway Filters, Add	601.15	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,159.58	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,732.25	
For Manual Roll Filter, Add	3,057.13	
For Automatic Roll Filter, Add	3,322.10	
For Hot Water Heating Coil, Aluminum Fins, Add	1,467.27	
For Electric Heating Coil, Add	2,527.17	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,527.17	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,262.20	
For Steam Heating Coil, Aluminum Fins, Add	1,997.22	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,661.05	
For Chilled Water Cooling Coil, Copper Fins, Add	3,057.13	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,792.15	
For Hot Water Heating Coil, Copper Fins, Add	1,997.22	
For Variable Air Volume, Add	741.93	
For Economizer, Panel, Controls And Damper(s), Add	1,636.77	
For 2 Coils, Independent Circuits, Add	778.34	
23 73 13 00-0007 EA 1,400 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	7,653.14	1,072.44
For Flat Filter Box And Throwaway Filters, Add	688.71	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,331.47	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,989.54	
For Manual Roll Filter, Add	3,519.83	
For Automatic Roll Filter, Add	3,825.88	
For Hot Water Heating Coil, Aluminum Fins, Add	1,683.49	
For Electric Heating Coil, Add	2,907.71	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,907.71	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,601.66	
For Steam Heating Coil, Aluminum Fins, Add	2,295.60	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,912.94	
For Chilled Water Cooling Coil, Copper Fins, Add	3,519.83	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,213.77	
For Hot Water Heating Coil, Copper Fins, Add	2,295.60	
For Variable Air Volume, Add	856.96	
For Economizer, Panel, Controls And Damper(s), Add	1,712.40	
For 2 Coils, Independent Circuits, Add	887.74	
23 73 13 00-0008 EA 1,600 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	8,380.94	1,152.94
For Flat Filter Box And Throwaway Filters, Add	755.92	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,462.52	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,185.57	
For Manual Roll Filter, Add	3,869.91	
For Automatic Roll Filter, Add	4,206.77	
For Hot Water Heating Coil, Aluminum Fins, Add	1,848.70	
For Electric Heating Coil, Add	3,196.17	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,196.17	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,859.30	
For Steam Heating Coil, Aluminum Fins, Add	2,522.43	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,103.39	
For Chilled Water Cooling Coil, Copper Fins, Add	3,869.91	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,533.04	
For Hot Water Heating Coil, Copper Fins, Add	2,522.43	
For Variable Air Volume, Add	943.23	
For Economizer, Panel, Controls And Damper(s), Add	1,790.51	
For 2 Coils, Independent Circuits, Add	972.84	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Indoor Central-Station Air-Handling Units			23 73	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0009	EA		1,800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	9,169.31 828.20 1,603.16 2,395.87 4,244.53 4,614.27 2,026.13 3,505.07 3,505.07 3,135.33 2,765.60 2,307.13 4,244.53 3,874.80 2,765.60 1,035.25 1,726.05 1,064.82	1,242.53
23 73 13 00-0010	EA		2,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	10,037.27 908.57 1,760.05 2,630.56 4,664.09 5,070.80 2,223.85 3,850.68 3,850.68 3,443.97 3,037.26 2,535.40 4,664.09 4,257.38 3,037.26 1,138.78 1,796.72 1,166.41	1,332.11
23 73 13 00-0011	EA		2,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	10,836.95 981.42 1,901.47 2,841.98 5,039.84 5,479.42 2,402.41 4,160.70 4,160.70 3,721.13 3,281.56 2,739.71 5,039.84 4,600.27 3,281.56 1,230.80 1,875.03 1,259.52	1,431.87
23 73 13 00-0012	EA		2,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	11,690.58 1,059.02 2,052.02 3,067.02 5,439.48 5,913.97 2,592.53 4,490.50 4,490.50 4,016.00 3,541.51 2,956.98 5,439.48 4,964.99 3,541.51 1,328.57 1,960.42 1,358.85	1,540.71

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0013	EA		3,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 13,598.56		1,783.40
			For Flat Filter Box And Throwaway Filters, Add	1,232.47	
			For Medium Capacity Filter Box And Throwaway Filters, Add	2,388.52	
			For Combination Filter Mixing Box And Throwaway Filters, Add	3,570.04	
			For Manual Roll Filter, Add	6,332.77	
			For Automatic Roll Filter, Add	6,885.32	
			For Hot Water Heating Coil, Aluminum Fins, Add	3,017.49	
			For Electric Heating Coil, Add	5,227.68	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	5,227.68	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,675.13	
			For Steam Heating Coil, Aluminum Fins, Add	4,122.59	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,442.66	
			For Chilled Water Cooling Coil, Copper Fins, Add	6,332.77	
			For Direct Expansion Cooling Coil, Copper Fins, Add	5,780.22	
			For Hot Water Heating Coil, Copper Fins, Add	4,122.59	
			For Variable Air Volume, Add	1,547.13	
			For Economizer, Panel, Controls And Damper(s), Add	2,151.20	
			For 2 Coils, Independent Circuits, Add	1,580.87	
23 73 13 00-0014	EA		3,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 14,241.49		1,916.53
			For Flat Filter Box And Throwaway Filters, Add	1,287.22	
			For Medium Capacity Filter Box And Throwaway Filters, Add	2,492.27	
			For Combination Filter Mixing Box And Throwaway Filters, Add	3,724.71	
			For Manual Roll Filter, Add	6,600.42	
			For Automatic Roll Filter, Add	7,175.56	
			For Hot Water Heating Coil, Aluminum Fins, Add	3,149.57	
			For Electric Heating Coil, Add	5,450.14	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	5,450.14	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,875.00	
			For Steam Heating Coil, Aluminum Fins, Add	4,299.85	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,587.78	
			For Chilled Water Cooling Coil, Copper Fins, Add	6,600.42	
			For Direct Expansion Cooling Coil, Copper Fins, Add	6,025.28	
			For Hot Water Heating Coil, Copper Fins, Add	4,299.85	
			For Variable Air Volume, Add	1,610.39	
			For Economizer, Panel, Controls And Damper(s), Add	2,256.27	
			For 2 Coils, Independent Circuits, Add	1,654.21	
23 73 13 00-0015	EA		3,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 14,897.18		2,059.71
			For Flat Filter Box And Throwaway Filters, Add	1,342.59	
			For Medium Capacity Filter Box And Throwaway Filters, Add	2,596.91	
			For Combination Filter Mixing Box And Throwaway Filters, Add	3,880.66	
			For Manual Roll Filter, Add	6,869.34	
			For Automatic Roll Filter, Add	7,467.07	
			For Hot Water Heating Coil, Aluminum Fins, Add	3,282.92	
			For Electric Heating Coil, Add	5,673.87	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	5,673.87	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,076.13	
			For Steam Heating Coil, Aluminum Fins, Add	4,478.40	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,733.54	
			For Chilled Water Cooling Coil, Copper Fins, Add	6,869.34	
			For Direct Expansion Cooling Coil, Copper Fins, Add	6,271.60	
			For Hot Water Heating Coil, Copper Fins, Add	4,478.40	
			For Variable Air Volume, Add	1,673.66	
			For Economizer, Panel, Controls And Damper(s), Add	2,368.36	
			For 2 Coils, Independent Circuits, Add	1,728.81	
23 73 13 00-0016	EA		4,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 16,338.72		2,377.87
			For Flat Filter Box And Throwaway Filters, Add	1,463.97	
			For Medium Capacity Filter Box And Throwaway Filters, Add	2,826.00	
			For Combination Filter Mixing Box And Throwaway Filters, Add	4,222.01	
			For Manual Roll Filter, Add	7,457.17	
			For Automatic Roll Filter, Add	8,104.21	
			For Hot Water Heating Coil, Aluminum Fins, Add	3,574.97	
			For Electric Heating Coil, Add	6,163.11	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	6,163.11	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,516.07	
			For Steam Heating Coil, Aluminum Fins, Add	4,869.04	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,052.10	
			For Chilled Water Cooling Coil, Copper Fins, Add	7,457.17	
			For Direct Expansion Cooling Coil, Copper Fins, Add	6,810.14	
			For Hot Water Heating Coil, Copper Fins, Add	4,869.04	
			For Variable Air Volume, Add	1,811.69	
			For Economizer, Panel, Controls And Damper(s), Add	2,299.22	
			For 2 Coils, Independent Circuits, Add	1,892.69	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Indoor Central-Station Air-Handling Units			23 73	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0017	EA		4,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	16,338.72 1,463.97 2,826.00 4,222.01 7,457.17 8,104.21 3,574.97 6,163.11 6,163.11 5,516.07 4,869.04 4,052.10 7,457.17 6,810.14 4,869.04 1,811.69 2,299.22 1,892.69	2,377.87
23 73 13 00-0018	EA		5,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	17,911.28 1,596.00 3,074.93 4,592.89 8,095.08 8,795.52 3,892.45 6,694.20 6,694.20 5,993.77 5,293.33 4,397.76 8,095.08 7,394.64 5,293.33 1,961.23 2,501.00 2,071.30	2,731.20
23 73 13 00-0019	EA		5,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	18,817.96 1,670.09 3,213.17 4,798.58 8,444.56 9,173.76 4,069.39 6,986.17 6,986.17 6,256.98 5,527.78 4,586.88 8,444.56 7,715.37 5,527.78 2,041.75 2,633.61 2,173.47	2,963.14
23 73 13 00-0020	EA		6,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	19,707.03 1,743.31 3,350.17 5,002.52 8,792.28 9,550.24 4,244.56 7,276.38 7,276.38 6,518.42 5,760.47 4,775.12 8,792.28 8,034.33 5,760.47 2,122.27 2,759.18 2,273.88	3,183.34

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0021 EA 6,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	20,601.41	3,407.73
For Flat Filter Box And Throwaway Filters, Add	1,816.78	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,487.55	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,206.98	
For Manual Roll Filter, Add	9,140.54	
For Automatic Roll Filter, Add	9,927.25	
For Hot Water Heating Coil, Aluminum Fins, Add	4,420.27	
For Electric Heating Coil, Add	7,567.11	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,567.11	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,780.40	
For Steam Heating Coil, Aluminum Fins, Add	5,993.69	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,963.62	
For Chilled Water Cooling Coil, Copper Fins, Add	9,140.54	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,353.83	
For Hot Water Heating Coil, Copper Fins, Add	5,993.69	
For Variable Air Volume, Add	2,202.79	
For Economizer, Panel, Controls And Damper(s), Add	2,886.88	
For 2 Coils, Independent Circuits, Add	2,374.83	
23 73 13 00-0022 EA 7,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	21,631.89	3,668.12
For Flat Filter Box And Throwaway Filters, Add	1,901.17	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,645.13	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,441.49	
For Manual Roll Filter, Add	9,539.37	
For Automatic Roll Filter, Add	10,358.95	
For Hot Water Heating Coil, Aluminum Fins, Add	4,621.92	
For Electric Heating Coil, Add	7,900.22	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,900.22	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,080.65	
For Steam Heating Coil, Aluminum Fins, Add	6,261.07	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	5,179.47	
For Chilled Water Cooling Coil, Copper Fins, Add	9,539.37	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,719.80	
For Hot Water Heating Coil, Copper Fins, Add	6,261.07	
For Variable Air Volume, Add	2,294.81	
For Economizer, Panel, Controls And Damper(s), Add	3,036.15	
For 2 Coils, Independent Circuits, Add	2,491.02	
23 73 13 00-0023 EA 7,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	22,677.59	3,930.19
For Flat Filter Box And Throwaway Filters, Add	1,986.32	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,803.78	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,677.52	
For Manual Roll Filter, Add	9,939.73	
For Automatic Roll Filter, Add	10,792.17	
For Hot Water Heating Coil, Aluminum Fins, Add	4,825.08	
For Electric Heating Coil, Add	8,234.85	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,234.85	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,382.41	
For Steam Heating Coil, Aluminum Fins, Add	6,529.96	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	5,396.08	
For Chilled Water Cooling Coil, Copper Fins, Add	9,939.73	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,087.29	
For Hot Water Heating Coil, Copper Fins, Add	6,529.96	
For Variable Air Volume, Add	2,386.83	
For Economizer, Panel, Controls And Damper(s), Add	2,868.63	
For 2 Coils, Independent Circuits, Add	2,608.74	
23 73 13 00-0024 EA 8,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	23,754.74	4,232.33
For Flat Filter Box And Throwaway Filters, Add	2,073.04	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,964.63	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,916.70	
For Manual Roll Filter, Add	10,343.23	
For Automatic Roll Filter, Add	11,228.53	
For Hot Water Heating Coil, Aluminum Fins, Add	5,031.39	
For Electric Heating Coil, Add	8,572.62	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,572.62	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,687.31	
For Steam Heating Coil, Aluminum Fins, Add	6,802.00	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	5,614.27	
For Chilled Water Cooling Coil, Copper Fins, Add	10,343.23	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,457.92	
For Hot Water Heating Coil, Copper Fins, Add	6,802.00	
For Variable Air Volume, Add	2,478.86	
For Economizer, Panel, Controls And Damper(s), Add	2,994.59	
For 2 Coils, Independent Circuits, Add	2,729.60	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Indoor Central-Station Air-Handling Units			23 73	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0025	EA		9,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 24,981.73		4,584.94
			For Flat Filter Box And Throwaway Filters, Add	2,171.37	
			For Medium Capacity Filter Box And Throwaway Filters, Add	4,146.65	
			For Combination Filter Mixing Box And Throwaway Filters, Add	6,187.29	
			For Manual Roll Filter, Add	10,798.69	
			For Automatic Roll Filter, Add	11,720.97	
			For Hot Water Heating Coil, Aluminum Fins, Add	5,265.01	
			For Electric Heating Coil, Add	8,954.13	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	8,954.13	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,031.85	
			For Steam Heating Coil, Aluminum Fins, Add	7,109.57	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	5,860.48	
			For Chilled Water Cooling Coil, Copper Fins, Add	10,798.69	
			For Direct Expansion Cooling Coil, Copper Fins, Add	9,876.41	
			For Hot Water Heating Coil, Copper Fins, Add	7,109.57	
			For Variable Air Volume, Add	2,582.38	
			For Economizer, Panel, Controls And Damper(s), Add	3,140.84	
			For 2 Coils, Independent Circuits, Add	2,867.08	
23 73 13 00-0026	EA		10,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 26,179.87		4,895.22
			For Flat Filter Box And Throwaway Filters, Add	2,268.25	
			For Medium Capacity Filter Box And Throwaway Filters, Add	4,326.65	
			For Combination Filter Mixing Box And Throwaway Filters, Add	6,455.00	
			For Manual Roll Filter, Add	11,251.26	
			For Automatic Roll Filter, Add	12,210.52	
			For Hot Water Heating Coil, Aluminum Fins, Add	5,495.75	
			For Electric Heating Coil, Add	9,332.76	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	9,332.76	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,373.51	
			For Steam Heating Coil, Aluminum Fins, Add	7,414.25	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	6,105.26	
			For Chilled Water Cooling Coil, Copper Fins, Add	11,251.26	
			For Direct Expansion Cooling Coil, Copper Fins, Add	10,292.01	
			For Hot Water Heating Coil, Copper Fins, Add	7,414.25	
			For Variable Air Volume, Add	2,685.91	
			For Economizer, Panel, Controls And Damper(s), Add	3,278.44	
			For 2 Coils, Independent Circuits, Add	3,001.69	
23 73 13 00-0027	EA		11,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 26,302.96		4,739.84
			For Flat Filter Box And Throwaway Filters, Add	2,292.89	
			For Medium Capacity Filter Box And Throwaway Filters, Add	4,383.33	
			For Combination Filter Mixing Box And Throwaway Filters, Add	6,541.25	
			For Manual Roll Filter, Add	11,429.95	
			For Automatic Roll Filter, Add	12,407.69	
			For Hot Water Heating Coil, Aluminum Fins, Add	5,563.51	
			For Electric Heating Coil, Add	9,474.47	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	9,474.47	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,496.73	
			For Steam Heating Coil, Aluminum Fins, Add	7,518.99	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	6,203.85	
			For Chilled Water Cooling Coil, Copper Fins, Add	11,429.95	
			For Direct Expansion Cooling Coil, Copper Fins, Add	10,452.21	
			For Hot Water Heating Coil, Copper Fins, Add	7,518.99	
			For Variable Air Volume, Add	2,737.67	
			For Economizer, Panel, Controls And Damper(s), Add	3,204.45	
			For 2 Coils, Independent Circuits, Add	3,021.39	
23 73 13 00-0028	EA		12,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 27,435.44		5,258.72
			For Flat Filter Box And Throwaway Filters, Add	2,368.00	
			For Medium Capacity Filter Box And Throwaway Filters, Add	4,510.67	
			For Combination Filter Mixing Box And Throwaway Filters, Add	6,728.45	
			For Manual Roll Filter, Add	11,709.58	
			For Automatic Roll Filter, Add	12,705.80	
			For Hot Water Heating Coil, Aluminum Fins, Add	5,732.22	
			For Electric Heating Coil, Add	9,717.13	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	9,717.13	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,720.90	
			For Steam Heating Coil, Aluminum Fins, Add	7,724.67	
			For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	6,352.90	
			For Chilled Water Cooling Coil, Copper Fins, Add	11,709.58	
			For Direct Expansion Cooling Coil, Copper Fins, Add	10,713.35	
			For Hot Water Heating Coil, Copper Fins, Add	7,724.67	
			For Variable Air Volume, Add	2,789.43	
			For Economizer, Panel, Controls And Damper(s), Add	3,433.28	
			For 2 Coils, Independent Circuits, Add	3,142.03	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0029 EA 13,700 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 28,895.49	28,895.49	5,469.95
For Flat Filter Box And Throwaway Filters, Add	2,500.57	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,767.75	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,112.73	
For Manual Roll Filter, Add	12,391.70	
For Automatic Roll Filter, Add	13,447.49	
For Hot Water Heating Coil, Aluminum Fins, Add	6,056.93	
For Electric Heating Coil, Add	10,280.11	
For Chilled Water Cooling Coil, Aluminum Fins, Add	10,280.11	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,224.32	
For Steam Heating Coil, Aluminum Fins, Add	8,168.52	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	6,723.75	
For Chilled Water Cooling Coil, Copper Fins, Add	12,391.70	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,335.91	
For Hot Water Heating Coil, Copper Fins, Add	8,168.52	
For Variable Air Volume, Add	2,956.22	
For Economizer, Panel, Controls And Damper(s), Add	2,955.92	
For 2 Coils, Independent Circuits, Add	3,311.87	
23 73 13 00-0030 EA 15,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 30,430.26	30,430.26	5,681.78
For Flat Filter Box And Throwaway Filters, Add	2,636.88	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,030.06	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,504.48	
For Manual Roll Filter, Add	13,081.29	
For Automatic Roll Filter, Add	14,196.65	
For Hot Water Heating Coil, Aluminum Fins, Add	6,389.11	
For Electric Heating Coil, Add	10,850.56	
For Chilled Water Cooling Coil, Aluminum Fins, Add	10,850.56	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,735.20	
For Steam Heating Coil, Aluminum Fins, Add	8,619.84	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	7,098.33	
For Chilled Water Cooling Coil, Copper Fins, Add	13,081.29	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,965.93	
For Hot Water Heating Coil, Copper Fins, Add	8,619.84	
For Variable Air Volume, Add	3,123.02	
For Economizer, Panel, Controls And Damper(s), Add	3,024.60	
For 2 Coils, Independent Circuits, Add	3,489.17	
23 73 13 00-0031 EA 16,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 32,059.99	32,059.99	5,900.30
For Flat Filter Box And Throwaway Filters, Add	2,786.15	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,320.38	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,938.59	
For Manual Roll Filter, Add	13,854.32	
For Automatic Roll Filter, Add	15,037.47	
For Hot Water Heating Coil, Aluminum Fins, Add	6,755.44	
For Electric Heating Coil, Add	11,488.03	
For Chilled Water Cooling Coil, Aluminum Fins, Add	11,488.03	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,304.88	
For Steam Heating Coil, Aluminum Fins, Add	9,121.73	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	7,518.73	
For Chilled Water Cooling Coil, Copper Fins, Add	13,854.32	
For Direct Expansion Cooling Coil, Copper Fins, Add	12,671.18	
For Hot Water Heating Coil, Copper Fins, Add	9,121.73	
For Variable Air Volume, Add	3,312.81	
For Economizer, Panel, Controls And Damper(s), Add	3,079.41	
For 2 Coils, Independent Circuits, Add	3,679.26	
23 73 13 00-0032 EA 17,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 33,756.46	33,756.46	6,119.07
For Flat Filter Box And Throwaway Filters, Add	2,938.75	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,615.37	
For Combination Filter Mixing Box And Throwaway Filters, Add	8,379.37	
For Manual Roll Filter, Add	14,634.03	
For Automatic Roll Filter, Add	15,884.96	
For Hot Water Heating Coil, Aluminum Fins, Add	7,128.44	
For Electric Heating Coil, Add	12,132.17	
For Chilled Water Cooling Coil, Aluminum Fins, Add	12,132.17	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,881.24	
For Steam Heating Coil, Aluminum Fins, Add	9,630.30	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	7,942.48	
For Chilled Water Cooling Coil, Copper Fins, Add	14,634.03	
For Direct Expansion Cooling Coil, Copper Fins, Add	13,383.10	
For Hot Water Heating Coil, Copper Fins, Add	9,630.30	
For Variable Air Volume, Add	3,502.61	
For Economizer, Panel, Controls And Damper(s), Add	3,147.57	
For 2 Coils, Independent Circuits, Add	3,876.02	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Indoor Central-Station Air-Handling Units			23 73	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0033	EA		20,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 37,641.26		6,560.09
			For Flat Filter Box And Throwaway Filters, Add	3,295.27	
			For Medium Capacity Filter Box And Throwaway Filters, Add	6,309.22	
			For Combination Filter Mixing Box And Throwaway Filters, Add	10,830.14	
			For Manual Roll Filter, Add	15,635.04	
			For Automatic Roll Filter, Add	16,482.96	
			For Hot Water Heating Coil, Aluminum Fins, Add	6,590.53	
			For Electric Heating Coil, Add	7,155.81	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	12,243.35	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,830.14	
			For Steam Heating Coil, Aluminum Fins, Add	9,416.94	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	7,534.88	
			For Chilled Water Cooling Coil, Copper Fins, Add	15,069.75	
			For Direct Expansion Cooling Coil, Copper Fins, Add	13,656.55	
			For Hot Water Heating Coil, Copper Fins, Add	10,830.14	
			For Variable Air Volume, Add	3,956.97	
			For Economizer, Panel, Controls And Damper(s), Add	3,376.01	
			For 2 Coils, Independent Circuits, Add	4,329.41	
23 73 13 00-0034	EA		22,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 41,769.30		7,069.99
			For Flat Filter Box And Throwaway Filters, Add	3,670.10	
			For Medium Capacity Filter Box And Throwaway Filters, Add	7,036.11	
			For Combination Filter Mixing Box And Throwaway Filters, Add	12,085.12	
			For Manual Roll Filter, Add	17,462.69	
			For Automatic Roll Filter, Add	18,411.67	
			For Hot Water Heating Coil, Aluminum Fins, Add	7,340.21	
			For Electric Heating Coil, Add	7,972.86	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	13,666.76	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	12,085.12	
			For Steam Heating Coil, Aluminum Fins, Add	10,503.48	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	8,415.02	
			For Chilled Water Cooling Coil, Copper Fins, Add	16,830.03	
			For Direct Expansion Cooling Coil, Copper Fins, Add	15,248.39	
			For Hot Water Heating Coil, Copper Fins, Add	12,085.12	
			For Variable Air Volume, Add	4,428.59	
			For Economizer, Panel, Controls And Damper(s), Add	3,508.90	
			For 2 Coils, Independent Circuits, Add	4,809.59	
23 73 13 00-0035	EA		25,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 46,283.34		7,575.35
			For Flat Filter Box And Throwaway Filters, Add	4,086.83	
			For Medium Capacity Filter Box And Throwaway Filters, Add	7,848.77	
			For Combination Filter Mixing Box And Throwaway Filters, Add	13,491.67	
			For Manual Roll Filter, Add	19,518.73	
			For Automatic Roll Filter, Add	20,582.33	
			For Hot Water Heating Coil, Aluminum Fins, Add	8,173.67	
			For Electric Heating Coil, Add	8,882.73	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	15,264.33	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	13,491.67	
			For Steam Heating Coil, Aluminum Fins, Add	11,719.00	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	9,404.83	
			For Chilled Water Cooling Coil, Copper Fins, Add	18,809.67	
			For Direct Expansion Cooling Coil, Copper Fins, Add	17,037.00	
			For Hot Water Heating Coil, Copper Fins, Add	13,491.67	
			For Variable Air Volume, Add	4,963.47	
			For Economizer, Panel, Controls And Damper(s), Add	3,630.25	
			For 2 Coils, Independent Circuits, Add	5,337.40	
23 73 13 00-0036	EA		27,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 57,004.42		8,158.46
			For Flat Filter Box And Throwaway Filters, Add	5,117.92	
			For Medium Capacity Filter Box And Throwaway Filters, Add	9,886.33	
			For Combination Filter Mixing Box And Throwaway Filters, Add	17,038.93	
			For Manual Roll Filter, Add	24,749.11	
			For Automatic Roll Filter, Add	26,109.73	
			For Hot Water Heating Coil, Aluminum Fins, Add	10,235.84	
			For Electric Heating Coil, Add	11,142.92	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	19,306.63	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	17,038.93	
			For Steam Heating Coil, Aluminum Fins, Add	14,771.24	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	11,921.02	
			For Chilled Water Cooling Coil, Copper Fins, Add	23,842.03	
			For Direct Expansion Cooling Coil, Copper Fins, Add	21,574.33	
			For Hot Water Heating Coil, Copper Fins, Add	17,038.93	
			For Variable Air Volume, Add	6,349.56	
			For Economizer, Panel, Controls And Damper(s), Add	3,773.83	
			For 2 Coils, Independent Circuits, Add	6,607.52	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0037	EA		30,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 63,700.42	8,707.94	
			For Flat Filter Box And Throwaway Filters, Add	5,748.51	
			For Medium Capacity Filter Box And Throwaway Filters, Add	11,124.09	
			For Combination Filter Mixing Box And Throwaway Filters, Add	19,187.47	
			For Manual Roll Filter, Add	27,903.32	
			For Automatic Roll Filter, Add	29,441.41	
			For Hot Water Heating Coil, Aluminum Fins, Add	11,497.01	
			For Electric Heating Coil, Add	12,522.41	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	21,750.95	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	19,187.47	
			For Steam Heating Coil, Aluminum Fins, Add	16,623.98	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	13,438.96	
			For Chilled Water Cooling Coil, Copper Fins, Add	26,877.92	
			For Direct Expansion Cooling Coil, Copper Fins, Add	24,314.44	
			For Hot Water Heating Coil, Copper Fins, Add	19,187.47	
			For Variable Air Volume, Add	7,177.76	
			For Economizer, Panel, Controls And Damper(s), Add	3,629.61	
			For 2 Coils, Independent Circuits, Add	7,395.44	
23 73 13 00-0038	EA		32,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 69,794.18	9,377.17	
			For Flat Filter Box And Throwaway Filters, Add	6,309.95	
			For Medium Capacity Filter Box And Throwaway Filters, Add	12,218.23	
			For Combination Filter Mixing Box And Throwaway Filters, Add	21,080.64	
			For Manual Roll Filter, Add	30,669.47	
			For Automatic Roll Filter, Add	32,361.62	
			For Hot Water Heating Coil, Aluminum Fins, Add	12,619.91	
			For Electric Heating Coil, Add	13,748.00	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	23,900.89	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	21,080.64	
			For Steam Heating Coil, Aluminum Fins, Add	18,260.40	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	14,770.69	
			For Chilled Water Cooling Coil, Copper Fins, Add	29,541.37	
			For Direct Expansion Cooling Coil, Copper Fins, Add	26,721.13	
			For Hot Water Heating Coil, Copper Fins, Add	21,080.64	
			For Variable Air Volume, Add	7,896.68	
			For Economizer, Panel, Controls And Damper(s), Add	3,773.39	
			For 2 Coils, Independent Circuits, Add	8,107.52	
23 73 13 00-0039	EA		35,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 76,580.42	10,284.91	
			For Flat Filter Box And Throwaway Filters, Add	6,930.67	
			For Medium Capacity Filter Box And Throwaway Filters, Add	13,424.93	
			For Combination Filter Mixing Box And Throwaway Filters, Add	23,166.30	
			For Manual Roll Filter, Add	33,711.92	
			For Automatic Roll Filter, Add	35,572.91	
			For Hot Water Heating Coil, Aluminum Fins, Add	13,861.35	
			For Electric Heating Coil, Add	15,102.01	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	26,267.96	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	23,166.30	
			For Steam Heating Coil, Aluminum Fins, Add	20,064.65	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	16,235.63	
			For Chilled Water Cooling Coil, Copper Fins, Add	32,471.26	
			For Direct Expansion Cooling Coil, Copper Fins, Add	29,369.61	
			For Hot Water Heating Coil, Copper Fins, Add	23,166.30	
			For Variable Air Volume, Add	8,684.63	
			For Economizer, Panel, Controls And Damper(s), Add	3,947.11	
			For 2 Coils, Independent Circuits, Add	8,898.70	
23 73 13 00-0040	EA		37,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 82,426.59	10,801.03	
			For Flat Filter Box And Throwaway Filters, Add	7,471.53	
			For Medium Capacity Filter Box And Throwaway Filters, Add	14,480.37	
			For Combination Filter Mixing Box And Throwaway Filters, Add	24,993.64	
			For Manual Roll Filter, Add	36,384.30	
			For Automatic Roll Filter, Add	38,394.42	
			For Hot Water Heating Coil, Aluminum Fins, Add	14,943.05	
			For Electric Heating Coil, Add	16,283.13	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	28,343.83	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	24,993.64	
			For Steam Heating Coil, Aluminum Fins, Add	21,643.44	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	17,522.11	
			For Chilled Water Cooling Coil, Copper Fins, Add	35,044.22	
			For Direct Expansion Cooling Coil, Copper Fins, Add	31,694.03	
			For Hot Water Heating Coil, Copper Fins, Add	24,993.64	
			For Variable Air Volume, Add	9,380.55	
			For Economizer, Panel, Controls And Damper(s), Add	4,078.40	
			For 2 Coils, Independent Circuits, Add	9,582.74	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Indoor Central-Station Air-Handling Units			23 73	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0041	EA		40,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 88,906.14 For Flat Filter Box And Throwaway Filters, Add 8,062.53 For Medium Capacity Filter Box And Throwaway Filters, Add 15,628.22 For Combination Filter Mixing Box And Throwaway Filters, Add 26,976.74 For Manual Roll Filter, Add 39,275.31 For Automatic Roll Filter, Add 41,445.64 For Hot Water Heating Coil, Aluminum Fins, Add 16,125.07 For Electric Heating Coil, Add 17,571.96 For Chilled Water Cooling Coil, Aluminum Fins, Add 30,593.97 For Direct Expansion Cooling Coil, Aluminum Fins, Add 26,976.74 For Steam Heating Coil, Aluminum Fins, Add 23,359.52 For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add 18,914.21 For Chilled Water Cooling Coil, Copper Fins, Add 37,828.42 For Direct Expansion Cooling Coil, Copper Fins, Add 34,211.19 For Hot Water Heating Coil, Copper Fins, Add 26,976.74 For Variable Air Volume, Add 10,128.23 For Economizer, Panel, Controls And Damper(s), Add 3,900.20 For 2 Coils, Independent Circuits, Add 10,337.50	11,554.45	
23 73 13 00-0042	EA		45,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 95,959.93 For Flat Filter Box And Throwaway Filters, Add 8,704.85 For Medium Capacity Filter Box And Throwaway Filters, Add 16,875.01 For Combination Filter Mixing Box And Throwaway Filters, Add 29,130.24 For Manual Roll Filter, Add 42,413.53 For Automatic Roll Filter, Add 44,757.64 For Hot Water Heating Coil, Aluminum Fins, Add 17,409.69 For Electric Heating Coil, Add 18,972.43 For Chilled Water Cooling Coil, Aluminum Fins, Add 33,037.09 For Direct Expansion Cooling Coil, Aluminum Fins, Add 29,130.24 For Steam Heating Coil, Aluminum Fins, Add 25,223.39 For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add 20,425.40 For Chilled Water Cooling Coil, Copper Fins, Add 40,850.79 For Direct Expansion Cooling Coil, Copper Fins, Add 36,943.94 For Hot Water Heating Coil, Copper Fins, Add 29,130.24 For Variable Air Volume, Add 10,939.18 For Economizer, Panel, Controls And Damper(s), Add 4,057.87 For 2 Coils, Independent Circuits, Add 11,158.73	12,475.59	
23 73 13 00-0043	EA		47,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 99,965.91 For Flat Filter Box And Throwaway Filters, Add 9,065.36 For Medium Capacity Filter Box And Throwaway Filters, Add 17,571.99 For Combination Filter Mixing Box And Throwaway Filters, Add 30,331.93 For Manual Roll Filter, Add 44,159.96 For Automatic Roll Filter, Add 46,600.20 For Hot Water Heating Coil, Aluminum Fins, Add 18,130.73 For Electric Heating Coil, Add 19,757.55 For Chilled Water Cooling Coil, Aluminum Fins, Add 34,399.00 For Direct Expansion Cooling Coil, Aluminum Fins, Add 30,331.93 For Steam Heating Coil, Aluminum Fins, Add 26,264.86 For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add 21,266.57 For Chilled Water Cooling Coil, Copper Fins, Add 42,533.13 For Direct Expansion Cooling Coil, Copper Fins, Add 38,466.06 For Hot Water Heating Coil, Copper Fins, Add 30,331.93 For Variable Air Volume, Add 11,387.79 For Economizer, Panel, Controls And Damper(s), Add 4,158.07 For 2 Coils, Independent Circuits, Add 11,623.42	13,061.55	
23 73 13 00-0044	EA		50,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 103,742.98 For Flat Filter Box And Throwaway Filters, Add 9,406.22 For Medium Capacity Filter Box And Throwaway Filters, Add 18,231.59 For Combination Filter Mixing Box And Throwaway Filters, Add 31,469.64 For Manual Roll Filter, Add 45,814.48 For Automatic Roll Filter, Add 48,345.92 For Hot Water Heating Coil, Aluminum Fins, Add 18,812.44 For Electric Heating Coil, Add 20,500.06 For Chilled Water Cooling Coil, Aluminum Fins, Add 35,688.71 For Direct Expansion Cooling Coil, Aluminum Fins, Add 31,469.64 For Steam Heating Coil, Aluminum Fins, Add 27,250.57 For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add 22,063.43 For Chilled Water Cooling Coil, Copper Fins, Add 44,126.85 For Direct Expansion Cooling Coil, Copper Fins, Add 39,907.78 For Hot Water Heating Coil, Copper Fins, Add 31,469.64 For Variable Air Volume, Add 11,813.39 For Economizer, Panel, Controls And Damper(s), Add 4,250.20 For 2 Coils, Independent Circuits, Add 12,061.93	13,563.92	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0045 EA 55,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	111,861.81	14,484.94
For Flat Filter Box And Throwaway Filters, Add	10,151.08	
For Medium Capacity Filter Box And Throwaway Filters, Add	19,681.10	
For Combination Filter Mixing Box And Throwaway Filters, Add	33,976.14	
For Manual Roll Filter, Add	49,473.31	
For Automatic Roll Filter, Add	52,208.10	
For Hot Water Heating Coil, Aluminum Fins, Add	20,302.16	
For Electric Heating Coil, Add	22,125.36	
For Chilled Water Cooling Coil, Aluminum Fins, Add	38,534.13	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	33,976.14	
For Steam Heating Coil, Aluminum Fins, Add	29,418.15	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	23,825.06	
For Chilled Water Cooling Coil, Copper Fins, Add	47,650.11	
For Direct Expansion Cooling Coil, Copper Fins, Add	43,092.12	
For Hot Water Heating Coil, Copper Fins, Add	33,976.14	
For Variable Air Volume, Add	12,762.38	
For Economizer, Panel, Controls And Damper(s), Add	4,417.75	
For 2 Coils, Independent Circuits, Add	13,009.38	
23 73 13 00-0046 EA 60,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	122,389.07	15,489.67
For Flat Filter Box And Throwaway Filters, Add	11,131.40	
For Medium Capacity Filter Box And Throwaway Filters, Add	21,598.28	
For Combination Filter Mixing Box And Throwaway Filters, Add	37,298.62	
For Manual Roll Filter, Add	54,339.22	
For Automatic Roll Filter, Add	57,346.39	
For Hot Water Heating Coil, Aluminum Fins, Add	22,262.79	
For Electric Heating Coil, Add	24,267.57	
For Chilled Water Cooling Coil, Aluminum Fins, Add	42,310.56	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	37,298.62	
For Steam Heating Coil, Aluminum Fins, Add	32,286.68	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	26,167.22	
For Chilled Water Cooling Coil, Copper Fins, Add	52,334.44	
For Direct Expansion Cooling Coil, Copper Fins, Add	47,322.50	
For Hot Water Heating Coil, Copper Fins, Add	37,298.62	
For Variable Air Volume, Add	14,033.44	
For Economizer, Panel, Controls And Damper(s), Add	4,115.02	
For 2 Coils, Independent Circuits, Add	14,243.68	
23 73 13 00-0047 EA 65,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	134,184.99	16,745.59
For Flat Filter Box And Throwaway Filters, Add	12,222.39	
For Medium Capacity Filter Box And Throwaway Filters, Add	23,727.10	
For Combination Filter Mixing Box And Throwaway Filters, Add	40,984.18	
For Manual Roll Filter, Add	59,728.84	
For Automatic Roll Filter, Add	63,036.72	
For Hot Water Heating Coil, Aluminum Fins, Add	24,444.77	
For Electric Heating Coil, Add	26,650.03	
For Chilled Water Cooling Coil, Aluminum Fins, Add	46,497.32	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	40,984.18	
For Steam Heating Coil, Aluminum Fins, Add	35,471.04	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	28,761.79	
For Chilled Water Cooling Coil, Copper Fins, Add	57,523.59	
For Direct Expansion Cooling Coil, Copper Fins, Add	52,010.45	
For Hot Water Heating Coil, Copper Fins, Add	40,984.18	
For Variable Air Volume, Add	15,436.78	
For Economizer, Panel, Controls And Damper(s), Add	4,292.23	
For 2 Coils, Independent Circuits, Add	15,623.75	
23 73 13 00-0048 EA 70,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	147,316.07	18,168.97
For Flat Filter Box And Throwaway Filters, Add	13,431.49	
For Medium Capacity Filter Box And Throwaway Filters, Add	26,082.90	
For Combination Filter Mixing Box And Throwaway Filters, Add	45,060.02	
For Manual Roll Filter, Add	65,683.34	
For Automatic Roll Filter, Add	69,322.75	
For Hot Water Heating Coil, Aluminum Fins, Add	26,862.97	
For Electric Heating Coil, Add	29,289.24	
For Chilled Water Cooling Coil, Aluminum Fins, Add	51,125.70	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	45,060.02	
For Steam Heating Coil, Aluminum Fins, Add	38,994.34	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	31,628.53	
For Chilled Water Cooling Coil, Copper Fins, Add	63,257.06	
For Direct Expansion Cooling Coil, Copper Fins, Add	57,191.38	
For Hot Water Heating Coil, Copper Fins, Add	45,060.02	
For Variable Air Volume, Add	16,983.91	
For Economizer, Panel, Controls And Damper(s), Add	4,500.24	
For 2 Coils, Independent Circuits, Add	17,157.88	

23 73 13 00-0049 Multi-Zone Units (23 73 13)

Note: Horizontal/vertical blow-thru fan, motor and cabinet.



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Indoor Central-Station Air-Handling Units			23 73	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0050	EA		1,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	8,725.29	1,506.86
			For Economizer, Panel, Controls And Damper(s), Add	2,146.58	
			For Flat Filter Box And Throwaway Filters, Add	764.92	
			For Medium Capacity Filter Box And Throwaway Filters, Add	1,465.27	
			For Combination Filter Mixing Box And Throwaway Filters, Add	1,858.49	
			For Manual Roll Filter, Add	3,830.40	
			For Automatic Roll Filter, Add	3,830.40	
			For Hot Water Heating Coil, Aluminum Fins, Add	872.53	
			For Electric Heating Coil, Add	1,003.99	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	3,173.09	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,173.09	
			For Chilled Water Cooling Coil, Copper Fins, Add	3,830.40	
			For Direct Expansion Cooling Coil, Copper Fins, Add	3,830.40	
			For 2 Coils, Independent Circuits, Add	1,003.99	
23 73 13 00-0051	EA		1,200 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	10,872.21	1,887.82
			For Economizer, Panel, Controls And Damper(s), Add	2,527.89	
			For Flat Filter Box And Throwaway Filters, Add	952.37	
			For Medium Capacity Filter Box And Throwaway Filters, Add	1,823.83	
			For Combination Filter Mixing Box And Throwaway Filters, Add	2,313.50	
			For Manual Roll Filter, Add	4,766.07	
			For Automatic Roll Filter, Add	4,766.07	
			For Hot Water Heating Coil, Aluminum Fins, Add	1,087.22	
			For Electric Heating Coil, Add	1,250.73	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	3,948.55	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,948.55	
			For Chilled Water Cooling Coil, Copper Fins, Add	4,766.07	
			For Direct Expansion Cooling Coil, Copper Fins, Add	4,766.07	
			For 2 Coils, Independent Circuits, Add	1,250.73	
23 73 13 00-0052	EA		1,600 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	13,469.12	2,009.23
			For Economizer, Panel, Controls And Damper(s), Add	2,649.07	
			For Flat Filter Box And Throwaway Filters, Add	1,203.41	
			For Medium Capacity Filter Box And Throwaway Filters, Add	2,320.71	
			For Combination Filter Mixing Box And Throwaway Filters, Add	2,936.77	
			For Manual Roll Filter, Add	6,116.47	
			For Automatic Roll Filter, Add	6,116.47	
			For Hot Water Heating Coil, Aluminum Fins, Add	1,346.91	
			For Electric Heating Coil, Add	1,558.89	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	5,056.57	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,056.57	
			For Chilled Water Cooling Coil, Copper Fins, Add	6,116.47	
			For Direct Expansion Cooling Coil, Copper Fins, Add	6,116.47	
			For 2 Coils, Independent Circuits, Add	1,558.89	
23 73 13 00-0053	EA		2,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	14,000.55	2,151.57
			For Economizer, Panel, Controls And Damper(s), Add	2,791.01	
			For Flat Filter Box And Throwaway Filters, Add	1,246.41	
			For Medium Capacity Filter Box And Throwaway Filters, Add	2,400.64	
			For Combination Filter Mixing Box And Throwaway Filters, Add	3,039.21	
			For Manual Roll Filter, Add	6,317.51	
			For Automatic Roll Filter, Add	6,317.51	
			For Hot Water Heating Coil, Aluminum Fins, Add	1,400.06	
			For Electric Heating Coil, Add	1,618.61	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	5,224.74	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,224.74	
			For Chilled Water Cooling Coil, Copper Fins, Add	6,317.51	
			For Direct Expansion Cooling Coil, Copper Fins, Add	6,317.51	
			For 2 Coils, Independent Circuits, Add	1,618.61	
23 73 13 00-0054	EA		2,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	16,400.07	2,306.47
			For Economizer, Panel, Controls And Damper(s), Add	2,946.55	
			For Flat Filter Box And Throwaway Filters, Add	1,475.25	
			For Medium Capacity Filter Box And Throwaway Filters, Add	2,851.65	
			For Combination Filter Mixing Box And Throwaway Filters, Add	3,605.76	
			For Manual Roll Filter, Add	7,537.26	
			For Automatic Roll Filter, Add	7,537.26	
			For Hot Water Heating Coil, Aluminum Fins, Add	1,640.01	
			For Electric Heating Coil, Add	1,902.11	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	6,226.76	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,226.76	
			For Chilled Water Cooling Coil, Copper Fins, Add	7,537.26	
			For Direct Expansion Cooling Coil, Copper Fins, Add	7,537.26	
			For 2 Coils, Independent Circuits, Add	1,902.11	
23 73 13 00-0055	EA		3,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	17,290.66	2,469.97
			For Economizer, Panel, Controls And Damper(s), Add	3,109.85	
			For Flat Filter Box And Throwaway Filters, Add	1,552.65	
			For Medium Capacity Filter Box And Throwaway Filters, Add	2,999.45	
			For Combination Filter Mixing Box And Throwaway Filters, Add	3,793.41	
			For Manual Roll Filter, Add	7,922.10	
			For Automatic Roll Filter, Add	7,922.10	
			For Hot Water Heating Coil, Aluminum Fins, Add	1,729.07	
			For Electric Heating Coil, Add	2,004.31	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	6,545.87	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,545.87	
			For Chilled Water Cooling Coil, Copper Fins, Add	7,922.10	
			For Direct Expansion Cooling Coil, Copper Fins, Add	7,922.10	
			For 2 Coils, Independent Circuits, Add	2,004.31	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0056	EA	3,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	18,227.98	2,637.31
		For Economizer, Panel, Controls And Damper(s), Add	3,277.10	
		For Flat Filter Box And Throwaway Filters, Add	1,634.43	
		For Medium Capacity Filter Box And Throwaway Filters, Add	3,155.85	
		For Combination Filter Mixing Box And Throwaway Filters, Add	3,991.90	
		For Manual Roll Filter, Add	8,330.11	
		For Automatic Roll Filter, Add	8,330.11	
		For Hot Water Heating Coil, Aluminum Fins, Add	1,822.80	
		For Electric Heating Coil, Add	2,112.01	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	6,884.04	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,884.04	
		For Chilled Water Cooling Coil, Copper Fins, Add	8,330.11	
		For Direct Expansion Cooling Coil, Copper Fins, Add	8,330.11	
		For 2 Coils, Independent Circuits, Add	2,112.01	
23 73 13 00-0057	EA	4,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	20,343.45	2,830.01
		For Economizer, Panel, Controls And Damper(s), Add	2,968.76	
		For Flat Filter Box And Throwaway Filters, Add	1,832.64	
		For Medium Capacity Filter Box And Throwaway Filters, Add	3,544.26	
		For Combination Filter Mixing Box And Throwaway Filters, Add	4,480.75	
		For Manual Roll Filter, Add	9,373.55	
		For Automatic Roll Filter, Add	9,373.55	
		For Hot Water Heating Coil, Aluminum Fins, Add	2,034.35	
		For Electric Heating Coil, Add	2,360.53	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	7,742.62	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,742.62	
		For Chilled Water Cooling Coil, Copper Fins, Add	9,373.55	
		For Direct Expansion Cooling Coil, Copper Fins, Add	9,373.55	
		For 2 Coils, Independent Circuits, Add	2,360.53	
23 73 13 00-0058	EA	4,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	22,241.35	3,030.71
		For Economizer, Panel, Controls And Damper(s), Add	3,131.40	
		For Flat Filter Box And Throwaway Filters, Add	2,007.64	
		For Medium Capacity Filter Box And Throwaway Filters, Add	3,885.39	
		For Combination Filter Mixing Box And Throwaway Filters, Add	4,910.86	
		For Manual Roll Filter, Add	10,284.32	
		For Automatic Roll Filter, Add	10,284.32	
		For Hot Water Heating Coil, Aluminum Fins, Add	2,224.14	
		For Electric Heating Coil, Add	2,582.37	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	8,493.17	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,493.17	
		For Chilled Water Cooling Coil, Copper Fins, Add	10,284.32	
		For Direct Expansion Cooling Coil, Copper Fins, Add	10,284.32	
		For 2 Coils, Independent Circuits, Add	2,582.37	
23 73 13 00-0059	EA	5,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	23,511.23	3,236.92
		For Economizer, Panel, Controls And Damper(s), Add	3,287.56	
		For Flat Filter Box And Throwaway Filters, Add	2,120.44	
		For Medium Capacity Filter Box And Throwaway Filters, Add	4,102.46	
		For Combination Filter Mixing Box And Throwaway Filters, Add	5,185.75	
		For Manual Roll Filter, Add	10,854.99	
		For Automatic Roll Filter, Add	10,854.99	
		For Hot Water Heating Coil, Aluminum Fins, Add	2,351.12	
		For Electric Heating Coil, Add	2,729.07	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	8,965.24	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,965.24	
		For Chilled Water Cooling Coil, Copper Fins, Add	10,854.99	
		For Direct Expansion Cooling Coil, Copper Fins, Add	10,854.99	
		For 2 Coils, Independent Circuits, Add	2,729.07	
23 73 13 00-0060	EA	5,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	25,935.26	3,458.21
		For Economizer, Panel, Controls And Damper(s), Add	3,468.44	
		For Flat Filter Box And Throwaway Filters, Add	2,346.40	
		For Medium Capacity Filter Box And Throwaway Filters, Add	4,544.51	
		For Combination Filter Mixing Box And Throwaway Filters, Add	5,742.42	
		For Manual Roll Filter, Add	12,040.21	
		For Automatic Roll Filter, Add	12,040.21	
		For Hot Water Heating Coil, Aluminum Fins, Add	2,593.53	
		For Electric Heating Coil, Add	3,013.38	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	9,940.95	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,940.95	
		For Chilled Water Cooling Coil, Copper Fins, Add	12,040.21	
		For Direct Expansion Cooling Coil, Copper Fins, Add	12,040.21	
		For 2 Coils, Independent Circuits, Add	3,013.38	
23 73 13 00-0061	EA	6,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	27,593.94	3,701.02
		For Economizer, Panel, Controls And Damper(s), Add	3,657.68	
		For Flat Filter Box And Throwaway Filters, Add	2,495.06	
		For Medium Capacity Filter Box And Throwaway Filters, Add	4,831.52	
		For Combination Filter Mixing Box And Throwaway Filters, Add	6,105.48	
		For Manual Roll Filter, Add	12,797.66	
		For Automatic Roll Filter, Add	12,797.66	
		For Hot Water Heating Coil, Aluminum Fins, Add	2,759.39	
		For Electric Heating Coil, Add	3,205.54	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	10,566.93	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,566.93	
		For Chilled Water Cooling Coil, Copper Fins, Add	12,797.66	
		For Direct Expansion Cooling Coil, Copper Fins, Add	12,797.66	
		For 2 Coils, Independent Circuits, Add	3,205.54	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Indoor Central-Station Air-Handling Units			23 73	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0062	EA		6,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	30,262.41	4,018.94
			For Economizer, Panel, Controls And Damper(s), Add	3,905.22	
			For Flat Filter Box And Throwaway Filters, Add	2,739.40	
			For Medium Capacity Filter Box And Throwaway Filters, Add	5,306.70	
			For Combination Filter Mixing Box And Throwaway Filters, Add	6,705.09	
			For Manual Roll Filter, Add	14,062.78	
			For Automatic Roll Filter, Add	14,062.78	
			For Hot Water Heating Coil, Aluminum Fins, Add	3,026.24	
			For Electric Heating Coil, Add	3,516.75	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	11,610.22	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	11,610.22	
			For Chilled Water Cooling Coil, Copper Fins, Add	14,062.78	
			For Direct Expansion Cooling Coil, Copper Fins, Add	14,062.78	
			For 2 Coils, Independent Circuits, Add	3,516.75	
23 73 13 00-0063	EA		7,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	32,514.70	4,328.85
			For Economizer, Panel, Controls And Damper(s), Add	4,149.80	
			For Flat Filter Box And Throwaway Filters, Add	2,942.40	
			For Medium Capacity Filter Box And Throwaway Filters, Add	5,699.35	
			For Combination Filter Mixing Box And Throwaway Filters, Add	7,201.46	
			For Manual Roll Filter, Add	15,101.43	
			For Automatic Roll Filter, Add	15,101.43	
			For Hot Water Heating Coil, Aluminum Fins, Add	3,251.47	
			For Electric Heating Coil, Add	3,778.13	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	12,468.10	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	12,468.10	
			For Chilled Water Cooling Coil, Copper Fins, Add	15,101.43	
			For Direct Expansion Cooling Coil, Copper Fins, Add	15,101.43	
			For 2 Coils, Independent Circuits, Add	3,778.13	
23 73 13 00-0064	EA		7,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	34,115.31	4,680.39
			For Economizer, Panel, Controls And Damper(s), Add	3,609.15	
			For Flat Filter Box And Throwaway Filters, Add	3,077.89	
			For Medium Capacity Filter Box And Throwaway Filters, Add	5,955.59	
			For Combination Filter Mixing Box And Throwaway Filters, Add	7,527.90	
			For Manual Roll Filter, Add	15,760.63	
			For Automatic Roll Filter, Add	15,760.63	
			For Hot Water Heating Coil, Aluminum Fins, Add	3,411.53	
			For Electric Heating Coil, Add	3,960.38	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	13,016.39	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	13,016.39	
			For Chilled Water Cooling Coil, Copper Fins, Add	15,760.63	
			For Direct Expansion Cooling Coil, Copper Fins, Add	15,760.63	
			For 2 Coils, Independent Circuits, Add	3,960.38	
23 73 13 00-0065	EA		8,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	37,863.16	5,048.56
			For Economizer, Panel, Controls And Damper(s), Add	3,826.55	
			For Flat Filter Box And Throwaway Filters, Add	3,425.50	
			For Medium Capacity Filter Box And Throwaway Filters, Add	6,634.50	
			For Combination Filter Mixing Box And Throwaway Filters, Add	8,383.33	
			For Manual Roll Filter, Add	17,577.37	
			For Automatic Roll Filter, Add	17,577.37	
			For Hot Water Heating Coil, Aluminum Fins, Add	3,786.32	
			For Electric Heating Coil, Add	4,399.25	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	14,512.69	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	14,512.69	
			For Chilled Water Cooling Coil, Copper Fins, Add	17,577.37	
			For Direct Expansion Cooling Coil, Copper Fins, Add	17,577.37	
			For 2 Coils, Independent Circuits, Add	4,399.25	
23 73 13 00-0066	EA		8,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	39,864.24	5,442.08
			For Economizer, Panel, Controls And Damper(s), Add	4,051.84	
			For Flat Filter Box And Throwaway Filters, Add	3,597.44	
			For Medium Capacity Filter Box And Throwaway Filters, Add	6,961.50	
			For Combination Filter Mixing Box And Throwaway Filters, Add	8,799.12	
			For Manual Roll Filter, Add	18,424.51	
			For Automatic Roll Filter, Add	18,424.51	
			For Hot Water Heating Coil, Aluminum Fins, Add	3,986.42	
			For Electric Heating Coil, Add	4,628.12	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	15,216.05	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	15,216.05	
			For Chilled Water Cooling Coil, Copper Fins, Add	18,424.51	
			For Direct Expansion Cooling Coil, Copper Fins, Add	18,424.51	
			For 2 Coils, Independent Circuits, Add	4,628.12	
23 73 13 00-0067	EA		9,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	42,080.60	5,894.45
			For Economizer, Panel, Controls And Damper(s), Add	4,297.51	
			For Flat Filter Box And Throwaway Filters, Add	3,788.37	
			For Medium Capacity Filter Box And Throwaway Filters, Add	7,324.93	
			For Combination Filter Mixing Box And Throwaway Filters, Add	9,261.08	
			For Manual Roll Filter, Add	19,367.13	
			For Automatic Roll Filter, Add	19,367.13	
			For Hot Water Heating Coil, Aluminum Fins, Add	4,208.06	
			For Electric Heating Coil, Add	4,881.80	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	15,998.45	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	15,998.45	
			For Chilled Water Cooling Coil, Copper Fins, Add	19,367.13	
			For Direct Expansion Cooling Coil, Copper Fins, Add	19,367.13	
			For 2 Coils, Independent Circuits, Add	4,881.80	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0068	EA	10,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	44,467.08	6,362.96
		For Economizer, Panel, Controls And Damper(s), Add	3,908.78	
		For Flat Filter Box And Throwaway Filters, Add	3,991.91	
		For Medium Capacity Filter Box And Throwaway Filters, Add	7,710.95	
		For Combination Filter Mixing Box And Throwaway Filters, Add	9,752.38	
		For Manual Roll Filter, Add	20,363.73	
		For Automatic Roll Filter, Add	20,363.73	
		For Hot Water Heating Coil, Aluminum Fins, Add	4,446.71	
		For Electric Heating Coil, Add	5,154.13	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	16,826.61	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	16,826.61	
		For Chilled Water Cooling Coil, Copper Fins, Add	20,363.73	
		For Direct Expansion Cooling Coil, Copper Fins, Add	20,363.73	
		For 2 Coils, Independent Circuits, Add	5,154.13	
23 73 13 00-0069	EA	11,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	45,714.01	6,606.14
		For Economizer, Panel, Controls And Damper(s), Add	4,017.88	
		For Flat Filter Box And Throwaway Filters, Add	4,098.42	
		For Medium Capacity Filter Box And Throwaway Filters, Add	7,913.06	
		For Combination Filter Mixing Box And Throwaway Filters, Add	10,009.56	
		For Manual Roll Filter, Add	20,885.89	
		For Automatic Roll Filter, Add	20,885.89	
		For Hot Water Heating Coil, Aluminum Fins, Add	4,571.40	
		For Electric Heating Coil, Add	5,296.49	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	17,260.45	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	17,260.45	
		For Chilled Water Cooling Coil, Copper Fins, Add	20,885.89	
		For Direct Expansion Cooling Coil, Copper Fins, Add	20,885.89	
		For 2 Coils, Independent Circuits, Add	5,296.49	
23 73 13 00-0070	EA	12,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	46,906.30	6,841.89
		For Economizer, Panel, Controls And Damper(s), Add	4,110.59	
		For Flat Filter Box And Throwaway Filters, Add	4,202.20	
		For Medium Capacity Filter Box And Throwaway Filters, Add	8,111.34	
		For Combination Filter Mixing Box And Throwaway Filters, Add	10,261.28	
		For Manual Roll Filter, Add	21,402.58	
		For Automatic Roll Filter, Add	21,402.58	
		For Hot Water Heating Coil, Aluminum Fins, Add	4,690.63	
		For Electric Heating Coil, Add	5,433.38	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	17,688.81	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	17,688.81	
		For Chilled Water Cooling Coil, Copper Fins, Add	21,402.58	
		For Direct Expansion Cooling Coil, Copper Fins, Add	21,402.58	
		For 2 Coils, Independent Circuits, Add	5,433.38	
23 73 13 00-0071	EA	13,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	53,083.23	7,116.87
		For Economizer, Panel, Controls And Damper(s), Add	3,438.83	
		For Flat Filter Box And Throwaway Filters, Add	4,798.62	
		For Medium Capacity Filter Box And Throwaway Filters, Add	9,291.41	
		For Combination Filter Mixing Box And Throwaway Filters, Add	11,741.69	
		For Manual Roll Filter, Add	24,608.41	
		For Automatic Roll Filter, Add	24,608.41	
		For Hot Water Heating Coil, Aluminum Fins, Add	5,308.32	
		For Electric Heating Coil, Add	6,166.10	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	20,319.50	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	20,319.50	
		For Chilled Water Cooling Coil, Copper Fins, Add	24,608.41	
		For Direct Expansion Cooling Coil, Copper Fins, Add	24,608.41	
		For 2 Coils, Independent Circuits, Add	6,166.10	
23 73 13 00-0072	EA	15,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	59,215.17	7,398.80
		For Economizer, Panel, Controls And Damper(s), Add	3,585.57	
		For Flat Filter Box And Throwaway Filters, Add	5,392.78	
		For Medium Capacity Filter Box And Throwaway Filters, Add	10,468.33	
		For Combination Filter Mixing Box And Throwaway Filters, Add	13,217.59	
		For Manual Roll Filter, Add	27,809.74	
		For Automatic Roll Filter, Add	27,809.74	
		For Hot Water Heating Coil, Aluminum Fins, Add	5,921.52	
		For Electric Heating Coil, Add	6,894.33	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	22,945.69	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	22,945.69	
		For Chilled Water Cooling Coil, Copper Fins, Add	27,809.74	
		For Direct Expansion Cooling Coil, Copper Fins, Add	27,809.74	
		For 2 Coils, Independent Circuits, Add	6,894.33	
23 73 13 00-0073	EA	16,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	68,168.32	7,677.85
		For Economizer, Panel, Controls And Damper(s), Add	3,653.41	
		For Flat Filter Box And Throwaway Filters, Add	6,268.72	
		For Medium Capacity Filter Box And Throwaway Filters, Add	12,208.56	
		For Combination Filter Mixing Box And Throwaway Filters, Add	15,397.73	
		For Manual Roll Filter, Add	32,559.52	
		For Automatic Roll Filter, Add	32,559.52	
		For Hot Water Heating Coil, Aluminum Fins, Add	6,816.83	
		For Electric Heating Coil, Add	7,960.95	
		For Chilled Water Cooling Coil, Aluminum Fins, Add	26,838.93	
		For Direct Expansion Cooling Coil, Aluminum Fins, Add	26,838.93	
		For Chilled Water Cooling Coil, Copper Fins, Add	32,559.52	
		For Direct Expansion Cooling Coil, Copper Fins, Add	32,559.52	
		For 2 Coils, Independent Circuits, Add	7,960.95	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Indoor Central-Station Air-Handling Units			23 73	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0074	EA		17,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	77,126.97	7,954.15
			For Economizer, Panel, Controls And Damper(s), Add	3,722.21	
			For Flat Filter Box And Throwaway Filters, Add	7,144.92	
			For Medium Capacity Filter Box And Throwaway Filters, Add	13,949.18	
			For Combination Filter Mixing Box And Throwaway Filters, Add	17,578.42	
			For Manual Roll Filter, Add	37,309.86	
			For Automatic Roll Filter, Add	37,309.86	
			For Hot Water Heating Coil, Aluminum Fins, Add	7,712.70	
			For Electric Heating Coil, Add	9,028.13	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	30,732.71	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	30,732.71	
			For Chilled Water Cooling Coil, Copper Fins, Add	37,309.86	
			For Direct Expansion Cooling Coil, Copper Fins, Add	37,309.86	
			For 2 Coils, Independent Circuits, Add	9,028.13	
23 73 13 00-0075	EA		20,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	86,633.40	8,623.98
			For Economizer, Panel, Controls And Damper(s), Add	3,890.47	
			For Flat Filter Box And Throwaway Filters, Add	8,047.49	
			For Medium Capacity Filter Box And Throwaway Filters, Add	12,009.65	
			For Combination Filter Mixing Box And Throwaway Filters, Add	19,810.80	
			For Manual Roll Filter, Add	30,958.27	
			For Automatic Roll Filter, Add	38,389.91	
			For Hot Water Heating Coil, Aluminum Fins, Add	8,663.34	
			For Electric Heating Coil, Add	10,149.67	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	30,958.27	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	30,958.27	
			For Steam Heating Coil, Aluminum Fins, Add	16,094.98	
			For Chilled Water Cooling Coil, Copper Fins, Add	38,389.91	
			For Direct Expansion Cooling Coil, Copper Fins, Add	38,389.91	
			For 2 Coils, Independent Circuits, Add	10,149.67	
23 73 13 00-0076	EA		22,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	93,431.94	9,377.53
			For Economizer, Panel, Controls And Damper(s), Add	3,763.45	
			For Flat Filter Box And Throwaway Filters, Add	8,677.04	
			For Medium Capacity Filter Box And Throwaway Filters, Add	12,948.95	
			For Combination Filter Mixing Box And Throwaway Filters, Add	21,359.53	
			For Manual Roll Filter, Add	33,375.87	
			For Automatic Roll Filter, Add	41,386.76	
			For Hot Water Heating Coil, Aluminum Fins, Add	9,343.19	
			For Electric Heating Coil, Add	10,945.37	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	33,375.87	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	33,375.87	
			For Steam Heating Coil, Aluminum Fins, Add	17,354.09	
			For Chilled Water Cooling Coil, Copper Fins, Add	41,386.76	
			For Direct Expansion Cooling Coil, Copper Fins, Add	41,386.76	
			For 2 Coils, Independent Circuits, Add	10,945.37	
23 73 13 00-0077	EA		25,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	111,585.80	10,130.72
			For Economizer, Panel, Controls And Damper(s), Add	3,935.37	
			For Flat Filter Box And Throwaway Filters, Add	10,435.12	
			For Medium Capacity Filter Box And Throwaway Filters, Add	15,580.34	
			For Combination Filter Mixing Box And Throwaway Filters, Add	25,726.08	
			For Manual Roll Filter, Add	40,293.58	
			For Automatic Roll Filter, Add	50,005.24	
			For Hot Water Heating Coil, Aluminum Fins, Add	11,158.58	
			For Electric Heating Coil, Add	13,100.91	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	40,293.58	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	40,293.58	
			For Steam Heating Coil, Aluminum Fins, Add	20,870.25	
			For Chilled Water Cooling Coil, Copper Fins, Add	50,005.24	
			For Direct Expansion Cooling Coil, Copper Fins, Add	50,005.24	
			For 2 Coils, Independent Circuits, Add	13,100.91	
23 73 13 00-0078	EA		27,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	126,197.12	10,968.36
			For Economizer, Panel, Controls And Damper(s), Add	4,112.02	
			For Flat Filter Box And Throwaway Filters, Add	11,837.37	
			For Medium Capacity Filter Box And Throwaway Filters, Add	17,677.82	
			For Combination Filter Mixing Box And Throwaway Filters, Add	29,202.26	
			For Manual Roll Filter, Add	45,784.80	
			For Automatic Roll Filter, Add	56,839.83	
			For Hot Water Heating Coil, Aluminum Fins, Add	12,619.71	
			For Electric Heating Coil, Add	14,830.72	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	45,784.80	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	45,784.80	
			For Steam Heating Coil, Aluminum Fins, Add	23,674.74	
			For Chilled Water Cooling Coil, Copper Fins, Add	56,839.83	
			For Direct Expansion Cooling Coil, Copper Fins, Add	56,839.83	
			For 2 Coils, Independent Circuits, Add	14,830.72	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0079 EA 30,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	136,789.96	11,806.00
For Economizer, Panel, Controls And Damper(s), Add	4,295.96	
For Flat Filter Box And Throwaway Filters, Add	12,835.34	
For Medium Capacity Filter Box And Throwaway Filters, Add	19,168.65	
For Combination Filter Mixing Box And Throwaway Filters, Add	31,666.53	
For Manual Roll Filter, Add	49,654.06	
For Automatic Roll Filter, Add	61,645.74	
For Hot Water Heating Coil, Aluminum Fins, Add	13,679.00	
For Electric Heating Coil, Add	16,077.33	
For Chilled Water Cooling Coil, Aluminum Fins, Add	49,654.06	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	49,654.06	
For Steam Heating Coil, Aluminum Fins, Add	25,670.68	
For Chilled Water Cooling Coil, Copper Fins, Add	61,645.74	
For Direct Expansion Cooling Coil, Copper Fins, Add	61,645.74	
For 2 Coils, Independent Circuits, Add	16,077.33	
23 73 13 00-0080 EA 32,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	152,820.17	13,814.75
For Economizer, Panel, Controls And Damper(s), Add	4,294.52	
For Flat Filter Box And Throwaway Filters, Add	14,296.21	
For Medium Capacity Filter Box And Throwaway Filters, Add	21,345.73	
For Combination Filter Mixing Box And Throwaway Filters, Add	35,247.62	
For Manual Roll Filter, Add	55,213.23	
For Automatic Roll Filter, Add	68,523.63	
For Hot Water Heating Coil, Aluminum Fins, Add	15,282.02	
For Electric Heating Coil, Add	17,944.10	
For Chilled Water Cooling Coil, Aluminum Fins, Add	55,213.23	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	55,213.23	
For Steam Heating Coil, Aluminum Fins, Add	28,592.42	
For Chilled Water Cooling Coil, Copper Fins, Add	68,523.63	
For Direct Expansion Cooling Coil, Copper Fins, Add	68,523.63	
For 2 Coils, Independent Circuits, Add	17,944.10	
23 73 13 00-0081 EA 35,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	153,557.57	14,317.48
For Economizer, Panel, Controls And Damper(s), Add	4,386.69	
For Flat Filter Box And Throwaway Filters, Add	14,333.08	
For Medium Capacity Filter Box And Throwaway Filters, Add	21,397.35	
For Combination Filter Mixing Box And Throwaway Filters, Add	35,321.36	
For Manual Roll Filter, Add	55,286.97	
For Automatic Roll Filter, Add	68,597.37	
For Hot Water Heating Coil, Aluminum Fins, Add	15,355.76	
For Electric Heating Coil, Add	18,017.84	
For Chilled Water Cooling Coil, Aluminum Fins, Add	55,286.97	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	55,286.97	
For Steam Heating Coil, Aluminum Fins, Add	28,666.16	
For Chilled Water Cooling Coil, Copper Fins, Add	68,597.37	
For Direct Expansion Cooling Coil, Copper Fins, Add	68,597.37	
For 2 Coils, Independent Circuits, Add	18,017.84	
23 73 13 00-0082 EA 37,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	160,621.53	14,819.37
For Economizer, Panel, Controls And Damper(s), Add	4,478.87	
For Flat Filter Box And Throwaway Filters, Add	15,002.61	
For Medium Capacity Filter Box And Throwaway Filters, Add	22,397.95	
For Combination Filter Mixing Box And Throwaway Filters, Add	36,976.74	
For Manual Roll Filter, Add	57,891.33	
For Automatic Roll Filter, Add	71,834.39	
For Hot Water Heating Coil, Aluminum Fins, Add	16,062.15	
For Electric Heating Coil, Add	18,850.76	
For Chilled Water Cooling Coil, Aluminum Fins, Add	57,891.33	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	57,891.33	
For Steam Heating Coil, Aluminum Fins, Add	30,005.21	
For Chilled Water Cooling Coil, Copper Fins, Add	71,834.39	
For Direct Expansion Cooling Coil, Copper Fins, Add	71,834.39	
For 2 Coils, Independent Circuits, Add	18,850.76	
23 73 13 00-0083 EA 40,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	168,016.21	15,908.31
For Economizer, Panel, Controls And Damper(s), Add	4,668.87	
For Flat Filter Box And Throwaway Filters, Add	15,666.07	
For Medium Capacity Filter Box And Throwaway Filters, Add	23,385.55	
For Combination Filter Mixing Box And Throwaway Filters, Add	38,597.41	
For Manual Roll Filter, Add	60,393.19	
For Automatic Roll Filter, Add	74,923.72	
For Hot Water Heating Coil, Aluminum Fins, Add	16,801.62	
For Electric Heating Coil, Add	19,707.73	
For Chilled Water Cooling Coil, Aluminum Fins, Add	60,393.19	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	60,393.19	
For Steam Heating Coil, Aluminum Fins, Add	31,332.15	
For Chilled Water Cooling Coil, Copper Fins, Add	74,923.72	
For Direct Expansion Cooling Coil, Copper Fins, Add	74,923.72	
For 2 Coils, Independent Circuits, Add	19,707.73	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central HVAC Equipment			23 70
Indoor Central-Station Air-Handling Units			23 73

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0084	EA		45,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	181,117.45	16,745.59
			For Economizer, Panel, Controls And Damper(s), Add	4,807.05	
			For Flat Filter Box And Throwaway Filters, Add	16,920.92	
			For Medium Capacity Filter Box And Throwaway Filters, Add	25,262.30	
			For Combination Filter Mixing Box And Throwaway Filters, Add	41,706.90	
			For Manual Roll Filter, Add	65,302.05	
			For Automatic Roll Filter, Add	81,032.16	
			For Hot Water Heating Coil, Aluminum Fins, Add	18,111.75	
			For Electric Heating Coil, Add	21,257.77	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	65,302.05	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	65,302.05	
			For Steam Heating Coil, Aluminum Fins, Add	33,841.85	
			For Chilled Water Cooling Coil, Copper Fins, Add	81,032.16	
			For Direct Expansion Cooling Coil, Copper Fins, Add	81,032.16	
			For 2 Coils, Independent Circuits, Add	21,257.77	
23 73 13 00-0085	EA		50,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	194,731.20	17,666.60
			For Economizer, Panel, Controls And Damper(s), Add	4,427.01	
			For Flat Filter Box And Throwaway Filters, Add	18,209.62	
			For Medium Capacity Filter Box And Throwaway Filters, Add	27,188.08	
			For Combination Filter Mixing Box And Throwaway Filters, Add	44,892.29	
			For Manual Roll Filter, Add	70,311.47	
			For Automatic Roll Filter, Add	87,257.58	
			For Hot Water Heating Coil, Aluminum Fins, Add	19,473.12	
			For Electric Heating Coil, Add	22,862.34	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	70,311.47	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	70,311.47	
			For Steam Heating Coil, Aluminum Fins, Add	36,419.24	
			For Chilled Water Cooling Coil, Copper Fins, Add	87,257.58	
			For Direct Expansion Cooling Coil, Copper Fins, Add	87,257.58	
			For 2 Coils, Independent Circuits, Add	22,862.34	
23 73 13 00-0086	EA		55,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	209,796.75	18,755.07
			For Economizer, Panel, Controls And Damper(s), Add	4,577.87	
			For Flat Filter Box And Throwaway Filters, Add	19,640.74	
			For Medium Capacity Filter Box And Throwaway Filters, Add	29,327.22	
			For Combination Filter Mixing Box And Throwaway Filters, Add	48,432.38	
			For Manual Roll Filter, Add	75,885.09	
			For Automatic Roll Filter, Add	94,186.90	
			For Hot Water Heating Coil, Aluminum Fins, Add	20,979.68	
			For Electric Heating Coil, Add	24,640.04	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	75,885.09	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	75,885.09	
			For Steam Heating Coil, Aluminum Fins, Add	39,281.48	
			For Chilled Water Cooling Coil, Copper Fins, Add	94,186.90	
			For Direct Expansion Cooling Coil, Copper Fins, Add	94,186.90	
			For 2 Coils, Independent Circuits, Add	24,640.04	
23 73 13 00-0087	EA		60,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	225,145.95	19,257.43
			For Economizer, Panel, Controls And Damper(s), Add	4,646.18	
			For Flat Filter Box And Throwaway Filters, Add	21,141.50	
			For Medium Capacity Filter Box And Throwaway Filters, Add	31,574.95	
			For Combination Filter Mixing Box And Throwaway Filters, Add	52,167.22	
			For Manual Roll Filter, Add	81,819.84	
			For Automatic Roll Filter, Add	101,588.25	
			For Hot Water Heating Coil, Aluminum Fins, Add	22,514.60	
			For Electric Heating Coil, Add	26,468.28	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	81,819.84	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	81,819.84	
			For Steam Heating Coil, Aluminum Fins, Add	42,283.01	
			For Chilled Water Cooling Coil, Copper Fins, Add	101,588.25	
			For Direct Expansion Cooling Coil, Copper Fins, Add	101,588.25	
			For 2 Coils, Independent Circuits, Add	26,468.28	
23 73 13 00-0088			Return/Supply Air Fan (23 73 13)		
			Note: Includes vibration mounts.		
23 73 13 00-0089	EA		300 CFM Return Air Fan.....	3,787.90	669.70
23 73 13 00-0090	EA		500 CFM Return Air Fan.....	4,920.25	803.67
23 73 13 00-0091	EA		750 CFM Return Air Fan.....	5,139.70	837.16
23 73 13 00-0092	EA		1,000 CFM Return Air Fan.....	5,875.45	887.39
23 73 13 00-0093	EA		1,250 CFM Return Air Fan.....	6,052.40	929.26
23 73 13 00-0094	EA		1,500 CFM Return Air Fan.....	6,190.15	971.13
23 73 13 00-0095	EA		1,750 CFM Return Air Fan.....	6,496.36	1,021.36
23 73 13 00-0096	EA		2,000 CFM Return Air Fan.....	7,232.10	1,071.59
23 73 13 00-0097	EA		2,250 CFM Return Air Fan.....	7,577.23	1,121.84
23 73 13 00-0098	EA		2,500 CFM Return Air Fan.....	7,766.19	1,172.07
23 73 13 00-0099	EA		3,000 CFM Return Air Fan.....	8,218.61	1,297.66
23 73 13 00-0100	EA		3,500 CFM Return Air Fan.....	8,431.68	1,364.65
23 73 13 00-0101	EA		4,000 CFM Return Air Fan.....	8,632.52	1,423.26
23 73 13 00-0102	EA		4,500 CFM Return Air Fan.....	8,884.63	1,490.36
23 73 13 00-0103	EA		5,000 CFM Return Air Fan.....	9,109.29	1,565.71
23 73 13 00-0104	EA		5,500 CFM Return Air Fan.....	9,528.42	1,749.92
23 73 13 00-0105	EA		6,000 CFM Return Air Fan.....	10,814.91	2,076.45
23 73 13 00-0106	EA		6,500 CFM Return Air Fan.....	11,097.80	2,109.95
23 73 13 00-0107	EA		7,000 CFM Return Air Fan.....	11,226.38	2,118.32
23 73 13 00-0108	EA		8,000 CFM Return Air Fan.....	11,821.68	2,151.81
23 73 13 00-0109	EA		9,000 CFM Return Air Fan.....	12,087.92	2,176.93
23 73 13 00-0110	EA		10,000 CFM Return Air Fan.....	12,719.32	2,261.01

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0111 EA 12,500 CFM Return Air Fan.....	13,558.01	2,302.40
23 73 13 00-0112 EA 15,000 CFM Return Air Fan.....	15,332.44	2,367.82
23 73 13 00-0113 EA 17,500 CFM Return Air Fan.....	16,724.48	2,494.97
23 73 13 00-0114 EA 20,000 CFM Return Air Fan.....	19,925.49	2,603.58
23 73 13 00-0115 EA 22,500 CFM Return Air Fan.....	20,883.53	2,694.37
23 73 13 00-0116 EA 25,000 CFM Return Air Fan.....	21,838.25	2,771.40
23 73 13 00-0117 EA 27,500 CFM Return Air Fan.....	23,135.74	3,047.70
23 73 13 00-0118 EA 30,000 CFM Return Air Fan.....	24,740.58	3,214.91
23 73 13 00-0119 EA 35,000 CFM Return Air Fan.....	27,940.16	3,348.76
23 73 13 00-0120 EA 40,000 CFM Return Air Fan.....	32,948.74	3,683.67
23 73 13 00-0121 EA 45,000 CFM Return Air Fan.....	40,577.45	4,186.04
23 73 13 00-0122 EA 50,000 CFM Return Air Fan.....	49,463.10	4,337.11
23 73 13 00-0123 EA 55,000 CFM Return Air Fan.....	51,784.06	4,462.34
23 73 13 00-0124 EA 60,000 CFM Return Air Fan.....	52,973.62	4,579.56
23 73 13 00-0125 EA 65,000 CFM Return Air Fan.....	55,557.58	4,780.38
23 73 13 00-0126 EA 70,000 CFM Return Air Fan.....	58,354.80	5,015.79
23 73 13 00-0127 EA 75,000 CFM Return Air Fan.....	62,776.21	5,261.82
23 73 13 00-0128 EA 80,000 CFM Return Air Fan.....	65,556.71	5,540.75
23 73 13 00-0129 EA 90,000 CFM Return Air Fan.....	67,678.94	5,856.29
23 73 13 00-0130 EA 100,000 CFM Return Air Fan.....	72,786.07	6,124.34
23 73 13 00-0131 EA 115,000 CFM Return Air Fan.....	78,320.32	6,417.27
23 73 13 00-0132 EA 130,000 CFM Return Air Fan.....	84,326.24	6,740.58
23 73 13 00-0133 EA 150,000 CFM Return Air Fan.....	92,294.37	7,099.65

23 73 13 00-0134 Removal And Reinstallation Of Air Handling Unit (23 73 13)

Note: Air handling units with filter and coils. Includes storage and cleaning. Excludes ductwork.

23 73 13 00-0135 EA Removal And Reinstallation Of Up To 11,500 CFM Air Handling Unit.....	3,066.96	
23 73 13 00-0136 EA Removal And Reinstallation Of >11,500 To 16,500 CFM Air Handling Unit.....	4,160.39	
23 73 13 00-0137 EA Removal And Reinstallation Of >16,500 To 22,000 CFM Air Handling Unit.....	5,175.49	
23 73 13 00-0138 EA Removal And Reinstallation Of >22,000 CFM Air Handling Unit.....	9,443.00	

23 74 Packaged Outdoor HVAC Equipment (23 70)**23 74 16 Packaged Rooftop Air-Conditioning Units (23 74)****23 74 16 13 Packaged, Large-Capacity, Rooftop Air-Conditioning Units (23 74 16)****23 74 16 13-0001 Electric Cooling, Electric Heat, Self Contained Packaged Rooftop Air-Conditioning Units (23 74 16 13)**

Note: Electric heating capacity is approximately 1/2 the cooling capacity. Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Includes roof curb and economizer. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment, 26 28 16 16-0001 for disconnects.

23 74 16 13-0002 EA 2 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	6,727.23	1,859.26
For Unit Without Heat, Deduct	-460.31	
For Unit Without Factory Installed Economizer, Deduct	-1,165.66	
For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0003 EA 3 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	7,656.19	1,943.78
For Unit Without Heat, Deduct	-512.39	
For Unit Without Factory Installed Economizer, Deduct	-1,165.66	
For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0004 EA 4 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	9,226.78	2,028.29
For Unit Without Heat, Deduct	-596.56	
For Unit Without Factory Installed Economizer, Deduct	-1,165.66	
For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0005 EA 5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	11,103.04	2,155.06
For Unit Without Heat, Deduct	-698.82	
For Unit Without Factory Installed Economizer, Deduct	-1,165.66	
For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0006 EA 6 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	12,042.52	2,281.83
For Unit Without Heat, Deduct	-754.25	
For Unit Without Factory Installed Economizer, Deduct	-1,165.66	
For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0007 EA 7.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	14,072.32	2,450.84
For Unit Without Heat, Deduct	-867.01	
For Unit Without Factory Installed Economizer, Deduct	-1,189.75	
For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0008 EA 8.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	16,980.09	2,577.61
For Unit Without Heat, Deduct	-1,020.85	
For Unit Without Factory Installed Economizer, Deduct	-1,189.75	
For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0009 EA 10 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	17,893.36	2,746.64
For Unit Without Heat, Deduct	-1,077.78	
For Unit Without Factory Installed Economizer, Deduct	-1,216.70	
For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0010 EA 12.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	22,085.15	2,968.07
For Unit Without Heat, Deduct	-1,302.16	
For Unit Without Factory Installed Economizer, Deduct	-1,314.03	
For Unit Without Roof Curb, Deduct	-955.97	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Packaged Outdoor HVAC Equipment			23 74	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
23 74 16 13-0011	EA	15 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	23,988.11	3,190.33
		For Unit Without Heat, Deduct	-1,412.09	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0012	EA	17.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	27,483.04	3,412.04
		For Unit Without Heat, Deduct	-1,601.63	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0013	EA	20 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	31,060.02	3,634.02
		For Unit Without Heat, Deduct	-1,795.27	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0014	EA	22.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	34,583.13	4,003.62
		For Unit Without Heat, Deduct	-1,996.07	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0015	EA	25 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	36,864.65	4,373.49
		For Unit Without Heat, Deduct	-2,134.80	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0016	EA	27.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	39,576.77	4,785.64
		For Unit Without Heat, Deduct	-2,297.87	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-1,416.43	
23 74 16 13-0017	EA	30 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	43,221.83	5,197.49
		For Unit Without Heat, Deduct	-2,507.59	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-1,416.43	
23 74 16 13-0018	EA	35 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	50,105.83	6,063.74
		For Unit Without Heat, Deduct	-2,909.54	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-1,416.43	
23 74 16 13-0019	EA	40 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	57,521.05	6,929.99
		For Unit Without Heat, Deduct	-3,338.05	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-2,155.42	
23 74 16 13-0020	EA	45 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	62,861.79	7,817.36
		For Unit Without Heat, Deduct	-3,664.25	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-2,155.42	
23 74 16 13-0021	EA	50 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	72,580.63	8,704.74
		For Unit Without Heat, Deduct	-4,209.35	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-2,155.42	
23 74 16 13-0022	EA	55 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	80,869.72	9,549.86
		For Unit Without Heat, Deduct	-4,680.14	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-2,681.26	
23 74 16 13-0023	EA	60 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	87,426.20	10,394.98
		For Unit Without Heat, Deduct	-5,064.31	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-2,681.26	
23 74 16 13-0024	EA	65 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	93,674.98	11,240.10
		For Unit Without Heat, Deduct	-5,433.09	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-2,855.67	
23 74 16 13-0025	EA	70 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	100,740.52	12,085.23
		For Unit Without Heat, Deduct	-5,842.71	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-2,855.67	
23 74 16 13-0026	EA	75 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	109,149.09	13,014.86
		For Unit Without Heat, Deduct	-6,325.11	
		For Unit Without Factory Installed Economizer, Deduct	-2,483.92	
		For Unit Without Roof Curb, Deduct	-3,180.25	

23 74 16 13-0027 Electric Cooling, Gas Heat, Self Contained Packaged Rooftop Air-Conditioning Units (23 74 16 13)

Note: Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Includes roof curb and economizer. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment, 26 28 16 16-0001 for Disconnects.

23 74 16 13-0028	EA	2 Ton Electric Cooling, 50 MBH Gas Heating, Self Contained Package Rooftop Unit.....	6,630.54	1,690.24
		For Unit Without Factory Installed Economizer, Deduct	-1,165.66	
		For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0029	EA	3 Ton Electric Cooling, 60 To 80 MBH Gas Heating, Self Contained Package Rooftop Unit.....	7,750.12	1,943.78
		For Unit Without Factory Installed Economizer, Deduct	-1,165.66	
		For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0030	EA	4 Ton Electric Cooling, 80 To 110 MBH Gas Heating, Self Contained Package Rooftop Unit.....	9,834.36	2,239.57
		For Unit Without Factory Installed Economizer, Deduct	-1,165.66	
		For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0031	EA	5 Ton Electric Cooling, 100 To 120 MBH Gas Heating, Self Contained Package Rooftop Unit.....	11,202.75	2,408.60
		For Unit Without Factory Installed Economizer, Deduct	-1,165.66	
		For Unit Without Roof Curb, Deduct	-796.62	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0032 EA 6 Ton Electric Cooling, 140 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	12,716.69 -1,165.66 -796.62	2,598.74
23 74 16 13-0033 EA 7.5 Ton Electric Cooling, 150 To 180 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	14,978.37 -1,189.75 -955.97	2,725.51
23 74 16 13-0034 EA 8.5 Ton Electric Cooling, 170 To 190 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	18,812.77 -1,189.75 -955.97	2,260.70
23 74 16 13-0035 EA 10 Ton Electric Cooling, 200 To 240 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	19,354.54 -1,216.70 -955.97	3,042.43
23 74 16 13-0036 EA 12.5 Ton Electric Cooling, 250 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	24,333.79 -1,314.03 -955.97	3,295.97
23 74 16 13-0037 EA 15 Ton Electric Cooling, 300 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	26,481.09 -2,483.92 -955.97	3,549.50
23 74 16 13-0038 EA 17.5 Ton Electric Cooling, 330 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	30,869.95 -2,483.92 -955.97	3,803.04
23 74 16 13-0039 EA 20 Ton Electric Cooling, 350 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	39,341.17 -2,483.92 -955.97	4,056.58
23 74 16 13-0040 EA 22.5 Ton Electric Cooling, 380 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	48,170.17 -2,483.92 -955.97	4,479.13
23 74 16 13-0041 EA 25 Ton Electric Cooling, 400 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	56,999.16 -2,483.92 -955.97	4,845.36
23 74 16 13-0042 EA 27.5 Ton Electric Cooling, 450 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	58,650.15 -2,483.92 -1,416.43	5,324.26
23 74 16 13-0043 EA 30 Ton Electric Cooling, 500 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	61,179.27 -2,483.92 -1,416.43	5,746.82
23 74 16 13-0044 EA 35 Ton Electric Cooling, 550 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	68,027.17 -2,483.92 -1,416.43	6,718.71
23 74 16 13-0045 EA 40 Ton Electric Cooling, 600 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	75,538.47 -2,483.92 -2,155.42	7,690.59
23 74 16 13-0046 EA 45 Ton Electric Cooling, 650 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	81,667.96 -2,483.92 -2,155.42	8,662.48
23 74 16 13-0047 EA 50 Ton Electric Cooling, 750 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	87,092.53 -2,483.92 -2,155.42	9,634.37
23 74 16 13-0048 EA 55 Ton Electric Cooling, 800 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	95,785.90 -2,483.92 -2,681.26	10,606.26
23 74 16 13-0049 EA 60 Ton Electric Cooling, 850 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	104,100.94 -2,483.92 -2,681.26	11,578.15
23 74 16 13-0050 EA 65 Ton Electric Cooling, 900 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	112,475.83 -2,483.92 -2,855.67	12,064.10
23 74 16 13-0051 EA 70 Ton Electric Cooling, 950 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	120,950.32 -2,483.92 -2,855.67	12,528.91
23 74 16 13-0052 EA 75 Ton Electric Cooling, 1,000 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	133,189.80 -2,483.92 -3,180.25	13,014.86
23 74 16 13-0053 EA 80 Ton Electric Cooling, 1,100 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	126,441.65 -2,483.92 -3,180.25	13,521.93
23 74 16 13-0054 EA 90 Ton Electric Cooling, 1,200 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	183,792.52 -2,483.92 -3,180.25	15,888.26
23 74 16 13-0055 EA 100 Ton Electric Cooling, 1,350 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	206,573.15 -2,483.92 -3,180.25	19,353.26

23 74 16 13-0056 Dedicated Outdoor Air Systems (DOAS) Rooftop Air-Conditioning Units ^{(23 74}^{16 13)}

Note: Units < 5 tons have 14 SEER minimum, units 5 to < 20 tons have 11 EER minimum, and units 20 tons and over have 10 EER minimum. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment, 07 72 13 00-0000 for roof curbs, 23 09 23 00-0000 for controls, 26 28 16 16-0001 for disconnects.



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Packaged Outdoor HVAC Equipment			23 74	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0057		AAON RQ Rooftop Units (23 74 16 13-0056) Note: Includes 2" double wall foam panel construction, direct drive fan with VFD (or ECM motor), single stage on/off scroll compressor, terminal strip for field supplied thermostat, gas heat, manually adjustable OSA damper, microchannel condenser coils. Excludes economizer, controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.		
23 74 16 13-0058	EA	2 Ton, Air-Cooled Packaged Rooftop Units (AAON RQ-002)..... For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	15,178.33 1,636.56 1,775.57 1,397.90 1,599.85 8,156.60 1,904.08	1,690.24
23 74 16 13-0059	EA	3 Ton, Air-Cooled Packaged Rooftop Units (AAON RQ-003)..... For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	16,539.22 1,754.59 1,904.08 1,497.56 1,715.25 8,156.60 1,904.08	1,943.78
23 74 16 13-0060	EA	4 Ton, Air-Cooled Packaged Rooftop Units (AAON RQ-004)..... For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	17,167.03 1,754.59 1,904.08 1,497.56 1,715.25 8,156.60 1,904.08	2,239.57
23 74 16 13-0061	EA	5 Ton, Air-Cooled Packaged Rooftop Units (AAON RQ-005)..... For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	17,599.59 1,754.59 1,904.08 1,497.56 1,715.25 8,156.60 1,904.08	2,408.60
23 74 16 13-0062	EA	6 Ton, Air-Cooled Packaged Rooftop Units (AAON RQ-006)..... For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	19,256.27 1,754.59 1,904.08 1,497.56 1,715.25 8,156.60 1,904.08	2,936.85
23 74 16 13-0063		AAON RNA Rooftop Units (23 74 16 13-0056) Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, single stage on/off compressor, terminal strip for field provided thermostat, gas heat, manually adjustable OSA damper. Excludes economizer, controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.		
23 74 16 13-0064	EA	6 Ton, Air-Cooled Packaged Rooftop Units (AAON RNA-006)..... For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	23,350.30 1,707.38 2,622.70 1,749.34 1,615.58 4,356.30 1,484.45	2,598.80
23 74 16 13-0065	EA	7 Ton, Air-Cooled Packaged Rooftop Units (AAON RNA-007)..... For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	24,932.97 1,707.38 2,622.70 1,749.34 1,615.58 4,356.30 1,484.45	2,725.57
23 74 16 13-0066	EA	8 Ton, Air-Cooled Packaged Rooftop Units (AAON RNA-008)..... For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	28,645.16 1,707.38 2,622.70 1,749.34 1,615.58 4,356.30 1,484.45	2,936.85
23 74 16 13-0067	EA	10 Ton, Air-Cooled Packaged Rooftop Units (AAON RNA-010)..... For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	28,925.02 1,707.38 2,622.70 1,749.34 1,615.58 4,356.30 1,484.45	3,042.43
23 74 16 13-0068		AAON RNB Rooftop Units (23 74 16 13-0056) Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0069 EA 9 Ton, Air-Cooled Packaged Rooftop Units (AAON RNB-009).....	34,367.12	3,042.43
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.17	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,967.02	
For Factory Installed Non-Fused Disconnect, Add	1,560.51	
For Factory Installed Exhaust Fan, Add	4,154.36	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,492.32	
23 74 16 13-0070 EA 11 Ton, Air-Cooled Packaged Rooftop Units (AAON RNB-011).....	34,639.98	2,957.92
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.17	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,967.02	
For Factory Installed Non-Fused Disconnect, Add	1,560.51	
For Factory Installed Exhaust Fan, Add	4,154.36	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,492.32	
23 74 16 13-0071 EA 13 Ton, Air-Cooled Packaged Rooftop Units (AAON RNB-013).....	37,760.61	3,295.97
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.17	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,967.02	
For Factory Installed Non-Fused Disconnect, Add	1,560.51	
For Factory Installed Exhaust Fan, Add	4,154.36	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,492.32	
23 74 16 13-0072 EA 15 Ton, Air-Cooled Packaged Rooftop Units (AAON RNB-015).....	38,707.13	3,549.50
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.17	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,967.02	
For Factory Installed Non-Fused Disconnect, Add	1,560.51	
For Factory Installed Exhaust Fan, Add	4,154.36	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,492.32	
23 74 16 13-0073 AAON RNC Rooftop Units (23 74 16 13-0056)		
Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0074 EA 16 Ton, Air-Cooled Packaged Rooftop Units (AAON RNC-016).....	49,963.75	3,549.50
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	3,713.74	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	2,622.70	
For Factory Installed Non-Fused Disconnect, Add	1,560.51	
For Factory Installed Exhaust Fan, Add	7,618.94	
For Hot Water Coil In Lieu Of Gas Heat, Add	679.28	
23 74 16 13-0075 EA 18 Ton, Air-Cooled Packaged Rooftop Units (AAON RNC-018).....	53,978.83	3,803.04
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	3,713.74	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	2,622.70	
For Factory Installed Non-Fused Disconnect, Add	1,560.51	
For Factory Installed Exhaust Fan, Add	7,618.94	
For Hot Water Coil In Lieu Of Gas Heat, Add	679.28	
23 74 16 13-0076 EA 20 Ton, Air-Cooled Packaged Rooftop Units (AAON RNC-020).....	57,193.98	4,056.58
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	3,713.74	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	2,622.70	
For Factory Installed Non-Fused Disconnect, Add	1,560.51	
For Factory Installed Exhaust Fan, Add	7,618.94	
For Hot Water Coil In Lieu Of Gas Heat, Add	679.28	
23 74 16 13-0077 EA 25 Ton, Air-Cooled Packaged Rooftop Units (AAON RNC-025).....	61,827.35	4,901.70
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	3,713.74	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	2,622.70	
For Factory Installed Non-Fused Disconnect, Add	1,560.51	
For Factory Installed Exhaust Fan, Add	7,618.94	
For Hot Water Coil In Lieu Of Gas Heat, Add	679.28	
23 74 16 13-0078 EA 30 Ton, Air-Cooled Packaged Rooftop Units (AAON RNC-030).....	70,101.04	5,746.82
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	3,713.74	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	2,622.70	
For Factory Installed Non-Fused Disconnect, Add	1,560.51	
For Factory Installed Exhaust Fan, Add	7,618.94	
For Hot Water Coil In Lieu Of Gas Heat, Add	679.28	
23 74 16 13-0079 AAON RND Rooftop Units (23 74 16 13-0056)		
Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) variable capacity digital scroll compressor and (2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), factory installed non-fused disconnect and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0080 EA 26 Ton, Air-Cooled Packaged Rooftop Units (AAON RND-026).....	94,157.37	4,901.70
For Factory Authorized Start Up, 4 Hour, One Trip, Add	3,278.38	
For Factory Installed Non-Fused Disconnect, Add	3,551.14	
For Hot Water Coil In Lieu Of Gas Heat, Add	4,983.13	
23 74 16 13-0081 EA 31 Ton, Air-Cooled Packaged Rooftop Units (AAON RND-031).....	107,272.57	5,746.82
For Factory Authorized Start Up, 4 Hour, One Trip, Add	3,278.38	
For Factory Installed Non-Fused Disconnect, Add	3,551.14	
For Hot Water Coil In Lieu Of Gas Heat, Add	4,983.13	
23 74 16 13-0082 EA 40 Ton, Air-Cooled Packaged Rooftop Units (AAON RND-040).....	126,305.97	7,690.59
For Factory Authorized Start Up, 4 Hour, One Trip, Add	3,278.38	
For Factory Installed Non-Fused Disconnect, Add	3,551.14	
For Hot Water Coil In Lieu Of Gas Heat, Add	4,983.13	
23 74 16 13-0083 EA 50 Ton, Air-Cooled Packaged Rooftop Units (AAON RND-050).....	148,069.62	9,634.37
For Factory Authorized Start Up, 4 Hour, One Trip, Add	3,278.38	
For Factory Installed Non-Fused Disconnect, Add	3,551.14	
For Hot Water Coil In Lieu Of Gas Heat, Add	4,983.13	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central HVAC Equipment			23 70
Packaged Outdoor HVAC Equipment			23 74

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0084	EA		60 Ton, Air-Cooled Packaged Rooftop Units (AAON RND-060)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	162,555.26 3,278.38 3,551.14 4,983.13	11,578.15
23 74 16 13-0085	EA		70 Ton, Air-Cooled Packaged Rooftop Units (AAON RND-070)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	171,027.50 3,278.38 3,551.14 4,983.13	12,528.96
23 74 16 13-0086			AAON RNE Rooftop Units (23 74 16 13-0056) Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1 or 2) variable speed VFD controlled scroll compressor and (1 or 2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), Microchannel condenser coils with VFD controlled condenser fans, factory installed non-fused disconnect and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0087	EA		55 Ton, Air-Cooled Packaged Rooftop Units (AAON RNE-055)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	158,017.76 3,703.25 5,318.84 7,081.29	10,606.26
23 74 16 13-0088	EA		65 Ton, Air-Cooled Packaged Rooftop Units (AAON RNE-065)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	174,032.31 3,703.25 5,318.84 7,081.29	12,064.15
23 74 16 13-0089	EA		75 Ton, Air-Cooled Packaged Rooftop Units (AAON RNE-075)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	185,027.59 3,703.25 5,318.84 7,081.29	13,014.86
23 74 16 13-0090	EA		95 Ton, Air-Cooled Packaged Rooftop Units (AAON RNE-090)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	223,779.45 3,703.25 5,318.84 7,081.29	17,620.76
23 74 16 13-0091	EA		105 Ton, Air-Cooled Packaged Rooftop Units (AAON RNE-105)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	242,307.39 3,703.25 5,318.84 7,081.29	20,113.87
23 74 16 13-0092	EA		120 Ton, Air-Cooled Packaged Rooftop Units (AAON RNE-120)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	282,658.00 3,703.25 5,318.84 7,081.29	22,142.15
23 74 16 13-0093	EA		130 Ton, Air-Cooled Packaged Rooftop Units (AAON RNE-130)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	289,514.86 3,703.25 5,318.84 7,081.29	23,494.34
23 74 16 13-0094	EA		140 Ton, Air-Cooled Packaged Rooftop Units (AAON RNE-140)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	303,301.93 3,703.25 5,318.84 7,081.29	26,283.25
23 74 16 13-0095			Removal And Reinstallation Of Packaged Rooftop Air-Conditioning Units (23 74 16 13) Note: Includes storage and cleaning.		
23 74 16 13-0096	EA		Removal And Reinstallation Of Up To 5 Ton, Rooftop Unit	672.07	
23 74 16 13-0097	EA		Removal And Reinstallation Of >5 To 10 Ton, Rooftop Unit.....	916.47	
23 74 16 13-0098	EA		Removal And Reinstallation Of >10 To 15 Ton, Rooftop Unit.....	1,221.84	
23 74 16 13-0099	EA		Removal And Reinstallation Of >15 To 25 Ton, Rooftop Unit.....	1,954.31	
23 74 16 13-0100	EA		Removal And Reinstallation Of >25 To 50 Ton, Rooftop Unit.....	3,420.58	
23 74 16 13-0101	EA		Removal And Reinstallation Of >50 To 75 Ton, Rooftop Unit.....	4,887.33	
23 74 16 13-0102			Packaged Rooftop Units (Trane, Carrier Or Equal) (23 74 16 13) Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0103			Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane, Carrier Or Equal) (23 74 16 13-0102)		
23 74 16 13-0104			Standard Efficiency Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane, Carrier Or Equal) (23 74 16 13-0103) Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.		
23 74 16 13-0105	EA		3 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Precedent YS_036)	12,283.96	1,943.78
			<i>For Factory Installed Economizer, Add</i> <i>For Roof Curb, Add</i> <i>For Factory Installed BACnet, Add</i> <i>For Demand Control Ventilation, Add</i> Note: Includes CO2 wall mounted sensor.	1,239.42 797.97 1,030.05 1,863.26	
23 74 16 13-0106	EA		4 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Precedent YS_048)	13,674.02	2,239.57
			<i>For Factory Installed Economizer, Add</i> <i>For Roof Curb, Add</i> <i>For Factory Installed BACnet, Add</i> <i>For Demand Control Ventilation, Add</i> Note: Includes CO2 wall mounted sensor.	1,342.70 797.97 1,030.05 1,863.26	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0107	EA		5 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Precedent YS_060).....	14,923.98	2,408.60
			For Factory Installed Economizer, Add	1,342.70	
			For Roof Curb, Add	797.97	
			For Factory Installed BACnet, Add	1,030.05	
			For Demand Control Ventilation, Add	1,863.26	
			Note: Includes CO2 wall mounted sensor.		
23 74 16 13-0108	EA		6 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Precedent YS_072).....	16,472.70	2,598.80
			For Factory Installed Economizer, Add	1,342.70	
			For Roof Curb, Add	797.97	
			For Factory Installed BACnet, Add	1,030.05	
			For Demand Control Ventilation, Add	1,863.26	
			Note: Includes CO2 wall mounted sensor.		
23 74 16 13-0109	EA		7.5 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Precedent YS_092).....	19,285.83	2,725.57
			For Factory Installed Economizer, Add	1,342.70	
			For Roof Curb, Add	957.57	
			For Factory Installed BACnet, Add	1,030.05	
			For Demand Control Ventilation, Add	1,863.26	
			Note: Includes CO2 wall mounted sensor.		
23 74 16 13-0110	EA		8.5 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Precedent YS_102).....	20,943.29	2,936.85
			For Factory Installed Economizer, Add	1,342.70	
			For Roof Curb, Add	957.57	
			For Factory Installed BACnet, Add	1,030.05	
			For Demand Control Ventilation, Add	1,863.26	
			Note: Includes CO2 wall mounted sensor.		
23 74 16 13-0111	EA		10 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Precedent YS_120).....	27,721.24	3,042.43
			For Factory Installed Economizer, Add	1,342.70	
			For Roof Curb, Add	957.57	
			For Factory Installed BACnet, Add	1,030.05	
			For Demand Control Ventilation, Add	1,863.26	
			Note: Includes CO2 wall mounted sensor.		
23 74 16 13-0112	EA		12.5 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Voyager YS_150).....	31,835.38	3,295.97
			For Economizer, Add	2,347.06	
			For Roof Curb, Add	898.45	
			For Factory Installed BACnet, Add	1,030.05	
			For Demand Control Ventilation, Add	2,300.92	
			Note: Includes ventilation module and CO2 wall mounted sensor kit.		
23 74 16 13-0113	EA		15 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Voyager YS_180).....	34,782.41	3,549.50
			For Economizer, Add	2,347.06	
			For Roof Curb, Add	898.45	
			For Factory Installed BACnet, Add	1,030.05	
			For Demand Control Ventilation, Add	2,300.92	
			Note: Includes ventilation module and CO2 wall mounted sensor kit.		
23 74 16 13-0114	EA		17.5 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Voyager YS_210).....	40,160.77	3,803.04
			For Economizer, Add	2,347.06	
			For Roof Curb, Add	898.45	
			For Factory Installed BACnet, Add	1,030.05	
			For Demand Control Ventilation, Add	2,300.92	
			Note: Includes ventilation module and CO2 wall mounted sensor kit.		
23 74 16 13-0115	EA		20 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Voyager YS_240).....	43,876.24	4,056.58
			For Economizer, Add	2,347.06	
			For Roof Curb, Add	898.45	
			For Factory Installed BACnet, Add	1,030.05	
			For Demand Control Ventilation, Add	2,300.92	
			Note: Includes ventilation module and CO2 wall mounted sensor kit.		
23 74 16 13-0116	EA		25 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Voyager YS_300).....	50,619.69	4,901.70
			For Economizer, Add	2,347.06	
			For Roof Curb, Add	898.45	
			For Factory Installed BACnet, Add	1,030.05	
			For Demand Control Ventilation, Add	2,300.92	
			Note: Includes ventilation module and CO2 wall mounted sensor kit.		
23 74 16 13-0117	EA		27.5 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Voyager III YC_330).....	55,223.62	5,324.26
			For Factory Installed BACnet, Add	1,030.05	
			For Factory Installed VAV Single Zone Option (VFD Without Bypass), Add	2,188.30	
			For Economizer And Powered Exhaust, Add	5,257.91	
			For Roof Curb, Add	1,578.76	
23 74 16 13-0118	EA		30 Ton, Standard Efficiency, Gas Heat, Electric Cooling, DX Unitary Package Rooftop Unit (Trane Voyager III YC_360).....	58,208.03	5,746.82
			For Factory Installed BACnet, Add	1,030.05	
			For Factory Installed VAV Single Zone Option (VFD Without Bypass), Add	2,188.30	
			For Economizer And Powered Exhaust, Add	5,257.91	
			For Roof Curb, Add	1,578.76	

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23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0133	EA	7.5 Ton, High Efficiency, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Precedent YH_092)	25,716.35	2,725.57
		For Roof Curb, Add	957.57	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	1,863.26	
		Note: Includes CO2 wall mounted sensor.		
		For Factory Installed Economizer, Add	1,189.75	
23 74 16 13-0134	EA	8.5 Ton, High Efficiency, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Precedent YH_102)	27,580.38	2,936.85
		For Roof Curb, Add	957.57	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	1,863.26	
		Note: Includes CO2 wall mounted sensor.		
		For Factory Installed Economizer, Add	1,189.75	
23 74 16 13-0135	EA	10 Ton, High Efficiency, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Precedent YH_120)	30,055.48	3,042.43
		For Roof Curb, Add	957.57	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	1,863.26	
		Note: Includes CO2 wall mounted sensor.		
		For Factory Installed Economizer, Add	1,216.70	
23 74 16 13-0136	EA	12.5 Ton, High Efficiency, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Voyager YH_150)	34,692.24	3,295.97
		For Roof Curb, Add	957.57	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	2,300.92	
		Note: Includes ventilation module and CO2 wall mounted sensor kit.		
		For Factory Installed Economizer, Add	1,314.03	
23 74 16 13-0137	EA	15 Ton, High Efficiency, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Voyager YH_180)	38,826.95	3,549.50
		For Roof Curb, Add	957.57	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	2,300.92	
		Note: Includes ventilation module and CO2 wall mounted sensor kit.		
		For Factory Installed Economizer, Add	2,483.92	
23 74 16 13-0138	EA	17.5 Ton, High Efficiency, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Voyager YH_210)	45,168.75	3,803.04
		For Roof Curb, Add	957.57	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	2,300.92	
		Note: Includes ventilation module and CO2 wall mounted sensor kit.		
		For Factory Installed Economizer, Add	2,483.92	
23 74 16 13-0139	EA	20 Ton, High Efficiency, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Voyager YH_240)	49,764.51	4,056.58
		For Roof Curb, Add	957.57	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	2,300.92	
		Note: Includes ventilation module and CO2 wall mounted sensor kit.		
		For Factory Installed Economizer, Add	2,483.92	
23 74 16 13-0140	EA	25 Ton, High Efficiency, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Voyager YH_300)	63,993.04	4,901.70
		For Roof Curb, Add	957.57	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	2,300.92	
		Note: Includes ventilation module and CO2 wall mounted sensor kit.		
		For Factory Installed Economizer, Add	2,483.92	
23 74 16 13-0141	EA	30 Ton, Variable Speed Compressor, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Intellipak SFHLF304)	74,789.41	5,746.82
		For Factory Installed BACnet, Add	1,422.40	
		For Factory Installed VAV Single Zone Option (VFD Without Bypass), Add	2,188.30	
		For Economizer And Powered Exhaust, Add	7,726.22	
		For Roof Curb, Add	1,418.62	
23 74 16 13-0142	EA	40 Ton, Variable Speed Compressor, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Intellipak SFHLF404)	90,702.39	7,690.59
		For Factory Installed BACnet, Add	1,422.40	
		For Factory Installed VAV Single Zone Option (VFD Without Bypass), Add	2,188.30	
		For Economizer And Powered Exhaust, Add	8,695.07	
		For Roof Curb, Add	2,157.86	
23 74 16 13-0143	EA	50 Ton, Variable Speed Compressor, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Intellipak SFHLF504)	112,746.18	9,634.37
		For Factory Installed BACnet, Add	1,422.40	
		For Factory Installed VAV Single Zone Option (VFD Without Bypass), Add	2,188.30	
		For Economizer And Powered Exhaust, Add	12,751.03	
		For Roof Curb, Add	2,157.86	
23 74 16 13-0144	EA	55 Ton, Variable Speed Compressor, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Intellipak SFHLF554)	125,129.88	10,606.26
		For Economizer And Powered Exhaust, Add	14,252.10	
		For Factory Installed BACnet, Add	1,422.40	
		For Factory Installed VAV Single Zone Option (VFD Without Bypass), Add	2,188.30	
		For Roof Curb, Add	2,683.95	
23 74 16 13-0145	EA	60 Ton, Variable Speed Compressor, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Intellipak SFHLF604)	132,904.80	11,578.15
		For Economizer And Powered Exhaust, Add	16,138.23	
		For Factory Installed BACnet, Add	1,422.40	
		For Factory Installed VAV Single Zone Option (VFD Without Bypass), Add	2,188.30	
		For Roof Curb, Add	2,683.95	
23 74 16 13-0146	EA	70 Ton, Variable Speed Compressor, Electric Cooling, Gas Heat, DX Unitary Package Rooftop Unit (Trane Intellipak SFHLF704)	148,874.48	12,528.96
		For Economizer And Powered Exhaust, Add	16,751.88	
		For Roof Curb, Add	2,858.64	
		For Factory Installed BACnet, Add	1,422.40	
		For Factory Installed VAV Single Zone Option (VFD Without Bypass), Add	2,188.30	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	
23 74 16 13-0147	Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane, Carrier Or Equal) (23 74 16 13-0102) Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment, 26 28 16 16-0001 for disconnects.			
23 74 16 13-0148	EA 3 Ton, Ultra High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Precedent eFlex TZ_036E).....	9,421.36		1,749.40
	For Roof Curb, Add	797.97		
	For Factory Installed Economizer, Add	1,165.66		
	For Factory Installed BACnet, Add	2,323.50		
	For Demand Control Ventilation, Add	2,567.07		
23 74 16 13-0149	EA 4 Ton, Ultra High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Precedent eFlex TZ_048F).....	10,529.80		2,015.67
	For Roof Curb, Add	797.97		
	For Factory Installed Economizer, Add	1,165.66		
	For Factory Installed BACnet, Add	2,774.30		
	For Demand Control Ventilation, Add	2,567.07		
23 74 16 13-0150	EA 5 Ton, Ultra High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Precedent eFlex TZ_060E).....	11,504.43		2,167.79
	For Roof Curb, Add	797.97		
	For Factory Installed Economizer, Add	1,165.66		
	For Factory Installed BACnet, Add	2,774.30		
	For Demand Control Ventilation, Add	2,567.07		
23 74 16 13-0151	EA 6 Ton, Ultra High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Precedent eFlex TZ_072F).....	12,873.85		2,338.84
	For Roof Curb, Add	797.97		
	For Factory Installed Economizer, Add	1,165.66		
	For Factory Installed BACnet, Add	2,774.30		
	For Demand Control Ventilation, Add	2,567.07		
23 74 16 13-0152	EA 7.5 Ton, Ultra High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Precedent eFlex TZ_090F).....	15,025.87		2,452.99
	For Roof Curb, Add	957.57		
	For Factory Installed Economizer, Add	1,189.75		
	For Factory Installed BACnet, Add	2,978.85		
	For Demand Control Ventilation, Add	2,625.52		
23 74 16 13-0153	EA 8.5 Ton, Ultra High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Precedent eFlex TZ_102F).....	16,333.77		2,643.09
	For Roof Curb, Add	957.57		
	For Factory Installed Economizer, Add	1,189.75		
	For Factory Installed BACnet, Add	2,978.85		
	For Demand Control Ventilation, Add	2,625.52		
23 74 16 13-0154	EA 10 Ton, Ultra High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Precedent eFlex TZ_120F).....	17,916.34		2,738.19
	For Roof Curb, Add	957.57		
	For Factory Installed Economizer, Add	1,216.70		
	For Factory Installed BACnet, Add	2,978.85		
	For Demand Control Ventilation, Add	2,625.52		
23 74 16 13-0155	EA 12.5 Ton, High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Voyager eFlex TZ_150F)..... Note: * = Downflow or Horizontal	20,049.48		2,966.37
	For Roof Curb, Add	957.57		
	For Factory Installed Economizer, Add	1,314.03		
	For Factory Installed BACnet, Add	3,971.80		
	For Demand Control Ventilation, Add	3,211.97		
23 74 16 13-0156	EA 15 Ton, High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Voyager eFlex TZ_180F)..... Note: * = Downflow or Horizontal	22,612.42		3,194.56
	For Roof Curb, Add	957.57		
	For Factory Installed Economizer, Add	2,483.92		
	For Factory Installed BACnet, Add	3,971.80		
	For Demand Control Ventilation, Add	3,211.97		
23 74 16 13-0157	EA 17.5 Ton, High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Voyager eFlex TZ_210F)..... Note: * = Downflow or Horizontal	27,919.85		3,422.73
	For Roof Curb, Add	957.57		
	For Factory Installed Economizer, Add	2,483.92		
	For Factory Installed BACnet, Add	3,971.80		
	For Demand Control Ventilation, Add	3,211.97		
23 74 16 13-0158	EA 20 Ton, High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Voyager TH_240)..... Note: * = Downflow or Horizontal	31,527.77		3,650.92
	For Roof Curb, Add	957.57		
	For Factory Installed Economizer, Add	2,483.92		
	For Factory Installed BACnet, Add	5,543.96		
	For Demand Control Ventilation, Add	3,211.97		
23 74 16 13-0159	EA 25 Ton, High Efficiency, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Voyager TH_300)..... Note: * = Downflow or Horizontal	37,115.08		4,411.52
	For Roof Curb, Add	957.57		
	For Factory Installed Economizer, Add	2,483.92		
	For Factory Installed BACnet, Add	5,543.96		
	For Demand Control Ventilation, Add	3,630.28		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0160	EA	55 Ton, Variable Speed Compressor, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Intellipak SEHL*55).....	109,049.04	9,545.69
		For Factory Installed VAV Single Zone Option (VFD Without Bypass), Add	2,188.30	
		For Factory Installed Economizer, Add	2,483.92	
		For Roof Curb, Add	2,683.95	
		For Demand Control Ventilation, Add	5,125.29	
		For Factory Installed BACnet, Add	14,563.26	
23 74 16 13-0161	EA	60 Ton, Variable Speed Compressor, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Intellipak SEHL*60).....	118,971.81	10,420.33
		For Factory Installed VAV Single Zone Option (VFD Without Bypass), Add	2,188.30	
		For Factory Installed Economizer, Add	2,483.92	
		For Roof Curb, Add	2,683.95	
		For Demand Control Ventilation, Add	5,125.29	
		For Factory Installed BACnet, Add	14,563.26	
23 74 16 13-0162	EA	70 Ton, Variable Speed Compressor, Electric Cooling, Electric Heat, DX Unitary Package Rooftop Unit (Trane Intellipak SEHL*70).....	131,509.19	11,276.05
		For Roof Curb, Add	2,858.64	
		For Factory Installed VAV Single Zone Option (VFD Without Bypass), Add	2,188.30	
		For Factory Installed Economizer, Add	2,483.92	
		For Demand Control Ventilation, Add	8,434.81	
		For Factory Installed BACnet, Add	14,563.26	
23 74 16 13-0163		Cooling Only DX Unitary Package Rooftop Unit (Trane, Carrier Or Equal) ^(23 74 16 13-0162) See CSI section 01 22 23 00-1037 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0164		High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane, Carrier Or Equal) ^(23 74 16 13-0163) Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.		
23 74 16 13-0165	EA	3 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Precedent TH_036).....	8,473.72	1,749.40
		For Roof Curb, Add	797.97	
		For Factory Installed Electric Heat, Add	1,107.22	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	1,863.26	
		Note: Includes CO2 wall mounted sensor.		
		For Factory Installed Economizer, Add	1,165.66	
23 74 16 13-0166	EA	4 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Precedent TH_048).....	9,639.89	2,015.67
		For Roof Curb, Add	797.97	
		For Factory Installed Electric Heat, Add	1,107.22	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	1,863.26	
		Note: Includes CO2 wall mounted sensor.		
		For Factory Installed Economizer, Add	1,165.66	
23 74 16 13-0167	EA	5 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Precedent TH_060).....	10,541.36	2,167.79
		For Roof Curb, Add	797.97	
		For Factory Installed Electric Heat, Add	1,107.22	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	1,863.26	
		Note: Includes CO2 wall mounted sensor.		
		For Factory Installed Economizer, Add	1,165.66	
23 74 16 13-0168	EA	6 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Precedent TH_072).....	11,418.53	2,338.84
		For Roof Curb, Add	797.97	
		For Factory Installed Electric Heat, Add	1,107.22	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	1,863.26	
		Note: Includes CO2 wall mounted sensor.		
		For Factory Installed Economizer, Add	1,165.66	
23 74 16 13-0169	EA	7.5 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Precedent TH_092).....	15,226.06	2,452.99
		For Roof Curb, Add	957.57	
		For Factory Installed Electric Heat, Add	1,344.77	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	1,863.26	
		Note: Includes CO2 wall mounted sensor.		
		For Factory Installed Economizer, Add	1,189.75	
23 74 16 13-0170	EA	8.5 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Precedent TH_102).....	16,318.67	2,643.09
		For Roof Curb, Add	957.57	
		For Factory Installed Electric Heat, Add	1,344.77	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	1,863.26	
		Note: Includes CO2 wall mounted sensor.		
		For Factory Installed Economizer, Add	1,189.75	
23 74 16 13-0171	EA	10 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Precedent TH_120).....	17,731.31	2,738.19
		For Roof Curb, Add	957.57	
		For Factory Installed Electric Heat, Add	1,344.77	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	1,863.26	
		Note: Includes CO2 wall mounted sensor.		
		For Factory Installed Economizer, Add	1,216.70	
23 74 16 13-0172	EA	12.5 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Voyager TH_150).....	21,828.99	2,966.37
		For Roof Curb, Add	957.57	
		For Factory Installed Electric Heat, Add	1,553.41	
		For Factory Installed BACnet, Add	1,030.05	
		For Demand Control Ventilation, Add	2,300.92	
		Note: Includes ventilation module and CO2 wall mounted sensor kit.		
		For Factory Installed Economizer, Add	1,314.03	



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Central HVAC Equipment			23 70
Packaged Outdoor HVAC Equipment			23 74

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0173	EA	15 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Voyager TH_180).....	23,158.79	3,194.56	
		For Roof Curb, Add	957.57		
		For Factory Installed Electric Heat, Add	1,553.41		
		For Factory Installed BACnet, Add	1,030.05		
		For Demand Control Ventilation, Add	2,300.92		
		Note: Includes ventilation module and CO2 wall mounted sensor kit.			
		For Factory Installed Economizer, Add	2,483.92		
23 74 16 13-0174	EA	17.5 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Voyager TH_210).....	27,177.76	3,422.73	
		For Roof Curb, Add	957.57		
		For Factory Installed Electric Heat, Add	1,793.03		
		For Factory Installed BACnet, Add	1,030.05		
		For Demand Control Ventilation, Add	2,300.92		
		Note: Includes ventilation module and CO2 wall mounted sensor kit.			
		For Factory Installed Economizer, Add	2,483.92		
23 74 16 13-0175	EA	20 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Voyager TH_240).....	29,491.93	3,650.92	
		For Roof Curb, Add	957.57		
		For Factory Installed Electric Heat, Add	1,793.03		
		For Factory Installed BACnet, Add	1,030.05		
		For Demand Control Ventilation, Add	2,300.92		
		Note: Includes ventilation module and CO2 wall mounted sensor kit.			
		For Factory Installed Economizer, Add	2,483.92		
23 74 16 13-0176	EA	25 Ton, High Efficiency, Cooling Only DX Unitary Package Rooftop Unit (Trane Voyager TH_300).....	32,499.06	4,411.52	
		For Roof Curb, Add	957.57		
		For Factory Installed Electric Heat, Add	1,793.03		
		For Factory Installed BACnet, Add	1,030.05		
		For Demand Control Ventilation, Add	2,300.92		
		Note: Includes ventilation module and CO2 wall mounted sensor kit.			
		For Factory Installed Economizer, Add	2,483.92		
23 74 16 13-0177		Heat Pump Unitary Package Rooftop Unit (Trane, Carrier Or Equal) (23 74 16 13-0102)			
		See CSI section 01 22 23 00-1037 for crane lifting equipment, 26 28 16 16-0001 for disconnects.			
23 74 16 13-0178		Standard Efficiency Heat Pump Unitary Package Rooftop Unit (Trane, Carrier Or Equal) (23 74 16 13-0177)			
		Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.			
23 74 16 13-0179	EA	3 Ton, Standard Efficiency, Heat Pump Unitary Package Rooftop Unit (Trane Precedent WS_036).....	9,222.85	1,749.40	
		For Roof Curb, Add	797.97		
		For High Efficiency, Add	844.06		
		For Factory Installed Electric Heat, Add	1,107.22		
		For Factory Installed BACnet, Add	1,030.05		
		For Demand Control Ventilation, Add	1,863.26		
		Note: Includes CO2 wall mounted sensor.			
		For Factory Installed Economizer, Add	1,165.66		
23 74 16 13-0180	EA	4 Ton, Standard Efficiency, Heat Pump Unitary Package Rooftop Unit (Trane Precedent WS_048).....	10,208.25	2,015.67	
		For Roof Curb, Add	797.97		
		For High Efficiency, Add	921.29		
		For Factory Installed Electric Heat, Add	1,107.22		
		For Factory Installed BACnet, Add	1,030.05		
		For Demand Control Ventilation, Add	1,863.26		
		Note: Includes CO2 wall mounted sensor.			
		For Factory Installed Economizer, Add	1,165.66		
23 74 16 13-0181	EA	5 Ton, Standard Efficiency, Heat Pump Unitary Package Rooftop Unit (Trane Precedent WS_060).....	11,215.27	2,167.79	
		For Roof Curb, Add	797.97		
		For High Efficiency, Add	1,019.81		
		For Factory Installed Electric Heat, Add	1,107.22		
		For Factory Installed BACnet, Add	1,030.05		
		For Demand Control Ventilation, Add	1,863.26		
		Note: Includes CO2 wall mounted sensor.			
		For Factory Installed Economizer, Add	1,165.66		
23 74 16 13-0182	EA	6 Ton, Standard Efficiency, Heat Pump Unitary Package Rooftop Unit (Trane Precedent WS_072).....	12,247.66	2,338.84	
		For Roof Curb, Add	797.97		
		For High Efficiency, Add	1,118.32		
		For Factory Installed Electric Heat, Add	1,107.22		
		For Factory Installed BACnet, Add	1,030.05		
		For Demand Control Ventilation, Add	1,863.26		
		Note: Includes CO2 wall mounted sensor.			
		For Factory Installed Economizer, Add	1,165.66		
23 74 16 13-0183	EA	7.5 Ton, Standard Efficiency, Heat Pump Unitary Package Rooftop Unit (Trane Precedent WS_090).....	13,797.59	2,452.99	
		For Roof Curb, Add	957.57		
		For High Efficiency, Add	1,289.55		
		For Factory Installed Electric Heat, Add	1,344.77		
		For Factory Installed BACnet, Add	1,030.05		
		For Demand Control Ventilation, Add	1,863.26		
		Note: Includes CO2 wall mounted sensor.			
		For Factory Installed Economizer, Add	1,189.75		
23 74 16 13-0184	EA	8.5 Ton, Standard Efficiency, Heat Pump Unitary Package Rooftop Unit (Trane Precedent WS_102).....	16,434.76	2,643.09	
		For Roof Curb, Add	957.57		
		For High Efficiency, Add	1,581.55		
		For Factory Installed Electric Heat, Add	1,344.77		
		For Factory Installed BACnet, Add	1,030.05		
		For Demand Control Ventilation, Add	1,863.26		
		Note: Includes CO2 wall mounted sensor.			
		For Factory Installed Economizer, Add	1,189.75		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0185 EA 10 Ton, Standard Efficiency, Heat Pump Unitary Package Rooftop Unit (Trane Precedent WS_120)	18,945.16	2,738.19
For Roof Curb, Add	957.57	
For High Efficiency, Add	1,873.54	
For Factory Installed Electric Heat, Add	1,344.77	
For Factory Installed BACnet, Add	1,030.05	
For Demand Control Ventilation, Add	1,863.26	
Note: Includes CO2 wall mounted sensor.		
For Factory Installed Economizer, Add	1,216.70	
23 74 16 13-0186 EA 12.5 Ton, Standard Efficiency, Heat Pump Unitary Package Rooftop Unit (Trane Voyager WC_150)	23,675.78	2,966.37
For Roof Curb, Add	957.57	
For High Efficiency, Add	2,415.78	
For Factory Installed Electric Heat, Add	1,553.41	
For Factory Installed BACnet, Add	1,030.05	
For Demand Control Ventilation, Add	2,300.92	
Note: Includes ventilation module and CO2 wall mounted sensor kit.		
For Factory Installed Economizer, Add	1,314.03	
23 74 16 13-0187 EA 15 Ton, Standard Efficiency, Heat Pump Unitary Package Rooftop Unit (Trane Voyager WC_180)	25,845.09	3,194.56
For Roof Curb, Add	957.57	
For High Efficiency, Add	2,644.25	
For Factory Installed Electric Heat, Add	1,553.41	
For Factory Installed BACnet, Add	1,030.05	
For Demand Control Ventilation, Add	2,300.92	
Note: Includes ventilation module and CO2 wall mounted sensor kit.		
For Factory Installed Economizer, Add	2,483.92	
23 74 16 13-0188 EA 20 Ton, Standard Efficiency, Heat Pump Unitary Package Rooftop Unit (Trane Voyager WC_240)	34,108.46	3,650.92
For Roof Curb, Add	957.57	
For High Efficiency, Add	3,581.97	
For Factory Installed Electric Heat, Add	1,793.03	
For Factory Installed BACnet, Add	1,030.05	
For Demand Control Ventilation, Add	2,300.92	
Note: Includes ventilation module and CO2 wall mounted sensor kit.		
For Factory Installed Economizer, Add	2,483.92	
23 74 16 13-0189 Trane Curb Adapters (23 74 16 13)		
Note: All adapter selections assume the existing unit rests on a factory standard curb. The new unit reference is based on current Trane units, Precedent and Voyager II models only. The existing unit reference is based on Trane, Carrier, York or Lennox units only. Non-standard L-shape and/or duct shroud configurations were not considered. Trane Intellipak or Voyager III footprints are not considered. Some units have larger than normal sizes or multiple footprints possible, which were not considered. Step-sized replacements (installing new unit that is either larger or smaller capacity than existing) are not considered.		
23 74 16 13-0190 EA 3 To 5 Ton, Trane Curb Adapter	1,678.98	
23 74 16 13-0191 EA 6 To 7-1/2 Ton, Trane Curb Adapter	2,194.01	
23 74 16 13-0192 EA 8-1/2 To 10 Ton, Trane Curb Adapter	2,297.01	
23 74 16 13-0193 EA 12-1/2 Ton, Standard Efficiency, Trane Curb Adapter	2,513.32	
23 74 16 13-0194 EA 12-1/2 Ton, High Efficiency, Trane Curb Adapter	2,564.82	
23 74 16 13-0195 EA 15 Ton, Trane Curb Adapter	2,812.04	
23 74 16 13-0196 EA 17-1/2 Ton, Trane Curb Adapter	2,832.64	
23 74 16 13-0197 EA 20 Ton, Trane Curb Adapter	3,162.25	
23 74 16 13-0198 EA 25 Ton, Trane Curb Adapter	3,605.18	
23 74 16 13-0199 Condenser Coil Guards (23 74 16 13)		
23 74 16 13-0200 EA Condenser Coil Guard (Trane BAYGARD058A)	1,162.20	91.63
Note: Coil Guard for TTA/TWA061, TTA/TWA073, TTA/TWA076 and CTA/TTA/TWA090 Condenser Coils.		
23 74 16 13-0201 EA Condenser Coil Guard (Trane BAYGARD059A)	1,477.39	106.91
Note: Coil Guard for TTA086, TTA101 and CTA/TTA120 Condenser Coils.		
23 74 16 13-0202 EA Condenser Coil Guard (Trane BAYGARD060A)	1,577.35	122.18
Note: Coil Guard for TWA101, TWA120, TTA126 and TTA150 Condenser Coils.		
23 74 16 13-0203 EA Condenser Coil Guard (Trane BAYGARD061A)	2,104.28	137.45
Note: Coil Guard for TTA/TWA156, CTA/TTA/TWA180, TTA/TWA201 and TTA/TWA240 Condenser Coils.		
23 74 16 13-0204 EA Condenser Coil Guard (Trane BAYGARD062A)	2,336.17	152.72
Note: Coil Guard for TTA300 and TTA251 Split-System Air Conditioners.		
23 74 16 13-0205 Heat Pump, Packaged Rooftop Heat Pump Units (23 74 16 13)		
See CSI section 01 22 23 00-1037 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0206 Packaged Rooftop Heat Pump Units (23 74 16 13-0205)		
Note: Includes evaporator and condenser coils, electric heat, thermostatic expansion valve, compressor, evaporator and condenser fans, refrigerant charge, filter section with filter, operation and safety controls, motors, condensate drain pan, condenser coil guards, manual outside air damper, and roof curb. Excludes crane and associated personnel.		
23 74 16 13-0207 EA 2 Ton Packaged Rooftop Heat Pump	7,102.53	1,521.21
For Economizer With Outside Air Control, Add	2,079.74	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	253.71	
For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0208 EA 2.5 Ton Packaged Rooftop Heat Pump	7,477.69	1,635.36
For Economizer With Outside Air Control, Add	2,202.63	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	264.86	
For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0209 EA 3 Ton Packaged Rooftop Heat Pump	7,908.62	1,749.40
For Economizer With Outside Air Control, Add	2,337.25	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	278.80	
For Unit Without Roof Curb, Deduct	-796.62	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Central HVAC Equipment			23 70	
Packaged Outdoor HVAC Equipment			23 74	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0210	EA		3.5 Ton Packaged Rooftop Heat Pump	8,486.64	1,882.48
			For Economizer With Outside Air Control, Add	2,271.03	
			For Upgrade Of Economizer To OS Air Enthalpy Control, Add	298.83	
			For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0211	EA		4 Ton Packaged Rooftop Heat Pump	9,064.93	2,015.67
			For Economizer With Outside Air Control, Add	2,427.91	
			For Upgrade Of Economizer To OS Air Enthalpy Control, Add	318.87	
			For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0212	EA		5 Ton Packaged Rooftop Heat Pump	9,715.68	2,167.79
			For Economizer With Outside Air Control, Add	2,605.47	
			For Upgrade Of Economizer To OS Air Enthalpy Control, Add	273.01	
			For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0213	EA		6 Ton Packaged Rooftop Heat Pump	10,932.71	2,338.84
			For Economizer With Outside Air Control, Add	2,887.67	
			For Upgrade Of Economizer To OS Air Enthalpy Control, Add	234.43	
			For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0214	EA		7.5 Ton Packaged Rooftop Heat Pump	14,069.58	2,452.99
			For Economizer With Outside Air Control, Add	2,931.19	
			For Upgrade Of Economizer To OS Air Enthalpy Control, Add	323.97	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0215	EA		8.5 Ton Packaged Rooftop Heat Pump	15,739.11	2,643.09
			For Economizer With Outside Air Control, Add	3,105.72	
			For Upgrade Of Economizer To OS Air Enthalpy Control, Add	366.45	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0216	EA		10 Ton Packaged Rooftop Heat Pump	16,924.59	2,738.19
			For Economizer With Outside Air Control, Add	3,152.83	
			For Upgrade Of Economizer To OS Air Enthalpy Control, Add	265.47	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0217	EA		12.5 Ton Packaged Rooftop Heat Pump	19,637.89	2,966.37
			For Economizer With Outside Air Control, Add	3,545.85	
			For Upgrade Of Economizer To OS Air Enthalpy Control, Add	313.65	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0218	EA		15 Ton Packaged Rooftop Heat Pump	22,351.21	3,194.56
			For Economizer With Outside Air Control, Add	3,938.89	
			For Upgrade Of Economizer To OS Air Enthalpy Control, Add	361.84	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0219	EA		17.5 Ton Packaged Rooftop Heat Pump	25,035.95	3,422.73
			For Economizer With Outside Air Control, Add	4,329.06	
			For Upgrade Of Economizer To OS Air Enthalpy Control, Add	409.45	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0220	EA		20 Ton Packaged Rooftop Heat Pump	27,720.69	3,650.92
			For Economizer With Outside Air Control, Add	4,719.23	
			For Upgrade Of Economizer To OS Air Enthalpy Control, Add	457.06	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0221			Heating Only Packaged Rooftop Units (23 74 16 13-0205)		
			Note: Includes throwaway filters, filter rack, manual outside air damper, roof curbs and electric heat. Units are shipped fully factory assembled in one piece, prewired and include start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0222	EA		24 MBH Electric Heating Only, Self Contained Package Rooftop Unit	7,101.38	1,521.21
			For Gas Heat, Add	456.53	
			For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0223	EA		32 MBH Electric Heating Only, Self Contained Package Rooftop Unit	8,343.38	1,749.40
			For Gas Heat, Add	537.39	
			For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0224	EA		45 MBH Electric Heating Only, Self Contained Package Rooftop Unit	11,419.34	2,015.67
			For Gas Heat, Add	745.60	
			For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0225	EA		60 MBH Electric Heating Only, Self Contained Package Rooftop Unit	12,882.76	2,167.79
			For Gas Heat, Add	843.99	
			For Unit Without Roof Curb, Deduct	-796.62	
23 74 16 13-0226	EA		95 MBH Electric Heating Only, Self Contained Package Rooftop Unit	15,138.58	2,452.99
			For Gas Heat, Add	994.29	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0227	EA		112 MBH Electric Heating Only, Self Contained Package Rooftop Unit	17,052.39	2,643.09
			For Gas Heat, Add	1,123.18	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0228	EA		140 MBH Electric Heating Only, Self Contained Package Rooftop Unit	20,179.97	2,738.19
			For Gas Heat, Add	1,339.58	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0229	EA		170 MBH Electric Heating Only, Self Contained Package Rooftop Unit	26,212.05	3,194.56
			For Gas Heat, Add	1,749.66	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0230	EA		200 MBH Electric Heating Only, Self Contained Package Rooftop Unit	34,617.87	3,422.73
			For Gas Heat, Add	2,331.98	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0231	EA		230 MBH Electric Heating Only, Self Contained Package Rooftop Unit	40,410.27	3,650.92
			For Gas Heat, Add	2,731.36	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0232	EA		270 MBH Electric Heating Only, Self Contained Package Rooftop Unit	52,545.47	4,031.23
			For Gas Heat, Add	3,570.68	
			For Unit Without Roof Curb, Deduct	-955.97	
23 74 16 13-0233	EA		330 MBH Electric Heating Only, Self Contained Package Rooftop Unit	65,713.52	5,129.88
			For Gas Heat, Add	4,472.16	
			For Unit Without Roof Curb, Deduct	-1,416.43	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0234 EA 360 MBH Electric Heating Only, Self Contained Package Rooftop Unit	73,459.73	5,172.14
For Gas Heat, Add	5,004.26	
For Unit Without Roof Curb, Deduct	-1,416.43	
23 74 16 13-0235 EA 450 MBH Electric Heating Only, Self Contained Package Rooftop Unit	89,444.04	6,046.89
For Gas Heat, Add	6,099.83	
For Unit Without Roof Curb, Deduct	-1,416.43	
23 74 16 13-0236 EA 540 MBH Electric Heating Only, Self Contained Package Rooftop Unit	116,002.88	7,796.29
For Gas Heat, Add	7,912.30	
For Unit Without Roof Curb, Deduct	-2,155.42	

23 74 23 Packaged, Outdoor, Heating-Only Makeup-Air Units (23 74)**23 74 23 13 Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units (23 74 23)****23 74 23 13-0001 Make-Up Air Units (23 74 23 13)**

Note: Units are shipped fully factory assembled in one piece, prewired, prepiped, charged with refrigerant. Includes throwaway filters and start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-1037 for crane lifting equipment.

23 74 23 13-0002 Gas-Fired Electric Spark Make-Up Air Units (23 74 23 13-0001)

Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-1038 for crane lifting equipment.

23 74 23 13-0003 EA 100,000 BTU 1/2 HP, 1,200 CFM, Make-up Air Unit, Gas Fired, Electric Spark	8,286.58	507.07
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,232.44	
For Equipment Base Roof Curb, Add	1,010.47	
23 74 23 13-0004 EA 300,000 BTU 1-1/2 HP, 3,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark	10,728.60	574.68
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,928.42	
For Equipment Base Roof Curb, Add	1,312.06	
23 74 23 13-0005 EA 500,000 BTU 2 HP, 4,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark	14,960.05	676.09
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,149.97	
For Equipment Base Roof Curb, Add	1,836.20	
23 74 23 13-0006 EA 670,000 BTU 3 HP, 6,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark	15,072.62	721.17
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,158.39	
For Equipment Base Roof Curb, Add	1,847.74	
23 74 23 13-0007 EA 800,000 BTU 5 HP, 7,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark	20,641.85	811.31
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	5,786.90	
For Equipment Base Roof Curb, Add	2,539.67	
23 74 23 13-0008 EA 1,200,000 BTU 10 HP, 10,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark	31,350.57	1,014.14
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	8,898.10	
For Equipment Base Roof Curb, Add	3,868.11	

23 74 23 13-0009 Electric Make-Up Air Units (23 74 23 13-0001)

Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-1038 for crane lifting equipment.

23 74 23 13-0010 EA 33 KW, 1/2 HP, 1,200 CFM Make-up Air Unit, Electric	17,241.43	507.07
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,918.89	
For Equipment Base Roof Curb, Add	2,129.83	
23 74 23 13-0011 EA 100 KW, 1-1/2 HP, 3,500 CFM Make-up Air Unit, Electric	24,704.16	574.68
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	7,121.09	
For Equipment Base Roof Curb, Add	3,059.00	
23 74 23 13-0012 EA 150 KW, 2 HP, 4,000 CFM Make-up Air Unit, Electric	30,622.51	676.09
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	8,848.70	
For Equipment Base Roof Curb, Add	3,794.01	
23 74 23 13-0013 EA 250 KW, 5 HP, 7,500 CFM Make-up Air Unit, Electric	39,638.05	811.31
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	11,485.76	
For Equipment Base Roof Curb, Add	4,914.19	
23 74 23 13-0014 EA 400 KW, 10 HP, 10,000 CFM Make-up Air Unit, Electric	64,195.37	1,014.14
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	18,751.54	
For Equipment Base Roof Curb, Add	7,973.71	

23 75 Custom-Packaged Outdoor HVAC Equipment (23 70)**23 75 16 Custom-Packaged, Rooftop Air-Conditioning Units (23 75)****23 75 16 00-0001 Custom Rooftop Units (23 75 16)**

Note: Includes testing, balancing and commissioning of Custom-Packaged Rooftop Unit. Excludes crane and associated personnel. Excludes balancing existing diffusers and devices, reworking ductwork, new diffusers, new wiring, or new piping. See CSI section 01 22 23 00-1037 for crane lifting equipment, 26 05 83 00-0000 for reconnecting existing control wires and electrical wires.

23 75 16 00-0002 EA 15 Ton, Custom-Package Rooftop Multi-Zone Air Conditioning Unit	131,090.17	5,702.50
23 75 16 00-0003 EA 17.5 Ton, Custom-Package Rooftop Multi-Zone Air Conditioning Unit	140,308.33	5,961.70
23 75 16 00-0004 EA 20 Ton, Custom-Package Rooftop Multi-Zone Air Conditioning Unit	152,295.47	6,480.11
23 75 16 00-0005 EA 22.5 Ton, Custom-Package Rooftop Multi-Zone Air Conditioning Unit	175,594.45	6,480.11
23 75 16 00-0006 EA 25 Ton, Custom-Package Rooftop Multi-Zone Air Conditioning Unit	198,893.43	6,739.31
23 75 16 00-0007 EA 30 Ton, Custom-Package Rooftop Multi-Zone Air Conditioning Unit	255,106.83	8,294.53
23 75 16 00-0008 EA 35 Ton, Custom-Package Rooftop Multi-Zone Air Conditioning Unit	280,592.74	8,942.54
23 75 16 00-0009 EA 40 Ton, Custom-Package Rooftop Multi-Zone Air Conditioning Unit	307,070.74	9,590.55
23 75 16 00-0010 EA 45 Ton, Custom-Package Rooftop Multi-Zone Air Conditioning Unit	353,782.18	10,368.17
23 75 16 00-0011 EA 50 Ton, Custom-Package Rooftop Multi-Zone Air Conditioning Unit	402,492.66	11,145.78

23 76 Evaporative Air-Cooling Equipment (23 70)



Heating, Ventilating, and Air-Conditioning (HVAC)		23	
Central HVAC Equipment		23 70	
Evaporative Air-Cooling Equipment		23 76	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

23 76 13 Direct Evaporative Air-Coolers (23 76)

23 76 13 00-0001 Residential Side Or Down Draft Evaporative Cooling Unit (23 76 13)

Note: Includes motor, belt and pads.

23 76 13 00-0002	EA	3,000 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit	1,611.23	366.55
23 76 13 00-0003	EA	4,300 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit	1,904.17	427.64
23 76 13 00-0004	EA	4,400 CFM, 1/2 HP Residential Side Or Down Draft Evaporative Cooling Unit	2,476.67	488.74
23 76 13 00-0005	EA	5,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit	2,692.67	549.83
23 76 13 00-0006	EA	6,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit	3,096.31	610.92
23 76 13 00-0007	EA	7,000 CFM, 1 HP Residential Side Or Down Draft Evaporative Cooling Unit	3,331.07	672.01

23 76 13 00-0008 Industrial Side Draft/Side Discharge Evaporative Coolers (23 76 13)

Note: Excludes motor starter, piping, power wiring and equipment rigging.

23 76 13 00-0009	EA	7,500 CFM, 3/4 HP Industrial Side Or Down Draft Evaporative Cooling Unit	3,089.40	336.37
23 76 13 00-0010	EA	8,500 CFM, 1 HP Industrial Side Or Down Draft Evaporative Cooling Unit	3,188.18	347.26
23 76 13 00-0011	EA	9,500 CFM, 1 1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	3,777.26	482.27
23 76 13 00-0012	EA	11,375 CFM, 2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	8,214.27	569.28
23 76 13 00-0013	EA	13,020 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit	8,828.86	833.42
23 76 13 00-0014	EA	16,267 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit	10,133.35	888.98
23 76 13 00-0015	EA	15,438 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit	9,256.06	1,000.10
23 76 13 00-0016	EA	19,286 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit	10,960.72	1,250.13
23 76 13 00-0017	EA	17,672 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	10,895.67	1,634.16
23 76 13 00-0018	EA	22,077 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	12,171.29	1,666.84
23 76 13 00-0019	EA	24,301 CFM, 10 HP Industrial Side Or Down Draft Evaporative Cooling Unit	12,791.25	1,852.08
23 76 13 00-0020	EA	30,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit	17,045.74	2,893.85
23 76 13 00-0021	EA	35,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit	19,173.72	3,019.64
23 76 13 00-0022	EA	40,000 CFM, 30 HP Industrial Side Or Down Draft Evaporative Cooling Unit	21,324.59	3,156.88

23 80 Decentralized Unitary HVAC Equipment (23)

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 23 05 29 00-0000 for hangers and supports, 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 81 Decentralized Unitary HVAC Equipment (23 80)

23 81 13 Packaged Terminal Air-Conditioners (23 81)

Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.

23 81 13 11 Packaged Terminal Air-Conditioners, Through-Wall Units (23 81 13)

23 81 13 11-0001 Packaged Terminal Air-Conditioners (23 81 13 11)

23 81 13 11-0002 Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioners (23 81 13 11-0001)

23 81 13 11-0003	EA	7,200 BTU, 13 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	2,156.68	229.10
		For >35 To 70, Deduct	-50.96	
		For >70 To 100, Deduct	-84.93	
		For >100, Deduct	-118.90	
23 81 13 11-0004	EA	9,400 BTU, 12.1 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	2,240.89	257.01
		For >35 To 70, Deduct	-51.82	
		For >70 To 100, Deduct	-86.37	
		For >100, Deduct	-120.92	
23 81 13 11-0005	EA	11,800 BTU, 11.6 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	2,371.61	273.90
		For >35 To 70, Deduct	-54.69	
		For >70 To 100, Deduct	-91.16	
		For >100, Deduct	-127.62	
23 81 13 11-0006	EA	14,500 BTU, 10.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	2,563.12	294.41
		For >35 To 70, Deduct	-59.24	
		For >70 To 100, Deduct	-98.73	
		For >100, Deduct	-138.22	

23 81 13 11-0007 Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioners (23 81 13 11-0001)

23 81 13 11-0008	EA	7,200 BTU, 13 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	2,271.61	228.05
		For >35 To 70, Deduct	-54.49	
		For >70 To 100, Deduct	-90.81	
		For >100, Deduct	-127.14	
23 81 13 11-0009	EA	9,400 BTU, 12.1 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	2,394.49	257.01
		For >35 To 70, Deduct	-56.43	
		For >70 To 100, Deduct	-94.05	
		For >100, Deduct	-131.67	
23 81 13 11-0010	EA	11,800 BTU, 11.6 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	2,482.91	273.90
		For >35 To 70, Deduct	-58.03	
		For >70 To 100, Deduct	-96.72	
		For >100, Deduct	-135.41	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 13 11-0011 EA 14,500 BTU, 10.4 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner For >35 To 70, Deduct For >70 To 100, Deduct For >100, Deduct	2,710.05 -63.64 -106.07 -148.50	294.41
23 81 13 11-0012 Packaged Terminal Air-Conditioners, Through-Wall Unit Sleeve (23 81 13 11) Note: Includes wall case, exterior grille, weather panel and steel closure panels. Includes bolts, nuts, washers, caulking and lintel supports. Not for use with new A/C units where wall sleeve is provided. Excludes cutting opening for unit or patching masonry or concrete.		
23 81 13 11-0013 EA Up To 10,000 BTU Unit, Thru Wall A/C Sleeve	122.41	
23 81 13 11-0014 EA >10,000 To 20,000 BTU Unit, Thru Wall A/C Sleeve	138.74	
23 81 13 11-0015 EA >20,000 To 30,000 BTU Unit, Thru Wall A/C Sleeve	155.08	
23 81 13 11-0016 Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units (23 81 13 11) Note: Includes storage and cleaning.		
23 81 13 11-0017 EA Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units	244.37	
23 81 13 12 Packaged Terminal Air-Conditioners, Freestanding Units (23 81 13)		
23 81 13 12-0001 Portable Air Conditioning Unit (23 81 13 12)		
23 81 13 12-0002 EA 11,800 BTU/H, 115 Volt, Portable Air Conditioning Unit (MovinCool Office Pro 12) For HDK 12", 2X2 Metal, With Flex, Add For C PLEN-OP12/18- LAY84270-008A, Add	5,468.12 239.40 564.98	
23 81 13 12-0003 EA 16,800 BTU/H, 115 Volt, Portable Air Conditioning Unit (MovinCool Office Pro 18) For HDK 12", 2X2 Metal, With Flex, Add For C PLEN-OP12/18- LAY84270-008A, Add	6,049.73 239.40 564.98	
23 81 13 12-0004 EA 24,000 BTU/H, 115 Volt, Portable Air Conditioning Unit (MovinCool Office Pro 24) For HDK 12", 2X2 Metal, With Flex, Add For C PLEN-OP12/18- LAY84270-008A, Add	6,983.89 239.40 564.98	
23 81 13 13 Packaged Terminal Air-Conditioners, Outdoor, Wall-Mounted Units (23 81 13)		
23 81 13 13-0001 Single Package Vertical Wall Cooling Unit (23 81 13 13) Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-1038 for crane lifting equipment.		
23 81 13 13-0002 EA 1/2 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	5,324.31	278.13
23 81 13 13-0003 EA 1 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	8,372.62	291.37
23 81 13 13-0004 EA 1-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	10,953.85	304.63
23 81 13 13-0005 EA 2 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	12,598.30	331.11
23 81 13 13-0006 EA 2-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	15,803.45	384.08
23 81 13 13-0007 EA 3 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	16,952.13	476.80
23 81 13 13-0008 EA 3-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	18,767.51	529.77
23 81 13 13-0009 EA 4 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	20,666.66	596.00
23 81 13 13-0010 EA 5 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	23,250.40	715.19
23 81 13 13-0011 EA 7-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	30,057.67	887.37
23 81 13 13-0012 EA 10 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	35,846.91	1,192.00
23 81 13 13-0013 EA 15 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	50,273.48	1,456.88
23 81 13 13-0014 EA 20 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	57,915.32	1,735.01
23 81 13 13-0015 EA 25 Ton Single Package Cooling, Vertical Wall Unit, Air-To-Air Type With Electric Heat	69,228.21	1,946.93
23 81 16 Room Air-Conditioners (23 81) Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.		
23 81 16 00-0001 Window Unit, Room Air-Conditioners (23 81 16)		
23 81 16 00-0002 Cooling Only, Window Unit, Room Air-Conditioners (23 81 16 00-0001)		
23 81 16 00-0003 Cooling Only, Window Unit, Room Air-Conditioners (Frigidaire) (23 81 16 00-0002)		
23 81 16 00-0004 EA 5,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0533Q1) For >10 To 50, Deduct For >50 To 75, Deduct For >75 To 100, Deduct For >100, Deduct	687.05 -21.52 -30.13 -43.05 -51.66	128.29
23 81 16 00-0005 EA 6,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0633Q1) For >10 To 50, Deduct For >50 To 75, Deduct For >75 To 100, Deduct For >100, Deduct	730.31 -23.69 -33.16 -47.37 -56.85	128.29



Heating, Ventilating, and Air-Conditioning (HVAC)			23	22
Decentralized Unitary HVAC Equipment			23 80	
Decentralized Unitary HVAC Equipment			23 81	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0006	EA	8,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0833U1)	838.46	128.29	
		For >10 To 50, Deduct	-29.09		
		For >50 To 75, Deduct	-40.73		
		For >75 To 100, Deduct	-58.19		
		For >100, Deduct	-69.82		
23 81 16 00-0007	EA	10,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1033U1)	989.88	128.29	
		For >10 To 50, Deduct	-36.66		
		For >50 To 75, Deduct	-51.33		
		For >75 To 100, Deduct	-73.33		
		For >100, Deduct	-87.99		
23 81 16 00-0008	EA	12,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1233Q1)	1,184.56	128.29	
		For >10 To 50, Deduct	-46.40		
		For >50 To 75, Deduct	-64.96		
		For >75 To 100, Deduct	-92.80		
		For >100, Deduct	-111.36		
23 81 16 00-0009	EA	15,100 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1533Q1)	1,400.87	128.29	
		For >10 To 50, Deduct	-57.21		
		For >50 To 75, Deduct	-80.10		
		For >75 To 100, Deduct	-114.43		
		For >100, Deduct	-137.31		
23 81 16 00-0010	EA	8,000 BTU, 10.9 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS0833Q1)	1,314.35	128.29	
		For >10 To 50, Deduct	-52.89		
		For >50 To 75, Deduct	-74.04		
		For >75 To 100, Deduct	-105.78		
		For >100, Deduct	-126.93		
23 81 16 00-0011	EA	10,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1022Q1)	1,422.50	128.29	
		For >10 To 50, Deduct	-58.30		
		For >50 To 75, Deduct	-81.61		
		For >75 To 100, Deduct	-116.59		
		For >100, Deduct	-139.91		
23 81 16 00-0012	EA	12,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1222Q1)	1,509.02	128.29	
		For >10 To 50, Deduct	-62.62		
		For >50 To 75, Deduct	-87.67		
		For >75 To 100, Deduct	-125.24		
		For >100, Deduct	-150.29		
23 81 16 00-0013	EA	18,500 BTU, 11.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1833Q2)	1,595.55	128.29	
		For >10 To 50, Deduct	-66.95		
		For >50 To 75, Deduct	-93.73		
		For >75 To 100, Deduct	-133.90		
		For >100, Deduct	-160.68		
23 81 16 00-0014	EA	22,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2233S2)	1,768.60	128.29	
		For >10 To 50, Deduct	-75.60		
		For >50 To 75, Deduct	-105.84		
		For >75 To 100, Deduct	-151.20		
		For >100, Deduct	-181.44		
23 81 16 00-0015	EA	25,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2533S2)	1,790.23	128.29	
		For >10 To 50, Deduct	-76.68		
		For >50 To 75, Deduct	-107.35		
		For >75 To 100, Deduct	-153.36		
		For >100, Deduct	-184.04		
23 81 16 00-0016	EA	28,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRA2822R2)	2,027.25	128.29	
		For >10 To 50, Deduct	-88.53		
		For >50 To 75, Deduct	-123.95		
		For >75 To 100, Deduct	-177.07		
		For >100, Deduct	-212.48		
23 81 16 00-0017		Cooling Only, Window Unit, Room Air-Conditioners (Friedrich Kuhl) (23 81 16 00-0002)			
23 81 16 00-0018	EA	8,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS08N10C)	2,150.72	128.29	
23 81 16 00-0019	EA	10,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS10N10C)	2,361.39	128.29	
23 81 16 00-0020	EA	11,900 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N10C)	2,457.15	128.29	
23 81 16 00-0021	EA	12,000 BTU, 12.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N30C)	2,495.46	128.29	
23 81 16 00-0022	EA	20,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SM18N30C)	2,840.19	128.29	
23 81 16 00-0023	EA	24,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL24N30C)	3,702.03	128.29	
23 81 16 00-0024	EA	28,000 BTU, 10.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL28N30C)	3,989.31	128.29	
23 81 16 00-0025	EA	36,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL36N30B)	4,372.35	128.29	
23 81 16 00-0026		Heating And Cooling, Window Unit, Room Air-Conditioners (23 81 16 00-0001)			
23 81 16 00-0027		Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Frigidaire) (23 81 16 00-0026)			
23 81 16 00-0028	EA	8,000 BTU, 9.8 EER, 115 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH0822R1)	1,509.02	128.29	
		For >10 To 50, Deduct	-62.62		
		For >50 To 75, Deduct	-87.67		
		For >75 To 100, Deduct	-125.24		
		For >100, Deduct	-150.29		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0029	EA		12,000 BTU, 10.9 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1222R2).....	1,746.97	128.29
			For >10 To 50, Deduct	-74.52	
			For >50 To 75, Deduct	-104.33	
			For >75 To 100, Deduct	-149.04	
			For >100, Deduct	-178.85	
23 81 16 00-0030	EA		18,500 BTU, 10.7 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1822R2).....	1,876.75	128.29
			For >10 To 50, Deduct	-81.01	
			For >50 To 75, Deduct	-113.41	
			For >75 To 100, Deduct	-162.02	
			For >100, Deduct	-194.42	
23 81 16 00-0031	EA		25,000 BTU, 9.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH2522R2).....	2,352.63	128.29
			For >10 To 50, Deduct	-104.80	
			For >50 To 75, Deduct	-146.72	
			For >75 To 100, Deduct	-209.60	
			For >100, Deduct	-251.52	
23 81 16 00-0032			Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Friedrich) (23 81 16 00-0026)		
23 81 16 00-0033	EA		12,000 BTU, 11.3 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Friedrich ES12N33B).....	2,591.22	128.29
23 81 16 00-0034			Accessories (23 81 16 00-0001)		
23 81 16 00-0035	SET		Aluminum Air Conditioner Unit Frame And Bracket Assembly.....	635.33	66.36
23 81 16 00-0036			Removal And Reinstallation Of Room Air-Conditioners (23 81 16)		
			Note: Includes storage and cleaning.		
23 81 16 00-0037	EA		Removal And Reinstallation Of Room Air-Conditioning Unit In Window Lower Sash	152.72	
23 81 16 00-0038	EA		Removal And Reinstallation Of Room Air-Conditioning Unit In Window Upper Sash	339.72	
23 81 16 00-0039			Through-The-Wall, Room Air-Conditioners (23 81 16)		
			Note: Base unit excludes wall sleeve.		
23 81 16 00-0040			Cooling Only, Through-The-Wall, Room Air-Conditioners (23 81 16 00-0039)		
23 81 16 00-0041			Cooling Only, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 16 00-0040)		
23 81 16 00-0042	EA		8,000 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS08D10A).....	1,617.76	91.63
			For >10 To 50, Deduct	-71.72	
			For >50 To 75, Deduct	-100.41	
			For >75 To 100, Deduct	-143.45	
			For >100, Deduct	-172.14	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	386.08	
23 81 16 00-0043	EA		9,800 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D10B).....	1,751.83	91.63
			For >10 To 50, Deduct	-78.43	
			For >50 To 75, Deduct	-109.80	
			For >75 To 100, Deduct	-156.86	
			For >100, Deduct	-188.23	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	386.08	
23 81 16 00-0044	EA		12,000 BTU, 9.8 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D10A).....	2,000.80	91.63
			For >10 To 50, Deduct	-90.88	
			For >50 To 75, Deduct	-127.23	
			For >75 To 100, Deduct	-181.75	
			For >100, Deduct	-218.10	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	386.08	
23 81 16 00-0045	EA		10,000 BTU, 10.7 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D30A).....	1,751.83	91.63
			For >10 To 50, Deduct	-78.43	
			For >50 To 75, Deduct	-109.80	
			For >75 To 100, Deduct	-156.86	
			For >100, Deduct	-188.23	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	386.08	
23 81 16 00-0046	EA		12,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D30A).....	2,000.80	91.63
			For >10 To 50, Deduct	-90.88	
			For >50 To 75, Deduct	-127.23	
			For >75 To 100, Deduct	-181.75	
			For >100, Deduct	-218.10	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	386.08	
23 81 16 00-0047			Heating And Cooling, Through-The-Wall, Room Air-Conditioners (23 81 16 00-0039)		
23 81 16 00-0048			Electric Heat, Heating And Cooling, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 16 00-0047)		



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Decentralized Unitary HVAC Equipment			23 80
Decentralized Unitary HVAC Equipment			23 81



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0049	EA	10,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE10D33).....		2,058.26	91.63
		For >10 To 50, Deduct		-93.75	
		For >50 To 75, Deduct		-131.25	
		For >75 To 100, Deduct		-187.50	
		For >100, Deduct		-225.00	
		For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add		386.08	
23 81 16 00-0050	EA	12,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE12D33).....		2,211.48	91.63
		For >10 To 50, Deduct		-101.41	
		For >50 To 75, Deduct		-141.97	
		For >75 To 100, Deduct		-202.82	
		For >100, Deduct		-243.38	
		For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add		386.08	
23 81 23 Computer-Room Air-Conditioners (23 81)					
Note: Includes equipment rigging. Indoor units include filters.					
23 81 23 12 Large-Capacity, Computer-Room Air-Conditioners, Floor Mounted Units (23 81 23)					
23 81 23 12-0001		Floor Mounted Air-Cooled Direct Expansion Type (23 81 23 12)			
Note: Includes compressor sequence switch, mode alert monitor, locking or non-locking disconnect switch, smoke sensor, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand, condensate pump, and outdoor air-cooled condenser complete with fan speed control. Excludes precharged copper pipe.					
23 81 23 12-0002	EA	3 Ton Air-Cooled Computer Room Air Conditioner, Direct Expansion Type.....		42,561.41	2,607.89
		Note: Includes interior unit and remote condenser. Excludes piping.			
		For Liebert Unit, Add		4,830.66	
23 81 23 12-0003	EA	5 Ton Air-Cooled Computer Room Air Conditioner, Direct Expansion Type.....		46,977.83	2,852.37
		Note: Includes interior unit and remote condenser. Excludes piping.			
		For Liebert Unit, Add		5,334.45	
23 81 23 12-0004	EA	6 Ton Air-Cooled Computer Room Air Conditioner, Direct Expansion Type.....		70,333.02	3,259.86
		Note: Includes interior unit and remote condenser. Excludes piping.			
		For Liebert Unit, Add		8,185.56	
23 81 23 12-0005	EA	8 Ton Air-Cooled Computer Room Air Conditioner, Direct Expansion Type.....		74,960.53	3,463.60
		Note: Includes interior unit and remote condenser. Excludes piping.			
		For Liebert Unit, Add		8,726.12	
23 81 23 12-0006	EA	10 Ton Air-Cooled Computer Room Air Conditioner, Direct Expansion Type.....		79,588.05	3,667.34
		Note: Includes interior unit and remote condenser. Excludes piping.			
		For Liebert Unit, Add		9,266.68	
23 81 23 12-0007	EA	16 Ton Air-Cooled Computer Room Air Conditioner, Direct Expansion Type.....		93,669.63	4,400.80
		Note: Includes interior unit and remote condenser. Excludes piping.			
		For Liebert Unit, Add		10,878.65	
23 81 23 12-0008	EA	20 Ton Air-Cooled Computer Room Air Conditioner, Direct Expansion Type.....		105,885.72	4,889.78
		Note: Includes interior unit and remote condenser. Excludes piping.			
		For Liebert Unit, Add		12,326.61	
23 81 23 12-0009	EA	22 Ton Air-Cooled Computer Room Air Conditioner, Direct Expansion Type.....		116,909.04	5,051.06
		Note: Includes interior unit and remote condenser. Excludes piping.			
		For Liebert Unit, Add		13,669.76	
23 81 23 12-0010	EA	24 Ton Air-Cooled Computer Room Air Conditioner, Direct Expansion Type.....		126,655.66	5,215.76
		Note: Includes interior unit and remote condenser. Excludes piping.			
		For Liebert Unit, Add		14,852.92	
23 81 23 12-0011	EA	30 Ton Air-Cooled Computer Room Air Conditioner, Direct Expansion Type.....		136,917.12	5,867.73
		Note: Includes interior unit and remote condenser. Excludes piping.			
		For Liebert Unit, Add		16,023.72	
23 81 23 12-0012		Floor Mounted Chilled Water Type (23 81 23 12)			
Note: Includes mode alert monitor, locking or non-locking disconnect switch, smoke sensor, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand, and condensate pump. Excludes chilled water source. See CSI section 23 81 23 12-0020 for chilled water source.					
23 81 23 12-0013	EA	3 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....		25,438.38	1,786.94
		For Liebert Unit, Add		2,881.98	
23 81 23 12-0014	EA	5 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....		27,336.78	1,979.37
		For Liebert Unit, Add		3,087.20	
23 81 23 12-0015	EA	12 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....		33,812.59	3,014.87
		For Liebert Unit, Add		3,724.10	
23 81 23 12-0016	EA	16 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....		35,350.97	3,054.59
		For Liebert Unit, Add		3,909.83	
23 81 23 12-0017	EA	20 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....		36,709.86	3,176.77
		For Liebert Unit, Add		4,057.24	
23 81 23 12-0018	EA	22 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....		37,572.57	3,482.23
		For Liebert Unit, Add		4,116.20	
23 81 23 12-0019	EA	31 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source.....		39,856.45	3,787.69
		For Liebert Unit, Add		4,352.05	
23 81 23 12-0020		Floor Mounted Water Source For Computer Room Air Conditioner (23 81 23 12)			
Note: Excludes computer room air conditioner					
23 81 23 12-0021	EA	3 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....		19,700.39	1,629.92
		For Liebert Unit, Add		2,158.07	
23 81 23 12-0022	EA	5 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....		21,682.06	1,711.42
		For Liebert Unit, Add		2,390.47	
23 81 23 12-0023	EA	6 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....		28,111.43	1,792.92
		For Liebert Unit, Add		3,179.00	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 23 12-0024 EA 8 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... <i>For Liebert Unit, Add</i>	30,294.72 3,419.70	1,955.91
23 81 23 12-0025 EA 9 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... <i>For Liebert Unit, Add</i>	31,877.94 3,602.31	2,037.66
23 81 23 12-0026 EA 10 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... <i>For Liebert Unit, Add</i>	33,461.17 3,784.91	2,118.90
23 81 23 12-0027 EA 12 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... <i>For Liebert Unit, Add</i>	34,773.86 3,917.72	2,281.89
23 81 23 12-0028 EA 16 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... <i>For Liebert Unit, Add</i>	36,306.19 4,083.72	2,444.88
23 81 23 12-0029 EA 20 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... <i>For Liebert Unit, Add</i>	37,392.20 4,190.70	2,607.89
23 81 23 12-0030 EA 25 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... <i>For Liebert Unit, Add</i>	42,698.64 4,758.81	3,096.86

23 81 23 12-0031 Floor Mounted Glycol System Type (23 81 23 12)

Note: Includes mode alert monitor, locking or non-locking disconnect switch, smoke sensor, firestat, infrared humidifier, auto flush on humidifier, two liquid sensors, floor stand, and condensate pump. Excludes chilled water source. See CSI section 23 81 23 12-0020 for water source.

23 81 23 12-0032 EA 3 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	51,814.39 18,492.42	1,786.94
<i>Note: Installation is externally mounted.</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		
23 81 23 12-0033 EA 5 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	55,749.13 19,908.07	1,979.37
<i>Note: Installation is externally mounted.</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		
23 81 23 12-0034 EA 6 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	72,976.91 25,985.44	2,217.63
<i>Note: Installation is externally mounted.</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		
23 81 23 12-0035 EA 8 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	84,446.53 30,047.46	2,455.89
<i>Note: Installation is externally mounted.</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		
23 81 23 12-0036 EA 9 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	89,221.50 31,742.53	2,575.01
<i>Note: Installation is externally mounted.</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		
23 81 23 12-0037 EA 10 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	95,290.88 33,890.64	2,694.14
<i>Note: Installation is externally mounted.</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		
23 81 23 12-0038 EA 12 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	101,764.45 36,180.21	2,813.88
<i>Note: Installation is externally mounted.</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		
23 81 23 12-0039 EA 15 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	109,283.59 38,835.74	2,920.18
<i>Note: Installation is externally mounted.</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		
23 81 23 12-0040 EA 16 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	116,390.64 41,350.70	3,054.59
<i>Note: Installation is externally mounted.</i>		
<i>For 10 HP Glycol Pump, Add</i>		
<i>For Remote Pump Control Panel, Add</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		
23 81 23 12-0041 EA 20 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	127,703.28 45,333.95	3,176.77
<i>Note: Installation is externally mounted.</i>		
<i>For 10 HP Glycol Pump, Add</i>		
<i>For Remote Pump Control Panel, Add</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		
23 81 23 12-0042 EA 22 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	132,347.50 47,018.08	3,482.23
<i>Note: Installation is externally mounted.</i>		
<i>For 10 HP Glycol Pump, Add</i>		
<i>For Remote Pump Control Panel, Add</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		
23 81 23 12-0043 EA 30 Ton Computer Room Air Conditioner, Glycol System Type..... <i>For Drycooler, Add</i>	161,431.97 57,257.20	3,787.69
<i>Note: Installation is externally mounted.</i>		
<i>For 10 HP Glycol Pump, Add</i>		
<i>For Remote Pump Control Panel, Add</i>		
<i>For Integrated Fluid Econocoil (Economizer Functionality), Add</i>		

23 81 23 12-0044 Removal And Reinstallation Of Computer Room Unit (23 81 23 12)

Note: Includes storage and cleaning. Excludes main mechanical piping. Reconnection of existing valves are included.

23 81 23 12-0045 EA Removal And Reinstallation Up To 6 Ton, Floor Mounted Chilled Water Computer Room Unit.....	2,443.67	
23 81 23 12-0046 EA Removal And Reinstallation Up To 6 Ton Direct Expansion Computer Room Unit	2,036.39	



Heating, Ventilating, and Air-Conditioning (HVAC)		23
Decentralized Unitary HVAC Equipment		23 80
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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 23 13 Computer-Room Air-Conditioners, Ceiling Mounted Units (23 81 23)			
23 81 23 13-0001 Ceiling Mounted Packaged Computer Room Air Conditioner (23 81 23 13)			
Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand, and outdoor air-cooled condenser complete with fan speed control.			
23 81 23 13-0002	EA 1 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	16,907.36	774.65
	For Liebert Unit, Add	1,968.24	
23 81 23 13-0003	EA 1.5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	18,687.82	930.30
	For Liebert Unit, Add	2,161.63	
23 81 23 13-0004	EA 2 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	21,335.42	1,164.29
	For Liebert Unit, Add	2,448.74	
23 81 23 13-0005	EA 3 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	26,220.19	1,358.32
	For Liebert Unit, Add	3,022.98	
23 81 23 13-0006	EA 5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	35,584.98	1,476.34
	For Liebert Unit, Add	4,171.44	
23 81 23 13-0007 Horizontal Indoor Single Package Cooling Unit (23 81 23 13)			
Note: Carrier 50AH With indoor scroll compressor, plenum mounted.			
23 81 23 13-0008	EA 2 Ton Horizontal Indoor Single-Package Cooling Unit, 800 CFM Nominal	21,539.93	733.10
23 81 23 13-0009	EA 3 Ton Horizontal Indoor Single-Package Cooling Unit, 1,200 CFM Nominal	25,243.51	916.38
23 81 23 13-0010	EA 4 Ton Horizontal Indoor Single-Package Cooling Unit, 1,600 CFM Nominal	29,392.91	1,099.65
23 81 23 13-0011	EA 5 Ton Horizontal Indoor Single-Package Cooling Unit, 2,000 CFM Nominal	34,214.78	1,221.84
23 81 26 Split-System Air-Conditioners (23 81)			
23 81 26 13 Small-Capacity Split-System Air-Conditioners (23 81 26)			
23 81 26 13-0001 Split System A/C Unit (23 81 26 13)			
See CSI section 23 23 16 00-0001 for piping.			
23 81 26 13-0002 Ductless Split System Air Conditioners (23 81 26 13-0001)			
Note: Excludes refrigerant piping, electrical, and pad. Panasonic units or equal. See CSI section 23 81 49 00-0025 for ductless heat pumps.			
23 81 26 13-0003 Wall Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)			
23 81 26 13-0004	EA 9,000 BTU, 16 SEER, Wall Mounted Ductless Split System Air Conditioners	2,615.74	403.20
	Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0005	EA 11,900 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioner	2,829.70	439.86
	Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0006	EA 17,500 BTU, 20 SEER, Wall Mounted Ductless Split System Air Conditioners	3,547.76	488.74
	Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0007	EA 24,200 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioners	3,940.40	537.61
	Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0008	EA 25,200 BTU, 14.9 SEER, Wall Mounted Ductless Split System Air Conditioners	6,119.17	586.48
	Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0009	EA 29,800 BTU, 15 SEER, Wall Mounted Ductless Split System Air Conditioners	7,138.97	610.92
	Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0010	EA 31,400 BTU, 15.9 SEER, Wall Mounted Ductless Split System Air Conditioners	7,836.58	651.23
	Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0011 Dual and Tri Zone Wall Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)			
Note: Use this section only when matching indoor and outdoor capacity units are not used.			
23 81 26 13-0012	EA 7,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners	1,123.14	195.50
	Note: Includes indoor unit and wireless thermostat.		
23 81 26 13-0013	EA 9,000 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners	1,186.24	207.72
	Note: Includes indoor unit and wireless thermostat.		
23 81 26 13-0014	EA 11,900 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners	1,250.44	219.93
	Note: Includes indoor unit and wireless thermostat.		
23 81 26 13-0015	EA 17,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners	1,416.79	232.15
	Note: Includes indoor unit and wireless thermostat.		
23 81 26 13-0016	EA 24,200 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners	1,515.78	244.37
	Note: Includes indoor unit and wireless thermostat.		
23 81 26 13-0017	EA 19,700 BTU, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners	3,155.15	293.24
	Note: Includes outdoor unit and refrigerant charge.		
23 81 26 13-0018	EA 25,400 BTU, 16.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners	3,491.17	317.68
	Note: Includes outdoor unit and refrigerant charge.		
23 81 26 13-0019	EA 30,600 BTU, 17.6 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners	5,555.36	342.11
	Note: Includes outdoor unit and refrigerant charge.		
23 81 26 13-0020 Suspended Ceiling Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)			
Note: Excludes hangers.			
23 81 26 13-0021	EA 24,400 BTU, 14.5 SEER, Ceiling Suspended Ductless Split System Air Conditioners	6,560.56	586.48
	Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0022	EA 31,200 BTU, 15.1 SEER, Ceiling Suspended Ductless Split System Air Conditioners	7,994.86	700.11
	Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0023	EA 39,000 BTU, 15.6 SEER, Ceiling Suspended Ductless Split System Air Conditioners	9,783.05	733.10
	Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**
 MINOR
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 UNIT COST UNIT COST

23 81 26 13-0024		Recessed Ceiling Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)	
		Note: Excludes hangers.	
23 81 26 13-0025	EA	11,900 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners	4,002.25 488.74
		Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	
23 81 26 13-0026	EA	17,500 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners	4,670.94 537.61
		Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	
23 81 26 13-0027	EA	24,800 BTU, 14.1 SEER, Ceiling Recessed Ductless Split System Air Conditioners	6,514.40 635.35
		Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	
23 81 26 13-0028	EA	32,600 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners	7,545.99 700.11
		Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	
23 81 26 13-0029	EA	39,500 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners	9,558.62 733.10
		Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	
23 81 26 13-0030		Ductless Split System Accessories (23 81 26 13-0002)	
23 81 26 13-0031	LF	3" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	14.84 1.75
23 81 26 13-0032	LF	4" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	19.18 1.92
23 81 26 13-0033	LF	6" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	23.97 2.12
23 81 26 13-0034	EA	3" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers	24.80 3.28
23 81 26 13-0035	EA	4" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers	43.16 3.61
23 81 26 13-0036	EA	6" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers	49.21 3.97
23 81 26 13-0037	EA	3" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	62.03 6.57
23 81 26 13-0038	EA	4" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	103.70 7.22
23 81 26 13-0039	EA	6" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	115.81 7.95
23 81 26 13-0040	EA	3" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	83.20 7.00
23 81 26 13-0041	EA	4" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	97.72 7.71
23 81 26 13-0042	EA	6" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	152.13 8.48
23 81 26 13-0043	EA	3" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	62.03 6.57
23 81 26 13-0044	EA	4" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	103.70 7.22
23 81 26 13-0045	EA	6" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	115.81 7.95
23 81 26 13-0046	EA	3" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	80.26 10.95
23 81 26 13-0047	EA	4" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	118.30 12.04
23 81 26 13-0048	EA	6" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	141.78 13.25
23 81 26 13-0049	EA	2-1/2" Wall Sleeve, Rigid Polyvinyl Chloride (PVC) Line Set Covers	46.28 2.19
23 81 26 13-0050	EA	3" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	49.63 6.57
23 81 26 13-0051	EA	4" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	81.38 7.22
23 81 26 13-0052	EA	3" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers	44.67 6.57
23 81 26 13-0053	EA	4" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers	61.54 7.22
23 81 26 13-0054	EA	6" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers	66.21 7.95
23 81 26 13-0055	EA	4" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	222.43 8.75
23 81 26 13-0056	EA	6" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	252.35 9.63
23 81 26 13-0057	EA	14" Condensing Unit Mounting Blocks With End Caps	134.19 32.84
23 81 26 13-0058	EA	17" Condensing Unit Mounting Blocks With End Caps	148.27 35.03
23 81 26 13-0059	EA	36" Condensing Unit Mounting Blocks With End Caps	204.50 37.21
23 81 26 13-0060	EA	End Cap, Set of 4	24.77
23 81 26 13-0061	EA	18" Condensing Unit Type 2 Wall Bracket, 165 Lb. Capacity	285.91 65.67
23 81 26 13-0062	EA	21" Condensing Unit Type 2 Wall Bracket, 220 Lb. Capacity	303.42 70.05
23 81 26 13-0063	LF	5/8" ID Condensate Drain Line	3.28 0.17
23 81 26 13-0064	LF	3/4" ID Condensate Drain Line	3.40 0.17
23 81 26 13-0065		Cased A/C Evaporator Coils (23 81 26 13-0001)	
23 81 26 13-0066		Vertical Cased A/C Evaporator Coils (23 81 26 13-0065)	
23 81 26 13-0067	EA	1-1/2 Ton Vertical Cased A/C Evaporator Coil	946.07 120.66
23 81 26 13-0068	EA	2 Ton Vertical Cased A/C Evaporator Coil	983.89 129.71
23 81 26 13-0069	EA	2-1/2 Ton Vertical Cased A/C Evaporator Coil	1,182.41 138.75
23 81 26 13-0070	EA	3 Ton Vertical Cased A/C Evaporator Coil	1,355.58 147.81
23 81 26 13-0071	EA	3-1/2 Ton Vertical Cased A/C Evaporator Coil	1,581.88 153.84
23 81 26 13-0072	EA	4 Ton Vertical Cased A/C Evaporator Coil	1,774.38 159.87
23 81 26 13-0073	EA	4-1/2 Ton Vertical Cased A/C Evaporator Coil	1,905.63 171.95
23 81 26 13-0074	EA	5 Ton Vertical Cased A/C Evaporator Coil	1,912.48 180.99
23 81 26 13-0075		"A" Style Horizontal Cased A/C Evaporator Coils (23 81 26 13-0065)	
23 81 26 13-0076	EA	2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	1,177.63 123.68
23 81 26 13-0077	EA	2-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	1,363.41 130.62
23 81 26 13-0078	EA	3 Ton "A" Style Horizontal Cased A/C Evaporator Coil	1,570.25 138.75
23 81 26 13-0079	EA	3-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	1,626.57 143.77
23 81 26 13-0080	EA	4 Ton "A" Style Horizontal Cased A/C Evaporator Coil	1,702.71 150.83
23 81 26 13-0081	EA	4-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	1,718.56 158.67
23 81 26 13-0082	EA	5 Ton "A" Style Horizontal Cased A/C Evaporator Coil	1,734.09 166.51
23 81 26 13-0083		Slab Style Horizontal Cased A/C Evaporator Coils (23 81 26 13-0065)	
23 81 26 13-0084	EA	2 Ton Slab Style Horizontal Cased A/C Evaporator Coil	1,016.95 123.68
23 81 26 13-0085	EA	3 Ton Slab Style Horizontal Cased A/C Evaporator Coil	1,229.14 138.75
23 81 26 13-0086	EA	4 Ton Slab Style Horizontal Cased A/C Evaporator Coil	1,426.44 150.83
23 81 26 13-0087	EA	5 Ton Slab Style Horizontal Cased A/C Evaporator Coil	1,731.28 166.51

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Decentralized Unitary HVAC Equipment

23 81

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 16 Large-Capacity Split-System Air-Conditioners (23 81 26)		
23 81 26 16-0001 Split System Air Conditioners, Variable Refrigerant Flow (Mitsubishi City Multi) (23 81 26 16)		
23 81 26 16-0002 Outdoor Units (23 81 26 16-0001)		
23 81 26 16-0003 EA 6 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P72YKMU-A).....	19,836.01	641.46
23 81 26 16-0004 EA 8 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P96YKMU-A).....	21,489.01	763.64
23 81 26 16-0005 EA 10 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P120YKMU-A).....	24,178.32	916.38
23 81 26 16-0006 EA 12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YKMU-A).....	29,813.76	946.92
23 81 26 16-0007 EA 12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YSKMU-A).....	39,735.31	977.47
23 81 26 16-0008 EA 14 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P168YSKMU-A).....	41,205.04	1,008.01
23 81 26 16-0009 EA 16 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P192YSKMU-A).....	42,674.77	1,038.56
23 81 26 16-0010 EA 18 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P216YSKMU-A).....	45,180.81	1,099.65
23 81 26 16-0011 EA 20 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P240YSKMU-A).....	47,686.83	1,160.75
23 81 26 16-0012 EA 22 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P264YSKMU-A).....	53,383.38	1,221.84
23 81 26 16-0013 EA 24 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P288YSKMU-A).....	59,079.91	1,282.93
23 81 26 16-0014 Indoor Units (23 81 26 16-0001)		
23 81 26 16-0015 EA 6 MBH Cooling, 6.7 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P06NBMU-E2).....	2,022.44	198.55
23 81 26 16-0016 EA 8 MBH Cooling, 9 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P08NHMU-E2).....	2,125.23	213.82
23 81 26 16-0017 EA 12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P12NHMU-E2).....	2,215.97	229.10
23 81 26 16-0018 EA 15 MBH Cooling, 17 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P15NHMU-E2).....	2,324.78	244.37
23 81 26 16-0019 EA 18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P18NHMU-E2).....	2,512.73	290.19
23 81 26 16-0020 EA 24 MBH Cooling, 27 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P24NKMU-E2).....	2,799.85	351.28
23 81 26 16-0021 EA 30 MBH Cooling, 34 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P30NKMU-E2).....	3,033.11	381.82
23 81 26 16-0022 EA 6 MBH Cooling, 6.7 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P06NMAU-E3).....	2,947.06	218.41
23 81 26 16-0023 EA 8 MBH Cooling, 9 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P08NMAU-E3).....	3,046.88	235.21
23 81 26 16-0024 EA 12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P12NMAU-E3).....	3,212.93	252.01
23 81 26 16-0025 EA 15 MBH Cooling, 17 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P15NMAU-E3).....	3,487.32	268.81
23 81 26 16-0026 EA 18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P18NMAU-E3).....	3,672.40	319.20
23 81 26 16-0027 EA 24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P24NMAU-E3).....	4,023.51	386.40
23 81 26 16-0028 EA 27 MBH Cooling, 30 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P27NMAU-E3).....	4,231.70	403.20
23 81 26 16-0029 EA 30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P30NMAU-E3).....	4,463.94	420.00
23 81 26 16-0030 EA 36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P36NMAU-E3).....	4,951.27	462.01
23 81 26 16-0031 EA 48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P48NMAU-E3).....	5,489.15	508.20
23 81 26 16-0032 EA 54 MBH Cooling, 60 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P54NMAU-E3).....	5,939.93	559.03
23 81 26 16-0033 EA 72 MBH Cooling, 80 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P72NMHSU-E).....	7,550.67	614.93
23 81 26 16-0034 EA 96 MBH Cooling, 108 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P96NMHSU-E).....	8,576.63	676.42
23 81 26 16-0035 EA 12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP12NEMU-E).....	3,348.98	252.01
23 81 26 16-0036 EA 15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP15NEMU-E).....	3,530.66	268.81
23 81 26 16-0037 EA 18 MBH Cooling, 20 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP18NEMU-E).....	3,719.35	319.20
23 81 26 16-0038 EA 24 MBH Cooling, 27 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP24NEMU-E).....	4,163.17	386.40
23 81 26 16-0039 EA 30 MBH Cooling, 34 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP30NEMU-E).....	4,484.41	420.00
23 81 26 16-0040 EA 36 MBH Cooling, 40 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP36NEMU-E).....	5,499.07	462.01
23 81 26 16-0041 EA 6 MBH Cooling, 6.7 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P06NBMU-ER5).....	3,013.28	218.41
23 81 26 16-0042 EA 8 MBH Cooling, 9 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P08NBMU-ER5).....	3,167.28	235.21
23 81 26 16-0043 EA 12 MBH Cooling, 13.5 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P12NBMU-ER5).....	3,405.56	252.01
23 81 26 16-0044 EA 15 MBH Cooling, 17 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P15NBMU-ER5).....	3,583.64	268.81
23 81 26 16-0045 EA 8 MBH Cooling, 9 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P08NCMU-ER4).....	2,782.01	235.21
23 81 26 16-0046 EA 12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P12NCMU-ER4).....	2,923.98	252.01
23 81 26 16-0047 EA 15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P15NCMU-ER4).....	3,071.95	268.81
23 81 26 16-0048 Controllers For Outdoor Units (23 81 26 16-0001)		
23 81 26 16-0049 EA 8 Branch (Main BC) (Mitsubishi CMB-P108NU-HA1).....	10,780.84	183.28
23 81 26 16-0050 EA 10 Branch (Main BC) (Mitsubishi CMB-P1010NU-HA1).....	12,467.28	213.82
23 81 26 16-0051 EA 13 Branch (Main BC) (Mitsubishi CMB-P1013NU-GA).....	13,774.48	244.37
23 81 26 16-0052 EA 16 Branch (Main BC) (Mitsubishi CMB-P1016NU-HA).....	16,351.85	274.91
23 81 26 16-0053 EA 4 Branch (Sub BC) (Mitsubishi CMB-P104NU-GB).....	6,005.34	122.18
23 81 26 16-0054 EA 8 Branch (Sub BC) (Mitsubishi CMB-P108NU-GB).....	9,251.80	183.28
23 81 26 16-0055 EA 16 Branch (Sub BC) (Mitsubishi CMB-P1016NU-HB).....	14,142.58	274.91
23 81 26 16-0056 Energy Recovery Units (23 81 26 16-0001)		
23 81 26 16-0057 EA 36.2 MBH Cooling, 39.9 MBH Heating Hydronic Heat Exchanger Auxiliary Unit (Mitsubishi PWFY-P36NNU-E2-AU).....	7,614.41	183.28

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 16-0058 EA 39.9 MBH Hydronic Heat Exchanger Booster Unit (Mitsubishi PWFY-P36NMU-E-BU).....	14,452.93	183.28
23 81 26 16-0059 EA 112 MBH Cooling, 61.4 MBH Heating Reheat Unit (Mitsubishi PEFY-AF1200CFMR).....	14,652.47	213.82
23 81 26 16-0060 EA Lossnay Energy Recovery Ventilator ERV, 300 CFM (Mitsubishi LGH-F300RX5-E).....	3,014.38	152.72
23 81 26 16-0061 EA Lossnay Energy Recovery Ventilator ERV, 470 CFM (Mitsubishi LGH-F470RX5-E).....	3,851.31	158.83
23 81 26 16-0062 EA Lossnay Energy Recovery Ventilator ERV, 600 CFM (Mitsubishi LGH-F600RX5-E).....	4,597.94	164.95
23 81 26 16-0063 EA Lossnay Energy Recovery Ventilator ERV, 1,200 CFM (Mitsubishi LGH-F1200RX5-E1).....	8,415.05	183.28
23 81 26 16-0064 Piping Specialties (23 81 26 16-0001)		
23 81 26 16-0065 EA Maintenance Tool Interface (Mitsubishi CMS-MNG-E).....	1,071.53	
23 81 26 16-0066 EA Branch Joint (Mitsubishi CMY-Y102SS-G2).....	271.05	45.83
23 81 26 16-0067 EA Branch Joint (Mitsubishi CMY-Y102LS-G2).....	271.05	45.83
23 81 26 16-0068 EA Branch Joint (Mitsubishi CMY-Y202S-G2).....	301.16	48.25
23 81 26 16-0069 EA Branch Joint (Mitsubishi CMY-Y302S-G2).....	379.44	54.28
23 81 26 16-0070 EA Header - 4 Branch (Mitsubishi CMY-Y64-G-E).....	493.91	78.39
23 81 26 16-0071 EA Header - 8 Branch (Mitsubishi CMY-Y68-G-E).....	831.30	156.80
23 81 26 16-0072 EA Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" (Mitsubishi BV38FFSI).....	152.97	19.30
23 81 26 16-0073 EA Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" (Mitsubishi BV58FFSI).....	171.06	26.53
23 81 26 16-0074 Split System Air Conditioners (Daikin VRV) (23 81 26 16)		
23 81 26 16-0075 Heat Pump Outdoor Units (23 81 26 16-0074)		
23 81 26 16-0076 EA 6 Ton Heat Pump Outdoor Unit (Daikin).....	26,880.59	641.46
23 81 26 16-0077 EA 8 Ton Heat Pump Outdoor Unit (Daikin).....	30,043.98	763.64
23 81 26 16-0078 EA 10 Ton Heat Pump Outdoor Unit (Daikin).....	33,493.01	916.38
23 81 26 16-0079 EA 12 Ton Heat Pump Outdoor Unit (Daikin).....	41,862.11	946.92
23 81 26 16-0080 EA 14 Ton Heat Pump Outdoor Unit (Daikin).....	56,130.37	1,008.01
23 81 26 16-0081 EA 16 Ton Heat Pump Outdoor Unit (Daikin).....	59,335.03	1,038.56
23 81 26 16-0082 EA 18 Ton Heat Pump Outdoor Unit (Daikin).....	62,376.25	1,099.65
23 81 26 16-0083 EA 20 Ton Heat Pump Outdoor Unit (Daikin).....	65,642.00	1,160.75
23 81 26 16-0084 EA 22 Ton Heat Pump Outdoor Unit (Daikin).....	85,074.71	1,221.84
23 81 26 16-0085 EA 24 Ton Heat Pump Outdoor Unit (Daikin).....	88,340.46	1,282.93
23 81 26 16-0086 EA 26 Ton Heat Pump Outdoor Unit (Daikin).....	91,606.21	1,344.02
23 81 26 16-0087 EA 28 Ton Heat Pump Outdoor Unit (Daikin).....	94,647.43	1,405.10
23 81 26 16-0088 EA 30 Ton Heat Pump Outdoor Unit (Daikin).....	97,913.18	1,466.20
23 81 26 16-0089 Heat Recovery Heat Pump Outdoor Units (23 81 26 16-0074)		
23 81 26 16-0090 EA 6 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	34,423.23	833.91
23 81 26 16-0091 EA 8 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	37,534.96	992.74
23 81 26 16-0092 EA 10 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	41,228.14	1,191.29
23 81 26 16-0093 EA 12 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	51,860.99	1,231.00
23 81 26 16-0094 EA 14 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	70,207.63	1,310.42
23 81 26 16-0095 EA 16 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	75,676.03	1,350.12
23 81 26 16-0096 EA 18 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	78,529.36	1,429.54
23 81 26 16-0097 EA 20 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	81,382.69	1,508.97
23 81 26 16-0098 EA 22 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	107,251.46	1,588.38
23 81 26 16-0099 EA 24 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	110,104.78	1,667.80
23 81 26 16-0100 EA 26 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	115,652.61	1,747.22
23 81 26 16-0101 EA 28 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin).....	118,505.93	1,826.64
23 81 26 16-0102 Indoor Units (23 81 26 16-0074)		
23 81 26 16-0103 EA 7.5 MBH Cooling, 8.5 MBH Heating Wall Mounted Indoor Unit (Daikin).....	3,054.34	213.82
23 81 26 16-0104 EA 9.5 MBH Cooling, 10.5 MBH Heating Wall Mounted Indoor Unit (Daikin).....	3,191.54	219.93
23 81 26 16-0105 EA 12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Daikin).....	3,614.46	229.10
23 81 26 16-0106 EA 18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Daikin).....	4,045.93	290.19
23 81 26 16-0107 EA 24 MBH Cooling, 26.5 MBH Heating Wall Mounted Indoor Unit (Daikin).....	4,435.01	351.28
23 81 26 16-0108 EA 7.5 MBH Cooling, 8.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin).....	4,486.72	235.21
23 81 26 16-0109 EA 9.5 MBH Cooling, 10.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin).....	4,637.85	241.92
23 81 26 16-0110 EA 12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin).....	4,871.97	134.40
23 81 26 16-0111 EA 18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin).....	5,165.24	319.20
23 81 26 16-0112 EA 24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin).....	6,119.42	386.40
23 81 26 16-0113 EA 30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin).....	7,002.17	420.00
23 81 26 16-0114 EA 36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin).....	7,480.18	462.01
23 81 26 16-0115 EA 48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin).....	7,731.46	508.20
23 81 26 16-0116 EA 7.5 MBH Cooling, 8.7 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin).....	5,024.77	235.21
23 81 26 16-0117 EA 9.5 MBH Cooling, 11.1 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin).....	5,144.12	241.92
23 81 26 16-0118 EA 12 MBH Cooling, 14 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin).....	5,471.45	252.01
23 81 26 16-0119 EA 18 MBH Cooling, 21 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin).....	5,828.27	319.20
23 81 26 16-0120 Branch Selector Boxes (23 81 26 16-0074)		
23 81 26 16-0121 EA 144 MBH, 4 Branch, Multi Port Branch Selector Box (Daikin).....	15,369.53	274.91
23 81 26 16-0122 EA 216 MBH, 6 Branch, Multi Port Branch Selector Box (Daikin).....	22,738.10	366.55
23 81 26 16-0123 EA 36 MBH, 4 Branch, Single Port Branch Selector Box (Daikin).....	3,019.36	122.18
23 81 26 16-0124 EA 60 MBH, 8 Branch, Single Port Branch Selector Box (Daikin).....	4,067.24	183.28
23 81 26 16-0125 EA 96 MBH, 8 Branch, Single Port Branch Selector Box (Daikin).....	5,040.65	274.91



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Decentralized Unitary HVAC Equipment			23 80
Decentralized Unitary HVAC Equipment			23 81



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
23 81 26 16-0126 Controllers (23 81 26 16-0074)				
23 81 26 16-0127	EA	Up To 16 Units, Navigation Controller (Daikin)	932.82	24.44
23 81 26 16-0128	EA	Individual Zone Controller (Daikin)	670.15	24.44
23 81 26 16-0129	EA	Up To 16 Groups, Unified ON/OFF Controller (Daikin)	1,312.00	24.44
23 81 26 16-0130	EA	Up To 64 Units, Multizone Controller (Daikin)	1,843.69	24.44
23 81 26 16-0131	EA	I-Touch Manager Replaced Both Daikin IMP-128 thru 1024 and DCS601C71 (Daikin)	17,125.08	293.24
23 81 26 16-0132	EA	I-Touch Manager D3net Plus Adapter (Daikin)	3,210.00	24.44
23 81 26 16-0133	EA	24 Volt AC, Wired Thermostat For Split A/C Systems (Daikin)	703.84	43.12
23 81 26 16-0134 Energy Recovery Units (23 81 26 16-0074)				
23 81 26 16-0135	EA	300 CFM Energy Recovery Unit (Daikin)	5,302.55	152.72
23 81 26 16-0136	EA	470 CFM Energy Recovery Unit (Daikin)	6,886.56	158.83
23 81 26 16-0137	EA	600 CFM Energy Recovery Unit (Daikin)	8,246.01	164.95
23 81 26 16-0138	EA	1,200 CFM Energy Recovery Unit (Daikin)	15,410.79	183.28
23 81 43 Air-Source Unitary Heat Pumps (23 81)				
23 81 43 00-0001 Single Package Thru-Wall Heat Pumps (23 81 43)				
Note: Air-to-air type with electric heat. Includes throwaway filters. Through the wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls all mounted in a steel cabinet, wall sleeve and outdoor grille. Excludes crane and associated personnel. See CSI section 01 22 23 00-1038 for crane lifting equipment.				
23 81 43 00-0002	EA	1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	2,339.98	198.66
		For Unit Economizer, Add	312.23	
		For >35 To 70, Deduct	-58.68	
		For >70 To 100, Deduct	-97.80	
		For >100, Deduct	-136.91	
		For Low Ambient Protection, 0 Degree F, Add	272.05	
23 81 43 00-0003	EA	1 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	2,583.81	211.91
		For Unit Economizer, Add	345.31	
		For >35 To 70, Deduct	-65.20	
		For >70 To 100, Deduct	-108.66	
		For >100, Deduct	-152.13	
		For Low Ambient Protection, 0 Degree F, Add	298.24	
23 81 43 00-0004	EA	1-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	4,409.31	211.91
		For Unit Economizer, Add	600.88	
		For >35 To 70, Deduct	-119.96	
		For >70 To 100, Deduct	-199.94	
		For >100, Deduct	-279.91	
		For Low Ambient Protection, 0 Degree F, Add	462.53	
23 81 43 00-0005	EA	2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	4,826.98	211.91
		For Unit Economizer, Add	658.29	
		For >35 To 70, Deduct	-131.70	
		For >70 To 100, Deduct	-219.50	
		For >100, Deduct	-307.29	
		For Low Ambient Protection, 0 Degree F, Add	240.96	
23 81 43 00-0006	EA	2-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	5,461.97	225.16
		For Unit Economizer, Add	746.13	
		For >35 To 70, Deduct	-149.95	
		For >70 To 100, Deduct	-249.92	
		For >100, Deduct	-349.89	
		For Low Ambient Protection, 0 Degree F, Add	265.84	
23 81 43 00-0007	EA	3 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	5,722.76	238.40
		For Unit Economizer, Add	782.64	
		For >35 To 70, Deduct	-157.78	
		For >70 To 100, Deduct	-262.96	
		For >100, Deduct	-368.14	
		For Low Ambient Protection, 0 Degree F, Add	799.58	
23 81 43 00-0008	EA	3-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	6,444.69	238.40
		For Unit Economizer, Add	882.65	
		For >35 To 70, Deduct	-178.64	
		For >70 To 100, Deduct	-297.73	
		For >100, Deduct	-416.82	
		For Low Ambient Protection, 0 Degree F, Add	896.62	
23 81 43 00-0009	EA	4 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	7,109.90	251.64
		For Unit Economizer, Add	975.25	
		For >35 To 70, Deduct	-198.20	
		For >70 To 100, Deduct	-330.33	
		For >100, Deduct	-462.46	
		For Low Ambient Protection, 0 Degree F, Add	984.68	
23 81 43 00-0010	EA	5 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	8,189.04	291.37
		For Unit Economizer, Add	1,123.16	
		For >35 To 70, Deduct	-228.19	
		For >70 To 100, Deduct	-380.31	
		For >100, Deduct	-532.44	
		For Low Ambient Protection, 0 Degree F, Add	1,134.51	
23 81 43 00-0011	EA	7-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	15,001.77	344.35
		For Unit Economizer, Add	2,072.17	
		For >35 To 70, Deduct	-428.99	
		For >70 To 100, Deduct	-714.99	
		For >100, Deduct	-1,000.99	
		For Low Ambient Protection, 0 Degree F, Add	2,034.46	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0012 EA 10 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... For Unit Economizer, Add For >35 To 70, Deduct For >70 To 100, Deduct For >100, Deduct For Low Ambient Protection, 0 Degree F, Add	19,316.32 2,668.79 -552.87 -921.45 -1,290.03 406.13	437.06
23 81 43 00-0013 EA 12-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... For Unit Economizer, Add For >35 To 70, Deduct For >70 To 100, Deduct For >100, Deduct For Low Ambient Protection, 0 Degree F, Add	23,581.62 3,262.22 -678.05 -1,130.08 -1,582.11 471.04	490.05
23 81 43 00-0014 EA 15 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... For Unit Economizer, Add For >35 To 70, Deduct For >70 To 100, Deduct For >100, Deduct For Low Ambient Protection, 0 Degree F, Add	29,090.43 4,028.69 -839.73 -1,399.56 -1,959.38 554.73	556.26
23 81 43 00-0015 EA 20 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... For Unit Economizer, Add For >35 To 70, Deduct For >70 To 100, Deduct For >100, Deduct For Low Ambient Protection, 0 Degree F, Add	38,745.33 5,376.67 -1,126.60 -1,877.67 -2,628.73 673.53	596.00
23 81 43 00-0016 EA 25 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... For Unit Economizer, Add For >35 To 70, Deduct For >70 To 100, Deduct For >100, Deduct For Low Ambient Protection, 0 Degree F, Add	46,674.90 6,482.57 -1,361.31 -2,268.85 -3,176.39 778.26	648.98
23 81 43 00-0017 Single Package Vertical Wall Heat Pumps (23 81 43) Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-1038 for crane lifting equipment.		
23 81 43 00-0018 EA 1 1/2 Ton Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	3,594.96	264.89
23 81 43 00-0019 EA 1 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	4,360.59	291.37
23 81 43 00-0020 EA 1-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	5,635.41	304.63
23 81 43 00-0021 EA 2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	6,460.39	331.11
23 81 43 00-0022 EA 2-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	8,077.47	384.08
23 81 43 00-0023 EA 3 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	8,630.09	437.06
23 81 43 00-0024 EA 3-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	9,373.46	490.05
23 81 43 00-0025 EA 4 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	10,547.07	543.02
23 81 43 00-0026 EA 5 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	11,892.33	648.98
23 81 43 00-0027 Heat Pump, Room Air-Conditioners (23 81 43) Note: Includes throwaway filters and supplemental heat.		
23 81 43 00-0028 Heat Pump, Window Unit, Room Air-Conditioners (23 81 43 00-0027)		
23 81 43 00-0029 Heat Pump, Window Unit, Room Air-Conditioners (Friedrich) (23 81 43 00-0028)		
23 81 43 00-0030 EA 10,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS10N10C)..... For >10 To 50, Deduct For >50 To 75, Deduct For >75 To 100, Deduct For >100, Deduct	2,648.67 -119.60 -167.45 -239.21 -287.05	128.29
23 81 43 00-0031 EA 12,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS12N33C)..... For >10 To 50, Deduct For >50 To 75, Deduct For >75 To 100, Deduct For >100, Deduct	2,993.41 -136.84 -191.58 -273.68 -328.42	128.29
23 81 43 00-0032 EA 17,500 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich KHM18A34A)..... For >10 To 50, Deduct For >50 To 75, Deduct For >75 To 100, Deduct For >100, Deduct	3,510.51 -162.70 -227.77 -325.39 -390.47	128.29
23 81 43 00-0033 EA 24,000 BTU, 10.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YL24N35D)..... For >10 To 50, Deduct For >50 To 75, Deduct For >75 To 100, Deduct For >100, Deduct	4,085.07 -191.42 -267.99 -382.85 -459.42	128.29
23 81 43 00-0034 Heat Pump, Through-The-Wall, Room Air-Conditioners (23 81 43 00-0027) Note: Base unit excludes wall sleeve.		
23 81 43 00-0035 Heat Pump, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 43 00-0034)		



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Decentralized Unitary HVAC Equipment			23 80
Decentralized Unitary HVAC Equipment			23 81



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0036	EA		9,300 BTU, 9.8 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY09C33D).....	2,671.12	91.63
			For >10 To 50, Deduct	-124.39	
			For >50 To 75, Deduct	-174.15	
			For >75 To 100, Deduct	-248.78	
			For >100, Deduct	-298.54	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	386.08	
23 81 43 00-0037	EA		11,300 BTU, 9.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY12D33A).....	2,671.12	91.63
			For >10 To 50, Deduct	-124.39	
			For >50 To 75, Deduct	-174.15	
			For >75 To 100, Deduct	-248.78	
			For >100, Deduct	-298.54	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	386.08	

23 81 46 Water-Source Unitary Heat Pumps (23 81)

23 81 46 00-0001 Horizontal, Ceiling Mounted, Single Stage, 208/230-1-60, With 2-Way Solenoid Valve, Water Source Heat Pumps (23 81 46)

Note: Includes rubber isolator hanger brackets.					
23 81 46 00-0002	EA		1/2 Ton, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	5,390.11	241.32
23 81 46 00-0003	EA		3/4 Ton, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	5,570.38	241.32
23 81 46 00-0004	EA		1 Ton, 400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	6,455.92	265.46
23 81 46 00-0005	EA		1-1/2 Ton, 630 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	6,788.61	289.58
23 81 46 00-0006	EA		2 Ton, 800 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	7,277.54	313.72
23 81 46 00-0007	EA		2-1/2 Ton, 1,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	8,607.76	337.85
23 81 46 00-0008	EA		3 Ton, 1,200 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	8,776.20	361.98
23 81 46 00-0009	EA		3-1/2 Ton, 1,400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	9,585.63	386.11
23 81 46 00-0010	EA		4 Ton, 1,600 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	10,234.80	410.24
23 81 46 00-0011	EA		5 Ton, 2,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	10,383.22	434.38

23 81 49 Split System Heat Pumps (23 81)

23 81 49 00-0001 Split System Heat Pump (23 81 49)

See CSI section 23 23 16 00-0001 for piping.

23 81 49 00-0002 Air-Cooled, Outdoor Section (23 81 49 00-0001)

Note: Includes 20' length of piping (liquid line and insulated suction line). Excludes additional piping.					
23 81 49 00-0003	EA		1.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	5,047.77	393.36
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			For Low Ambient Protection, 0 Degree F, Add	905.80	
			For Winterstart Control, Add	237.67	
			For 15 SEER, Add	801.32	
			For 16 SEER, Add	1,291.01	
			For 18 SEER, Add	1,958.78	
23 81 49 00-0004	EA		2 Ton, 14 SEER, Outdoor Heat Pump Unit.....	5,200.75	437.06
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			For Low Ambient Protection, 0 Degree F, Add	937.11	
			For Winterstart Control, Add	247.76	
			For 15 SEER, Add	816.94	
			For 16 SEER, Add	1,316.17	
			For 18 SEER, Add	1,996.95	
23 81 49 00-0005	EA		2.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	5,677.68	507.26
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			For Low Ambient Protection, 0 Degree F, Add	1,026.66	
			For Winterstart Control, Add	273.20	
			For 15 SEER, Add	883.71	
			For 16 SEER, Add	1,423.76	
			For 18 SEER, Add	2,160.18	
23 81 49 00-0006	EA		3 Ton, 14 SEER, Outdoor Heat Pump Unit.....	6,193.42	582.75
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			For Low Ambient Protection, 0 Degree F, Add	858.00	
			For Winterstart Control, Add	300.72	
			For 15 SEER, Add	955.88	
			For 16 SEER, Add	1,540.02	
			For 18 SEER, Add	2,336.58	
23 81 49 00-0007	EA		3.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	6,388.86	605.27
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			For Low Ambient Protection, 0 Degree F, Add	885.86	
			For Winterstart Control, Add	310.57	
			For 15 SEER, Add	984.95	
			For 16 SEER, Add	1,586.87	
			For 18 SEER, Add	2,407.67	
23 81 49 00-0008	EA		4 Ton, 14 SEER, Outdoor Heat Pump Unit.....	7,099.56	695.33
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			For Low Ambient Protection, 0 Degree F, Add	981.08	
			For Winterstart Control, Add	343.58	
			For 15 SEER, Add	1,099.12	
			For 16 SEER, Add	1,770.81	
			For 18 SEER, Add	2,686.74	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 49 00-0009	EA	5 Ton, 14 SEER, Outdoor Heat Pump Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add For 15 SEER, Add For 16 SEER, Add For 18 SEER, Add	8,087.46 622.91 179.21 1,259.06 2,028.49 3,077.71	764.86
23 81 49 00-0010	EA	7.5 Ton, 11.5 EER, Outdoor Heat Pump Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add	7,948.39 641.79 189.45	855.29
23 81 49 00-0011	EA	10 Ton, 11.1 EER, Outdoor Heat Pump Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add	10,991.06 447.74 242.08	1,026.34
23 81 49 00-0012	EA	15 Ton, 10.9 EER, Outdoor Heat Pump Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add	14,452.90 507.22 298.11	1,197.40
23 81 49 00-0013	EA	20 Ton, 10.3 EER, Outdoor Heat Pump Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add	25,948.73 538.70 424.40	1,282.93
23 81 49 00-0014		Indoor Section, Horizontal Upflow (23 81 49 00-0001) Note: Electric heat. Includes throwaway filters.		
23 81 49 00-0015	EA	2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,375.87 124.45	130.74
23 81 49 00-0016	EA	2-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,517.61 135.47	162.87
23 81 49 00-0017	EA	3 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,585.93 138.89	196.71
23 81 49 00-0018	EA	3-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	2,135.78 190.52	230.32
23 81 49 00-0019	EA	4 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat For Additional 5 KW Electric Heat, Add	2,194.64 193.47	259.64
23 81 49 00-0020	EA	5 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat For Additional 5 KW Electric Heat, Add	2,434.88 213.69	298.13
23 81 49 00-0021	EA	7-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat For Additional 5 KW Electric Heat, Add	5,188.11 469.94	488.74
23 81 49 00-0022	EA	10 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 kW Electric Heat..... For Additional 5 KW Electric Heat, Add	7,640.26 709.05	549.83
23 81 49 00-0023	EA	15 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15KW Electric Heat For Additional 5 KW Electric Heat, Add	10,710.30 1,009.94	610.92
23 81 49 00-0024	EA	20 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 KW Electric Heat For Additional 5 KW Electric Heat, Add	12,174.97 1,144.18	733.10
23 81 49 00-0025		Ductless Split System Heat Pumps (23 81 49 00-0001) Note: Excludes refrigerant piping, electrical, and pad. Sanyo units or equal. See CSI section 23 81 26 13-0030 for accessories.		
23 81 49 00-0026		Wall Mounted Ductless Split System Heat Pumps (23 81 49 00-0025)		
23 81 49 00-0027	EA	9,000 BTU Cooling, 12,200 BTU Heating, 16 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,840.18	403.20
23 81 49 00-0028	EA	11,900 BTU Cooling, 13,300 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,137.18	439.86
23 81 49 00-0029	EA	17,500 BTU Cooling, 20,400 BTU Heating, 20 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,835.04	488.74
23 81 49 00-0030	EA	24,200 BTU Cooling, 29,000 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,417.33	537.61
23 81 49 00-0031	EA	25,200 BTU Cooling, 29,200 BTU Heating, 14.9 SEER, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,297.97	586.48
23 81 49 00-0032	EA	29,800 BTU Cooling, 34,800 BTU Heating, 15 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	7,309.54	610.92
23 81 49 00-0033	EA	31,400 BTU Cooling, 36,400 BTU Heating, 15.9 SEER, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	8,021.74	651.23
23 81 49 00-0034		Dual and Tri Zone Wall Mounted Ductless Split System Heat Pumps (23 81 49 00-0025)		
		Note: Use this section only when matching indoor and outdoor capacity units are not used.		
23 81 49 00-0035	EA	7,500 BTU Cooling, 8,500 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	1,172.52	195.50
23 81 49 00-0036	EA	9,000 BTU Cooling, 12,200 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	1,236.73	207.72
23 81 49 00-0037	EA	11,900 BTU Cooling, 14,300 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	1,302.06	219.93
23 81 49 00-0038	EA	17,500 BTU Cooling, 20,400 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	1,485.24	232.15
23 81 49 00-0039	EA	24,200 BTU Cooling, 29,000 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	1,583.11	244.37



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Decentralized Unitary HVAC Equipment			23 80	
Decentralized Unitary HVAC Equipment			23 81	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 49 00-0040	EA	19,700 BTU Cooling, 24,800 BTU Heating, 16.4 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes outdoor unit and refrigerant charge.	3,570.36	293.24	
23 81 49 00-0041	EA	23,200 BTU Cooling, 29,200 BTU Heating, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes outdoor unit and refrigerant charge.	4,237.43	317.68	
23 81 49 00-0042	EA	30,600 BTU Cooling, 32,000 BTU Heating, 17.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes outdoor unit and refrigerant charge.	6,909.84	342.11	
23 81 49 00-0043		Suspended Ceiling Mounted Ductless Split System Heat Pumps (23 81 49 00-0025) Note: Excludes hangers.			
23 81 49 00-0044	EA	24,400 BTU Cooling, 30,800 BTU Heating, 14.5 SEER, Ceiling Suspended Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,740.11	586.48	
23 81 49 00-0045	EA	31,200 BTU Cooling, 37,400 BTU Heating, 15.1 SEER, Ceiling Suspended Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	8,180.02	700.11	
23 81 49 00-0046	EA	39,000 BTU Cooling, 44,500 BTU Heating, 15.6 SEER, Ceiling Suspended Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	9,895.27	733.10	
23 81 49 00-0047		Recessed Ceiling Mounted Ductless Split System Heat Pumps (23 81 49 00-0025) Note: Excludes hangers.			
23 81 49 00-0048	EA	11,900 BTU Cooling, 13,600 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,451.12	488.74	
23 81 49 00-0049	EA	17,500 BTU Cooling, 20,400 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,049.11	537.61	
23 81 49 00-0050	EA	24,800 BTU Cooling, 29,800 BTU Heating, 14.1 SEER, Ceiling Recessed Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,693.95	635.35	
23 81 49 00-0051	EA	32,600 BTU Cooling, 37,600 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	7,731.15	700.11	
23 81 49 00-0052	EA	39,500 BTU Cooling, 48,000 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	9,670.83	733.10	
23 82 Convection Heating and Cooling Units (23 80)					
23 82 16 Air Coils (23 82)					
23 82 16 11 Hydronic Air Coils (23 82 16)					
23 82 16 11-0001		Chilled Water Cooling Coils (23 82 16 11) Note: Flanged construction, 16 gauge galvanized steel casing.			
23 82 16 11-0002		2 Row Chilled Water Cooling Coils (23 82 16 11-0001)			
23 82 16 11-0003	EA	12" x 12" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,116.91	60.33	
23 82 16 11-0004	EA	12" x 24" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,527.23	82.05	
23 82 16 11-0005	EA	24" x 30" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,734.17	129.11	
23 82 16 11-0006	EA	24" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,696.13	184.61	
23 82 16 11-0007	EA	30" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,022.44	226.84	
23 82 16 11-0008	EA	30" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,724.73	275.10	
23 82 16 11-0009	EA	30" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	7,187.07	318.54	
23 82 16 11-0010	EA	30" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	7,755.55	562.76	
23 82 16 11-0011	EA	34" x 32" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,863.56	213.93	
23 82 16 11-0012	EA	34" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,205.47	364.27	
23 82 16 11-0013	EA	34" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,934.83	452.48	
23 82 16 11-0014	EA	34" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	7,573.07	546.47	
23 82 16 11-0015	EA	34" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	8,253.11	636.36	
23 82 16 11-0016	SF	>20 SF, Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	416.13	32.08	
23 82 16 11-0017		4 Row Chilled Water Cooling Coils (23 82 16 11-0001)			
23 82 16 11-0018	EA	12" x 12" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,621.34	125.48	
23 82 16 11-0019	EA	12" x 24" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,231.12	180.99	
23 82 16 11-0020	EA	24" x 30" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,738.22	301.65	
23 82 16 11-0021	EA	24" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,976.69	447.65	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0022	EA	30" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	8,048.82	549.01
23 82 16 11-0023	EA	30" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	9,556.55	670.87
23 82 16 11-0024	EA	30" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	10,614.67	804.80
23 82 16 11-0025	EA	30" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	10,297.34	936.80
23 82 16 11-0026	EA	34" x 32" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,575.14	404.33
23 82 16 11-0027	EA	34" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	8,336.26	608.13
23 82 16 11-0028	EA	34" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	9,217.16	754.12
23 82 16 11-0029	EA	34" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	10,241.37	908.58
23 82 16 11-0030	EA	34" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	11,198.72	1,062.17
23 82 16 11-0031 6 Row Chilled Water Cooling Coils (23 82 16 11-0001)				
23 82 16 11-0032	EA	12" x 12" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,714.48	159.27
23 82 16 11-0033	EA	12" x 24" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,344.12	236.49
23 82 16 11-0034	EA	24" x 30" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,860.33	403.00
23 82 16 11-0035	EA	24" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	7,921.51	603.30
23 82 16 11-0036	EA	30" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	10,435.12	754.12
23 82 16 11-0037	EA	30" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	11,810.16	927.88
23 82 16 11-0038	EA	30" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	13,727.65	1,096.80
23 82 16 11-0039	EA	30" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	12,924.10	1,278.15
23 82 16 11-0040	EA	34" x 32" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	8,202.04	552.50
23 82 16 11-0041	EA	34" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	10,420.34	828.69
23 82 16 11-0042	EA	34" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	11,661.36	1,037.68
23 82 16 11-0043	EA	34" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	12,861.18	1,246.55
23 82 16 11-0044	EA	34" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	14,068.94	1,450.22
23 82 16 11-0045 8 Row Chilled Water Cooling Coils (23 82 16 11-0001)				
23 82 16 11-0046	EA	12" x 12" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,648.99	191.85
23 82 16 11-0047	EA	12" x 24" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,644.52	294.41
23 82 16 11-0048	EA	24" x 30" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	8,356.61	524.87
23 82 16 11-0049	EA	24" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	11,009.66	804.80
23 82 16 11-0050	EA	30" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	13,189.35	1,006.31
23 82 16 11-0051	EA	30" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	15,290.02	1,206.61
23 82 16 11-0052	EA	30" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	17,612.12	1,340.54
23 82 16 11-0053	EA	30" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	14,773.50	1,554.95
23 82 16 11-0054	EA	34" x 32" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	9,330.93	673.28
23 82 16 11-0055	EA	34" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	11,882.81	1,012.22
23 82 16 11-0056	EA	34" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	13,319.76	1,260.90
23 82 16 11-0057	EA	34" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	14,680.74	1,508.25
23 82 16 11-0058	EA	34" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	16,113.43	1,774.43
23 82 16 11-0059 Hot Water Heating Coils (23 82 16 11)				
Note: Flanged construction.				
23 82 16 11-0060 1 Row Hot Water Heating Coils (23 82 16 11-0059)				



Heating, Ventilating, and Air-Conditioning (HVAC)			23	
Decentralized Unitary HVAC Equipment			23 80	
Convection Heating and Cooling Units			23 82	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0061	EA	12" x 12" Hot Water Heating Coil, 1 Row Flanged Construction	.....	1,635.74	162.89
		For 10 Fins Per Inch, Add	.....	26.19	
		For 12 Fins Per Inch, Add	.....	65.48	
		For 230 PSIG Heavy-Duty, Add	.....	359.76	
23 82 16 11-0062	EA	12" x 24" Hot Water Heating Coil, 1 Row Flanged Construction	.....	2,440.04	208.74
		For 10 Fins Per Inch, Add	.....	40.48	
		For 12 Fins Per Inch, Add	.....	101.20	
		For 230 PSIG Heavy-Duty, Add	.....	529.62	
23 82 16 11-0063	EA	24" x 30" Hot Water Heating Coil, 1 Row Flanged Construction	.....	2,955.71	287.18
		For 10 Fins Per Inch, Add	.....	47.62	
		For 12 Fins Per Inch, Add	.....	119.06	
		For 230 PSIG Heavy-Duty, Add	.....	648.60	
23 82 16 11-0064	EA	24" x 48" Hot Water Heating Coil, 1 Row Flanged Construction	.....	3,483.18	403.00
		For 10 Fins Per Inch, Add	.....	53.58	
		For 12 Fins Per Inch, Add	.....	133.94	
		For 230 PSIG Heavy-Duty, Add	.....	777.08	
23 82 16 11-0065	EA	30" x 48" Hot Water Heating Coil, 1 Row Flanged Construction	.....	3,941.70	482.65
		For 10 Fins Per Inch, Add	.....	59.53	
		For 12 Fins Per Inch, Add	.....	148.82	
		For 230 PSIG Heavy-Duty, Add	.....	884.87	
23 82 16 11-0066	EA	30" x 60" Hot Water Heating Coil, 1 Row Flanged Construction	.....	4,599.73	603.30
		For 10 Fins Per Inch, Add	.....	67.86	
		For 12 Fins Per Inch, Add	.....	169.66	
		For 230 PSIG Heavy-Duty, Add	.....	1,040.61	
23 82 16 11-0067	EA	30" x 72" Hot Water Heating Coil, 1 Row Flanged Construction	.....	5,150.49	669.67
		For 10 Fins Per Inch, Add	.....	76.20	
		For 12 Fins Per Inch, Add	.....	190.49	
		For 230 PSIG Heavy-Duty, Add	.....	1,164.17	
23 82 16 11-0068	EA	30" x 84" Hot Water Heating Coil, 1 Row Flanged Construction	.....	6,392.07	778.62
		For 10 Fins Per Inch, Add	.....	96.58	
		For 12 Fins Per Inch, Add	.....	241.46	
		For 230 PSIG Heavy-Duty, Add	.....	1,434.71	
23 82 16 11-0069	EA	34" x 32" Hot Water Heating Coil, 1 Row Flanged Construction	.....	2,759.81	337.37
		For 10 Fins Per Inch, Add	.....	41.70	
		For 12 Fins Per Inch, Add	.....	104.25	
		For 230 PSIG Heavy-Duty, Add	.....	619.45	
23 82 16 11-0070	EA	34" x 48" Hot Water Heating Coil, 1 Row Flanged Construction	.....	4,139.68	506.17
		For 10 Fins Per Inch, Add	.....	62.55	
		For 12 Fins Per Inch, Add	.....	156.37	
		For 230 PSIG Heavy-Duty, Add	.....	929.16	
23 82 16 11-0071	EA	34" x 72" Hot Water Heating Coil, 1 Row Flanged Construction	.....	6,222.40	765.59
		For 10 Fins Per Inch, Add	.....	93.82	
		For 12 Fins Per Inch, Add	.....	234.56	
		For 230 PSIG Heavy-Duty, Add	.....	1,397.60	
23 82 16 11-0072	EA	34" x 84" Hot Water Heating Coil, 1 Row Flanged Construction	.....	7,247.41	887.22
		For 10 Fins Per Inch, Add	.....	109.46	
		For 12 Fins Per Inch, Add	.....	273.65	
		For 230 PSIG Heavy-Duty, Add	.....	1,626.92	
23 82 16 11-0073	SF	>15 SF Hot Water Heating Coil, 1 Row, Flanged Construction	.....	328.96	44.64
		For 10 Fins Per Inch, Add	.....	4.79	
		For 12 Fins Per Inch, Add	.....	11.98	
		For 230 PSIG Heavy-Duty, Add	.....	74.72	
23 82 16 11-0074 2 Row Hot Water Heating Coils (23 82 16 11-0059)					
23 82 16 11-0075	EA	12" x 12" Hot Water Heating Coil, 2 Row Flanged Construction	.....	2,664.29	201.50
		For 10 Fins Per Inch, Add	.....	45.24	
		For 12 Fins Per Inch, Add	.....	113.10	
		For 230 PSIG Heavy-Duty, Add	.....	573.08	
23 82 16 11-0076	EA	12" x 24" Hot Water Heating Coil, 2 Row Flanged Construction	.....	2,857.88	267.86
		For 10 Fins Per Inch, Add	.....	46.43	
		For 12 Fins Per Inch, Add	.....	116.08	
		For 230 PSIG Heavy-Duty, Add	.....	625.20	
23 82 16 11-0077	EA	24" x 30" Hot Water Heating Coil, 2 Row Flanged Construction	.....	3,840.35	403.00
		For 10 Fins Per Inch, Add	.....	60.72	
		For 12 Fins Per Inch, Add	.....	151.80	
		For 230 PSIG Heavy-Duty, Add	.....	848.51	
23 82 16 11-0078	EA	24" x 48" Hot Water Heating Coil, 2 Row Flanged Construction	.....	4,601.80	574.34
		For 10 Fins Per Inch, Add	.....	69.05	
		For 12 Fins Per Inch, Add	.....	172.63	
		For 230 PSIG Heavy-Duty, Add	.....	1,035.28	
23 82 16 11-0079	EA	30" x 48" Hot Water Heating Coil, 2 Row Flanged Construction	.....	5,288.89	709.48
		For 10 Fins Per Inch, Add	.....	77.39	
		For 12 Fins Per Inch, Add	.....	193.47	
		For 230 PSIG Heavy-Duty, Add	.....	1,199.73	
23 82 16 11-0080	EA	30" x 60" Hot Water Heating Coil, 2 Row Flanged Construction	.....	5,593.07	861.52
		For 10 Fins Per Inch, Add	.....	77.39	
		For 12 Fins Per Inch, Add	.....	193.47	
		For 230 PSIG Heavy-Duty, Add	.....	1,290.99	
23 82 16 11-0081	EA	30" x 72" Hot Water Heating Coil, 2 Row Flanged Construction	.....	6,297.06	1,006.31
		For 10 Fins Per Inch, Add	.....	85.72	
		For 12 Fins Per Inch, Add	.....	214.30	
		For 230 PSIG Heavy-Duty, Add	.....	1,460.51	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0082 EA 30" x 84" Hot Water Heating Coil, 2 Row Flanged Construction.....	7,771.15	1,169.20
For 10 Fins Per Inch, Add	108.66	
For 12 Fins Per Inch, Add	271.64	
For 230 PSIG Heavy-Duty, Add	1,788.07	
23 82 16 11-0083 EA 34" x 32" Hot Water Heating Coil, 2 Row Flanged Construction.....	3,354.42	504.48
For 10 Fins Per Inch, Add	46.91	
For 12 Fins Per Inch, Add	117.28	
For 230 PSIG Heavy-Duty, Add	771.77	
23 82 16 11-0084 EA 34" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	5,034.18	757.87
For 10 Fins Per Inch, Add	70.37	
For 12 Fins Per Inch, Add	175.92	
For 230 PSIG Heavy-Duty, Add	1,158.42	
23 82 16 11-0085 EA 34" x 72" Hot Water Heating Coil, 2 Row Flanged Construction.....	7,562.75	1,142.65
For 10 Fins Per Inch, Add	105.55	
For 12 Fins Per Inch, Add	263.88	
For 230 PSIG Heavy-Duty, Add	1,741.07	
23 82 16 11-0086 EA 34" x 84" Hot Water Heating Coil, 2 Row Flanged Construction.....	8,826.64	1,334.75
For 10 Fins Per Inch, Add	123.14	
For 12 Fins Per Inch, Add	307.86	
For 230 PSIG Heavy-Duty, Add	2,032.28	

23 82 16 11-0087 Hot Water Preheat Coils For Multi-Zone Air Handling Units (23 82 16 11)

Note: 2 Row coils. Coils are sized by air handling unit capacity.

23 82 16 11-0088 EA 3,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	2,168.71	153.24
23 82 16 11-0089 EA 4,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	2,787.80	152.04
23 82 16 11-0090 EA 5,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,427.54	162.89
23 82 16 11-0091 EA 6,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,986.12	177.37
23 82 16 11-0092 EA 7,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	4,002.49	185.82
23 82 16 11-0093 EA 9,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	4,853.86	195.47
23 82 16 11-0094 EA 11,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	5,022.45	219.61
23 82 16 11-0095 EA 13,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	5,552.40	246.15
23 82 16 11-0096 EA 16,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	6,243.79	294.41
23 82 16 11-0097 EA 19,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	6,809.72	308.89
23 82 16 11-0098 EA 22,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	8,748.07	326.99
23 82 16 11-0099 EA 27,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	11,132.66	447.65
23 82 16 11-0100 EA 34,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	13,990.77	549.01
23 82 16 11-0101 EA 40,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	16,318.37	574.34
23 82 16 11-0102 EA 47,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	19,169.43	669.67

23 82 16 12 Steam Air Coils (23 82 16)**23 82 16 12-0001 Steam Heating Coils (23 82 16 12)**

Note: Flanged construction.

23 82 16 12-0002 EA 12" x 12" Steam Heating Coils, 1 Row Flanged Construction.....	2,585.87	113.42
For 2 Row Coil, Add	820.87	
For 4 Row Coil, Add	2,165.68	
23 82 16 12-0003 EA 12" x 24" Steam Heating Coils, 1 Row Flanged Construction.....	2,842.32	156.86
For 2 Row Coil, Add	915.38	
For 4 Row Coil, Add	2,408.62	
23 82 16 12-0004 EA 24" x 30" Steam Heating Coils, 1 Row Flanged Construction.....	3,680.22	281.13
For 2 Row Coil, Add	1,216.31	
For 4 Row Coil, Add	3,185.50	
23 82 16 12-0005 EA 24" x 48" Steam Heating Coils, 1 Row Flanged Construction.....	4,597.79	403.00
For 2 Row Coil, Add	1,540.22	
For 4 Row Coil, Add	4,024.12	
23 82 16 12-0006 EA 30" x 48" Steam Heating Coils, 1 Row Flanged Construction.....	5,095.86	482.65
For 2 Row Coil, Add	1,721.81	
For 4 Row Coil, Add	4,491.76	
23 82 16 12-0007 EA 30" x 60" Steam Heating Coils, 1 Row Flanged Construction.....	5,674.38	603.30
For 2 Row Coil, Add	1,943.64	
For 4 Row Coil, Add	5,058.35	
23 82 16 12-0008 EA 30" x 72" Steam Heating Coils, 1 Row Flanged Construction.....	6,229.93	669.67
For 2 Row Coil, Add	2,137.11	
For 4 Row Coil, Add	5,560.43	
23 82 16 12-0009 EA 30" x 84" Steam Heating Coils, 1 Row Flanged Construction.....	7,760.27	781.51
For 2 Row Coil, Add	2,640.67	
For 4 Row Coil, Add	6,880.28	
23 82 16 12-0010 EA 34" x 32" Steam Heating Coils, 1 Row Flanged Construction.....	3,350.52	337.37
For 2 Row Coil, Add	1,140.12	
For 4 Row Coil, Add	2,970.59	
23 82 16 12-0011 EA 34" x 48" Steam Heating Coils, 1 Row Flanged Construction.....	5,025.79	506.17
For 2 Row Coil, Add	1,710.19	
For 4 Row Coil, Add	4,455.90	
23 82 16 12-0012 EA 34" x 72" Steam Heating Coils, 1 Row Flanged Construction.....	7,536.10	757.87
For 2 Row Coil, Add	2,564.00	
For 4 Row Coil, Add	6,680.69	
23 82 16 12-0013 EA 34" x 84" Steam Heating Coils, 1 Row Flanged Construction.....	8,798.08	887.22
For 2 Row Coil, Add	2,994.31	
For 4 Row Coil, Add	7,801.46	

23 82 16 13 Refrigerant Air Coils (23 82 16)



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Decentralized Unitary HVAC Equipment			23 80
Convection Heating and Cooling Units			23 82



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
23 82 16 13-0001	Direct Expansion Cooling Coils ^(23 82 16 13) Note: Flanged construction 16 gauge galvanized steel casing.				
23 82 16 13-0002	2 Row Direct Expansion Cooling Coils ^(23 82 16 13-0001)				
23 82 16 13-0003	EA 12" x 12" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	2,030.62 36.98 92.46		90.50	
23 82 16 13-0004	EA 12" x 24" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	3,947.14 73.97 184.92		124.28	
23 82 16 13-0005	EA 24" x 30" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	5,424.13 100.70 251.75		195.47	
23 82 16 13-0006	EA 24" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	6,511.54 119.01 297.52		281.13	
23 82 16 13-0007	EA 30" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	7,555.25 137.32 343.29		343.88	
23 82 16 13-0008	EA 30" x 60" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	8,430.26 151.96 379.91		416.27	
23 82 16 13-0009	EA 30" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	9,661.92 173.93 434.83		482.65	
23 82 16 13-0010	EA 30" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	12,148.96 220.47 551.17		562.76	
23 82 16 13-0011	EA 34" x 32" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	4,665.91 84.76 211.90		213.93	
23 82 16 13-0012	EA 34" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	5,961.38 104.66 261.64		364.27	
23 82 16 13-0013	EA 34" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	7,284.31 123.83 309.57		546.47	
23 82 16 13-0014	EA 34" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	7,941.86 133.38 333.45		636.36	
23 82 16 13-0015	4 Row Direct Expansion Cooling Coils ^(23 82 16 13-0001)				
23 82 16 13-0016	EA 12" x 12" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	3,391.32 62.80 157.00		125.48	
23 82 16 13-0017	EA 12" x 24" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	4,845.81 89.71 224.28		180.99	
23 82 16 13-0018	EA 24" x 30" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	6,553.63 119.01 297.52		301.65	
23 82 16 13-0019	EA 24" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	7,942.64 140.98 352.44		447.65	
23 82 16 13-0020	EA 30" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	9,152.75 161.12 402.79		549.01	
23 82 16 13-0021	EA 30" x 60" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	10,861.20 190.41 476.03		670.87	
23 82 16 13-0022	EA 30" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	12,044.77 208.72 521.80		804.80	
23 82 16 13-0023	EA 30" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	11,635.00 195.23 488.07		936.80	
23 82 16 13-0024	EA 34" x 32" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	7,490.83 133.64 334.11		404.33	
23 82 16 13-0025	EA 34" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	9,466.88 165.01 412.53		608.13	
23 82 16 13-0026	EA 34" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	14,162.05 240.45 601.13		1,069.66	
23 82 16 13-0027	EA 34" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	16,195.82 274.06 685.14		1,246.55	

23 82 16 13-0028 6 Row Direct Expansion Cooling Coils^(23 82 16 13-0001)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 13-0029	EA	12" x 12" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,345.45	158.07
		For 10 Fins Per Inch, Add	80.56	
		For 12 Fins Per Inch, Add	201.40	
23 82 16 13-0030	EA	12" x 24" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,958.81	236.49
		For 10 Fins Per Inch, Add	89.71	
		For 12 Fins Per Inch, Add	224.28	
23 82 16 13-0031	EA	24" x 30" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,120.91	403.00
		For 10 Fins Per Inch, Add	126.33	
		For 12 Fins Per Inch, Add	315.83	
23 82 16 13-0032	EA	24" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	8,987.81	603.30
		For 10 Fins Per Inch, Add	155.62	
		For 12 Fins Per Inch, Add	389.06	
23 82 16 13-0033	EA	30" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	11,852.67	754.12
		For 10 Fins Per Inch, Add	206.89	
		For 12 Fins Per Inch, Add	517.22	
23 82 16 13-0034	EA	30" x 60" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	13,390.80	927.88
		For 10 Fins Per Inch, Add	230.69	
		For 12 Fins Per Inch, Add	576.72	
23 82 16 13-0035	EA	30" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	15,559.18	1,096.80
		For 10 Fins Per Inch, Add	267.31	
		For 12 Fins Per Inch, Add	668.27	
23 82 16 13-0036	EA	30" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	14,570.46	1,278.15
		For 10 Fins Per Inch, Add	240.28	
		For 12 Fins Per Inch, Add	600.71	
23 82 16 13-0037	EA	34" x 32" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	9,329.03	552.50
		For 10 Fins Per Inch, Add	164.48	
		For 12 Fins Per Inch, Add	411.20	
23 82 16 13-0038	EA	34" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	11,811.86	828.69
		For 10 Fins Per Inch, Add	203.09	
		For 12 Fins Per Inch, Add	507.72	
23 82 16 13-0039	EA	34" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	14,487.19	1,236.28
		For 10 Fins Per Inch, Add	240.29	
		For 12 Fins Per Inch, Add	600.73	
23 82 16 13-0040	EA	34" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	15,842.45	1,450.22
		For 10 Fins Per Inch, Add	258.84	
		For 12 Fins Per Inch, Add	647.10	
23 82 16 13-0041		8 Row Direct Expansion Cooling Coils (23 82 16 13-0001)		
23 82 16 13-0042	EA	12" x 12" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,417.95	190.65
		For 10 Fins Per Inch, Add	100.70	
		For 12 Fins Per Inch, Add	251.75	
23 82 16 13-0043	EA	12" x 24" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,447.38	294.41
		For 10 Fins Per Inch, Add	117.18	
		For 12 Fins Per Inch, Add	292.94	
23 82 16 13-0044	EA	24" x 30" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	9,517.00	524.87
		For 10 Fins Per Inch, Add	169.36	
		For 12 Fins Per Inch, Add	423.39	
23 82 16 13-0045	EA	24" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	12,502.49	804.80
		For 10 Fins Per Inch, Add	217.87	
		For 12 Fins Per Inch, Add	544.68	
23 82 16 13-0046	EA	30" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	14,964.43	1,006.31
		For 10 Fins Per Inch, Add	259.07	
		For 12 Fins Per Inch, Add	647.67	
23 82 16 13-0047	EA	30" x 60" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	17,334.81	1,206.61
		For 10 Fins Per Inch, Add	298.43	
		For 12 Fins Per Inch, Add	746.08	
23 82 16 13-0048	EA	30" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	19,983.08	1,340.54
		For 10 Fins Per Inch, Add	346.03	
		For 12 Fins Per Inch, Add	865.09	
23 82 16 13-0049	EA	30" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	16,625.65	1,554.95
		For 10 Fins Per Inch, Add	270.32	
		For 12 Fins Per Inch, Add	675.79	
23 82 16 13-0050	EA	34" x 32" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	10,598.80	673.28
		For 10 Fins Per Inch, Add	185.04	
		For 12 Fins Per Inch, Add	462.61	
23 82 16 13-0051	EA	34" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	13,448.27	1,012.22
		For 10 Fins Per Inch, Add	228.48	
		For 12 Fins Per Inch, Add	571.19	
23 82 16 13-0052	EA	34" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	16,563.45	1,523.46
		For 10 Fins Per Inch, Add	270.33	
		For 12 Fins Per Inch, Add	675.82	
23 82 16 13-0053	EA	34" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	18,108.65	1,774.43
		For 10 Fins Per Inch, Add	291.20	
		For 12 Fins Per Inch, Add	727.99	
23 82 16 14		Electric-Resistance Air Coils (23 82 16)		
23 82 16 14-0001		Standard Electric Slip-In Blast Coil Heater (23 82 16 14)		
23 82 16 14-0002		Electric Slip-In Blast Coil Heater With Open Coil Element (23 82 16 14-0001)		
23 82 16 14-0003	EA	1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	619.38	94.08
23 82 16 14-0004	EA	1 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	635.04	101.41
23 82 16 14-0005	EA	2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	653.55	111.19

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Convection Heating and Cooling Units

23 82

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 14-0006	EA	3 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	659.78	114.86
23 82 16 14-0007	EA	4 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	675.77	122.18
23 82 16 14-0008	EA	5 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	694.16	131.96
23 82 16 14-0009	EA	6 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	800.65	147.84
23 82 16 14-0010	EA	7 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	815.55	155.17
23 82 16 14-0011	EA	8 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	827.77	160.06
23 82 16 14-0012	EA	9 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	845.63	169.84
23 82 16 14-0013	EA	10 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	927.22	179.61
23 82 16 14-0014	EA	12-1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	962.00	196.71
23 82 16 14-0015	EA	15 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	996.57	213.82
23 82 16 14-0016	EA	20 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,033.33	230.93
23 82 16 14-0017	EA	30 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,439.57	322.56
23 82 16 14-0018	EA	40 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	2,628.49	343.34
23 82 16 14-0019	EA	50 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	2,885.06	393.43
23 82 16 14-0020	EA	60 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	3,416.11	436.19
23 82 16 14-0021	EA	70 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	3,580.03	474.07
23 82 16 14-0022	EA	80 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	3,922.51	520.50
23 82 16 14-0023	EA	90 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	4,839.66	555.94
23 82 16 14-0024	EA	100 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	5,320.27	597.48
23 82 16 14-0025	EA	125 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	6,479.98	645.12
23 82 16 14-0026	EA	150 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	7,304.51	701.33
23 82 16 14-0027 Electric Slip-In Blast Coil Heater With Finned Tubular Element (23 82 16 14-0001)				
23 82 16 14-0028	EA	1 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,033.50	134.40
23 82 16 14-0029	EA	2 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,064.28	146.62
23 82 16 14-0030	EA	3 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,076.73	146.62
23 82 16 14-0031	EA	4 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,163.65	161.28
23 82 16 14-0032	EA	5 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,215.93	161.28
23 82 16 14-0033	EA	6 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,243.76	161.28
23 82 16 14-0034	EA	8 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,305.27	179.61
23 82 16 14-0035	EA	9 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,360.54	201.61
23 82 16 14-0036	EA	10 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,388.37	201.61
23 82 16 14-0037	EA	15 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,562.92	230.93
23 82 16 14-0038	EA	20 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,007.63	230.93
23 82 16 14-0039	EA	25 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,131.85	250.48
23 82 16 14-0040	EA	30 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,511.30	268.81
23 82 16 14-0041	EA	40 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,989.87	268.81
23 82 16 14-0042	EA	45 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	3,264.30	281.02
23 82 16 14-0043	EA	50 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	3,430.23	281.02
23 82 19 Fan Coil Units (23 82)				
23 82 19 00-0001 Ceiling Suspended Horizontal Fan Coil Units (23 82 19)				
Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds. Excludes supports.				
23 82 19 00-0002 Horizontal Fan Coil Units With Electric Heating Coil (23 82 19 00-0001)				
23 82 19 00-0003	EA	200 CFM, 6 MBH Cooling, Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,943.88	195.47
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-54.46	
23 82 19 00-0004	EA	300 CFM, 9 MBH Cooling, Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,343.20	228.05
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-57.77	
23 82 19 00-0005	EA	400 CFM, 12 MBH Cooling, Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,978.91	257.01
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-60.67	
23 82 19 00-0006	EA	600 CFM, 18 MBH Cooling, Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	4,573.86	294.41
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-64.43	
23 82 19 00-0007	EA	800 CFM, 24 MBH Cooling, Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	5,181.59	308.89
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-111.41	
23 82 19 00-0008	EA	1,000 CFM, 30 MBH Cooling, Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	6,716.74	326.99
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-113.92	
23 82 19 00-0009	EA	1,200 CFM, 36 MBH Cooling, Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	7,929.42	354.75
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-118.23	
23 82 19 00-0010 Horizontal Fan Coil Units With Hot Water Heating Coil (23 82 19 00-0001)				
23 82 19 00-0011	EA	200 CFM, 6 MBH Cooling, Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	4,364.54	195.47
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-54.46	
23 82 19 00-0012	EA	300 CFM, 9 MBH Cooling, Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	4,907.68	228.05
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-57.77	
23 82 19 00-0013	EA	400 CFM, 12 MBH Cooling, Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	6,078.88	257.01
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-60.67	
23 82 19 00-0014	EA	600 CFM, 18 MBH Cooling, Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	6,565.25	294.41
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-64.43	
23 82 19 00-0015	EA	800 CFM, 24 MBH Cooling, Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	7,006.66	310.10
		For 2-Way Valve Instead Of 3-Way, Deduct.....	-111.41	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 19 00-0016	EA	1,000 CFM, 30 MBH Cooling, Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	9,397.54	326.99
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-113.92	
23 82 19 00-0017	EA	1,200 CFM, 36 MBH Cooling, Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	11,045.63	354.75
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-118.23	
23 82 19 00-0018	EA	1,400 CFM, 42 MBH Cooling, Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	11,786.16	368.02
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-120.20	
23 82 19 00-0019	EA	1,600 CFM, 48 MBH Cooling, Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	13,179.61	383.09
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-122.47	
23 82 19 00-0020	EA	1,800 CFM, 54 MBH Cooling, Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	14,188.44	398.18
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-124.73	
23 82 19 00-0021		Floor Mounted Vertical Fan Coil Units (23 82 19) Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds.		
23 82 19 00-0022		Vertical Fan Coil Units With Electric Heating Coil (23 82 19 00-0021)		
23 82 19 00-0023	EA	200 CFM, 6 MBH Cooling, Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,832.81	194.26
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-386.00	
		<i>For Thru-Wall Sleeve, Add</i>	132.85	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-54.46	
23 82 19 00-0024	EA	300 CFM, 9 MBH Cooling, Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,232.12	228.05
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-439.29	
		<i>For Thru-Wall Sleeve, Add</i>	146.07	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-57.77	
23 82 19 00-0025	EA	400 CFM, 12 MBH Cooling, Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,845.60	257.01
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-525.50	
		<i>For Thru-Wall Sleeve, Add</i>	157.69	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-60.67	
23 82 19 00-0026	EA	600 CFM, 18 MBH Cooling, Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	4,420.57	294.41
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-604.23	
		<i>For Thru-Wall Sleeve, Add</i>	172.72	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-64.43	
23 82 19 00-0027	EA	800 CFM, 24 MBH Cooling, Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	5,006.10	310.10
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-689.04	
		<i>For Thru-Wall Sleeve, Add</i>	178.75	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-111.41	
23 82 19 00-0028	EA	1,000 CFM, 30 MBH Cooling, Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	6,483.48	326.99
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-907.30	
		<i>For Thru-Wall Sleeve, Add</i>	185.44	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-113.92	
23 82 19 00-0029	EA	1,200 CFM, 36 MBH Cooling, Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	7,651.74	354.75
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-1,076.79	
		<i>For Thru-Wall Sleeve, Add</i>	196.95	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-118.23	
23 82 19 00-0030		Vertical Fan Coil Units With Hot Water Heating Coil (23 82 19 00-0021)		
23 82 19 00-0031	EA	200 CFM, 6 MBH Cooling, Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	4,191.55	194.26
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-589.81	
		<i>For Thru-Wall Sleeve, Add</i>	132.85	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-54.46	
23 82 19 00-0032	EA	300 CFM, 9 MBH Cooling, Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	4,713.92	228.05
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-661.56	
		<i>For Thru-Wall Sleeve, Add</i>	146.07	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-57.77	
23 82 19 00-0033	EA	400 CFM, 12 MBH Cooling, Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	5,836.69	257.01
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-824.16	
		<i>For Thru-Wall Sleeve, Add</i>	157.69	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-60.67	
23 82 19 00-0034	EA	600 CFM, 18 MBH Cooling, Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	6,672.30	294.41
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-941.99	
		<i>For Thru-Wall Sleeve, Add</i>	172.72	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-64.43	
23 82 19 00-0035	EA	800 CFM, 24 MBH Cooling, Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	7,462.94	310.10
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-1,057.56	
		<i>For Thru-Wall Sleeve, Add</i>	178.75	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-111.41	
23 82 19 00-0036	EA	1,000 CFM, 30 MBH Cooling, Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	9,017.31	326.99
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-1,287.38	
		<i>For Thru-Wall Sleeve, Add</i>	185.44	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-113.92	
23 82 19 00-0037	EA	1,200 CFM, 36 MBH Cooling, Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	10,595.78	354.75
		<i>For Fan Coil Units Without Cabinet, Deduct</i>	-1,518.39	
		<i>For Thru-Wall Sleeve, Add</i>	196.95	
		<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-118.23	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Decentralized Unitary HVAC Equipment			23 80	
Convection Heating and Cooling Units			23 82	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 19 00-0038	EA	1,400 CFM, 42 MBH Cooling, Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	11,628.90	368.02
		For Fan Coil Units Without Cabinet, Deduct	-1,670.73	
		For Thru-Wall Sleeve, Add	202.21	
		For 2-Way Valve Instead Of 3-Way, Deduct	-120.20	
23 82 19 00-0039	EA	1,600 CFM, 48 MBH Cooling, Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	12,865.09	383.09
		For Fan Coil Units Without Cabinet, Deduct	-1,853.14	
		For Thru-Wall Sleeve, Add	208.24	
		For 2-Way Valve Instead Of 3-Way, Deduct	-122.47	
23 82 19 00-0040	EA	1,800 CFM, 54 MBH Cooling, Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	13,729.91	383.09
		For Fan Coil Units Without Cabinet, Deduct	-1,979.85	
		For Thru-Wall Sleeve, Add	214.27	
		For 2-Way Valve Instead Of 3-Way, Deduct	-124.73	
23 82 19 00-0041		Removal And Reinstallation Of Fan Coil Units (23 82 19)		
		Note: Includes storage and cleaning. Excludes supports.		
23 82 19 00-0042	EA	Removal And Reinstallation Of Fan Coil Unit Horizontal Or Vertical	513.02	
23 82 19 00-0043		Fan Coil Units (Carrier) (23 82 19)		
		Note: Provide Pre-Manufactured Or Field Fabricated Filter Rack With 2" Merv 13, Pleated Throwaway Filters. Disconnect Switch Provided By Division 26 Contractor. Suspend Unit From Structure In Horizontal Position With All -Thread Rod And Spring Vibration Isolation (2" Minimum Deflection). Provide Necessary Mounting Bracket And Accessories For Specified Mounting. Provide Auxiliary Drain Pan With Auxiliary Drain Provided By Plumbing Contractor. Provide Unit With Space Temperature Control Devices Consistent With The Following Control Methods: Thermostat Or Room Controller For Local Override Of Centralized Controller With Integral Temperature Sensor. Temperature Sensor Without Local Override. Thermostat Or Room Controller For Local Override Of Centralized Controller With Remote Temperature Sensor. Fan Coil Unit With Integral Temperature Sensor In Return Airstream Without Local Override (Factory Default Setting).		
23 82 19 00-0044	EA	450 To 500 CFM, 12.1 To 14.2 MBH Cooling, Deck Mount, Fan Coil Unit (Carrier MMD-AP0184BH2UL-1).....	2,179.47	257.01
23 82 19 00-0045	EA	1,200 CFM, 33.3 To 39.5 MBH Cooling, Floor Mount, Fan Coil Unit (Carrier MMD-AP0360VHG2UL)	3,780.67	354.75
		For Filter Box With 2" MERV 8 Filter (Carrier TCB-FB2F361VDGUL), Add	308.93	
23 82 19 00-0046	EA	150 To 230 CFM, 3.9 To 7.5 MBH Cooling, Wall Mount, Fan Coil Unit (Carrier MMK-AP0073H2UL).....	1,176.27	195.47
		For Filter Boxes For Toshiba (Carrier) High Static, Medium Static, OSA Units, and Slim Duct (Carrier FS-SPBH202), Add 509.37		
23 82 19 00-0047	EA	470 CFM, 15.8 MBH Cooling, Wall Mount, Fan Coil Unit (Carrier MMK-AP0183H2UL).....	1,361.89	228.05
		For Filter Boxes For Toshiba (Carrier) High Static, Medium Static, OSA Units, and Slim Duct (Carrier FS-SPBH202), Add 509.37		
23 82 19 00-0048	EA	Single Port Flow Selector (Carrier RBM-Y0963FUL).....	1,319.93	283.91
23 82 19 00-0049	EA	Multiport Flow Selector 4-Branch Unit (Carrier RBM-Y0611F4PUL).....	4,030.44	371.27
23 82 19 00-0050	EA	Y-Branch For Heat Recovery, 61-135k BTU (Carrier RBM-BY105FUL).....	209.51	42.23
23 82 19 00-0051	EA	Y-Branch For Heat Recovery, 136-238k BTU (Carrier RBM-BY205FUL).....	287.26	45.24
23 82 19 00-0052	EA	12 MBH, Ductless Variable Flow (VRF), Wall Mounted, Indoor Heat Pump (Carrier MMK-AP0123H2UL)	1,129.79	195.47
23 82 19 00-0053	EA	Single Port Flow Selector (Carrier RBM-Y0383FUL).....	3,302.73	283.91
23 82 19 00-0054	EA	Outdoor Heat Recovery Connection (Carrier RBM-BT14FUL)	453.92	42.23
23 82 29		Radiators (23 82)		
23 82 29 00-0001		Demolish Cast Iron Radiators (23 82 29)		
23 82 29 00-0002	LF	Demolish Cast Iron Radiator.....	36.19	
23 82 29 00-0003	EA	Cap Radiator.....	58.98	
23 82 29 00-0004		Cast Iron Radiator (23 82 29)		
23 82 29 00-0005	EA	19" High Cast Iron Radiator Section, Free Standing.....	57.45	
		For Wall Support Bracket, Add	29.30	
23 82 29 00-0006	EA	25" High Cast Iron Radiator Section, Free Standing.....	81.87	
		For Wall Support Bracket, Add	30.87	
23 82 29 00-0007	EA	30" High Cast Iron Radiator Section, Free Standing.....	95.38	
23 82 29 00-0008	EA	36" High Cast Iron Radiator Section, Free Standing.....	120.38	
23 82 29 00-0009	EA	20" High Cast Iron Radiator Section, Recessed With Grille.....	79.43	
23 82 29 00-0010		Radiator Covers (23 82 29)		
		Note: Includes field cutouts, vent grilles, and insulation backing. To calculate quantity, measure the surface area of front, top and sides.		
23 82 29 00-0011	SF	14 Gauge Stainless Steel Radiator Cover	140.48	6.63
23 82 29 00-0012	SF	Primed And Painted, Galvanized Steel Radiator Cover.....	87.47	6.63
23 82 29 00-0013		Radiator Shields (23 82 29)		
23 82 29 00-0014	SF	Stainless Steel Radiator Shield.....	76.91	6.63
23 82 29 00-0015	SF	Primed And Painted, Galvanized Steel Radiator Shield	48.07	6.63
23 82 29 00-0016		Removal And Reinstallation Of Radiator (23 82 29)		
		Note: Includes storage and cleaning.		
23 82 29 00-0017	LF	Removal And Reinstallation Of Cast Iron Radiator.....	90.50	
23 82 29 00-0018	LF	Removal And Reinstallation Of Electric Radiator.....	60.33	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
23 82 33	Convectors ^(23 82)				
23 82 33 00-0001	Multi-Fin Convectors For Two-Pipe System ^(23 82 33) Note: Complete with 6-1/4" deep cabinet enclosure.				
23 82 33 00-0002	20" High Multi-Fin Convectors For Two-Pipe System ^(23 82 33 00-0001)				
23 82 33 00-0003	EA 20" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	646.71		132.72	
	For Metal Trim Strips, Add	66.33			
	For Snap-On Inlet Grille, Add	50.22			
	For Access Doors Hinged, Add	15.00			
	For Air Chamber, Auto-vent, Add	18.00			
	For 3 Tubes System, Add	155.96			
	For Knob Operated Damper, Add	15.00			
23 82 33 00-0004	EA 20" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	764.02		144.80	
	For Metal Trim Strips, Add	71.81			
	For Snap-On Inlet Grille, Add	53.88			
	For Access Doors Hinged, Add	15.00			
	For Air Chamber, Auto-vent, Add	18.00			
	For 3 Tubes System, Add	190.62			
	For Knob Operated Damper, Add	15.00			
23 82 33 00-0005	EA 20" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	878.27		171.34	
	For Metal Trim Strips, Add	83.81			
	For Snap-On Inlet Grille, Add	61.87			
	For Access Doors Hinged, Add	15.00			
	For Air Chamber, Auto-vent, Add	18.00			
	For 3 Tubes System, Add	216.62			
	For Knob Operated Damper, Add	15.00			
23 82 33 00-0006	EA 20" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,052.69		199.09	
	For Metal Trim Strips, Add	96.49			
	For Snap-On Inlet Grille, Add	70.32			
	For Access Doors Hinged, Add	15.00			
	For Air Chamber, Auto-vent, Add	18.00			
	For 3 Tubes System, Add	262.87			
	For Knob Operated Damper, Add	15.00			
23 82 33 00-0007	EA 20" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,255.08		238.91	
	For Metal Trim Strips, Add	114.57			
	For Snap-On Inlet Grille, Add	82.38			
	For Access Doors Hinged, Add	15.00			
	For Air Chamber, Auto-vent, Add	18.00			
	For 3 Tubes System, Add	312.61			
	For Knob Operated Damper, Add	15.00			
23 82 33 00-0008	EA 20" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,413.02		262.80	
	For Metal Trim Strips, Add	125.42			
	For Snap-On Inlet Grille, Add	89.61			
	For Access Doors Hinged, Add	15.00			
	For Air Chamber, Auto-vent, Add	18.00			
	For 3 Tubes System, Add	355.24			
	For Knob Operated Damper, Add	15.00			
23 82 33 00-0009	EA 20" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,639.54		318.54	
	For Metal Trim Strips, Add	150.74			
	For Snap-On Inlet Grille, Add	106.50			
	For Access Doors Hinged, Add	15.00			
	For Air Chamber, Auto-vent, Add	18.00			
	For 3 Tubes System, Add	404.97			
	For Knob Operated Damper, Add	15.00			
23 82 33 00-0010	EA 20" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,791.51		338.45	
	For Metal Trim Strips, Add	159.80			
	For Snap-On Inlet Grille, Add	112.53			
	For Access Doors Hinged, Add	15.00			
	For Air Chamber, Auto-vent, Add	18.00			
	For 3 Tubes System, Add	447.60			
	For Knob Operated Damper, Add	15.00			
23 82 33 00-0011	EA 20" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,953.28		378.27	
	For Metal Trim Strips, Add	177.88			
	For Snap-On Inlet Grille, Add	124.59			
	For Access Doors Hinged, Add	15.00			
	For Air Chamber, Auto-vent, Add	18.00			
	For 3 Tubes System, Add	483.12			
	For Knob Operated Damper, Add	15.00			
23 82 33 00-0012	EA 20" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,155.76		418.09	
	For Metal Trim Strips, Add	196.00			
	For Snap-On Inlet Grille, Add	136.66			
	For Access Doors Hinged, Add	15.00			
	For Air Chamber, Auto-vent, Add	18.00			
	For 3 Tubes System, Add	532.85			
	For Knob Operated Damper, Add	15.00			
23 82 33 00-0013	EA 20" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,317.55		457.90	
	For Metal Trim Strips, Add	214.08			
	For Snap-On Inlet Grille, Add	148.72			
	For Access Doors Hinged, Add	15.00			
	For Air Chamber, Auto-vent, Add	18.00			
	For 3 Tubes System, Add	568.38			
	For Knob Operated Damper, Add	15.00			
23 82 33 00-0014	26" High Multi-Fin Convectors For Two-Pipe System ^(23 82 33 00-0001)				



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Decentralized Unitary HVAC Equipment			23 80	
Convection Heating and Cooling Units			23 82	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0015	EA		26" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	756.98	174.59
			For Metal Trim Strips, Add	84.56	
			For Snap-On Inlet Grille, Add	62.37	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	173.30	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0016	EA		26" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	889.23	202.83
			For Metal Trim Strips, Add	97.22	
			For Snap-On Inlet Grille, Add	70.82	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	204.80	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0017	EA		26" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,077.17	238.19
			For Metal Trim Strips, Add	113.09	
			For Snap-On Inlet Grille, Add	81.40	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	252.07	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0018	EA		26" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,265.11	265.58
			For Metal Trim Strips, Add	125.39	
			For Snap-On Inlet Grille, Add	89.59	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	303.50	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0019	EA		26" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,478.76	298.64
			For Metal Trim Strips, Add	140.27	
			For Snap-On Inlet Grille, Add	99.51	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	360.92	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0020	EA		26" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,656.80	323.49
			For Metal Trim Strips, Add	151.49	
			For Snap-On Inlet Grille, Add	106.99	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	410.14	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0021	EA		26" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,889.38	368.62
			For Metal Trim Strips, Add	172.05	
			For Snap-On Inlet Grille, Add	120.70	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	467.56	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0022	EA		26" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,063.38	391.18
			For Metal Trim Strips, Add	182.06	
			For Snap-On Inlet Grille, Add	127.37	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	516.78	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0023	EA		26" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,232.78	426.53
			For Metal Trim Strips, Add	197.73	
			For Snap-On Inlet Grille, Add	137.82	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	557.79	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0024	EA		26" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,449.60	461.17
			For Metal Trim Strips, Add	213.56	
			For Snap-On Inlet Grille, Add	148.37	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	615.21	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0025	EA		26" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,614.27	492.90
			For Metal Trim Strips, Add	227.80	
			For Snap-On Inlet Grille, Add	157.87	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	656.23	
			For Knob Operated Damper, Add	15.00	

23 82 33 00-0026 32" High Multi-Fin Convectors For Two-Pipe System (23 82 33 00-0001)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0027 EA 32" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	866.23	212.37
For Metal Trim Strips, Add	102.48	
For Snap-On Inlet Grille, Add	74.32	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	190.62	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0028 EA 32" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,032.89	257.01
For Metal Trim Strips, Add	122.77	
For Snap-On Inlet Grille, Add	87.85	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	225.28	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0029 EA 32" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,247.18	300.45
For Metal Trim Strips, Add	142.49	
For Snap-On Inlet Grille, Add	101.00	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	277.27	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0030 EA 32" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,448.53	326.51
For Metal Trim Strips, Add	154.40	
For Snap-On Inlet Grille, Add	108.93	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	333.85	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0031 EA 32" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,668.40	352.81
For Metal Trim Strips, Add	166.22	
For Snap-On Inlet Grille, Add	116.82	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	397.01	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0032 EA 32" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,861.93	378.27
For Metal Trim Strips, Add	177.88	
For Snap-On Inlet Grille, Add	124.59	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	451.15	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0033 EA 32" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,090.91	410.12
For Metal Trim Strips, Add	192.44	
For Snap-On Inlet Grille, Add	134.29	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	514.31	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0034 EA 32" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,285.66	436.42
For Metal Trim Strips, Add	204.46	
For Snap-On Inlet Grille, Add	142.30	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	568.45	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0035 EA 32" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,458.00	465.87
For Metal Trim Strips, Add	217.49	
For Snap-On Inlet Grille, Add	150.99	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	613.56	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0036 EA 32" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,681.83	493.74
For Metal Trim Strips, Add	230.50	
For Snap-On Inlet Grille, Add	159.67	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	676.73	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0037 EA 32" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,846.32	517.63
For Metal Trim Strips, Add	241.18	
For Snap-On Inlet Grille, Add	166.78	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	721.84	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0038 Electric Convectors, Floor Standing Units (23 82 33)		
23 82 33 00-0039 4" Deep Electric Convectors (23 82 33 00-0038)		
23 82 33 00-0040 EA 38" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units	675.28	131.12
23 82 33 00-0041 EA 50" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units	747.33	131.12



Heating, Ventilating, and Air-Conditioning (HVAC)			23	
Decentralized Unitary HVAC Equipment			23 80	
Convection Heating and Cooling Units			23 82	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0042			6" Deep Electric Convectors (23 82 33 00-0038)		
23 82 33 00-0043	EA		38" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units	780.58	131.12
23 82 33 00-0044	EA		50" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units	891.42	131.12
23 82 33 00-0045	EA		62" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units	988.41	131.12
23 82 33 00-0046	EA		74" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units	1,140.82	131.12
23 82 36			Finned-Tube Radiation Heaters (23 82)		
23 82 36 00-0001			Finned Tube Baseboard Units (23 82 36) Note: Complete with steel enclosure. Single heating element.		
23 82 36 00-0002			3/4" IPS Steel Tube With Steel Fins (23 82 36 00-0001)		
23 82 36 00-0003	EA		4' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	400.95	47.06
			For 90 Degree Corner, Add	55.53	
			For Valve Enclosure, Add	55.53	
			For Filler Piece, Add	48.53	
			For End Cap, Add	37.60	
			For Copper Tube With Aluminum Fins, Add	9.53	
23 82 36 00-0004	EA		6' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	534.16	71.18
			For 90 Degree Corner, Add	64.85	
			For Valve Enclosure, Add	64.85	
			For Filler Piece, Add	57.85	
			For End Cap, Add	43.65	
			For Copper Tube With Aluminum Fins, Add	14.30	
23 82 36 00-0005	EA		8' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	648.22	94.11
			For 90 Degree Corner, Add	70.33	
			For Valve Enclosure, Add	70.33	
			For Filler Piece, Add	63.33	
			For End Cap, Add	47.21	
			For Copper Tube With Aluminum Fins, Add	19.06	
23 82 36 00-0006	EA		10' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	807.40	131.77
			For 90 Degree Corner, Add	85.29	
			For Valve Enclosure, Add	85.29	
			For Filler Piece, Add	78.29	
			For End Cap, Add	56.94	
			For Copper Tube With Aluminum Fins, Add	23.70	
23 82 36 00-0007	EA		12' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	965.49	158.31
			For 90 Degree Corner, Add	100.49	
			For Valve Enclosure, Add	100.49	
			For Filler Piece, Add	93.49	
			For End Cap, Add	66.82	
			For Copper Tube With Aluminum Fins, Add	28.22	
23 82 36 00-0008	EA		14' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,098.28	168.92
			For 90 Degree Corner, Add	106.53	
			For Valve Enclosure, Add	106.53	
			For Filler Piece, Add	99.53	
			For End Cap, Add	70.74	
			For Copper Tube With Aluminum Fins, Add	33.86	
23 82 36 00-0009	EA		16' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,210.53	186.66
			For 90 Degree Corner, Add	116.67	
			For Valve Enclosure, Add	116.67	
			For Filler Piece, Add	109.67	
			For End Cap, Add	77.33	
			For Copper Tube With Aluminum Fins, Add	37.25	
23 82 36 00-0010	EA		18' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,383.10	211.16
			For 90 Degree Corner, Add	130.66	
			For Valve Enclosure, Add	130.66	
			For Filler Piece, Add	123.66	
			For End Cap, Add	86.43	
			For Copper Tube With Aluminum Fins, Add	42.89	
23 82 36 00-0011	EA		20' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,525.57	232.27
			For 90 Degree Corner, Add	142.74	
			For Valve Enclosure, Add	142.74	
			For Filler Piece, Add	135.74	
			For End Cap, Add	94.28	
			For Copper Tube With Aluminum Fins, Add	47.40	
23 82 36 00-0012			1" IPS Steel Tube With Steel Fins (23 82 36 00-0001)		
23 82 36 00-0013	EA		4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	475.22	47.06
			For 90 Degree Corner, Add	55.53	
			For Valve Enclosure, Add	55.53	
			For Filler Piece, Add	48.53	
			For End Cap, Add	37.60	
			For Copper Tube With Aluminum Fins, Add	13.62	
23 82 36 00-0014	EA		6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	645.57	71.18
			For 90 Degree Corner, Add	64.85	
			For Valve Enclosure, Add	64.85	
			For Filler Piece, Add	57.85	
			For End Cap, Add	43.65	
			For Copper Tube With Aluminum Fins, Add	20.42	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 36 00-0015	EA	8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	796.77	94.11
		For 90 Degree Corner, Add	70.33	
		For Valve Enclosure, Add	70.33	
		For Filler Piece, Add	63.33	
		For End Cap, Add	47.21	
		For Copper Tube With Aluminum Fins, Add	27.23	
23 82 36 00-0016	EA	10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	992.24	131.77
		For 90 Degree Corner, Add	85.32	
		For Valve Enclosure, Add	85.32	
		For Filler Piece, Add	78.32	
		For End Cap, Add	56.96	
		For Copper Tube With Aluminum Fins, Add	33.86	
23 82 36 00-0017	EA	12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,185.16	158.31
		For 90 Degree Corner, Add	100.45	
		For Valve Enclosure, Add	100.45	
		For Filler Piece, Add	93.45	
		For End Cap, Add	66.79	
		For Copper Tube With Aluminum Fins, Add	40.31	
23 82 36 00-0018	EA	14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,362.14	168.92
		For 90 Degree Corner, Add	106.53	
		For Valve Enclosure, Add	106.53	
		For Filler Piece, Add	99.53	
		For End Cap, Add	70.74	
		For Copper Tube With Aluminum Fins, Add	48.37	
23 82 36 00-0019	EA	16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,500.39	186.66
		For 90 Degree Corner, Add	116.59	
		For Valve Enclosure, Add	116.59	
		For Filler Piece, Add	109.59	
		For End Cap, Add	77.28	
		For Copper Tube With Aluminum Fins, Add	53.21	
23 82 36 00-0020	EA	18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,717.32	211.16
		For 90 Degree Corner, Add	130.66	
		For Valve Enclosure, Add	130.66	
		For Filler Piece, Add	123.66	
		For End Cap, Add	86.43	
		For Copper Tube With Aluminum Fins, Add	61.27	
23 82 36 00-0021	EA	20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,894.26	232.27
		For 90 Degree Corner, Add	142.59	
		For Valve Enclosure, Add	142.59	
		For Filler Piece, Add	135.59	
		For End Cap, Add	94.19	
		For Copper Tube With Aluminum Fins, Add	67.72	
23 82 36 00-0022		1-1/4" IPS Steel Tube With Steel Fins (23 82 36 00-0001)		
23 82 36 00-0023	EA	4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	549.49	47.06
		For 90 Degree Corner, Add	55.53	
		For Valve Enclosure, Add	55.53	
		For Filler Piece, Add	48.53	
		For End Cap, Add	37.60	
		For Copper Tube With Aluminum Fins, Add	17.70	
23 82 36 00-0024	EA	6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	756.97	71.18
		For 90 Degree Corner, Add	64.85	
		For Valve Enclosure, Add	64.85	
		For Filler Piece, Add	57.85	
		For End Cap, Add	43.65	
		For Copper Tube With Aluminum Fins, Add	26.55	
23 82 36 00-0025	EA	8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	945.31	94.11
		For 90 Degree Corner, Add	70.33	
		For Valve Enclosure, Add	70.33	
		For Filler Piece, Add	63.33	
		For End Cap, Add	47.21	
		For Copper Tube With Aluminum Fins, Add	35.40	
23 82 36 00-0026	EA	10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	1,176.94	131.77
		For 90 Degree Corner, Add	85.32	
		For Valve Enclosure, Add	85.32	
		For Filler Piece, Add	78.32	
		For End Cap, Add	56.96	
		For Copper Tube With Aluminum Fins, Add	44.02	
23 82 36 00-0027	EA	12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	1,405.03	158.31
		For 90 Degree Corner, Add	100.45	
		For Valve Enclosure, Add	100.45	
		For Filler Piece, Add	93.45	
		For End Cap, Add	66.79	
		For Copper Tube With Aluminum Fins, Add	52.40	
23 82 36 00-0028	EA	14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	1,625.99	168.92
		For 90 Degree Corner, Add	106.53	
		For Valve Enclosure, Add	106.53	
		For Filler Piece, Add	99.53	
		For End Cap, Add	70.74	
		For Copper Tube With Aluminum Fins, Add	62.88	



Heating, Ventilating, and Air-Conditioning (HVAC)			23	23
Decentralized Unitary HVAC Equipment			23 80	
Convection Heating and Cooling Units			23 82	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
23 82 36 00-0029	EA	16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element..... <i>For 90 Degree Corner, Add</i> <i>For Valve Enclosure, Add</i> <i>For Filler Piece, Add</i> <i>For End Cap, Add</i> <i>For Copper Tube With Aluminum Fins, Add</i>	1,790.62 116.59 116.59 109.59 77.28 69.17	186.66
23 82 36 00-0030	EA	18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element..... <i>For 90 Degree Corner, Add</i> <i>For Valve Enclosure, Add</i> <i>For Filler Piece, Add</i> <i>For End Cap, Add</i> <i>For Copper Tube With Aluminum Fins, Add</i>	2,051.53 130.66 130.66 123.66 86.43 79.65	211.16
23 82 36 00-0031	EA	20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element..... <i>For 90 Degree Corner, Add</i> <i>For Valve Enclosure, Add</i> <i>For Filler Piece, Add</i> <i>For End Cap, Add</i> <i>For Copper Tube With Aluminum Fins, Add</i>	2,263.64 142.59 142.59 135.59 94.19 88.04	232.27
23 82 36 00-0032		Electric Baseboard Heating (23 82 36) Note: Includes 24 gauge steel enclosure and heating element		
23 82 36 00-0033		Electric Wall Heating 10" Enclosure (23 82 36 00-0032)		
23 82 36 00-0034	LF	Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element <250 Watts/FT	156.61	72.85
23 82 36 00-0035	LF	Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element >= 250 Watts/FT	159.93	72.85
23 82 36 00-0036		Electric Wall Heating 16" Enclosure (23 82 36 00-0032)		
23 82 36 00-0037	LF	Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element <350 Watts/FT	189.86	72.85
23 82 36 00-0038	LF	Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element >= 350 Watts/FT	198.17	72.85
23 82 39		Unit Heaters (23 82)		
23 82 39 13		Cabinet Unit Heaters (23 82 39)		
23 82 39 13-0001		Electric Cabinet Unit Heaters (23 82 39 13) Note: Can be mounted on the ceiling, floor or wall. Includes built-in thermostat. 208, 240/208, 277, or 480 Volt.		
23 82 39 13-0002		Electric Cabinet Unit Heaters, 35" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0003	EA	2 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,359.98	165.56
23 82 39 13-0004	EA	3 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,386.57	165.56
23 82 39 13-0005	EA	4 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,413.15	165.56
23 82 39 13-0006	EA	5 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,439.71	165.56
23 82 39 13-0007	EA	6 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,466.30	165.56
23 82 39 13-0008	EA	7 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,492.88	165.56
23 82 39 13-0009	EA	8 KW, 250 CFM, 35" Electric Cabinet Unit Heater	3,520.52	165.56
23 82 39 13-0010	EA	For Ceiling Installation of 35" Cabinet Unit Heater, Add	221.18	109.93
23 82 39 13-0011		Electric Cabinet Unit Heaters, 45" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0012	EA	4 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,569.73	198.66
23 82 39 13-0013	EA	6 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,622.90	198.66
23 82 39 13-0014	EA	8 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,676.04	198.66
23 82 39 13-0015	EA	10 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,729.21	198.66
23 82 39 13-0016	EA	12 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,782.36	198.66
23 82 39 13-0017	EA	14 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,835.53	198.66
23 82 39 13-0018	EA	16 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,888.67	198.66
23 82 39 13-0019	EA	For Ceiling Installation of 45" Cabinet Unit Heater, Add	264.89	132.45
23 82 39 13-0020		Electric Cabinet Unit Heaters, 58" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0021	EA	6 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,481.45	264.89
23 82 39 13-0022	EA	8 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,534.60	264.89
23 82 39 13-0023	EA	10 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,587.76	264.89
23 82 39 13-0024	EA	12 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,640.91	264.89

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 39 13-0025	EA	14 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,694.08	264.89
23 82 39 13-0026	EA	16 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,747.22	264.89
23 82 39 13-0027	EA	For Ceiling Installation of 58" Cabinet Unit Heater, Add	331.11	165.56
23 82 39 13-0028		Electric Cabinet Unit Heaters, 68" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0029	EA	6 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	5,286.87	331.11
23 82 39 13-0030	EA	9 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	5,366.60	331.11
23 82 39 13-0031	EA	12 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	5,446.33	331.11
23 82 39 13-0032	EA	15 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	5,526.06	331.11
23 82 39 13-0033	EA	18 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	5,605.82	331.11
23 82 39 13-0034	EA	21 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	5,685.54	331.11
23 82 39 13-0035	EA	24 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	5,765.27	331.11
23 82 39 13-0036	EA	For Ceiling Installation of 68" Cabinet Unit Heater, Add	442.37	221.18
23 82 39 13-0037		Electric Cabinet Unit Heaters, 78" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0038	EA	8 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	6,198.58	397.34
23 82 39 13-0039	EA	12 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	6,304.90	397.34
23 82 39 13-0040	EA	16 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	6,411.21	397.34
23 82 39 13-0041	EA	20 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	6,517.52	397.34
23 82 39 13-0042	EA	24 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	6,623.84	397.34
23 82 39 13-0043	EA	28 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	6,730.15	397.34
23 82 39 13-0044	EA	32 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	6,836.46	397.34
23 82 39 13-0045	EA	For Ceiling Installation of 78" Cabinet Unit Heater, Add	529.77	264.89
23 82 39 13-0046		Removal and Reinstallation of Cabinet Unit Heaters (23 82 39 13)		
		Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.		
23 82 39 13-0047	EA	Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Floor or Wall.....	331.82	
23 82 39 13-0048	EA	Removal And Reinstallation Of >58" Cabinet Unit Heater, Floor or Wall	573.15	
23 82 39 13-0049	EA	Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Ceiling	684.15	
23 82 39 13-0050	EA	Removal And Reinstallation Of >58" Cabinet Unit Heater, Ceiling	925.46	
23 82 39 16		Propeller Unit Heaters (23 82 39)		
23 82 39 16-0001		Hydronic Unit Heaters Using Steam Or Hot Water (23 82 39 16)		
		Note: For use with either steam or heating hot water. Heating output capacities for both are listed.		
23 82 39 16-0002		Horizontal Hydronic Unit Heaters, Fan Propelled, 115 Volt (23 82 39 16-0001)		
23 82 39 16-0003	EA	18 MBH Steam, 13 MBH Hot Water, 395 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,463.86	120.66
23 82 39 16-0004	EA	24 MBH Steam, 17.4 MBH Hot Water, 450 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,467.20	120.66
23 82 39 16-0005	EA	36 MBH Steam, 26.1 MBH Hot Water, 550 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,658.88	120.66
23 82 39 16-0006	EA	48 MBH Steam, 34.8 MBH Hot Water, 750 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,979.03	180.99
23 82 39 16-0007	EA	60 MBH Steam, 43.6 MBH Hot Water, 900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,077.10	180.99
23 82 39 16-0008	EA	72 MBH Steam, 52.3 MBH Hot Water, 1,100 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,223.13	180.99
23 82 39 16-0009	EA	84 MBH Steam, 61 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,631.28	241.32
23 82 39 16-0010	EA	96 MBH Steam, 69.7 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,925.49	241.32
23 82 39 16-0011	EA	108 MBH Steam, 78.4 MBH Hot Water, 2,800 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	3,112.71	241.32
23 82 39 16-0012	EA	120 MBH Steam, 87.1 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	3,264.27	241.32
23 82 39 16-0013	EA	132 MBH Steam, 95.8 MBH Hot Water, 2,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	3,639.01	301.65
23 82 39 16-0014	EA	144 MBH Steam, 104 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	3,690.30	301.65
23 82 39 16-0015	EA	156 MBH Steam, 113 MBH Hot Water, 2,600 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	3,739.34	301.65
23 82 39 16-0016	EA	180 MBH Steam, 118 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	3,920.09	361.98
23 82 39 16-0017	EA	204 MBH Steam, 148 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	4,303.46	361.98
23 82 39 16-0018	EA	240 MBH Steam, 174 MBH Hot Water, 3,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	4,894.59	422.32
23 82 39 16-0019	EA	280 MBH Steam, 209.1 MBH Hot Water, 4,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	6,283.15	422.32
23 82 39 16-0020	EA	300 MBH Steam, 230 MBH Hot Water, 5,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	6,631.05	482.65
23 82 39 16-0021	EA	360 MBH Steam, 261.3 MBH Hot Water, 5,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	8,057.53	482.65
23 82 39 16-0022	EA	Fan Guard For Fan Propelled Steam Unit Heater..... Note: Required only for unit heaters located within 7" of a working surface.	301.54	30.17
23 82 39 16-0023		Vertical Hydronic Unit Heaters, Fan Propelled, 115 Volt (23 82 39 16-0001)		
23 82 39 16-0024	EA	41.3 MBH Steam, 22.7 MBH Hot Water, 595 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,110.56	120.66



Heating, Ventilating, and Air-Conditioning (HVAC)			23
Decentralized Unitary HVAC Equipment			23 80
Convection Heating and Cooling Units			23 82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 39 16-0025 EA 65.5 MBH Steam, 39.6 MBH Hot Water, 989 CFM Unit Heater Fan Propelled, Vertical, 115 Volt	2,216.42	180.99
23 82 39 16-0026 EA 80.6 MBH Steam, 48.4 MBH Hot Water, 1,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,409.22	180.99
23 82 39 16-0027 EA 101.8 MBH Steam, 68.3 MBH Hot Water, 1,490 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,932.20	241.32
23 82 39 16-0028 EA 124.4 MBH Steam, 83.7 MBH Hot Water, 1,790 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	3,121.63	241.32
23 82 39 16-0029 EA 152 MBH Steam, 105.2 MBH Hot Water, 2,220 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	3,576.85	361.98
23 82 39 16-0030 EA 173 MBH Steam, 118.6 MBH Hot Water, 2,620 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	3,866.60	361.98
23 82 39 16-0031 EA 210.2 MBH Steam, 139.7 MBH Hot Water, 3,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	4,109.57	361.98
23 82 39 16-0032 EA 249.8 MBH Steam, 180.1 MBH Hot Water, 4,180 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	4,562.47	422.32
23 82 39 16-0033 EA 283.8 MBH Steam, 205.4 MBH Hot Water, 4,430 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	4,850.01	422.32
23 82 39 16-0034 EA 333.4 MBH Steam, 242.9 MBH Hot Water, 5,210 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	5,431.72	422.32
23 82 39 16-0035 EA 386 MBH Steam, 280.8 MBH Hot Water, 6,140 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	6,203.41	542.97
23 82 39 16-0036 EA 496 MBH Steam, 368.1 MBH Hot Water, 8,020 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	8,138.07	542.97
23 82 39 16-0037 EA 585 MBH Steam, 431.1 MBH Hot Water, 9,450 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	8,730.95	542.97
23 82 39 16-0038 EA 705 MBH Steam, 519.4 MBH Hot Water, 11,000 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	9,961.59	603.30
23 82 39 16-0039 EA Fan Guard For Fan Propelled Steam Unit Heater, Vertical.....	418.60	30.17

Note: Required only for unit heaters located within 7' of a working surface.

23 82 39 16-0040

Removal and Reinstallation of Propeller Unit Heaters (23 82 39 16)

Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.

23 82 39 16-0041 EA Removal And Reinstallation Of Up To 120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical	723.96
23 82 39 16-0042 EA Removal And Reinstallation Of >120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical	965.28

23 82 39 19 Wall and Ceiling Unit Heaters (23 82 39)

23 82 39 19-0001

Electric Unit Heaters (23 82 39 19)

Note: May be mounted both vertically and horizontally.

23 82 39 19-0002 EA 3 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	974.39	132.45
23 82 39 19-0003 EA 5 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	974.39	132.45
23 82 39 19-0004 EA 7.5 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	1,307.71	165.56
23 82 39 19-0005 EA 10 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	1,499.36	198.66
23 82 39 19-0006 EA 15 KW, 910 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	2,189.23	264.89
23 82 39 19-0007 EA 20 KW, 1,320 CFM Electric Unit Heater, 208, 240/208, 277, or 480 Volt	3,192.16	331.11
23 82 39 19-0008 EA 30 KW, 2,100 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt.....	4,409.47	397.34
23 82 39 19-0009 EA 50 KW, 3,000 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt.....	6,452.33	463.55
23 82 39 19-0010 EA 3 KW, 350 CFM Electric Unit Heater - 480 Volt	1,205.04	132.45
23 82 39 19-0011 EA 5 KW, 350 CFM Electric Unit Heater - 480 Volt	1,160.01	132.45
23 82 39 19-0012 EA 7.5 KW, 650 CFM Electric Unit Heater - 480 Volt	1,373.63	165.56
23 82 39 19-0013 EA 10 KW, 650 CFM Electric Unit Heater - 480 Volt	1,585.12	198.66
23 82 39 19-0014 EA 15 KW, 910 CFM Electric Unit Heater - 480 Volt	2,360.76	264.89

23 82 39 19-0015

Electric Ceiling and Wall Heaters (23 82 39 19)

Note: The "/" between wattages indicates two or three speed operation. 120, 240/208 or 277 Volt.

23 82 39 19-0016 EA 1,000, 1,500 Or 2,000 Watt Recessed Electric Wall Heater	439.51	82.78
23 82 39 19-0017 EA 1,500/750 Or 2,000/1,000 Watt Recessed Electric Wall Heater	514.28	92.71
23 82 39 19-0018 EA 3,000, 3,600, 4,000 Or 4,800 Watt Recessed Electric Wall Heater	804.83	92.71
23 82 39 19-0019 EA 1,000, 1,500 Or 2,000 Watt Surface Mounted Electric Wall Heater	499.19	82.78
23 82 39 19-0020 EA 1,500/750 Or 2,000/1,000 Watt Surface Mounted Electric Wall Heater.....	608.46	92.71
23 82 39 19-0021 EA 3,000, 3,600, 4,000 Or 4,800 Watt Surface Mounted Electric Wall Heater	915.45	92.71
23 82 39 19-0022 EA 1,000, 1,500 Or 2,000/1,500 Watt Recessed Electric Ceiling Heater	656.50	109.26
23 82 39 19-0023 EA 3,000, 4,000 Or 4,000/3,000 Watt Recessed Electric Ceiling Heater	1,224.61	115.88
23 82 39 19-0024 EA 4,800/3,600 Watt Recessed Electric Ceiling Heater	1,378.16	115.88
23 82 39 19-0025 EA 4,000/3,000/2,000 Watt Recessed Or Surface Mounted Electric Ceiling Heater	1,599.86	122.51
23 82 39 19-0026 EA 5,000/3,800/2,500 Watt Recessed Or Surface Mounted Electric Ceiling Heater	1,734.68	122.51
23 82 39 19-0027 EA 1,000, 1,500 Or 2,000/1,500 Watt Surface Mounted Electric Ceiling Heater	736.26	109.26
23 82 39 19-0028 EA 3,000, 4,000 Or 4,000/3,000 Watt Surface Mounted Electric Ceiling Heater	1,350.24	115.88
23 82 39 19-0029 EA 4,800/3,600 Watt Surface Mounted Electric Ceiling Heater	1,503.79	115.88
23 82 39 19-0030 EA Selectable Wattage (500 Or 750 Or 1000 Or 1,250 Or 1,500 Or 1,750 Or 2,250 Watt), 240 Volt, Surface Mounted, Electric Wall Heater (Markel Series 305 - Model H30522TDWB).....	698.68	82.78

23 82 39 19-0031

Removal And Reinstallation Of Electric Unit Heaters (23 82 39 19)

Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.

23 82 39 19-0032 EA Removal And Reinstallation Of Up To 15KW Electric Unit Heater	434.41
23 82 39 19-0033 EA Removal And Reinstallation Of >15 KW Electric Unit Heater	892.99

23 83 Radiant Heating Units (23 80)

23 83 13 Radiant-Heating Electric Cables (23 83)

23 83 13 13 Radiant-Heating Electric Cables (23 83 13)

23 83 13 13-0001 Self Regulating Heating Cable (23 83 13 13)

23 83 13 13-0002 LF 3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable	9.69	0.96

Note: Tinned copper braid, at 50 Degrees F.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 83 Radiant Heating Units**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 83 13 13-0003	LF	5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable Note: Tinned copper braid, at 50 degrees F.	10.33	0.96
23 83 13 13-0004	LF	8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable Note: Tinned copper braid, at 50 degrees F.	10.77	0.96
23 83 13 13-0005	LF	3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable Note: Tinned copper braid, at 50 degrees F.	9.69	0.96
23 83 13 13-0006	LF	5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable Note: Tinned copper braid, at 50 degrees F.	11.41	0.96
23 83 13 13-0007	LF	8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable Note: Tinned copper braid, at 50 degrees F.	12.04	0.96
23 83 13 13-0008	LF	3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 Degrees F.	12.03	0.96
23 83 13 13-0009	LF	5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 degrees F.	12.32	0.96
23 83 13 13-0010	LF	8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 degrees F.	12.62	0.96
23 83 13 13-0011	LF	3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 degrees F.	12.03	0.96
23 83 13 13-0012	LF	5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 degrees F.	12.32	0.96
23 83 13 13-0013	LF	8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 degrees F.	12.62	0.96
23 83 13 13-0014	LF	3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 Degrees F.	14.97	0.96
23 83 13 13-0015	LF	5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 degrees F.	15.55	0.96
23 83 13 13-0016	LF	8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 degrees F.	15.85	0.96
23 83 13 13-0017	LF	3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 degrees F.	14.97	0.96
23 83 13 13-0018	LF	5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 degrees F.	15.55	0.96
23 83 13 13-0019	LF	8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 degrees F.	15.85	0.96
23 83 13 13-0020	EA	Power Connection Kit With Pre-set Thermostat For Self Regulating Low Temperature Heating Cable	353.23	75.75
23 83 13 13-0021	EA	Splice And Tee Kit For Self Regulating Low Temperature Heating Cable	353.23	75.75
23 83 13 13-0022	EA	End Seal Kit For Self Regulating Low Temperature Heating Cable	229.28	13.78
23 83 13 13-0023	EA	Ambient Air Sensing Thermostat For Self Regulating Low Temperature Heating Cable	621.28	34.43
23 83 13 13-0024	EA	Mechanical Or Electrical Line Sensing Thermostat For Self Regulating Low Temperature Heating Cable	684.04	34.43

23 84 Humidity Control Equipment (23 80)**23 84 13 Humidifiers** (23 84)**23 84 13 16 Wetted-Element Humidifiers** (23 84 13)**23 84 13 16-0001 Electric Steam Humidifiers, Self-Steam Producing** (23 84 13 16)

Note: Electronic modulating duct or air handling unit installation 208V-108V with 12" to 72" manifolds included.

23 84 13 16-0002	EA	1-96 Lb./Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold	13,722.90	497.12
23 84 13 16-0003	EA	20-168 Lb./Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold	17,414.23	498.32

23 84 13 23 Direct-Steam-Injection Humidifiers (23 84 13)**23 84 13 23-0001 Steam Type Pneumatically Controlled** (23 84 13 23)

Note: For duct or air handling installation standard unit with integral operator distribution manifold strainer trap and pneumatic modulating valve. Excludes humidistat and piping.

23 84 13 23-0002	EA	3-191 Lb./Hour Steam Humidifier, 24" Manifold, Pneumatic Controls..... For Electrically Controlled Unit, Add For Each Additional Manifold, Add	2,190.89 700.00 673.36	318.54
23 84 13 23-0003	EA	3-191 Lb./Hour Steam Humidifier, 48" Manifold, Pneumatic Controls..... For Electrically Controlled Unit, Add For Each Additional Manifold, Add	2,190.89 700.00 673.36	318.54
23 84 13 23-0004	EA	65-334 Lb./Hour Steam Humidifier, 36" Manifold, Pneumatic Controls..... For Electrically Controlled Unit, Add For Each Additional Manifold, Add	3,162.09 700.00 964.72	318.54
23 84 13 23-0005	EA	65-334 Lb./Hour Steam Humidifier, 72" Manifold, Pneumatic Controls..... For Electrically Controlled Unit, Add For Each Additional Manifold, Add	3,282.74 700.00 1,004.93	398.18
23 84 13 23-0006	EA	100-690 Lb./Hour Steam Humidifier, 48" Manifold, Pneumatic Controls..... For Electrically Controlled Unit, Add For Each Additional Manifold, Add	4,759.00 700.00 1,443.79	318.54



Heating, Ventilating, and Air-Conditioning (HVAC)		23	23
Decentralized Unitary HVAC Equipment		23 80	
Humidity Control Equipment		23 84	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 84 13 23-0007	EA	100-690 Lb./Hour Steam Humidifier, 84" Manifold, Pneumatic Controls..... <i>For Electrically Controlled Unit, Add</i> <i>For Each Additional Manifold, Add</i>	4,879.65 700.00 1,484.00	398.18
23 84 13 23-0008	EA	220-2,000 Lb./Hour Steam Humidifier, 72" Manifold, Pneumatic Controls..... <i>For Electrically Controlled Unit, Add</i> <i>For Each Additional Manifold, Add</i>	7,374.83 700.00 2,232.56	398.18
23 84 13 23-0009	EA	220-2,000 Lb./Hour Steam Humidifier, 144" Manifold, Pneumatic Controls..... <i>For Electrically Controlled Unit, Add</i> <i>For Each Additional Manifold, Add</i>	7,525.65 700.00 2,282.83	498.32
23 84 13 29 Self-Contained Steam Humidifiers (23 84 13)				
23 84 13 29-0001		Residential Humidifiers (23 84 13 29) Note: Includes solenoid valve and flow through water supply.		
23 84 13 29-0002	EA	Duct Or Furnace Mounted Humidifier, Residential Type.....	625.19	60.33
23 84 16 Mechanical Dehumidification Units (23 84)				
23 84 16 16 Indoor, Mechanical Dehumidification Units (23 84 16)				
23 84 16 16-0001		Mechanical Dehumidification Units (23 84 16 16) Note: Sized by moisture removal per 24 hours.		
23 84 16 16-0002	EA	65 Pint Per Day, 160 CFM, 8" Duct Connection, Refrigerant Dehumidifier.....	2,448.21	66.22
23 84 16 16-0003	EA	90 Pint Per Day, 235 CFM, 10"/6" Duct Connection, Refrigerant Dehumidifier	3,080.92	77.25
23 84 16 16-0004	EA	120 Pint Per Day, 350 CFM, 10"/6" Duct Connection, Refrigerant Dehumidifier	4,131.59	88.30
23 84 16 33 Portable Dehumidifiers (23 84 16)				
23 84 16 33-0001		Self Contained Free Standing Unit (23 84 16 33) Note: Sized by moisture removal per 24 hours.		
23 84 16 33-0002	EA	30 Pint/24 Hour Dehumidifier.....	555.15	143.29
23 84 16 33-0003	EA	50 Pint/24 Hour Dehumidifier.....	668.46	143.29
23 84 16 33-0004	EA	70 Pint/24 Hour Dehumidifier.....	736.44	143.29

END OF SECTION 23

23	23	Heating, Ventilating, and Air-Conditioning (HVAC)
	23 80	Decentralized Unitary HVAC Equipment
	23 84	Humidity Control Equipment



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Integrated Automation		25	25
Integrated Automation Facility Controls		25 50	
Integrated Automation Control of HVAC		25 55	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

- 25 Integrated Automation
- 25 50 Integrated Automation Facility Controls (25)
- 25 55 Integrated Automation Control of HVAC (25 50)
See CSI section 23 09 00 00-0000 for Instrumentation And Control For HVAC.

END OF SECTION 25

25	25	Integrated Automation	
	25 50	Integrated Automation Facility Controls	
	25 55	Integrated Automation Control of HVAC	



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Electrical		26
Operation and Maintenance of Electrical Systems		26 01
Operation and Maintenance of Medium-Voltage Electrical Distribution		26 01 10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001	EA	Retrofit Distribution Enclosures ^(26 01 10 91) Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.	
26 01 10 91-0002	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	541.80
		Note: 2mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	114.32
		For >20 To 50, Add	91.46
		For >50 To 100, Add	45.73
26 01 10 91-0003	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	705.71
		Note: 2mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	155.30
		For >20 To 50, Add	124.24
		For >50 To 100, Add	62.12
26 01 10 91-0004	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	1,066.29
		Note: 4mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	245.45
		For >20 To 50, Add	196.36
		For >50 To 100, Add	98.18
26 01 10 91-0005	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	540.01
		Note: 2mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	113.88
		For >20 To 50, Add	91.10
		For >50 To 100, Add	45.55
26 01 10 91-0006	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	692.36
		Note: 2mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	151.96
		For >20 To 50, Add	121.57
		For >50 To 100, Add	60.79
26 01 10 91-0007	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	1,036.65
		Note: 4mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	238.04
		For >20 To 50, Add	190.43
		For >50 To 100, Add	95.21
26 01 10 91-0008	EA	2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR)	423.79
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	84.82
		For >20 To 50, Add	67.86
		For >50 To 100, Add	33.93
26 01 10 91-0009	EA	3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR)	600.81
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	129.08
		For >20 To 50, Add	103.26
		For >50 To 100, Add	51.63
26 01 10 91-0010	EA	4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR)	858.96
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	193.61
		For >20 To 50, Add	154.89
		For >50 To 100, Add	77.45
26 01 10 91-0011	EA	2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	782.36
		Note: 4mm thick, aluminum frame, magnetic cover.	
		For Up To 20, Add	174.46
		For >20 To 50, Add	139.57
		For >50 To 100, Add	69.79
26 01 10 91-0012	EA	3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,078.52
		Note: 4mm thick, aluminum frame, magnetic cover.	
		For Up To 20, Add	248.50
		For >20 To 50, Add	198.80
		For >50 To 100, Add	99.40
26 01 10 91-0013	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,983.08
		Note: 4mm thick, aluminum frame, magnetic cover.	
		For Up To 20, Add	474.64
		For >20 To 50, Add	379.71
		For >50 To 100, Add	189.86

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014	EA	3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) Note: 4mm thick, aluminum frame, magnetic cover. For Up To 20, Add For >20 To 50, Add For >50 To 100, Add	900.08 203.89 163.11 81.56	
26 01 10 91-0015	EA	4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) Note: 4mm thick, aluminum frame, magnetic cover. For Up To 20, Add For >20 To 50, Add For >50 To 100, Add	1,328.90 311.10 248.88 124.44	
26 01 10 99 Medium-Voltage Electrical Distribution, Facilities Maintenance and Repair (26 01 10 99-0001)				
26 01 10 99-0001		Liquid Filled Primary Transformer (26 01 10 99) Note: Includes all required small tools and equipment.		
26 01 10 99-0002		Repair 500 KVA Liquid Filled Primary Transformer (26 01 10 99-0001)		
26 01 10 99-0003	EA	Remove Transformer Component, Repair 500 KVA Liquid Filled Primary Transformer	136.76	
26 01 10 99-0004	EA	Install New Transformer Component, Repair 500 KVA Liquid Filled Primary Transformer	2,924.87	
26 01 10 99-0005		Maintenance And Inspection, Liquid Filled Primary Transformer (26 01 10 99-0001)		
26 01 10 99-0006	EA	Test Energized Transformer, Maintenance And Inspection, Liquid Filled Primary Transformer	68.38	
26 01 10 99-0007		Replace 500 KVA Liquid Filled Primary Transformer (26 01 10 99-0001)		
26 01 10 99-0008	EA	Remove Transformer, Replace 500 KVA Liquid Filled Primary Transformer	1,993.71	
26 01 10 99-0009	EA	Install New 5 KV Primary, 277/480 Volt Secondary, Replace 500 KVA Liquid Filled Primary Transformer	48,198.94	
26 01 10 99-0010		Switchgear, Mainframe (26 01 10 99) Note: Includes all required small tools and equipment.		
26 01 10 99-0011		Repair 1,200 Amp Switchgear (26 01 10 99-0010)		
26 01 10 99-0012	EA	Remove Relay, Repair 1,200 Amperes Switchgear	232.76	
26 01 10 99-0013	EA	Install New Relay, Repair 1,200 Amperes Switchgear	2,053.17	
26 01 10 99-0014		Maintenance And Inspection, Mainframe Switchgear (26 01 10 99-0010)		
26 01 10 99-0015	EA	Check And Retighten Switchgear Connections, Maintenance And Inspection, Mainframe Switchgear	109.41	
26 01 10 99-0016		Replace 1,200 Amp Switchgear (26 01 10 99-0010)		
26 01 10 99-0017	EA	Remove 1,200 Amperes Switchgear, Replace 1,200 Amperes Switchgear	820.55	
26 01 10 99-0018	EA	Install New 1,200 Amperes Switchgear, Replace 1,200 Amperes Switchgear	4,873.54	
26 01 10 99-0019	EA	Test Switchgear, Replace 1,200 Amperes Switchgear	273.52	
26 01 10 99-0020		500kVA And Over, Dry Type Transformer Preventative Maintenance (26 01 10 99) Note: Includes all required small tools and equipment.		
26 01 10 99-0021	EA	Annual Preventative Maintenance For 500kVA And Over, Dry Type Transformer Note: 1. Examine Exterior Of Transformer For Any Damage. 2. Remove Covers Or Open Doors. 3. Check For Signs Of Moisture Or Overheating. 4. Check For Voltage Creeping Over Insulated Surfaces, Such As Evidenced By Tracking Or Carbonization. 5. Check Fans, Motors And Other Auxiliary Devices For Proper Operation; Where Applicable. 6. Check Condition Of Ground System. 7. Reinstall Covers Or Close Doors. 8. Fill Out Maintenance Checklist And Report Deficiencies.	125.11	
26 01 10 99-0022		Pad Mounted Oil Transformer Preventative Maintenance (26 01 10 99) Note: Includes all required small tools and equipment.		
26 01 10 99-0023	EA	Annual Preventative Maintenance For Pad Mounted Oil Transformer Note: 1. Examine Exterior Of Transformer For Any Damage, Cracks, Rust And Leaks; Check Around Bushings, Gasket And Pressure Relief Device. 2. Check Condition Of Ground System. 3. Check And Record Oil Level, Pressure And Temperature Readings. 4. Check Fans, Motors And Other Auxiliary Devices For Proper Operation; Where Applicable. 5. Draw Oil Sample From Top Of Transformer And Have Sample Tested For Dielectric Strength; Add Oil To Replace Sample Taken. 6. Clean Transformer Exterior And Surrounding Area. 7. Fill Out Maintenance Checklist And Report Deficiencies.	191.41	
26 01 10 99-0024		PCB Pad Mounted Oil Transformer Preventative Maintenance (26 01 10 99) Note: Includes all required small tools and equipment.		



Electrical	26	26
Operation and Maintenance of Electrical Systems	26 01	
Operation and Maintenance of Medium-Voltage Electrical Distribution	26 01 10	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 01 10 99-0025	EA	Annual Preventative Maintenance For PCB Pad Mounted Oil Transformer 247.76 Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Examine Exterior Of The Transformer For Any Damage, Cracks, Rust And Leaks; Check Around Gaskets, Pressure Relief Device And Cooling Fins. 3. Check And Record Oil Level, Pressure And Temperature Readings. 4. Check Fans, Motors And Other Auxiliary Devices For Proper Operation; Where Applicable. 5. Check Exterior Bushings For Leaking Oil. 6. Check Condition Of Ground System. 7. Draw Oil Sample From Top Of Transformer And Have Sample Tested; Add Oil To Replace Sample Taken. 8. Clean Transformer Exterior And Surrounding Area. 9. Verify PCB Warning Markings Are Intact And Clearly Visible 10. Fill Out Maintenance Checklist And Report Deficiencies. 11. EPA Regulations Under 40 CFR 716.30 Shall Apply To All Inspections, Samples, Disposal, Cleanups, Decontamination, Reporting And Record Keeping.

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001		Lock Out/Tag Out Devices (26 01 20 91) Note: Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.
26 01 20 91-0002	EA	Lock Out/Tag Out Local Disconnect 49.58 Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).
26 01 20 91-0003	EA	Lock Out/Tag Out Breaker Or Motor Starter 49.58 Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).
26 01 20 91-0004	EA	Lock Out Padlock Device.....13.78 Note: Includes the installation and removal of pad lock when required
26 01 20 91-0005	EA	Lock Out Tags 5.49 Note: Includes filling out tag information, installation and removal of identifying tags.
26 01 20 91-0006		Existing Circuit Tracing (26 01 20 91)
26 01 20 91-0007	EA	Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device 28.66
26 01 20 91-0008	EA	Lighting, Existing Circuit Tracing Per Circuit.....28.66

26 01 20 99 Low-Voltage Electrical Distribution, Facilities Maintenance and Repair (26 01 20)

Note: The Maintenance & Repair section is a listing of common maintenance tasks performed at facilities. Under the System Description column, each task, including its components, is described. Labor-hours have been enhanced, where appropriate, to include setup and delay time. In some cases, the list of steps comprising the task includes most of the potential repairs that could be made on a system. For those tasks, individual items, as appropriate, can be selected from the all-encompassing list.

26 01 20 99-0001		Electrical Service/Distribution (26 01 20 99) Note: Includes all required small tools and equipment.
26 01 20 99-0002		Dry Primary Transformer (26 01 20 99-0001)
26 01 20 99-0003		Repair 15 KV Dry Primary Transformer (26 01 20 99-0002)
26 01 20 99-0004	EA	Repair Transformer Terminal (For Repair 15 KV Dry Primary Transformer).....345.82
26 01 20 99-0005		Maintenance And Inspection, Dry Primary Transformer (26 01 20 99-0002)
26 01 20 99-0006	EA	Test Energized Transformer (For Maintenance And Inspection, Dry Primary Transformer) 68.38
26 01 20 99-0007		Replace 15 KV Dry Primary Transformer (26 01 20 99-0002)
26 01 20 99-0008	EA	Remove Transformer (For Replace 15 KV Dry Primary Transformer) 1,993.71
26 01 20 99-0009	EA	Install New 500 KVA, 277/480 Volt Secondary (For Replace 15 KV Dry Primary Transformer) 46,164.02
26 01 20 99-0010		Fuses (26 01 20 99-0001)
26 01 20 99-0011		Replace Fuse (26 01 20 99-0010)
26 01 20 99-0012	EA	Remove Fuse (For Replace Fuse).....20.65
26 01 20 99-0013	EA	Install New Fuse 600 Amp (For Replace Fuse) 509.33
26 01 20 99-0014		Less Than 600 Volt Indoor Switchgear (26 01 20 99-0001)
26 01 20 99-0015		Repair (5% Of Total Circuit Breaker) Less Than 600 Volt Indoor Switchgear (26 01 20 99-0014)
26 01 20 99-0016	EA	Remove Circuit Breaker (For Repair (5% Of Total Circuit Breaker) Less Than 600 Volt Indoor Switchgear) 54.70
26 01 20 99-0017	EA	Install New Circuit Breaker (For Repair (5% Of Total Circuit Breaker) Less Than 600 Volt Indoor Switchgear) 873.87
26 01 20 99-0018		Maintenance And Inspection, Less Than 600 Volt Indoor Switchgear (26 01 20 99-0014)
26 01 20 99-0019	EA	Inspect And Clean Panel (For Maintenance And Inspection, Less Than 600 Volt Indoor Switchgear) 68.38
26 01 20 99-0020		Replace 225 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear (26 01 20 99-0014)
26 01 20 99-0021	EA	Remove 4 Wire, 120/208 Volt, Panel Board (For Replace 225 AMP Switchgear, Less Than 600 Volt Indoor Switchgear).....547.03

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 20 99-0022	EA	Install New 4 Wire, 120/208 Volt, 225 Amp Main Circuit Breaker, Panel Board (For Replace 225 AMP Switchgear, Less Than 600 Volt Indoor Switchgear).....	2,251.86	
26 01 20 99-0023	EA	Test Circuits (For Replace 225 AMP Switchgear, Less Than 600 Volt Indoor Switchgear).....	206.37	
26 01 20 99-0024		Replace 400 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear ⁽²⁶		
		^{01 20 99-0014)}		
26 01 20 99-0025	EA	Turn Power Off, Later Turn On (For Replace 400 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	27.35	
26 01 20 99-0026	EA	Remove 4 Wire, 120/208 Volt, 100 Amp, Panel Board (For Replace 400 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	455.82	
26 01 20 99-0027	EA	Remove 4 Wire, 120/208 Volt, 400 Amp, Panel Board (For Replace 400 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	1,139.61	
26 01 20 99-0028	EA	Install New 100 Amp Main Circuit Breaker, 4 Wire, 120/208 Volt, Panel Board (For Replace 400 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	7,206.03	
26 01 20 99-0029	EA	Install New 400 Amp Main Circuit Breaker, 4 Wire, 120/208 Volt, Panel Board (For Replace 400 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	11,904.99	
26 01 20 99-0030	EA	Test Circuits (For Replace 400 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	19.83	
26 01 20 99-0031		Replace 600 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear ⁽²⁶		
		^{01 20 99-0014)}		
26 01 20 99-0032	EA	Turn Power Off, Later Turn On (For Replace 600 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	41.03	
26 01 20 99-0033	EA	Remove 4 Wire, 120/208 Volt, 200 Amp, Panel Board (For Replace 600 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	911.77	
26 01 20 99-0034	EA	Remove Incoming Section (For Replace 600 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	663.01	
26 01 20 99-0035	EA	Remove Distribution Section (For Replace 600 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	547.03	
26 01 20 99-0036	EA	Install New 225 Amp Main Circuit Breaker, 4 Wire, 120/208 Volt, Panel Board (For Replace 600 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	7,272.71	
26 01 20 99-0037	EA	Install New Incoming Section, 600 Amp (For Replace 600 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	7,639.35	
26 01 20 99-0038	EA	Install New Distribution Section, 600 Amp (For Replace 600 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	3,935.46	
26 01 20 99-0039	EA	Test Circuits (For Replace 600 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	29.81	
26 01 20 99-0040		Replace 800 Amp Switchgear, Less Than 600 Volt Indoor Switchgear ^{(26 01 20}		
		⁹⁹⁻⁰⁰¹⁴⁾		
26 01 20 99-0041	EA	Turn Power Off, Later Turn On (For Replace 800 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	54.70	
26 01 20 99-0042	EA	Remove 4 Wire, 120/208 Volt, 200 Amperes, 2 Panel Boards (For Replace 800 Amp Switchgear, Less Than 600 Volt Indoor Switchgear).....	1,823.40	
26 01 20 99-0043	EA	Remove Incoming Section (For Replace 800 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	754.50	
26 01 20 99-0044	EA	Remove Distribution Section (For Replace 800 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	607.75	
26 01 20 99-0045	EA	Install New 225 Amperes Main Lugs, 4 Wire, 120/208 Volt, 2 Panel Boards (For Replace 800 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	14,064.78	
26 01 20 99-0046	EA	Install New Incoming Section, 800 Amperes (For Replace 800 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	7,937.75	
26 01 20 99-0047	EA	Install New Distribution Section, 800 Amperes (For Replace 800 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	4,690.69	
26 01 20 99-0048	EA	Test Circuits (For Replace 800 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	39.80	
26 01 20 99-0049		Replace 1,200 Amp Switchgear, Less Than 600 Volt Indoor Switchgear ^{(26 01}		
		^{20 99-0014)}		
26 01 20 99-0050	EA	Turn Power Off, Later Turn On (For Replace 1,200 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	82.06	
26 01 20 99-0051	EA	Remove 4 Wire, 120/208 Volt, 200 Amperes, 4 Panel Boards (For Replace 1,200 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	3,646.94	
26 01 20 99-0052	EA	Remove Incoming Section (For Replace 1,200 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	911.77	
26 01 20 99-0053	EA	Remove Distribution Section (For Replace 1,200 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	705.81	
26 01 20 99-0054	EA	Install New 225 Amperes Main Lugs, 4 Wire, 120/208 Volt, 4 Panel Boards (For Replace 1,200 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	28,129.56	
26 01 20 99-0055	EA	Install New Incoming Section, 1,200 Amperes (For Replace 1,200 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	9,590.14	
26 01 20 99-0056	EA	Install New Distribution Section, 1,200 Amperes (For Replace 1,200 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	6,352.94	
26 01 20 99-0057	EA	Test Circuits (For Replace 1,200 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	59.63	
26 01 20 99-0058		Replace 1,600 Amp Switchgear, Less Than 600 Volt Indoor Switchgear ^{(26 01}		
		^{20 99-0014)}		
26 01 20 99-0059	EA	Turn Power Off, Later Turn On (For Replace 1,600 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	109.41	
26 01 20 99-0060	EA	Remove 4 Wire, 120/208 Volt, 200 Amperes, 6 Panel Boards (For Replace 1,600 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	5,470.34	
26 01 20 99-0061	EA	Remove Incoming Section (For Replace 1,600 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	994.64	
26 01 20 99-0062	EA	Remove Distribution Section (For Replace 1,600 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	754.50	
26 01 20 99-0063	EA	Install New 225 Amperes Main Lugs, 4 Wire, 120/208 Volt, 6 Panel Boards (For Replace 1,600 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	42,194.21	
26 01 20 99-0064	EA	Install New Incoming Section, 1,600 Amperes (For Replace 1,600 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	9,866.39	
26 01 20 99-0065	EA	Install New Distribution Section, 1,600 Ampere (For Replace 1,600 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	8,493.73	
26 01 20 99-0066	EA	Test Circuits (For Replace 1,600 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear).....	79.59	
26 01 20 99-0067		Replace 2,000 Amp Switchgear, Less Than 600 Volt Indoor Switchgear ^{(26 01}		
		^{20 99-0014)}		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 20 99-0068 EA Turn Power Off, Later Turn On (For Replace 2,000 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear)	136.76	
26 01 20 99-0069 EA Remove 4 Wire, 120/208 Volt, 200 Amperes, 8 Panel Boards (For Replace 2,000 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear)	7,293.74	
26 01 20 99-0070 EA Remove Incoming Section (For Replace 2,000 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear)	1,041.96	
26 01 20 99-0071 EA Remove Distribution Section (For Replace 2,000 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear)	810.43	
26 01 20 99-0072 EA Install New 225 Amperes Main Lugs, 4 Wire, 120/208 Volt, 8 Panel Boards (For Replace 2,000 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear)	56,258.99	
26 01 20 99-0073 EA Install New Incoming Section, 2,000 Amperes (For Replace 2,000 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear)	10,695.95	
26 01 20 99-0074 EA Install New Distribution Section, 2,000 Amperes (For Replace 2,000 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear)	10,091.23	
26 01 20 99-0075 EA Test Circuits (For Replace 2,000 Amperes Switchgear, Less Than 600 Volt Indoor Switchgear)	99.42	
26 01 20 99-0076 600 Volt Indoor Switchgear (26 01 20 99-0001)		
26 01 20 99-0077 Maintenance And Repair (5% Of Total Fuses) 600 Volt Indoor Switchgear (26 01 20 99-0076)		
26 01 20 99-0078 EA Remove Fuse (For Maintenance And Repair (5% Of Total Fuses) 600 Volt Indoor Switchgear)	20.65	
26 01 20 99-0079 EA Install New Fuse (For Maintenance And Repair (5% Of Total Fuses) 600 Volt Indoor Switchgear)	509.33	
26 01 20 99-0080 Maintenance And Inspection, 600 Volt Indoor Switchgear (26 01 20 99-0076)		
26 01 20 99-0081 EA Inspect And Clean Panel (For Maintenance And Inspection, 600 Volt Indoor Switchgear)	68.38	
26 01 20 99-0082 Replace 600 Volt Switchgear (26 01 20 99-0076)		
26 01 20 99-0083 EA Remove Indoor Switchgear (For Replace 600 Volt Switchgear)	547.03	
26 01 20 99-0084 EA Install New Switchgear (For Replace 600 Volt Switchgear)	3,343.56	
26 01 20 99-0085 EA Test Circuits (For Replace 600 Volt Switchgear)	273.52	
26 01 20 99-0086 Switchboard Meters (26 01 20 99-0001)		
26 01 20 99-0087 Repair Switchboard Meter (26 01 20 99-0086)		
26 01 20 99-0088 EA Repair Meter (For Repair Switchboard Meter)	1,563.75	
26 01 20 99-0089 Replace Switchboard Meter (26 01 20 99-0086)		
26 01 20 99-0090 EA Remove Meter (For Replace Switchboard Meter)	68.38	
26 01 20 99-0091 EA Install New Meter (For Replace Switchboard Meter)	4,618.61	
26 01 20 99-0092 Inverter (26 01 20 99-0001)		
26 01 20 99-0093 Maintenance And Repair, 1 KVA Inverter (26 01 20 99-0092)		
26 01 20 99-0094 EA Repair Inverter Component (For Maintenance And Repair, 1 KVA Inverter)	1,094.60	
26 01 20 99-0095 Maintenance And Inspection, 1 KVA Inverter (26 01 20 99-0092)		
26 01 20 99-0096 EA Check Connections, Controls And Relays, Maintenance And Inspection, 1 KVA Inverter	218.81	
26 01 20 99-0097 Replace 1 KVA Inverter (26 01 20 99-0092)		
26 01 20 99-0098 EA Remove Inverter (For Replace 1 KVA Inverter)	68.38	
26 01 20 99-0099 EA Install New Inverter (For Replace 1 KVA Inverter)	4,326.93	
26 01 20 99-0100 Up To 600 Volt Rectifier (26 01 20 99-0001)		
26 01 20 99-0101 Maintenance And Repair, Up To 600 Volt Rectifier (26 01 20 99-0100)		
26 01 20 99-0102 EA Repair Rectifier Component (For Maintenance And Repair, Up To 600 Volt Rectifier)	917.58	
26 01 20 99-0103 Maintenance And Inspection, Up To 600 Volt Rectifier (26 01 20 99-0100)		
26 01 20 99-0104 EA Check Connections, Controls And Relays (For Maintenance And Inspection, Up To 600 Volt Rectifier)	218.81	
26 01 20 99-0105 Replace Up To 600 Volt Rectifier (26 01 20 99-0100)		
26 01 20 99-0106 EA Remove Rectifier (For Replace Up To 600 Volt Rectifier)	68.38	
26 01 20 99-0107 EA Install New Rectifier (For Replace Up To 600 Volt Rectifier)	1,341.70	
26 01 20 99-0108 Less Than 600 Volt Motor Starter (26 01 20 99-0001)		
26 01 20 99-0109 Maintenance And Repair, Less Than 600 Volt Motor Starter (26 01 20 99-0108)		
26 01 20 99-0110 EA Remove Motor Starter Coil (For Maintenance And Repair, Less Than 600 Volt Motor Starter)	68.38	
26 01 20 99-0111 EA Install New Motor Starter Coil (For Maintenance And Repair, Less Than 600 Volt Motor Starter)	311.93	
26 01 20 99-0112 Maintenance And Inspection, Less Than 600 Volt Motor Starter (26 01 20 99-0108)		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 20 99-0113	EA	Inspect And Clean Motor Starter (For Maintenance And Inspection, Less Than 600 Volt Motor Starter)	91.22	
26 01 20 99-0114		Replace Starter, Less Than 600 Volt Motor Starter (26 01 20 99-0108)		
26 01 20 99-0115	EA	Remove Motor Starter (For Replace Starter, Less Than 600 Volt Motor Starter)	122.95	
26 01 20 99-0116	EA	Install New 5 HP, Size 0, Magnetic Motor Starter (For Replace Starter, Less Than 600 Volt Motor Starter)	979.58	
26 01 20 99-0117	EA	Cut, Form, Align And Connect Wires (For Replace Starter, Less Than 600 Volt Motor Starter)	20.65	
26 01 20 99-0118	EA	Check Operation Of Motor Starter (For Replace Starter, Less Than 600 Volt Motor Starter)	2.46	
26 01 20 99-0119		600 Volt Motor Starter (26 01 20 99-0001)		
26 01 20 99-0120		Maintenance And Repair, 600 Volt Motor Starter (26 01 20 99-0119)		
26 01 20 99-0121	EA	Remove Motor Starter Coil (For Maintenance And Repair, 600 Volt Motor Starter)	232.76	
26 01 20 99-0122	EA	Install New Motor Starter Coil (For Maintenance And Repair, 600 Volt Motor Starter)	830.59	
26 01 20 99-0123		Maintenance And Inspection, 600 Volt Motor Starter (26 01 20 99-0119)		
26 01 20 99-0124	EA	Inspect And Clean Motor Starter (For Maintenance And Inspection, 600 Volt Motor Starter)	91.22	
26 01 20 99-0125		Replace 600 Volt Motor Starter (26 01 20 99-0119)		
26 01 20 99-0126	EA	Remove Motor Starter (For Replace 600 Volt Motor Starter)	455.82	
26 01 20 99-0127	EA	Install New 3 Pole, 100 HP Motor, FVRN Motor Starter (For Replace 600 Volt Motor Starter)	6,670.99	
26 01 20 99-0128	EA	Cut, Form, Align And Connect Wires (For Replace 600 Volt Motor Starter)	23.25	
26 01 20 99-0129	EA	Check Operation Of Motor Starter (For Replace 600 Volt Motor Starter)	2.46	
26 01 20 99-0130		Liquid Filled Secondary Transformer (26 01 20 99-0001)		
26 01 20 99-0131		Maintenance And Repair, Liquid Filled Secondary Transformer (26 01 20 99-0130)		
26 01 20 99-0132	EA	Remove Transformer Terminal (For Maintenance And Repair, Liquid Filled Secondary Transformer)	47.59	
26 01 20 99-0133	EA	Install New Transformer Terminal (For Maintenance And Repair, Liquid Filled Secondary Transformer)	152.10	
26 01 20 99-0134		Maintenance And Inspection, Liquid Filled Secondary Transformer (26 01 20 99-0130)		
26 01 20 99-0135	EA	Check Connections And Fluid (For Maintenance And Inspection, Liquid Filled Secondary Transformer)	91.22	
26 01 20 99-0136		Dry Secondary Transformer (26 01 20 99-0001)		
26 01 20 99-0137		Maintenance And Repair, Dry Secondary Transformer (26 01 20 99-0136)		
26 01 20 99-0138	EA	Remove Transformer Terminal (For Maintenance And Repair, Dry Secondary Transformer)	68.38	
26 01 20 99-0139	EA	Install New Transformer Terminal (For Maintenance And Repair, Dry Secondary Transformer)	276.98	
26 01 20 99-0140		Maintenance And Inspection Dry Secondary Transformer (26 01 20 99-0136)		
26 01 20 99-0141	EA	Inspect Connections And Tighten (For Maintenance And Inspection Dry Secondary Transformer)	136.76	
26 01 20 99-0142		Replace 15 KVA Transformer (26 01 20 99-0136)		
26 01 20 99-0143	EA	Remove Transformer, Including Support, Wire And Conduit Terminations (For Replace 15 KVA Transformer)	596.27	
26 01 20 99-0144	EA	Install New 240/480 Volt Primary, 120/208 V Secondary Transformer (For Replace 15 KVA Transformer)	3,687.17	
26 01 20 99-0145		Replace 112.5 KVA Transformer (26 01 20 99-0136)		
26 01 20 99-0146	EA	Remove Transformer, Including Support, Wire And Conduit Terminations (For Replace 112.5 KVA Transformer)	996.92	
26 01 20 99-0147	EA	Install New 240/480 Volt Primary, 120/208 V Secondary Transformer (For Replace 112.5 KVA Transformer)	7,731.02	
26 01 20 99-0148		Replace 500 KVA Transformer (26 01 20 99-0136)		
26 01 20 99-0149	EA	Remove Transformer, Including Support, Wire And Conduit Terminations (For Replace 500 KVA Transformer)	2,064.96	
26 01 20 99-0150	EA	Install New 240/480 Volt Primary, 120/208 V Secondary Transformer (For Replace 500 KVA Transformer)	27,129.10	
26 01 20 99-0151		Indoor Lighting Panel (26 01 20 99-0001)		
26 01 20 99-0152		Maintenance And Inspection, Indoor Lighting Panel (26 01 20 99-0151)		
26 01 20 99-0153	EA	Inspect And Clean Panels (For Maintenance And Inspection, Indoor Lighting Panel)	68.38	
26 01 20 99-0154		Replace 100 Amp Load Center (26 01 20 99-0151)		
26 01 20 99-0155	EA	Turn Power Off, Later Turn On (For Replace 100 Amp Load Center)	13.68	
26 01 20 99-0156	EA	Remove 3 Wire, 120/240 Volt, Load Center (For Replace 100 Amp Load Center)	420.81	
26 01 20 99-0157	EA	Install New 3 Wire, 120/240 Volt, 100 Amp, Load Center (For Replace 100 Amp Load Center)	1,284.59	
26 01 20 99-0158	EA	Test Circuits (For Replace 100 Amp Load Center)	9.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 20 99-0159	Lighting And Branch Wiring (26 01 20 99) Note: Includes all required small tools and equipment.	
26 01 20 99-0160	Wireway (26 01 20 99-0159)	
26 01 20 99-0161	Replace 8" x 8" Wireway (26 01 20 99-0160)	
26 01 20 99-0162 LF	Remove And Reinstall Supply Box (For Replace 8" x 8" Wireway)	6.84
26 01 20 99-0163 LF	Remove Wireway, Fittings And Support (For Replace 8" x 8" Wireway)	13.68
26 01 20 99-0164 LF	Install New Wireway, Fittings And Support (For Replace 8" x 8" Wireway)	92.49
26 01 20 99-0165	Non-Metallic (NM) Tubing/Sheathed Cable (26 01 20 99-0159)	
26 01 20 99-0166	Replace Non-Metallic (NM) Tubing/Sheathed Cable (26 01 20 99-0165)	
26 01 20 99-0167 MLF	Shut Off Power, Later Turn On (For Replace Non-Metallic (NM) Tubing/Sheathed Cable)	13.68
26 01 20 99-0168 MLF	Remove And Reinstall Cover Plate (For Replace Non-Metallic (NM) Tubing/Sheathed Cable)	176.42
26 01 20 99-0169 MLF	Remove Junction Box (For Replace Non-Metallic (NM) Tubing/Sheathed Cable)	136.76
26 01 20 99-0170 MLF	Remove Non-Metallic (NM) Tubing, #12, 2 Wire (For Replace Non-Metallic (NM) Tubing/Sheathed Cable)	1,739.57
26 01 20 99-0171 MLF	Install Non-Metallic (NM) Tubing, #12, 2 Wire (For Replace Non-Metallic (NM) Tubing/Sheathed Cable)	5,061.94
26 01 20 99-0172 MLF	Install New Staples, For Romex Or BX Cable (For Replace Non-Metallic (NM) Tubing/Sheathed Cable)	551.41
26 01 20 99-0173 MLF	Install New Cable Connectors For #12, 2 Wire (For Replace Non-Metallic (NM) Tubing/Sheathed Cable)	115.52
26 01 20 99-0174 MLF	Install New 4" Outlet Box Square For Romex Or BX (For Replace Non-Metallic (NM) Tubing/Sheathed Cable)	649.35
26 01 20 99-0175	Service Cable (26 01 20 99-0159)	
26 01 20 99-0176	Replace Service Cable (26 01 20 99-0175)	
26 01 20 99-0177 MLF	Shut Off Power, Later Turn On (For Replace Service Cable)	13.68
26 01 20 99-0178 MLF	Remove And Reinstall Cover Plate (For Replace Service Cable)	176.42
26 01 20 99-0179 MLF	Remove Junction Box (For Replace Service Cable)	136.76
26 01 20 99-0180 MLF	Remove #6 XLPE Wire (For Replace Service Cable)	273.52
26 01 20 99-0181 MLF	Install New 600 Volt, Copper Type XLPE-USE (For Replace Service Cable)	3,189.20
26 01 20 99-0182 MLF	Install New Staples For Service Cable (For Replace Service Cable)	692.55
26 01 20 99-0183 MLF	Install New SER Cable Connectors (For Replace Service Cable)	558.25
26 01 20 99-0184 MLF	Install New 4" Outlet Box Square (For Replace Service Cable)	582.74
26 01 20 99-0185	Cable, Armored (26 01 20 99-0159)	
26 01 20 99-0186	Replace Armored Cable (26 01 20 99-0185)	
26 01 20 99-0187 MLF	Shut Off Power, Later Turn On (For Replace Armored Cable)	13.68
26 01 20 99-0188 MLF	Remove And Reinstall Cover Plate (For Replace Armored Cable)	176.42
26 01 20 99-0189 MLF	Remove Junction Box (For Replace Armored Cable)	136.76
26 01 20 99-0190 MLF	Remove Armored Cable (For Replace Armored Cable)	1,807.95
26 01 20 99-0191 MLF	Install New #12, 2 Wire, BX (For Replace Armored Cable)	5,252.69
26 01 20 99-0192 MLF	Install New Staples, For Romex Or BX Cable (For Replace Armored Cable)	551.41
26 01 20 99-0193 MLF	Install New Cable Connector (For Replace Armored Cable)	284.15
26 01 20 99-0194 MLF	Install New 4" Outlet Box Square For Romex Or BX (For Replace Armored Cable)	649.35
26 01 20 99-0195	Branch Wiring With Junction Box (26 01 20 99-0159)	
26 01 20 99-0196	Replace Branch Wiring (26 01 20 99-0195)	
26 01 20 99-0197 MLF	Shut Off Power, Later Turn On (For Replace Branch Wiring)	13.68
26 01 20 99-0198 MLF	Remove And Reinstall Cover Plate (For Replace Branch Wiring)	176.42
26 01 20 99-0199 MLF	Remove Junction Box (For Replace Branch Wiring)	136.76
26 01 20 99-0200 MLF	Remove #12 Wire (For Replace Branch Wiring)	198.98
26 01 20 99-0201 MLF	Install New #12 Copper, Stranded, Conductor (For Replace Branch Wiring)	1,589.06
26 01 20 99-0202 MLF	Install New 4" Outlet Box Square (For Replace Branch Wiring)	582.74
26 01 20 99-0203 MLF	Install New Wire Connectors (For Replace Branch Wiring)	142.02
26 01 20 99-0204	600 Volt Branch Wiring (26 01 20 99-0159)	
26 01 20 99-0205	Replace 600 Volt Branch Wiring (26 01 20 99-0204)	
26 01 20 99-0206 MLF	Shut Off Power, Later Turn On (For Replace 600 Volt Branch Wiring)	13.68
26 01 20 99-0207 MLF	Remove #12 Wire (For Replace 600 Volt Branch Wiring)	198.98
26 01 20 99-0208 MLF	Install New #12 Copper, Stranded, Conductor (For Replace 600 Volt Branch Wiring)	1,589.06
26 01 20 99-0209 MLF	Cut, Form And Align 4 Wires (For Replace 600 Volt Branch Wiring)	56.07
26 01 20 99-0210 MLF	Splice, Solder, Insulate 2 Wires (For Replace 600 Volt Branch Wiring)	364.73
26 01 20 99-0211	Circuit Breaker (26 01 20 99-0159)	
26 01 20 99-0212	Maintenance And Repair, 480 Volt, 1 Pole Molded Case Circuit Breaker (26 01 20 99-0211)	
26 01 20 99-0213 EA	Tighten Connections (For Maintenance And Repair, 480 Volt, 1 Pole Molded Case Circuit Breaker)	121.58
26 01 20 99-0214	Maintenance And Inspection, 480 Volt, 1 Pole Molded Case Circuit Breaker (26 01 20 99-0211)	
26 01 20 99-0215 EA	Inspect, Tighten Circuit Breaker Wiring (For Maintenance And Inspection, 480 Volt, 1 Pole Molded Case Circuit Breaker)	54.70

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 20 99-0216		Replace 480 Volt, 1 Pole Molded Case Circuit Breaker (26 01 20 99-0211)		
26 01 20 99-0217	EA	Remove Circuit Breaker (For Replace 480 Volt, 1 Pole Molded Case Circuit Breaker)	47.59	
26 01 20 99-0218	EA	Install New 70 To 100 Amp Circuit Breaker (For Replace 480 Volt, 1 Pole Molded Case Circuit Breaker)	873.87	
26 01 20 99-0219	EA	Cut, Form, Align And Connect Wires (For Replace 480 Volt, 1 Pole Molded Case Circuit Breaker)	20.65	
26 01 20 99-0220	EA	Check Operation Of Breaker (For Replace 480 Volt, 1 Pole Molded Case Circuit Breaker)	2.46	
26 01 20 99-0221		Maintenance And Repair, 480 Volt, 2 Pole Molded Case Circuit Breaker (26 01 20 99-0211)		
26 01 20 99-0222	EA	Tighten Connections (For Maintenance And Repair, 480 Volt, 2 Pole Molded Case Circuit Breaker)	121.58	
26 01 20 99-0223		Maintenance And Inspection, 480 Volt, 2 Pole Molded Case Circuit Breaker (26 01 20 99-0211)		
26 01 20 99-0224	EA	Inspect, Tighten Circuit Breaker Wiring (For Maintenance And Inspection, 480 Volt, 2 Pole Molded Case Circuit Breaker)	54.70	
26 01 20 99-0225		Replace 480 Volt, 2 Pole Molded Case Circuit Breaker (26 01 20 99-0211)		
26 01 20 99-0226	EA	Remove Circuit Breaker (For Replace 480 Volt, 2 Pole Molded Case Circuit Breaker)	68.38	
26 01 20 99-0227	EA	Install New 70 To 100 Amp Circuit Breaker (For Replace 480 Volt, 2 Pole Molded Case Circuit Breaker)	1,226.67	
26 01 20 99-0228	EA	Cut, Form, Align And Connect Wires (For Replace 480 Volt, 2 Pole Molded Case Circuit Breaker)	20.65	
26 01 20 99-0229	EA	Check Operation Of Breaker (For Replace 480 Volt, 2 Pole Molded Case Circuit Breaker)	2.46	
26 01 20 99-0230		Maintenance And Repair, 480 Volt, 3 Pole Molded Case Circuit Breaker (26 01 20 99-0211)		
26 01 20 99-0231	EA	Tighten Connections (For Maintenance And Repair, 480 Volt, 3 Pole Molded Case Circuit Breaker)	121.58	
26 01 20 99-0232		Maintenance And Inspection, 480 Volt, 3 Pole Molded Case Circuit Breaker (26 01 20 99-0211)		
26 01 20 99-0233	EA	Inspect And Tighten Circuit Breaker Wiring (For Maintenance And Inspection, 480 Volt, 3 Pole Molded Case Circuit Breaker)	54.70	
26 01 20 99-0234		Replace 480 Volt, 3 Pole Molded Case Circuit Breaker (26 01 20 99-0211)		
26 01 20 99-0235	EA	Remove Circuit Breaker (For Replace 480 Volt, 3 Pole Molded Case Circuit Breaker)	68.38	
26 01 20 99-0236	EA	Install New 70 To 100 Amp Circuit Breaker (For Replace 480 Volt, 3 Pole Molded Case Circuit Breaker)	1,533.34	
26 01 20 99-0237	EA	Cut, Form, Align And Connect Wires (For Replace 480 Volt, 3 Pole Molded Case Circuit Breaker)	20.65	
26 01 20 99-0238	EA	Check Operation Of Breaker (For Replace 480 Volt, 3 Pole Molded Case Circuit Breaker)	2.46	
26 01 20 99-0239		Replace 600 Volt, 2 Pole Molded Case Circuit Breaker Trip Switch (26 01 20 99-0211)		
26 01 20 99-0240	EA	Remove Trip Switch (For Replace 600 Volt, 2 Pole Molded Case Circuit Breaker Trip Switch)	68.38	
26 01 20 99-0241	EA	Install New Trip Switch (For Replace 600 Volt, 2 Pole Molded Case Circuit Breaker Trip Switch)	423.67	
26 01 20 99-0242		Maintenance And Inspection, 600 Volt, 2 Pole Molded Case Circuit Breaker (26 01 20 99-0211)		
26 01 20 99-0243	EA	Inspect And Tighten Circuit Breaker Wiring (For Maintenance And Inspection, 600 Volt, 2 Pole Molded Case Circuit Breaker)	54.70	
26 01 20 99-0244		Replace 600 Volt, 2 Pole Molded Case Circuit Breaker (26 01 20 99-0211)		
26 01 20 99-0245	EA	Remove Circuit Breaker (For Replace 600 Volt, 2 Pole Molded Case Circuit Breaker)	68.38	
26 01 20 99-0246	EA	Install New 70 To 100 Amp Circuit Breaker (For Replace 600 Volt, 2 Pole Molded Case Circuit Breaker)	1,270.49	
26 01 20 99-0247	EA	Cut, Form, Align And Connect Wires (For Replace 600 Volt, 2 Pole Molded Case Circuit Breaker)	23.25	
26 01 20 99-0248	EA	Check Operation Of Breaker (For Replace 600 Volt, 2 Pole Molded Case Circuit Breaker)	2.46	
26 01 20 99-0249		Replace 600 Volt, 3 Pole Molded Case Circuit Breaker Trip Switch (26 01 20 99-0211)		
26 01 20 99-0250	EA	Remove Trip Switch (For Replace 600 Volt, 3 Pole Molded Case Circuit Breaker Trip Switch)	68.38	
26 01 20 99-0251	EA	Install New Trip Switch (For Replace 600 Volt, 3 Pole Molded Case Circuit Breaker Trip Switch)	423.67	
26 01 20 99-0252		Maintenance And Inspection, 600 Volt, 3 Pole Molded Case Circuit Breaker (26 01 20 99-0211)		
26 01 20 99-0253	EA	Inspect And Tighten Circuit Breaker Wiring (For Maintenance And Inspection, 600 Volt, 3 Pole Molded Case Circuit Breaker)	54.70	
26 01 20 99-0254		Replace 600 Volt, 3 Pole Molded Case Circuit Breaker (26 01 20 99-0211)		
26 01 20 99-0255	EA	Remove Circuit Breaker (For Replace 600 Volt, 3 Pole Molded Case Circuit Breaker)	121.58	
26 01 20 99-0256	EA	Install New 125 To 400 Amp Circuit Breaker (For Replace 600 Volt, 3 Pole Molded Case Circuit Breaker)	5,241.07	
26 01 20 99-0257	EA	Cut, Form, Align And Connect Wires (For Replace 600 Volt, 3 Pole Molded Case Circuit Breaker)	23.25	
26 01 20 99-0258	EA	Check Operation Of Breaker (For Replace 600 Volt, 3 Pole Molded Case Circuit Breaker)	2.46	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 20 99-0259		Maintenance And Repair, 240 Volt, 1 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0260	EA	Tighten Connections (For Maintenance And Repair, 240 Volt, 1 Pole Enclosed Circuit Breaker)	121.58	
26 01 20 99-0261		Maintenance And Inspection, 240 Volt, 1 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0262	EA	Inspect And Tighten Circuit Breaker Wiring (For Maintenance And Inspection, 240 Volt, 1 Pole Enclosed Circuit Breaker)	54.70	
26 01 20 99-0263		Replace 240 Volt, 1 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0264	EA	Remove Circuit Breaker (For Replace 240 Volt, 1 Pole Circuit Breaker Enclosed)	68.38	
26 01 20 99-0265	EA	Install New 240 Volt, 1 Pole, 15 To 60 Amp, Circuit Breaker Enclosed (For Replace 240 Volt, 1 Pole Circuit Breaker Enclosed)	569.42	
26 01 20 99-0266	EA	Cut, Form, Align And Connect Wires (For Replace 240 Volt, 1 Pole Circuit Breaker Enclosed)	20.65	
26 01 20 99-0267	EA	Check Operation Of Breaker (For Replace 240 Volt, 1 Pole Circuit Breaker Enclosed)	2.46	
26 01 20 99-0268		Maintenance And Repair, 240 Volt, 2 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0269	EA	Tighten Connections (For Maintenance And Repair, 240 Volt, 2 Pole Circuit Breaker Enclosed)	121.58	
26 01 20 99-0270		Maintenance And Inspection, 240 Volt, 2 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0271	EA	Inspect And Tighten Circuit Breaker Wiring (For Maintenance And Inspection, 240 Volt, 2 Pole Circuit Breaker Enclosed)	54.70	
26 01 20 99-0272		Replace 240 Volt, 2 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0273	EA	Remove Circuit Breaker (For Replace 240 Volt, 2 Pole Circuit Breaker Enclosed)	68.38	
26 01 20 99-0274	EA	Install New Circuit Breaker Enclosed, 240 Volt, 15 To 60 Amp, 2 Pole (For Replace 240 Volt, 2 Pole Circuit Breaker Enclosed)	938.16	
26 01 20 99-0275	EA	Cut, Form, Align And Connect Wires (For Replace 240 Volt, 2 Pole Circuit Breaker Enclosed)	20.65	
26 01 20 99-0276	EA	Check Operation Of Breaker (For Replace 240 Volt, 2 Pole Circuit Breaker Enclosed)	2.46	
26 01 20 99-0277		Maintenance And Repair, 240 Volt, 3 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0278	EA	Tighten Connections (For Maintenance And Repair, 240 Volt, 3 Pole Circuit Breaker Enclosed)	121.58	
26 01 20 99-0279		Maintenance And Inspection, 240 Volt, 3 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0280	EA	Inspect And Tighten Circuit Breaker Wiring (For Maintenance And Inspection, 240 Volt, 3 Pole Circuit Breaker Enclosed)	54.70	
26 01 20 99-0281		Replace 240 Volt, 3 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0282	EA	Remove Circuit Breaker (For Replace 240 Volt, 3 Pole Circuit Breaker Enclosed)	68.38	
26 01 20 99-0283	EA	Install New Circuit Breaker Enclosed, 240 Volt, 15 To 60 Amp, 3 Pole (For Replace 240 Volt, 3 Pole Circuit Breaker Enclosed)	999.20	
26 01 20 99-0284	EA	Cut, Form, Align And Connect Wires (For Replace 240 Volt, 3 Pole Circuit Breaker Enclosed)	20.65	
26 01 20 99-0285	EA	Check Operation Of Breaker (For Replace 240 Volt, 3 Pole Circuit Breaker Enclosed)	2.46	
26 01 20 99-0286		Repair Failed 600 Volt, 2 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0287	EA	Repair Circuit Breaker Component (For Repair Failed 600 Volt, 2 Pole Circuit Breaker Enclosed)	905.27	
26 01 20 99-0288		Maintenance And Inspection, 600 Volt, 2 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0289	EA	Inspect And Tighten Circuit Breaker Wiring (For Maintenance And Inspection, 600 Volt, 2 Pole Circuit Breaker Enclosed)	54.70	
26 01 20 99-0290		Replace 600 Volt, 2 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0291	EA	Remove Circuit Breaker, 600 Volt, 100 Amp, 2 Pole (For Replace 600 Volt, 2 Pole Circuit Breaker Enclosed)	109.41	
26 01 20 99-0292	EA	Install New Circuit Breaker Enclosed, 600 Volt, 100 Amp, 2 Pole (For Replace 600 Volt, 2 Pole Circuit Breaker Enclosed)	1,489.31	
26 01 20 99-0293	EA	Cut, Form, Align And Connect Wires (For Replace 600 Volt, 2 Pole Circuit Breaker Enclosed)	23.25	
26 01 20 99-0294	EA	Check Operation Of Breaker (For Replace 600 Volt, 2 Pole Circuit Breaker Enclosed)	2.46	
26 01 20 99-0295		Repair Failed 600 Volt, 3 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0296	EA	Repair Circuit Breaker Component (For Replace 600 Volt, 3 Pole Circuit Breaker Enclosed)	1,290.12	
26 01 20 99-0297		Maintenance And Inspection, 600 Volt, 3 Pole Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0298	EA	Inspect And Tighten Circuit Breaker Wiring (For Maintenance And Inspection, 600 Volt, 3 Pole Circuit Breaker Enclosed)	54.70	

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 20 99-0299		Replace 600 Volt, 3 Pole 100 Amp Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0300	EA	Remove Circuit Breaker (For Replace 600 Volt, 3 Pole 100 Amp Circuit Breaker Enclosed)	121.58	
26 01 20 99-0301	EA	Install New Circuit Breaker Enclosed, 600 Volt, 100 Amp, 3 Pole (For Replace 600 Volt, 3 Pole 100 Amp Circuit Breaker Enclosed)	1,187.73	
26 01 20 99-0302	EA	Cut, Form, Align And Connect Wires (For Replace 600 Volt, 3 Pole 100 Amp Circuit Breaker Enclosed)	23.25	
26 01 20 99-0303	EA	Check Operation Of Breaker (For Replace 600 Volt, 3 Pole 100 Amp Circuit Breaker Enclosed)	2.46	
26 01 20 99-0304		Replace 600 Volt, 3 Pole 800 Amp, Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0305	EA	Remove Circuit Breaker (For Replace 600 Volt, 3 Pole 800 Amp, Circuit Breaker Enclosed)	607.75	
26 01 20 99-0306	EA	Install New Circuit Breaker Enclosed, 600 Volt, 800 Amp, 3 Pole (For Replace 600 Volt, 3 Pole 800 Amp, Circuit Breaker Enclosed)	11,858.62	
26 01 20 99-0307	EA	Cut, Form, Align And Connect Wires (For Replace 600 Volt, 3 Pole 800 Amp, Circuit Breaker Enclosed)	46.50	
26 01 20 99-0308	EA	Check Operation Of Breaker (For Replace 600 Volt, 3 Pole 800 Amp, Circuit Breaker Enclosed)	5.06	
26 01 20 99-0309		Replace 600 Volt, 3 Pole 1000 Amp Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0310	EA	Remove Circuit Breaker (For Replace 600 Volt, 3 Pole 1,000 Amp Circuit Breaker Enclosed)	705.81	
26 01 20 99-0311	EA	Install New Circuit Breaker Enclosed, 600 Volt, 1,000 Amp, 3 Pole (For Replace 600 Volt, 3 Pole 1,000 Amp Circuit Breaker Enclosed)	20,899.83	
26 01 20 99-0312	EA	Cut, Form, Align And Connect Wires (For Replace 600 Volt, 3 Pole 1,000 Amp Circuit Breaker Enclosed)	70.70	
26 01 20 99-0313	EA	Check Operation Of Breaker (For Replace 600 Volt, 3 Pole 1,000 Amp Circuit Breaker Enclosed)	7.52	
26 01 20 99-0314		Replace 600 Volt, 3 Pole 1600 Amp Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0315	EA	Remove Circuit Breaker (For Replace 600 Volt, 3 Pole 1,600 Amp Circuit Breaker Enclosed)	781.44	
26 01 20 99-0316	EA	Install New Circuit Breaker Enclosed, 600 Volt, 1,600 Amp, 3 Pole (For Replace 600 Volt, 3 Pole 1,600 Amp Circuit Breaker Enclosed)	24,510.85	
26 01 20 99-0317	EA	Cut, Form, Align And Connect Wires (For Replace 600 Volt, 3 Pole 1,600 Amp Circuit Breaker Enclosed)	93.13	
26 01 20 99-0318	EA	Check Operation Of Breaker (For Replace 600 Volt, 3 Pole 1,600 Amp Circuit Breaker Enclosed)	9.98	
26 01 20 99-0319		Replace 600 Volt, 3 Pole 2000 Amp Circuit Breaker Enclosed (26 01 20 99-0211)		
26 01 20 99-0320	EA	Remove Circuit Breaker (For Replace 600 Volt, 3 Pole 2,000 Amp Circuit Breaker Enclosed)	875.25	
26 01 20 99-0321	EA	Install New Circuit Breaker Enclosed, 600 Volt, 2,000 Amp, 3 Pole (For Replace 600 Volt, 3 Pole 2,000 Amp Circuit Breaker Enclosed)	30,916.01	
26 01 20 99-0322	EA	Cut, Form, Align And Connect Wires (For Replace 600 Volt, 3 Pole 2,000 Amp Circuit Breaker Enclosed)	193.92	
26 01 20 99-0323	EA	Check Operation Of Breaker (For Replace 600 Volt, 3 Pole 2,000 Amp Circuit Breaker Enclosed)	20.92	
26 01 20 99-0324		Safety Switch, Heavy-Duty (26 01 20 99-0159)		
26 01 20 99-0325		Maintenance And Repair, 3 Pole Heavy-Duty Safety Switch (26 01 20 99-0324)		
26 01 20 99-0326	EA	Resecure Lugs (For Maintenance And Repair, 3 Pole Heavy-Duty Safety Switch)	68.38	
26 01 20 99-0327		Maintenance And Inspection, 3 Pole Safety Switch (26 01 20 99-0324)		
26 01 20 99-0328	EA	Inspect And Clean Safety Switch (For Maintenance And Inspection, 3 Pole Safety Switch)	68.38	
26 01 20 99-0329		Replace 30 Amp Heavy-Duty Safety Switch (26 01 20 99-0324)		
26 01 20 99-0330	EA	Remove Safety Switch (For Replace 30 Amp Heavy-Duty Safety Switch)	88.89	
26 01 20 99-0331	EA	Install New Fused Safety Switch, Heavy-Duty, 600 Volt, 3 Pole, 30 Amp (For Replace 30 Amp Heavy Duty Safety Switch)	593.86	
26 01 20 99-0332	EA	Install New Fuses (For Replace 30 Amp Heavy-Duty Safety Switch)	225.02	
26 01 20 99-0333	EA	Check Operation Of Switch (For Replace 30 Amp Heavy-Duty Safety Switch)	2.46	
26 01 20 99-0334		Replace 100 Amp Heavy-Duty Safety Switch (26 01 20 99-0324)		
26 01 20 99-0335	EA	Remove Safety Switch (For Replace 100 Amp Heavy-Duty Safety Switch)	149.89	
26 01 20 99-0336	EA	Install New Fused Safety Switch, Heavy-Duty, 600 Volt, 3 Pole, 100 Amp (For Replace 100 Amp Heavy Duty Safety Switch)	1,068.87	
26 01 20 99-0337	EA	Install New Fuses (For Replace 100 Amp Heavy-Duty Safety Switch)	375.50	
26 01 20 99-0338	EA	Check Operation Of Switch (For Replace 100 Amp Heavy-Duty Safety Switch)	2.46	
26 01 20 99-0339		Replace 200 Amp Heavy-Duty Safety Switch (26 01 20 99-0324)		
26 01 20 99-0340	EA	Remove Safety Switch (For Replace 200 Amp Heavy-Duty Safety Switch)	218.81	
26 01 20 99-0341	EA	Install New Fused Safety Switch, Heavy-Duty, 600 Volt, 3 Pole, 200 Amp (For Replace 200 Amp Heavy Duty Safety Switch)	1,630.37	
26 01 20 99-0342	EA	Install New Fuses (For Replace 200 Amp Heavy-Duty Safety Switch)	661.54	
26 01 20 99-0343	EA	Check Operation Of Switch (For Replace 200 Amp Heavy-Duty Safety Switch)	2.46	
26 01 20 99-0344		Replace 400 Amp Heavy-Duty Safety Switch (26 01 20 99-0324)		
26 01 20 99-0345	EA	Remove Safety Switch (For Replace 400 Amp Heavy-Duty Safety Switch)	321.79	
26 01 20 99-0346	EA	Install New Fused Safety Switch, Heavy-Duty, 600 Volt, 3 Pole, 400 Amp (For Replace 400 Amp Heavy Duty Safety Switch)	3,023.23	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 20 99-0347	EA	Install New Fuses (For Replace 400 Amp Heavy-Duty Safety Switch)	1,352.76	
26 01 20 99-0348	EA	Check Operation Of Switch (For Replace 400 Amp Heavy-Duty Safety Switch)	5.06	
26 01 20 99-0349		Replace 600 Amp Heavy-Duty Safety Switch (26 01 20 99-0324)		
26 01 20 99-0350	EA	Remove Safety Switch (For Replace 600 Amp Heavy-Duty Safety Switch)	475.65	
26 01 20 99-0351	EA	Install New Fused Safety Switch, Heavy-Duty, 600 Volt, 3 Pole, 600 Amp (For Replace 600 Amp Heavy Duty Safety Switch).....	5,438.55	
26 01 20 99-0352	EA	Install New Fuses (For Replace 600 Amp Heavy-Duty Safety Switch)	1,692.33	
26 01 20 99-0353	EA	Check Operation Of Switch (For Replace 600 Amp Heavy-Duty Safety Switch)	5.06	
26 01 20 99-0354		Safety Switch, General Duty (26 01 20 99-0159)		
26 01 20 99-0355		Maintenance And Repair, 2 Pole General Safety Switch (26 01 20 99-0354)		
26 01 20 99-0356	EA	Resecure Lugs (For Maintenance And Repair, 2 Pole General Safety Switch)	68.38	
26 01 20 99-0357		Maintenance And Inspection, 2 Pole Safety Switch (26 01 20 99-0354)		
26 01 20 99-0358	EA	Inspect And Clean Safety Switch (For Maintenance And Inspection, 2 Pole Safety Switch)	68.38	
26 01 20 99-0359		Replace 240 Volt, 2 Pole Safety Switch (26 01 20 99-0354)		
26 01 20 99-0360	EA	Remove Safety Switch (For Replace 240 Volt, 2 Pole Safety Switch)	88.89	
26 01 20 99-0361	EA	Install New Fused Safety Switch, General Duty, 240 Volt, 2 Pole, 30 Amp (For Replace 240 Volt, 2 Pole Safety Switch).....	429.44	
26 01 20 99-0362	EA	Install New Fuse, Dual Element, Time Delay, 250 Volt, 30 Amp (For Replace 240 Volt, 2 Pole Safety Switch).....	72.13	
26 01 20 99-0363	EA	Cut, Form, Align And Connect Wires (For Replace 240 Volt, 2 Pole Safety Switch)	20.65	
26 01 20 99-0364	EA	Check Operation Of Switch (For Replace 240 Volt, 2 Pole Safety Switch)	2.46	
26 01 20 99-0365		Maintenance And Repair, 3 Pole General Safety Switch (26 01 20 99-0354)		
26 01 20 99-0366	EA	Resecure Lugs (For Maintenance And Repair, 3 Pole General Safety Switch)	68.38	
26 01 20 99-0367		Maintenance And Inspection, 3 Pole Safety Switch (26 01 20 99-0354)		
26 01 20 99-0368	EA	Inspect And Clean Safety Switch (For Maintenance And Inspection, 3 Pole Safety Switch)	68.38	
26 01 20 99-0369		Replace 240 Volt, 3 Pole Safety Switch (26 01 20 99-0354)		
26 01 20 99-0370	EA	Remove Safety Switch (For Replace 240 Volt, 3 Pole Safety Switch)	88.89	
26 01 20 99-0371	EA	Install New Fused Safety Switch, General Duty, 240 Volt, 3 Pole, 30 Amp (For Replace 240 Volt, 3 Pole Safety Switch).....	494.17	
26 01 20 99-0372	EA	Install New Fuse, Dual Element, Time Delay, 250 Volt, 30 Amp (For Replace 240 Volt, 3 Pole Safety Switch).....	108.20	
26 01 20 99-0373	EA	Cut, Form, Align And Connect Wires (For Replace 240 Volt, 3 Pole Safety Switch)	20.65	
26 01 20 99-0374	EA	Check Operation Of Switch (For Replace 240 Volt, 3 Pole Safety Switch)	2.46	
26 01 20 99-0375		Replace Low Voltage Cartridge (26 01 20 99-0354)		
26 01 20 99-0376	EA	Remove Cartridge Fuse Cutouts (For Replace Low Voltage Cartridge)	13.68	
26 01 20 99-0377	EA	Install New Cartridge Fuse Cutouts 3 Pole (For Replace Low Voltage Cartridge)	66.17	
26 01 20 99-0378		Replace Plug Fuse (26 01 20 99-0354)		
26 01 20 99-0379	EA	Remove Plug Fuse (For Replace Plug Fuse)	10.94	
26 01 20 99-0380	EA	Install New Plug Fuse, 120 Volt, 15 To 30 Amp (For Replace Plug Fuse).....	27.41	
26 01 20 99-0381		Receptacles And Plugs (26 01 20 99-0159)		
26 01 20 99-0382		Maintenance And Repair, Receptacles And Plugs (26 01 20 99-0381)		
26 01 20 99-0383	EA	Repair Receptacle Component (Cover) (For Maintenance And Repair, Receptacles And Plugs)	70.21	
26 01 20 99-0384		Replace Receptacle/Plug, Receptacles And Plugs (26 01 20 99-0381)		
26 01 20 99-0385	EA	Turn Power Off, Later Turn On (For Replace Receptacle/Plug, Receptacles And Plugs)	13.68	
26 01 20 99-0386	EA	Remove And Reinstall Cover Plates (For Replace Receptacle/Plug, Receptacles And Plugs)	23.25	
26 01 20 99-0387	EA	Remove Receptacle (For Replace Receptacle/Plug, Receptacles And Plugs).....	5.47	
26 01 20 99-0388	EA	Install New Receptacle (For Replace Receptacle/Plug, Receptacles And Plugs).....	66.25	
26 01 20 99-0389	EA	Cut, Form, Align And Connect Wires (For Replace Receptacle/Plug, Receptacles And Plugs)	3.56	
26 01 20 99-0390	EA	Test For Operation, Receptacle (For Replace Receptacle/Plug, Receptacles And Plugs)	2.05	
26 01 20 99-0391		4-Pin Receptacle (26 01 20 99-0159)		
26 01 20 99-0392		Repair 4-Pin Receptacle Cover (26 01 20 99-0391)		
26 01 20 99-0393	EA	Repair Receptacle(Cover) (For Repair 4-Pin Receptacle Cover)	93.26	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 20 99-0394			Replace 4-Pin Receptacle (26 01 20 99-0391)		
26 01 20 99-0395	EA		Remove 4-Pin Receptacle (For Replace 4-Pin Receptacle)	27.35	
26 01 20 99-0396	EA		Install New 4-Pin Locking Receptacle (For Replace 4-Pin Receptacle)	176.68	
26 01 20 99-0397			Contactors And Relays (26 01 20 99-0159)		
26 01 20 99-0398			Maintenance And Repair, Contactors And Relays (26 01 20 99-0397)		
26 01 20 99-0399	EA		Remove Contactor Coil (For Maintenance And Repair, Contactors And Relays)	82.33	
26 01 20 99-0400	EA		Install New Contactor Coil (For Maintenance And Repair, Contactors And Relays)	317.34	
26 01 20 99-0401			Maintenance And Inspection, Contactors And Relays (26 01 20 99-0397)		
26 01 20 99-0402	EA		Inspect And Clean Contacts (For Maintenance And Inspection, Contactors And Relays)	34.19	
26 01 20 99-0403			Replace Contactor, Contactors And Relays (26 01 20 99-0397)		
26 01 20 99-0404	EA		Remove Magnetic Contactor (For Replace Contactor, Contactors And Relays)	109.41	
26 01 20 99-0405	EA		Install New Magnetic Contactor 600 Volt, 3 P, 25 HP (For Replace Contactor, Contactors And Relays)	1,054.89	
26 01 20 99-0406	EA		Cut, Form, Align And Connect Wires (For Replace Contactor, Contactors And Relays)	20.65	
26 01 20 99-0407	EA		Check Operation Of Contactor (For Replace Contactor, Contactors And Relays)	2.46	
26 01 20 99-0408			Wiring Devices, Switches (26 01 20 99-0159)		
26 01 20 99-0409			Maintenance And Repair, Wiring Devices, Switches (26 01 20 99-0408)		
26 01 20 99-0410	EA		Repair Switch Component (Cover) (For Maintenance And Repair, Wiring Devices, Switches)	70.21	
26 01 20 99-0411			Replace Switch, Wiring Devices, Switches (26 01 20 99-0408)		
26 01 20 99-0412	EA		Turn Power Off, Later Turn On (For Replace Switch, Wiring Devices, Switches)	13.68	
26 01 20 99-0413	EA		Remove And Reinstall Cover Plates (For Replace Switch, Wiring Devices, Switches)	23.25	
26 01 20 99-0414	EA		Remove Switch (For Replace Switch, Wiring Devices, Switches)	5.47	
26 01 20 99-0415	EA		Install New Switch (For Replace Switch, Wiring Devices, Switches)	57.20	
26 01 20 99-0416	EA		Cut, Form, Align And Connect Wires (For Replace Switch, Wiring Devices, Switches)	3.56	
26 01 20 99-0417	EA		Test For Operation (For Replace Switch, Wiring Devices, Switches)	2.05	
26 01 20 99-0418			Light Dimming Panel (26 01 20 99-0159)		
26 01 20 99-0419			Minor Repairs To Light Dimming Panel (26 01 20 99-0418)		
26 01 20 99-0420	EA		Check And Test Components (For Minor Repairs To Light Dimming Panel)	54.70	
26 01 20 99-0421	EA		Remove Dimming Panel Component (For Minor Repairs To Light Dimming Panel)	30.36	
26 01 20 99-0422	EA		Install New Dimming Panel Component (For Minor Repairs To Light Dimming Panel)	194.20	
26 01 20 99-0423			Maintenance And Inspection, Light Dimming Panel (26 01 20 99-0418)		
26 01 20 99-0424	EA		Check Light Dimming Panel (For Maintenance And Inspection, Light Dimming Panel)	72.89	
26 01 20 99-0425			Replace Light Dimming Panel (26 01 20 99-0418)		
26 01 20 99-0426	EA		Turn Power Off, Later Turn On (For Replace Light Dimming Panel)	13.68	
26 01 20 99-0427	EA		Remove Dimming Panel (For Replace Light Dimming Panel)	218.81	
26 01 20 99-0428	EA		Install New Dimming Panel (For Replace Light Dimming Panel)	2,167.66	
26 01 20 99-0429	EA		Test Circuits (For Replace Light Dimming Panel)	9.98	
26 01 20 99-0430			Switch, Pull Cord (26 01 20 99-0159)		
26 01 20 99-0431			Maintenance And Repair, Switch, Pull Cord (26 01 20 99-0430)		
26 01 20 99-0432	EA		Repair Switch Component (Cover) (For Maintenance And Repair, Switch, Pull Cord)	70.39	
26 01 20 99-0433			Replace Switch, Switch, Pull Cord (26 01 20 99-0430)		
26 01 20 99-0434	EA		Turn Power Off, Later Turn On (For Replace Switch, Switch, Pull Cord)	13.68	
26 01 20 99-0435	EA		Remove And Reinstall Cover Plates (For Replace Switch, Switch, Pull Cord)	23.25	
26 01 20 99-0436	EA		Remove Switch (For Replace Switch, Switch, Pull Cord)	5.47	
26 01 20 99-0437	EA		Install New Pull Cord Switch (For Replace Switch, Switch, Pull Cord)	66.31	
26 01 20 99-0438	EA		Cut, Form, Align And Connect Wires (For Replace Switch, Switch, Pull Cord)	3.56	
26 01 20 99-0439	EA		Test For Operation (For Replace Switch, Switch, Pull Cord)	2.05	
26 01 20 99-0440			EMT Conduit (26 01 20 99-0159)		
26 01 20 99-0441			Replace 1" EMT Conduit (26 01 20 99-0440)		
26 01 20 99-0442	MLF		Remove And Reinstall Cover Plate (For Replace 1" EMT Conduit)	176.42	
26 01 20 99-0443	MLF		Remove Conduit With Fittings And Hangers (For Replace 1" EMT Conduit)	2,776.20	
26 01 20 99-0444	MLF		Remove Junction Box (For Replace 1" EMT Conduit)	136.76	
26 01 20 99-0445	MLF		Install New 1" EMT With Couplings (For Replace 1" EMT Conduit)	8,325.95	
26 01 20 99-0446	MLF		Install New Outlet Box Square (For Replace 1" EMT Conduit)	582.74	



Electrical		26
Operation and Maintenance of Electrical Systems		26 01
Operation and Maintenance of Low-Voltage Electrical Distribution		26 01 20

26

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 01 20 99-0447	MLF	Install New Box Connector (For Replace 1" EMT Conduit).....	164.19	
26 01 20 99-0448	MLF	Install New Beam Clamp (For Replace 1" EMT Conduit).....	1,359.71	
26 01 20 99-0449	MLF	Install New Conduit Hanger (For Replace 1" EMT Conduit).....	2,189.66	
26 01 20 99-0450		Electrical Service & Distribution Preventative Maintenance (26 01 20 99) Note: Includes all required small tools and equipment.		
26 01 20 99-0451		Electrical Switchboard Preventative Maintenance (26 01 20 99-0450)		
26 01 20 99-0452	EA	Annual Preventative Maintenance For Electrical Switchboard..... Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Check Indicating Lamps For Proper Operation, If Appropriate; Replace Burned Out Lamps. 3. Remove And Reinstall Cover. 4. Check For Discolorations, Hot Spots, Odors And Charred Insulation. 5. Clean Switchboard Exterior And Surrounding Area. 6. Fill Out Maintenance Checklist And Report Deficiencies.	100.24	
26 01 20 99-0453		Switchboard With Air Circuit Breaker Preventative Maintenance (26 01 20 99-0450)		
26 01 20 99-0454	EA	Annual Preventative Maintenance For Switchboard With Air Circuit Breaker Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Check Indicating Lamps For Proper Operation, If Appropriate; Replace Burned Out Lamps. 3. Remove Switchboard From Service, Coordinate With Appropriate Authority. 4. Remove And Reinstall Cover. 5. Check For Discolorations, Hot Spots, Odors And Charred Insulation. 6. Check The Records On The Circuit Breaker For Any Full Current Rated Trips Which May Indicate A Potential Problem. 7. Examine The Exterior Of The Switchboard For Any Damage Or Moisture. 8. Check Operation Of Circuit Breaker Tripping Mechanism And Relays. 9. Check The Operation Of The Circuit Breaker Charging Motor. 10. Check Hardware For Tightness. 11. Check Interlock For Proper Operation. 12. Check That The Charger Is Operating Properly. 13. Check For Any Signs Of Corrosion On The Battery Terminals Or Wires. 14. Check The Electrolyte Level In The Batteries; Add As Required. 15. Check The Specific Gravity Of The Electrolyte In A 10% Sample Of The Batteries. 16. Check 25% Of Terminal-To-Cell Connection Resistance; Rehabilitate Connections As Required. 17. Apply Anti-Corrosion Grease To Battery Terminals And Connections. 18. Measure And Record Individual Cell And String Float Voltages. 19. Place Switchboard Back In Service, Notify Appropriate Authority. 20. Clean Switchboard, Charger And The Surrounding Area. 21. Fill Out Maintenance Checklist And Report Deficiencies.	638.34	
26 01 20 99-0455		Switchboard With Air Circuit Breaker And Tie Switch Preventative Maintenance (26 01 20 99-0450)		
26 01 20 99-0456	EA	Annual Preventative Maintenance For Switchboard With Air Circuit Breaker And Tie Switch Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Check Indicating Lamps For Proper Operation, If Appropriate; Replace Burned Out Lamps. 3. Remove Switchboard From Service, Coordinate With Appropriate Authority. 4. Remove And Reinstall Cover. 5. Check For Discolorations, Hot Spots, Odors And Charred Insulation. 6. Check The Records On The Circuit Breaker For Any Full Current Rated Trips Which May Indicate A Potential Problem. 7. Examine The Exterior Of The Switchboard For Any Damage Or Moisture. 8. Check Operation Of Circuit Breaker Tripping Mechanism And Relays. 9. Check The Operation Of The Circuit Breaker Charging Motor. 10. Check Hardware For Tightness. 11. Check Interlock For Proper Operation. 12. Operate The Switching Handle And Check The Locking Mechanism. 13. Check That The Charger Is Operating Properly. 14. Check For Any Signs Of Corrosion On The Battery Terminals Or Wires. 15. Check The Electrolyte Level In The Batteries; Add As Required. 16. Check The Specific Gravity Of The Electrolyte In A 10% Sample Of The Batteries. 17. Check 25% Of Terminal-To-Cell Connection Resistance; Rehabilitate Connections As Required. 18. Apply Anti-Corrosion Grease To Battery Terminals And Connections. 19. Measure And Record Individual Cell And String Float Voltages. 20. Place Switchboard Back In Service, Notify Appropriate Authority. 21. Clean Switchboard, Charger And The Surrounding Area. 22. Fill Out Maintenance Checklist And Report Deficiencies.	648.19	
26 01 20 99-0457		225 Amps And Above, Panel Board Preventative Maintenance (26 01 20 99-0450)		
26 01 20 99-0458	EA	Annual Preventative Maintenance For 225 Amperes And Above, Panel Board Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Check For Excessive Heat, Odors, Noise And Vibration. 3. Check General Condition Of Panel; Replace Lamps As Required. 4. Clean Panel. 5. Fill Out Maintenance Checklist And Report Deficiencies.	88.99	
26 01 20 99-0459		400 Amps And Above, Motor Control Center Preventative Maintenance (26 01 20 99-0450)		
26 01 20 99-0460	EA	Annual Preventative Maintenance For 400 Amps And Above, Motor Control Center Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Check Starter Lights; Install New Lights If Required. 3. Check For Excessive Heat, Odors, Noise And Vibration. 4. Check Motor Control Center Exterior And Surrounding Area. 5. Fill Out Maintenance Checklist And Report Deficiencies.	88.17	
26 01 26		Maintenance Testing of Electrical Systems (26 01)		
26 01 26 00-0001		TTR Maintenance Testing Or Meggar Maintenance Testing of Transformers (26 01 26) Note: Includes all required small tools and equipment. Use other MRO tasks required to remove equipment cover.		
26 01 26 00-0002		TTR Maintenance Testing Or Meggar Maintenance Testing of Transformers, Not Connected (26 01 26 00-0001)		
26 01 26 00-0003	EA	TTR Or Megger Maintenance Testing Of Up To 15 KVA, Single Phase Transformer, Not Connected.....	34.38	
26 01 26 00-0004	EA	TTR Or Megger Maintenance Testing Of >15 To 50 KVA, Single Phase Transformer, Not Connected	57.30	
26 01 26 00-0005	EA	TTR Or Megger Maintenance Testing Of 75 KVA, Single Phase Transformer, Not Connected	80.23	
26 01 26 00-0006	EA	TTR Or Megger Maintenance Testing Of 100 KVA, Single Phase Transformer, Not Connected	103.14	
26 01 26 00-0007	EA	TTR Or Megger Maintenance Testing Of 150 KVA, Single Phase Transformer, Not Connected	126.07	
26 01 26 00-0008	EA	TTR Or Megger Maintenance Testing Of 167 KVA, Single Phase Transformer, Not Connected	148.99	
26 01 26 00-0009	EA	TTR Or Megger Maintenance Testing Of 200 KVA, Single Phase Transformer, Not Connected	160.45	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 26 Maintenance Testing of Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 26 00-0010	EA	TTR Or Megger Maintenance Testing Of 250 KVA, Single Phase Transformer, Not Connected	171.90	
26 01 26 00-0011	EA	TTR Or Megger Maintenance Testing Of Up To 15 KVA, Three Phase Transformer, Not Connected	57.30	
26 01 26 00-0012	EA	TTR Or Megger Maintenance Testing Of >15 To 45 KVA, Three Phase Transformer, Not Connected	80.23	
26 01 26 00-0013	EA	TTR Or Megger Maintenance Testing Of 75 KVA, Three Phase Transformer, Not Connected	103.14	
26 01 26 00-0014	EA	TTR Or Megger Maintenance Testing Of 112.5 KVA, Three Phase Transformer, Not Connected	114.60	
26 01 26 00-0015	EA	TTR Or Megger Maintenance Testing Of 150 KVA, Three Phase Transformer, Not Connected	160.45	
26 01 26 00-0016	EA	TTR Or Megger Maintenance Testing Of 225 KVA, Three Phase Transformer, Not Connected	183.37	
26 01 26 00-0017	EA	TTR Or Megger Testing Of 300 KVA, Three Phase Transformer, Not Connected	206.29	
26 01 26 00-0018 TTR Maintenance Testing Or Meggar Maintenance Testing of Transformers, Connected (26 01 26 00-0001)				
26 01 26 00-0019	EA	TTR Or Megger Maintenance Testing Of Up To 15 KVA, Single Phase Transformer, Connected	57.30	
26 01 26 00-0020	EA	TTR Or Megger Maintenance Testing Of >15 To 50 KVA, Single Phase Transformer, Connected	80.23	
26 01 26 00-0021	EA	TTR Or Megger Maintenance Testing Of 75 KVA, Single Phase Transformer, Connected	91.69	
26 01 26 00-0022	EA	TTR Or Megger Maintenance Testing Of 100 KVA, Single Phase Transformer, Connected	114.60	
26 01 26 00-0023	EA	TTR Or Megger Maintenance Testing Of 150 KVA, Single Phase Transformer, Connected	160.45	
26 01 26 00-0024	EA	TTR Or Megger Maintenance Testing Of 167 KVA, Single Phase Transformer, Connected	194.83	
26 01 26 00-0025	EA	TTR Or Megger Maintenance Testing Of 200 KVA, Single Phase Transformer, Connected	206.29	
26 01 26 00-0026	EA	TTR Or Megger Maintenance Testing Of 250 KVA, Single Phase Transformer, Connected	217.75	
26 01 26 00-0027	EA	TTR Or Megger Maintenance Testing Of Up To 15 KVA, Three Phase Transformer, Connected	80.23	
26 01 26 00-0028	EA	TTR Or Megger Maintenance Testing Of >15 To 45 KVA, Three Phase Transformer, Connected	103.14	
26 01 26 00-0029	EA	TTR Or Megger Maintenance Testing Of 75 KVA, Three Phase Transformer, Connected	137.53	
26 01 26 00-0030	EA	TTR Or Megger Maintenance Testing Of 112.5 KVA, Three Phase Transformer, Connected	183.37	
26 01 26 00-0031	EA	TTR Or Megger Maintenance Testing Of 150 KVA, Three Phase Transformer, Connected	206.29	
26 01 26 00-0032	EA	TTR Or Megger Maintenance Testing Of 225 KVA, Three Phase Transformer, Connected	240.67	
26 01 26 00-0033	EA	TTR Or Megger Testing Of 300 KVA, Three Phase Transformer, Connected	309.43	
26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment (26 01)				
26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration (26 01 30)				
26 01 30 91-0001		Emergency Generator Permits (26 01 30 91)		
26 01 30 91-0002		Air Pollution Control Board (26 01 30 91-0001)		
26 01 30 91-0003	EA	APCD Permit To Construct And Operate Emergency Generator	5,181.28	
26 01 30 99 Facility Electrical Power Generating and Storing Equipment, Facilities Maintenance and Repair (26 01 30)				
Note: The Maintenance & Repair section is a listing of common maintenance tasks performed at facilities. Under the System Description column, each task, including its components, is described. Labor-hours have been enhanced, where appropriate, to include setup and delay time. In some cases, the list of steps comprising the task includes most of the potential repairs that could be made on a system. For those tasks, individual items, as appropriate, can be selected from the all-encompassing list.				
26 01 30 99-0001		175 KW Gasoline Generator (26 01 30 99)		
Note: Includes all required small tools and equipment.				
26 01 30 99-0002		175 KW, Gasoline Generator, Maintenance And Inspection (26 01 30 99-0001)		
26 01 30 99-0003	EA	Run Test Gasoline Generator (For 175 KW, Gasoline Generator, Maintenance And Inspection)	109.41	
26 01 30 99-0004		175 KW, Gasoline Generator, Replace Generator Component (26 01 30 99-0001)		
26 01 30 99-0005	EA	Remove Gasoline Generator (For 175 KW, Gasoline Generator, Replace Generator Component)	4,973.09	
26 01 30 99-0006	EA	Install New Gasoline Generator, 175 KW (For 175 KW, Gasoline Generator, Replace Generator Component)	95,297.04	
26 01 30 99-0007		750 KW Diesel Generator (26 01 30 99)		
Note: Includes all required small tools and equipment.				
26 01 30 99-0008		750 KW, Diesel Generator, Maintenance And Inspection (26 01 30 99-0007)		
26 01 30 99-0009	EA	Run Test Diesel Generator (For 750 KW, Diesel Generator, Maintenance And Inspection)	109.41	
26 01 30 99-0010		750 KW, Diesel Generator, Replace Diesel Generator Component (26 01 30 99-0007)		
26 01 30 99-0011	EA	Remove Diesel Generator (For 750 KW, Diesel Generator, Replace Diesel Generator Component)	7,814.79	
26 01 30 99-0012	EA	Install New Diesel Generator, 750 KW (For 750 KW, Diesel Generator, Replace Diesel Generator Component)	269,190.48	
26 01 30 99-0013		Transfer Switch (26 01 30 99)		
Note: Includes all required small tools and equipment.				
26 01 30 99-0014		Transfer Switch, Maintenance And Repair (26 01 30 99-0013)		
26 01 30 99-0015	EA	Remove Transfer Switch Coil (For Transfer Switch, Maintenance And Repair)	91.22	
26 01 30 99-0016	EA	Install New Transfer Switch Coil (For Transfer Switch, Maintenance And Repair)	417.03	
26 01 30 99-0017		Transfer Switch, Maintenance And Inspection (26 01 30 99-0013)		



	Electrical	26	
	Operation and Maintenance of Electrical Systems	26 01	26
	Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment	26 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 30 99-0018 EA Inspect And Clean Transfer Switch (For Transfer Switch, Maintenance And Inspection).....	68.38	
26 01 30 99-0019 Transfer Switch, Replace Transfer Switch (26 01 30 99-0013)		
26 01 30 99-0020 EA Remove Transfer Switch (For Transfer Switch, Replace Transfer Switch)	91.22	
26 01 30 99-0021 EA Install New Transfer Switch, 480 Volt, 3 Pole, 1,200 Amp (For Transfer Switch, Replace Transfer Switch)	28,544.78	
26 01 30 99-0022 EA Cut, Form, Align And Connect Wires (For Transfer Switch, Replace Transfer Switch).....	20.65	
26 01 30 99-0023 EA Check Operation Of Switch (For Transfer Switch, Replace Transfer Switch)	2.46	
26 01 30 99-0024 Battery, Wet (26 01 30 99) Note: Includes all required small tools and equipment.		
26 01 30 99-0025 Wet Battery, Maintenance And Inspection (26 01 30 99-0024)		
26 01 30 99-0026 EA Clean And Maintain Wet Cell Battery (For Wet Battery, Maintenance And Inspection)	68.38	
26 01 30 99-0027 Wet Battery, Replace Battery (26 01 30 99-0024)		
26 01 30 99-0028 EA Remove Wet Cell Battery (For Wet Battery, Replace Battery).....	13.68	
26 01 30 99-0029 EA Install New Wet Cell Battery (For Wet Battery, Replace Battery).....	725.17	
26 01 30 99-0030 Battery, Dry (26 01 30 99) Note: Includes all required small tools and equipment.		
26 01 30 99-0031 Dry Battery, Maintenance And Inspection (26 01 30 99-0030)		
26 01 30 99-0032 EA Clean And Maintain Dry Cell Battery (For Dry Battery, Maintenance And Inspection).....	68.38	
26 01 30 99-0033 Dry Battery, Replace Battery (26 01 30 99-0030)		
26 01 30 99-0034 EA Remove Dry Cell Battery (For Dry Battery, Replace Battery)	13.68	
26 01 30 99-0035 EA Install New Dry Cell Battery (For Dry Battery, Replace Battery)	212.34	
26 01 30 99-0036 Battery Charger (26 01 30 99) Note: Includes all required small tools and equipment.		
26 01 30 99-0037 Battery Charger, Maintenance And Repair (26 01 30 99-0036)		
26 01 30 99-0038 EA Repair Battery Charger Component (For Battery Charger, Maintenance And Repair)	473.94	
26 01 30 99-0039 Battery Charger, Maintenance And Inspection (26 01 30 99-0036)		
26 01 30 99-0040 EA Check Battery Charger (For Battery Charger, Maintenance And Inspection)	218.81	
26 01 30 99-0041 Battery Charger, Replace Charger (26 01 30 99-0036)		
26 01 30 99-0042 EA Remove Battery Charger (For Battery Charger, Replace Charger)	84.11	
26 01 30 99-0043 EA Install New Battery Charger (For Battery Charger, Replace Charger)	865.15	
26 01 30 99-0044 Uninterruptible Power Supply (UPS) Battery (26 01 30 99) Note: Includes all required small tools and equipment.		
26 01 30 99-0045 Uninterruptible Power Supply (UPS) Battery, Maintenance And Inspection (26 01 30 99-0044)		
26 01 30 99-0046 EA UPS Battery Electrical Test (For Uninterruptible Power Supply (UPS) Battery, Maintenance And Inspection)	109.41	
26 01 30 99-0047 Uninterruptible Power Supply (UPS) Battery, Replace Motor Generator Uninterruptible Power Supply (UPS) Battery (26 01 30 99-0044)		
26 01 30 99-0048 EA Remove UPS Battery (For Uninterruptible Power Supply (UPS) Battery, Replace Motor Generator Uninterruptible Power Supply (UPS) Battery)	182.30	
26 01 30 99-0049 EA Install New UPS Battery (For Uninterruptible Power Supply (UPS) Battery, Replace Motor Generator Uninterruptible Power Supply (UPS) Battery)	1,226.24	
26 01 30 99-0050 Automatic Transfer Switch Preventative Maintenance (26 01 30 99) Note: Includes all required small tools and equipment.		
26 01 30 99-0051 EA Annual Preventative Maintenance For Automatic Transfer Switch	80.52	
Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Inspect Wiring, Wiring Connections And Fuse Blocks For Looseness, Tighten All Connections. 3. Inspect Wiring, Wiring Connections And Fuse Blocks For Charring And Overheating. 4. Inspect Wiring, Wiring Connections And Fuse Blocks For Evidence Of Short-Circuiting. 5. Inspect General Condition Of Transfer Switch And Clean Exterior And Surrounding Area. 6. Fill Out Maintenance Checklist And Report Deficiencies.		
26 01 30 99-0052 15 kVA And Less, Emergency Generator Preventative Maintenance (26 01 30 99) Note: Includes all required small tools and equipment.		

26	26	Electrical
	26 01	Operation and Maintenance of Electrical Systems
	26 01 30	Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 30 99-0053	EA	Annual Preventative Maintenance For 15 kVA And Less, Emergency Generator Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Check Engine Oil Level; Add As Required. 3. Change Engine Oil. 4. Change Engine Oil Filter. 5. Check Battery Charge And Electrolyte Specific Gravity; Add Water As Required. 6. Check Terminals For Corrosion; Clean As Required. 7. Check Belt Tension And Wear; Adjust As Required. 8. Check Engine Air Filter; Change As Required. 9. Check Engine Coolant, Add As Required. 10. Check Spark Plug Or Injector Nozzle Condition; Service Or Replace As Required. 11. Check Wiring, Connections And Switches; Adjust As Required. 12. Perform 30 Minute Generator Test Run; Check For Proper Operation. 13. Check Fuel Level; Add As Required. 14. Wipe Dust And Dirt From Engine And Generator. 15. Clean Area Around Generator. 16. Fill Out Maintenance Checklist And Report Deficiencies.	375.82		
26 01 30 99-0054		Over 15 kVA, Emergency Diesel Generator Preventative Maintenance (26 01 30 99) Note: Includes all required small tools and equipment.			
26 01 30 99-0055	EA	Annual Preventative Maintenance For Over 15 kVA, Emergency Diesel Generator Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Check Engine Oil Level; Add As Required. 3. Change Engine Oil. 4. Change Engine Oil Filter. 5. Check Battery Charge And Electrolyte Specific Gravity; Add Water As Required. 6. Check Terminals For Corrosion; Clean As Required. 7. Check Belts for Wear and Proper Tension; Adjust As Required. 8. Check That Crank Case Heater Is Operating. 9. Check Engine Air Filter; Change As Required. 10. Check Engine Coolant; Add As Required. 11. Check Wiring, Connections And Switches; Adjust As Required. 12. Check Spark Plug Or Injector Nozzle Condition; Service Or Replace As Required. 13. Perform 30 Minute Generator Test Run; Check For Proper Operation. 14. Check Fuel Level With Gauge Pole, Add As Required. 15. Wipe Dust And Dirt From Engine And Generator. 16. Clean Area Around Generator. 17. Fill Out Maintenance Checklist And Report Deficiencies.	406.51		
26 01 30 99-0056		Turbine Emergency Diesel Generator Preventative Maintenance (26 01 30 99) Note: Includes all required small tools and equipment.			
26 01 30 99-0057	EA	Annual Preventative Maintenance For Turbine Emergency Diesel Generator Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Check Transmission Oil Level; Add As Required. 3. Change Turbine Oil. 4. Change Turbine Oil Filter. 5. Check That The Crankcase Heater Is Operating Properly. 6. Remove And Install New Turbine Air Filter. 7. Check Wiring, Connections And Switches, Adjust As Required. 8. Check Engine Coolant, Add As Required. 9. Check Starter For Proper Operation, Lubricate As Required. 10. Check Fuel Nozzles And Fuel Regulator, Service Or Replace As Required. 11. Check Ignition Device Condition, Service Or Replace As Required. 12. Perform 30 Minute Generator Test Run, Check For Proper Operation. 13. Check And Record Transmission Oil Pressure And Temperature, And Natural Gas Pressure. 14. Oil Pressure: _____ Oil Temperature: _____ Gas Pressure: _____. 15. Record Running Time: Beginning _____ Hours: Ending _____ Hours. 16. Check That The Charger Is Operating Properly. 17. Check For Any Signs Of Corrosion On Battery Terminals Or Wires. 18. Check The Electrolyte Level In The Batteries, Add As Required. 19. Check Specific Gravity Of The Electrolyte In A 10% Sample Of The Batteries. 20. Check 25% Of Terminal-To-Cell Connection Resistance, Rehabilitate Connections As Required. 21. Apply Anti-Corrosion Grease To Battery Terminals And Connections. 22. Measure And Record Individual Cell And String Float Voltages. 23. Clean Area Around Generator. 25. Fill Out Maintenance Checklist And Report Deficiencies.	1,414.71		
26 01 30 99-0058		Power Stabilizer Preventative Maintenance (26 01 30 99) Note: Includes all required small tools and equipment.			
26 01 30 99-0059	EA	Annual Preventative Maintenance For Power Stabilizer Note: 1. Remove The Covers Or Open The Doors. 2. Check For Signs Of Moisture Or Overheating. 3. Check Fans And Other Auxiliary Devices For Proper Operation. 4. Check For Voltage Creeping Over Transformer Insulated Surface. 5. Look For Evidence Such As Tracking Or Carbonization. 6. Check Condition Of The Ground System. 7. Check Wiring, Connections And Relays; Tighten And Adjust As Required. 8. Reinstall The Covers Or Close The Doors. 9. Clean The Surrounding Area. 10. Fill Out Maintenance Checklist And Report Deficiencies.	82.31		
26 01 30 99-0060		200 kVA And Less, Uninterruptible Power System Preventative Maintenance (26 01 30 99) Note: Includes all required small tools and equipment.			
26 01 30 99-0061	EA	Annual Preventative Maintenance For 200 kVA And Less, Uninterruptible Power System Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Check Electrolyte Level Of Batteries; Add Water As Required. 3. Check Terminals For Corrosion; Clean As Required. 4. Check 25% Of The Batteries For Charge And Electrolyte Specific Gravity. 5. Check Batteries For Cracks Or Leaks; Remove And Install New Batteries As Required. 6. Check 25% Of The Terminal-To-Cell Connection Resistances. 7. Rehabilitate Connections As Required. 8. Apply Anti-Corrosion Grease To Battery Terminals And Connections. 9. Measure And Record Individual Cell And String Float Voltages. 10. Check Integrity Of Battery Rack. 11. Check Battery Room Temperature And Ventilation System. 12. Remove And Install New Air Filters On UPS Modules. 13. Check Output Voltage And Amperages, From Control Panel. 14. Check UPS Room Temperature And Ventilation System. 15. Notify Personnel And Test UPS Fault Alarm System. 16. Clean Around Batteries And UPS Modules. 17. Fill Out Maintenance Checklist And Report Deficiencies.	613.08		
26 01 30 99-0062		201 To 800 kVA, Uninterrupted Power System Preventative Maintenance (26 01 30 99) Note: Includes all required small tools and equipment.			



	Electrical	26
	Operation and Maintenance of Electrical Systems	26 01
	Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment	26 01 30

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 30 99-0063 EA Annual Preventative Maintenance For 201 To 800 kVA, Uninterrupted Power System..... Note: 1. Check With Operating Or Area Personnel For Deficiencies. 2. Check Electrolyte Level Of Batteries; Add Water As Required. 3. Check Terminals For Corrosion; Clean As Required. 4. Check 25% Of The Batteries For Charge And Electrolyte Specific Gravity. 5. Check Batteries For Cracks Or Leaks; Remove And Install New Batteries As Required. 6. Check 25% Of The Terminal-To-Cell Connection Resistances. 7. Rehabilitate Connections As Required. 8. Apply Anti-Corrosion Grease To Battery Terminals And Connections. 9. Measure And Record Individual Cell And String Float Voltages. 10. Check Integrity Of Battery Rack. 11. Check Battery Room Temperature And Ventilation System. 12. Remove And Install New Air Filters On UPS Modules. 13. Check Output Voltage And Amperages, From Control Panel. 14. Check UPS Room Temperature And Ventilation System. 15. Notify Personnel And Test UPS Fault Alarm System. 16. Clean Around Batteries And UPS Modules. 17. Fill Out Maintenance Checklist And Report Deficiencies.	1,355.55	
26 01 30 99-0064 Battery System And Charger Preventative Maintenance (26 01 30 99) Note: Includes all required small tools and equipment.		
26 01 30 99-0065 EA Annual Preventative Maintenance Of Battery System And Charger Note: 1. Check That The Charger Is Operating Properly. 2. Check For Any Signs Of Corrosion On The Battery Terminals Or Wires. 3. Check The Electrolyte Level In The Batteries, Add As Required. 4. Check The Specific Gravity Of The Electrolyte In A 10% Sample Of The Batteries. 5. Check 25% Of Terminal-To-Cell Connection Resistance, Rehabilitate Connections As Required. 6. Apply Anti-Corrosion Grease To Battery Terminals And Connections. 7. Measure And Record Individual Cell And String Float Voltages. 8. Clean Area Around Batteries.	211.50	
26 01 50 Operation and Maintenance of Lighting (26 01)		
26 01 50 51 Luminaire Relamping (26 01 50)		
26 01 50 51-0001 Replace Lamps In Existing Fixtures (26 01 50 51) Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps.		
26 01 50 51-0002 Halogen Lamps (26 01 50 51-0001)		
26 01 50 51-0003 EA 300 Watt, T3, Tungsten Halogen Lamp	63.05	
26 01 50 51-0004 EA 500 Watt, T3, Tungsten Halogen Lamp	81.55	
26 01 50 51-0005 EA 1,000 Watt, T3, Tungsten Halogen Lamp	122.08	
26 01 50 51-0006 EA 60 Watt, PAR38, Halogen Lamp	30.56	
26 01 50 51-0007 EA 75 Watt, PAR38, Halogen Lamp	30.56	
26 01 50 51-0008 EA 90 Watt, PAR38, Halogen Lamp	28.91	
26 01 50 51-0009 EA 100 Watt, PAR38, Halogen Lamp	28.91	
26 01 50 51-0010 EA 60 Watt, PAR38, Halogen IR Reflective Lamp	39.71	
26 01 50 51-0011 EA 67 Watt, PAR38, Halogen IR Reflective Lamp	43.51	
26 01 50 51-0012 EA 70 Watt, PAR38, Halogen IR Reflective Lamp	42.53	
26 01 50 51-0013 EA 90 Watt, PAR38, Halogen IR Reflective Lamp	45.44	
26 01 50 51-0014 EA 100 Watt, PAR38, Halogen IR Reflective Lamp	46.06	
26 01 50 51-0015 EA 12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10)	25.33	
26 01 50 51-0016 EA 12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20)	25.33	
26 01 50 51-0017 EA 12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25)	27.69	
26 01 50 51-0018 EA 12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36)	27.69	
26 01 50 51-0019 Incandescent Lamps (26 01 50 51-0001)		
26 01 50 51-0020 EA 100 Watt, Frosted, Interior Incandescent Lamp	7.91	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.28	
26 01 50 51-0021 EA 150 Watt, Frosted, Interior Incandescent Lamp	9.99	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.28	
26 01 50 51-0022 EA 200 Watt, Frosted, Interior Incandescent Lamp	12.34	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.28	
26 01 50 51-0023 EA 300 Watt, PS25, Interior Incandescent Lamp	15.29	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.28	
26 01 50 51-0024 EA 60 Watt, G25, Clear, Interior Incandescent Lamp	11.31	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.28	
26 01 50 51-0025 EA 75 Watt, R20, Interior Incandescent Lamp	18.16	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.74	
26 01 50 51-0026 EA 75 Watt, PAR38, Exterior Incandescent Lamp	22.29	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.74	
26 01 50 51-0027 EA 100 Watt, PAR38, Exterior Incandescent Lamp	20.64	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.74	
26 01 50 51-0028 EA 150 Watt, PAR38, Exterior Incandescent Lamp	36.31	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.74	
26 01 50 51-0029 EA 250 Watt, PAR38, Exterior Incandescent Lamp	75.63	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.19	
26 01 50 51-0030 EA 300 Watt, PAR56, Exterior Incandescent Lamp	87.13	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.19	
26 01 50 51-0031 Exit Light Lamps (26 01 50 51-0001)		
26 01 50 51-0032 EA Convert Exit Light Lamps To Red LED Lamps	133.12	
For Green LED Lamps, Add	25.00	
26 01 50 51-0033 EA Fluorescent Lamp For Exit Light	37.98	
For Removal Of Multiple Lamps In A Fixture, Deduct	-9.11	
26 01 50 51-0034 EA Lamp Replacement For Emergency Lights On Exit Sign	51.31	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.56	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0035 Fluorescent Lamps (26 01 50 51-0001)				
26 01 50 51-0036	EA	18", 15 Watt, T8 Fluorescent Lamp	14.28	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0037	EA	2', 17 Watt, T8 Fluorescent Lamp	17.08	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0038	EA	3', 25 Watt, T8 Fluorescent Lamp	19.61	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0039	EA	4', 28 Watt, Rapid Start T8 Fluorescent Lamp	21.67	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0040	EA	4', 32 Watt, T8 Fluorescent Lamp	19.34	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0041	EA	4', 30 Watt, T8 Fluorescent Lamp	24.44	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0042	EA	4', 28 Watt, T8 Fluorescent Lamp	21.50	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0043	EA	4', 25 Watt, T8 Fluorescent Lamp	21.38	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0044	EA	4', 44 Watt, T8HO Fluorescent Lamp	34.04	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0045	EA	8', 59 Watt, T8 Fluorescent Lamp	26.09	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0046	EA	18", 15 Watt, T12 Fluorescent Lamp	21.33	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0047	EA	2', 20 Watt, T12 Fluorescent Lamp	16.28	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0048	EA	3', 30 Watt, T12 Fluorescent Lamp	18.28	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0049	EA	4', 34 Watt, T12 Fluorescent Lamp	18.37	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0050	EA	4', 40 Watt, T12 Fluorescent Lamp	18.00	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0051	EA	8', 60 Watt, T12 Fluorescent Lamp	26.73	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0052	EA	8', 75 Watt, T12 Fluorescent Lamp	22.67	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0053	EA	8', 95 Watt, Instant Start T12 Fluorescent Lamp	37.69	
26 01 50 51-0054	EA	6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp	21.59	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0055	EA	8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp	17.84	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0056	EA	12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp	17.27	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0057	EA	16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp	19.06	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0058	EA	32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp	31.32	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.56	
26 01 50 51-0059	EA	40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp	30.22	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.56	
26 01 50 51-0060	EA	6", 4 Watt, T5 Fluorescent Lamp	15.80	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0061	EA	9", 6 Watt, T5 Fluorescent Lamp	15.54	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0062	EA	12", 8 Watt, T5 Fluorescent Lamp	16.03	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0063	EA	21", 13 Watt, T5 Fluorescent Lamp	16.74	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0064	EA	24", 14 Watt, T5 Fluorescent Lamp	19.22	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0065	EA	34", 21 Watt, T5 Fluorescent Lamp	20.92	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0066	EA	46", 28 Watt, T5 Fluorescent Lamp	20.28	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0067	EA	46", 54 Watt, T5HO Fluorescent Lamp	22.14	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0068	EA	46", 54 Watt T5 Fluorescent Lamp	20.61	
26 01 50 51-0069	EA	5-13 Watt, 2-Pin Compact Fluorescent Lamp	12.41	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.28	
26 01 50 51-0070	EA	9-26 Watt, 4-Pin Compact Fluorescent Lamp	13.70	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.28	
26 01 50 51-0071	EA	27-55 Watt, 4-Pin Compact Fluorescent Lamp	27.88	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.28	
26 01 50 51-0072	EA	Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux	36.44	
26 01 50 51-0073	EA	Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux	36.44	
26 01 50 51-0074	EA	32 Watt 2D (Doubled) Fluorescent Lamp, 4-Pin	68.14	
26 01 50 51-0075	EA	26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp	24.88	
26 01 50 51-0076	EA	<9 Watt, Screw-In, Spiral Compact Fluorescent Lamps	12.74	
26 01 50 51-0077	EA	9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps	11.05	
26 01 50 51-0078	EA	29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps	11.58	
26 01 50 51-0079	EA	33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps	46.50	
26 01 50 51-0080	EA	43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps	50.69	
26 01 50 51-0081	EA	85 Watt, Screw-In, Spiral Compact Fluorescent Lamps	96.19	
26 01 50 51-0082	EA	105 Watt, Screw-In, Spiral Compact Fluorescent Lamps	115.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0083 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps	119.00	
26 01 50 51-0084 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps	43.49	
26 01 50 51-0085 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps	45.34	
26 01 50 51-0086 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps	52.29	
26 01 50 51-0087 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0088 EA 50 Watt, Pulse Start Metal Halide Lamp	54.13	
26 01 50 51-0089 EA 70 Watt, Pulse Start Metal Halide Lamp	51.83	
26 01 50 51-0090 EA 100 Watt, Pulse Start Metal Halide Lamp	59.08	
26 01 50 51-0091 EA 150 Watt, Pulse Start Metal Halide Lamp	57.44	
26 01 50 51-0092 EA 175 Watt, Pulse Start Metal Halide Lamp	56.96	
26 01 50 51-0093 EA 250 Watt, Pulse Start Metal Halide Lamp	57.29	
26 01 50 51-0094 EA 400 Watt, Pulse Start Metal Halide Lamp	68.84	
26 01 50 51-0095 EA 1,000 Watt, Pulse Start Metal Halide Lamp	79.91	
26 01 50 51-0096 EA 1,500 Watt, Pulse Start Metal Halide Lamp	79.46	
26 01 50 51-0097 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0098 EA 35 Watt, High Pressure Sodium Lamp	44.79	
For Enclosed And Gasket Light Fixtures, Add	3.51	
26 01 50 51-0099 EA 50 Watt, High Pressure Sodium Lamp	44.79	
For Enclosed And Gasket Light Fixtures, Add	3.51	
26 01 50 51-0100 EA 70 Watt, High Pressure Sodium Lamp	45.77	
For Enclosed And Gasket Light Fixtures, Add	3.51	
26 01 50 51-0101 EA 100 Watt, High Pressure Sodium Lamp	47.66	
For Enclosed And Gasket Light Fixtures, Add	3.51	
26 01 50 51-0102 EA 150 Watt, High Pressure Sodium Lamp	45.77	
For Enclosed And Gasket Light Fixtures, Add	3.51	
26 01 50 51-0103 EA 250 Watt, High Pressure Sodium Lamp	45.77	
For Enclosed And Gasket Light Fixtures, Add	3.51	
26 01 50 51-0104 EA 400 Watt, High Pressure Sodium Lamp	42.97	
For Enclosed And Gasket Light Fixtures, Add	3.51	
26 01 50 51-0105 EA 1,000 Watt, High Pressure Sodium Lamp	98.83	
26 01 50 51-0106 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0107 EA 35 Watt, Low Pressure Sodium Lamp	112.83	
26 01 50 51-0108 EA 55 Watt, Low Pressure Sodium Lamp	125.82	
26 01 50 51-0109 EA 70 Watt, Low Pressure Sodium Lamp	128.75	
26 01 50 51-0110 EA 90 Watt, Low Pressure Sodium Lamp	131.67	
26 01 50 51-0111 EA 135 Watt, Low Pressure Sodium Lamp	143.38	
26 01 50 51-0112 EA 180 Watt, Low Pressure Sodium Lamp	196.06	
26 01 50 51-0113 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0114 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0113)		
26 01 50 51-0115 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star)	26.81	
26 01 50 51-0116 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0113)		
26 01 50 51-0117 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	37.87	
26 01 50 51-0118 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	37.87	
26 01 50 51-0119 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	67.56	
26 01 50 51-0120 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	45.36	
26 01 50 51-0121 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	86.11	
26 01 50 51-0122 LED Lamps, Medium Base, BR30 Or BR40 (26 01 50 51-0113)		
26 01 50 51-0123 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	50.20	
26 01 50 51-0124 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	43.93	
26 01 50 51-0125 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	60.59	
26 01 50 51-0126 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	49.49	
26 01 50 51-0127 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	68.01	
26 01 50 51-0128 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	49.49	
26 01 50 51-0129 LED Lamps, Medium Base, PAR (26 01 50 51-0113)		
26 01 50 51-0130 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star)	56.14	
26 01 50 51-0131 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star)	79.18	
26 01 50 51-0132 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	79.18	
26 01 50 51-0133 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	75.47	
26 01 50 51-0134 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	71.76	
26 01 50 51-0135 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	71.76	
26 01 50 51-0136 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	146.72	
26 01 50 51-0137 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	79.18	
26 01 50 51-0138 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	75.47	
26 01 50 51-0139 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star)	79.18	
26 01 50 51-0140 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	79.18	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST
DEMOLITION UNIT COST

26 01 50 51-0141		LED Lamps, GU Base, MR16 (26 01 50 51-0113)	
26 01 50 51-0142	EA	4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star).....	36.50
26 01 50 51-0143	EA	6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star).....	50.20
26 01 50 51-0144	EA	8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star).....	56.14

26 01 50 51-0145		LED Lamps, PL Series (26 01 50 51-0113)	
26 01 50 51-0146	EA	3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23).....	18.60
26 01 50 51-0147	EA	26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR).....	24.75
26 01 50 51-0148	EA	26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR).....	21.22
26 01 50 51-0149	EA	26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR).....	23.43
26 01 50 51-0150	EA	26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR).....	23.43
26 01 50 51-0151	EA	26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR).....	27.41
26 01 50 51-0152	EA	13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR).....	23.43
26 01 50 51-0153	EA	13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR).....	23.43
26 01 50 51-0154	EA	13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR).....	23.43
26 01 50 51-0155	EA	13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR).....	23.43
26 01 50 51-0156	EA	26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR).....	26.08
26 01 50 51-0157	EA	26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR).....	26.08
26 01 50 51-0158	EA	26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR).....	26.08
26 01 50 51-0159	EA	26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR).....	26.08
26 01 50 51-0160	EA	26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR).....	24.75
26 01 50 51-0161	EA	13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR).....	24.75
26 01 50 51-0162	EA	13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR).....	24.75
26 01 50 51-0163	EA	13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR).....	25.64
26 01 50 51-0164	EA	13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR).....	25.64
26 01 50 51-0165	EA	26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP).....	25.83
26 01 50 51-0166	EA	26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP).....	25.83
26 01 50 51-0167	EA	26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP).....	25.83
26 01 50 51-0168	EA	26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP).....	25.83
26 01 50 51-0169	EA	13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP).....	26.52
26 01 50 51-0170	EA	13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP).....	26.52
26 01 50 51-0171	EA	13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26).....	26.52
26 01 50 51-0172	EA	13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26).....	26.52
26 01 50 51-0173	EA	13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26).....	26.52
26 01 50 51-0174	EA	13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24).....	26.52
26 01 50 51-0175	EA	13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24).....	26.52
26 01 50 51-0176	EA	13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24).....	26.52
26 01 50 51-0177	EA	26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP).....	33.43
26 01 50 51-0178	EA	26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP).....	33.43
26 01 50 51-0179	EA	26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP).....	33.43
26 01 50 51-0180	EA	26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP).....	31.84
26 01 50 51-0181	EA	13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP).....	31.84
26 01 50 51-0182	EA	13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP).....	31.84
26 01 50 51-0183	EA	4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898).....	28.36

26 01 50 51-0184		HID LED Lamps, Medium Base E26 (26 01 50 51-0113)	
26 01 50 51-0185	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26).....	62.34
26 01 50 51-0186	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26).....	62.34
26 01 50 51-0187	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26).....	78.69
26 01 50 51-0188	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26).....	78.69
26 01 50 51-0189	EA	10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026).....	55.63
26 01 50 51-0190	EA	10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026).....	55.63
26 01 50 51-0191	EA	10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026).....	55.63
26 01 50 51-0192	EA	10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026).....	55.63
26 01 50 51-0193	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026).....	57.40
26 01 50 51-0194	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026).....	57.40
26 01 50 51-0195	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026).....	57.40
26 01 50 51-0196	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026).....	57.40
26 01 50 51-0197	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026).....	64.48
26 01 50 51-0198	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026).....	64.48
26 01 50 51-0199	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026).....	64.48
26 01 50 51-0200	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026).....	64.48
26 01 50 51-0201	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026).....	73.32
26 01 50 51-0202	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026).....	73.32
26 01 50 51-0203	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026).....	73.32
26 01 50 51-0204	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026).....	73.32
26 01 50 51-0205	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026).....	92.77
26 01 50 51-0206	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026).....	92.77
26 01 50 51-0207	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026).....	92.77
26 01 50 51-0208	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026).....	92.77
26 01 50 51-0209	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026).....	109.58
26 01 50 51-0210	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026).....	109.58
26 01 50 51-0211	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026).....	109.58
26 01 50 51-0212	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026).....	109.58
26 01 50 51-0213	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026).....	121.07
26 01 50 51-0214	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026).....	121.07
26 01 50 51-0215	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026).....	121.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0216 EA 60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	121.07	
26 01 50 51-0217 EA 80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	162.63	
26 01 50 51-0218 EA 80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	162.63	
26 01 50 51-0219 EA 80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	162.63	
26 01 50 51-0220 EA 80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	162.63	
26 01 50 51-0221 EA 100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	167.94	
26 01 50 51-0222 EA 100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	167.94	
26 01 50 51-0223 EA 100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	167.94	
26 01 50 51-0224 EA 100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	167.94	
26 01 50 51-0225 EA 120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	198.89	
26 01 50 51-0226 EA 120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	198.89	
26 01 50 51-0227 EA 120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	198.89	
26 01 50 51-0228 EA 120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	198.89	
26 01 50 51-0229 EA 150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	236.03	
26 01 50 51-0230 EA 150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	236.03	
26 01 50 51-0231 EA 150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	236.03	
26 01 50 51-0232 EA 150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	236.03	
26 01 50 51-0233 EA 20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	76.90	
26 01 50 51-0234 EA 20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	83.09	
26 01 50 51-0235 EA 27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	83.09	
26 01 50 51-0236 EA 27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	76.90	
26 01 50 51-0237 EA 36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	96.35	
26 01 50 51-0238 EA 36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	88.40	
26 01 50 51-0239 EA 45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	106.08	
26 01 50 51-0240 EA 45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	105.04	
26 01 50 51-0241 EA 54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	107.41	
26 01 50 51-0242 EA 54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	107.41	
26 01 50 51-0243 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	65.43	
26 01 50 51-0244 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	65.43	
26 01 50 51-0245 EA 36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	73.61	
26 01 50 51-0246 EA 36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	73.61	
26 01 50 51-0247 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	79.05	
26 01 50 51-0248 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	79.05	
26 01 50 51-0249 EA 54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	87.22	
26 01 50 51-0250 EA 54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	87.22	
26 01 50 51-0251 EA 20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	87.64	
26 01 50 51-0252 EA 30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	94.90	
26 01 50 51-0253 EA 40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	117.80	
26 01 50 51-0254 EA 50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	129.65	
26 01 50 51-0255 EA 10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	51.56	
26 01 50 51-0256 EA 15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	57.93	
26 01 50 51-0257 EA 20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	61.11	
26 01 50 51-0258 EA 25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	67.04	
26 01 50 51-0259 EA 15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148015-UNV)	80.41	
26 01 50 51-0260 EA 20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148020-UNV)	94.02	
26 01 50 51-0261 EA 25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148025-UNV)	128.03	
26 01 50 51-0262 EA 30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148030-UNV)	134.83	
26 01 50 51-0263 EA 35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148035-UNV)	145.72	
26 01 50 51-0264 EA 40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148040-UNV)	152.52	
26 01 50 51-0265 EA 60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148060-UNV)	219.18	
26 01 50 51-0266 EA 20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	70.00	
26 01 50 51-0267 HID LED Lamps, Mogul Base E39 Or EX39 (26 01 50 51-0113)		
26 01 50 51-0268 EA 120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	209.97	
26 01 50 51-0269 EA 120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	209.97	
26 01 50 51-0270 EA 120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	209.97	
26 01 50 51-0271 EA 27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39)	62.34	
26 01 50 51-0272 EA 27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R)	62.34	
26 01 50 51-0273 EA 27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39)	62.34	
26 01 50 51-0274 EA 45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39)	78.69	
26 01 50 51-0275 EA 45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R)	78.69	
26 01 50 51-0276 EA 45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39)	78.69	
26 01 50 51-0277 EA 80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39)	145.02	
26 01 50 51-0278 EA 80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039)	162.63	
26 01 50 51-0279 EA 80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039)	162.63	
26 01 50 51-0280 EA 80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039)	162.63	
26 01 50 51-0281 EA 80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039)	162.63	
26 01 50 51-0282 EA 100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039)	167.94	
26 01 50 51-0283 EA 100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039)	167.94	
26 01 50 51-0284 EA 100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039)	167.94	
26 01 50 51-0285 EA 100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039)	167.94	
26 01 50 51-0286 EA 120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039)	198.89	
26 01 50 51-0287 EA 120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039)	198.89	
26 01 50 51-0288 EA 120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039)	198.89	
26 01 50 51-0289 EA 120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039)	198.89	
26 01 50 51-0290 EA 150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039)	236.03	
26 01 50 51-0291 EA 150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039)	236.03	
26 01 50 51-0292 EA 150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039)	236.03	
26 01 50 51-0293 EA 150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039)	236.03	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0294 EA 27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	83.09	
26 01 50 51-0295 EA 27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	83.09	
26 01 50 51-0296 EA 36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	96.35	
26 01 50 51-0297 EA 36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	95.13	
26 01 50 51-0298 EA 45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	106.08	
26 01 50 51-0299 EA 45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	105.04	
26 01 50 51-0300 EA 54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	107.41	
26 01 50 51-0301 EA 54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	104.33	
26 01 50 51-0302 EA 100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	224.58	
26 01 50 51-0303 EA 20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT/180/40KMOG-G7).....	83.06	
26 01 50 51-0304 EA 20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT/180/50KMOG-G7).....	83.06	
26 01 50 51-0305 EA 30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT/180/40KMOG-G7).....	94.06	
26 01 50 51-0306 EA 30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT/180/50KMOG-G7).....	94.06	
26 01 50 51-0307 EA 40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT/180/40KMOG-G7).....	100.68	
26 01 50 51-0308 EA 40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT/180/50KMOG-G7).....	100.68	
26 01 50 51-0309 EA 27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	65.32	
26 01 50 51-0310 EA 27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	65.32	
26 01 50 51-0311 EA 36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	73.61	
26 01 50 51-0312 EA 36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	73.61	
26 01 50 51-0313 EA 45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	79.05	
26 01 50 51-0314 EA 45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	79.05	
26 01 50 51-0315 EA 54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	87.22	
26 01 50 51-0316 EA 54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	87.22	
26 01 50 51-0317 EA 65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	156.09	
26 01 50 51-0318 EA 80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	180.32	
26 01 50 51-0319 EA 100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	214.81	
26 01 50 51-0320 EA 120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	417.89	
26 01 50 51-0321 EA 150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	394.70	
26 01 50 51-0322 EA 200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	417.89	
26 01 50 51-0323 EA 250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	419.70	
26 01 50 51-0324 EA 24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	64.92	
26 01 50 51-0325 EA 24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	64.92	
26 01 50 51-0326 EA 24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	64.92	
26 01 50 51-0327 EA 100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	189.96	
26 01 50 51-0328 EA 115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D).....	434.42	
26 01 50 51-0329 EA 40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K).....	181.95	
26 01 50 51-0330 EA 100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K).....	213.95	
26 01 50 51-0331 EA 45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K).....	95.59	
26 01 50 51-0332 EA 40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K).....	303.47	
26 01 50 51-0333 LED Lamps, 2G11 Base (26 01 50 51-0113)		
26 01 50 51-0334 EA 19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR).....	51.34	
26 01 50 51-0335 LED Lamps, GX23 Or G23 Base (26 01 50 51-0113)		
26 01 50 51-0336 EA 5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4).....	25.51	
26 01 50 51-0337 LED Lamps, G24 Base (26 01 50 51-0113)		
26 01 50 51-0338 EA 5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R).....	33.00	
26 01 50 51-0339 LED Tubes (Fluorescent Lamp Replacement) (26 01 50 51-0113)		
26 01 50 51-0340 EA 2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	45.24	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0341 EA 2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	58.70	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0342 EA 3', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	48.74	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0343 EA 4', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	53.35	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0344 EA 4', 2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	58.40	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0345 EA 4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN).....	36.93	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0346 EA 2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN).....	35.55	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0347 EA 2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	32.43	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.64	
26 01 50 51-0348 EA 3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	33.03	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0349 EA 4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	33.05	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	
26 01 50 51-0350 EA 4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	34.24	
<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.10	



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0351 Filament LED Lamps (26 01 50 51-0113)				
26 01 50 51-0352	EA	7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	20.66	
26 01 50 51-0353	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R).....	20.66	
26 01 50 51-0354	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	19.78	
26 01 50 51-0355	EA	4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	19.78	
26 01 50 51-0356	EA	4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	21.19	
26 01 50 51-0357	EA	4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A).....	21.19	
26 01 50 51-0358	EA	3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827).....	18.01	
26 01 50 51-0359	EA	3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	18.01	
26 01 50 51-0360	EA	3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	18.54	
26 01 50 51-0361	EA	3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A).....	22.43	
26 01 50 51-0362	EA	4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521).....	24.74	
26 01 50 51-0363 Other Lamps (26 01 50 51-0113)				
26 01 50 51-0364	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1).....	19.64	
26 01 50 51-0365	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	19.64	
26 01 50 51-0366	EA	11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	19.64	
26 01 50 51-0367	EA	12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	20.52	
26 01 50 51-0368	EA	13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1).....	20.52	
26 01 50 51-0369	EA	8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1).....	20.52	
26 01 50 51-0370 LED Lamps, Light Engines, Round, LER Series (26 01 50 51-0113)				
26 01 50 51-0371	EA	5.5" Diameter, 17 Watt, 3000K CCT, Round LED Light Engine (Maxlite LER5.5A1730).....	59.79	
26 01 50 51-0372	EA	9 Watt, 120 Volt, 800 Lumens, 2700K, Omnidirectional Ultra LED A-line Lamp (Sylvania LED9A19/DIM/O/827/U).....	34.88	
26 01 50 51-0373 Remove Hazardous Lamps From Fixture For Recycling (26 01 50 51) Note: Excludes containers, shipping costs and recycling fees. See CSI section 26 01 50 51-0382 for recycling hazardous lamps.				
26 01 50 51-0374	EA	Removal Of 2' Length Linear Fluorescent Lamps.....	4.83	
		For Removal Of Multiple Lamps In A Fixture, Deduct.....	-1.59	
26 01 50 51-0375	EA	Removal Of 3' Length Linear Fluorescent Lamps.....	5.52	
		For Removal Of Multiple Lamps In A Fixture, Deduct.....	-1.82	
26 01 50 51-0376	EA	Removal Of 4' Length Linear Fluorescent Lamps.....	6.21	
		For Removal Of Multiple Lamps In A Fixture, Deduct.....	-2.05	
26 01 50 51-0377	EA	Removal Of 6' Length Linear Fluorescent Lamps.....	6.90	
		For Removal Of Multiple Lamps In A Fixture, Deduct.....	-2.28	
26 01 50 51-0378	EA	Removal Of 8' Length Linear Fluorescent Lamps.....	7.59	
		For Removal Of Multiple Lamps In A Fixture, Deduct.....	-2.50	
26 01 50 51-0379	EA	Removal Of Compact Fluorescent Lamps.....	4.14	
		For >25 To 40, Deduct.....	-0.41	
		For >40, Deduct.....	-0.83	
26 01 50 51-0380	EA	Removal Of U-Shaped Or Circular Fluorescent Lamps.....	6.56	
		For >25 To 40, Deduct.....	-0.66	
		For >40, Deduct.....	-1.31	
26 01 50 51-0381	EA	Removal Of High Intensity Discharge (HID) Or Metal Halide Lamps.....	11.74	
		For >25 To 40, Deduct.....	-1.17	
		For >40, Deduct.....	-2.35	
26 01 50 51-0382 Recycle Hazardous Lamps (26 01 50 51) Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 26 01 50 51-0001 for removal of lamps from fixtures.				
26 01 50 51-0383	EA	Recycle 2' Length Linear Fluorescent Lamps.....	1.83	
26 01 50 51-0384	EA	Recycle 3' Length Linear Fluorescent Lamps.....	2.35	
26 01 50 51-0385	EA	Recycle 4' Length Linear Fluorescent Lamps.....	2.86	
26 01 50 51-0386	EA	Recycle 6' Length Linear Fluorescent Lamps.....	4.05	
26 01 50 51-0387	EA	Recycle 8' Length Linear Fluorescent Lamps.....	5.07	
26 01 50 51-0388	EA	Recycle Compact Fluorescent Lamps.....	4.67	
26 01 50 51-0389	EA	Recycle U-Shaped Or Circular Fluorescent Lamps.....	4.67	
26 01 50 51-0390	EA	Recycle High Intensity Discharge (HID) Lamps.....	7.38	
26 01 50 52 Ballasts Replacement (26 01 50)				
26 01 50 52-0001 Lighting Ballasts (26 01 50 52) Note: Excludes recycling fees. See CSI section 02 84 16 00-0003 for ballast recycling.				
26 01 50 52-0002 Fluorescent Ballasts (26 01 50 52-0001)				
26 01 50 52-0003 T5 Fluorescent Ballasts (26 01 50 52-0002)				
26 01 50 52-0004 T5 Fluorescent Electronic Ballasts (26 01 50 52-0003) Note: Includes 120/277 Volt and normal ballast factor.				
26 01 50 52-0005 14 Watt, T5 Fluorescent Electronic Ballasts (26 01 50 52-0004)				
26 01 50 52-0006	EA	1 Lamp, 14 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast.....	127.30	27.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	8.28	
		For High Ballast Factor, Add.....	7.00	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0007 EA 2 Lamp, 14 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> <i>For High Ballast Factor, Add</i>	134.19 10.35 7.00	34.50
26 01 50 52-0008 21 Watt, T5 Fluorescent Electronic Ballasts (26 01 50 52-0004)		
26 01 50 52-0009 EA 1 Lamp, 21 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> <i>For High Ballast Factor, Add</i>	127.30 8.28 7.00	27.61
26 01 50 52-0010 EA 2 Lamp, 21 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> <i>For High Ballast Factor, Add</i>	134.19 10.35 7.00	34.50
26 01 50 52-0011 28 Watt, T5 Fluorescent Electronic Ballasts (26 01 50 52-0004)		
26 01 50 52-0012 EA 1 Lamp, 28 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> <i>For High Ballast Factor, Add</i>	127.30 8.28 7.00	27.61
26 01 50 52-0013 EA 2 Lamp, 28 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> <i>For High Ballast Factor, Add</i>	134.19 10.35 7.00	34.50
26 01 50 52-0014 35 Watt, T5 Fluorescent Electronic Ballasts (26 01 50 52-0004)		
26 01 50 52-0015 EA 1 Lamp, 35 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.30 8.28	27.61
26 01 50 52-0016 EA 2 Lamp, 35 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.19 10.35	34.50
26 01 50 52-0017 54 Watt, T5 Fluorescent Electronic Ballasts (26 01 50 52-0004)		
26 01 50 52-0018 EA 1 Lamp, 54 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.16 8.28	27.61
26 01 50 52-0019 EA 2 Lamp, 54 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.05 10.35	34.50
26 01 50 52-0020 EA 3 Lamp, 54 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.82 12.42	41.41
26 01 50 52-0021 EA 4 Lamp, 54 Watt, Program/Rapid Start, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	189.72 14.49	48.31
26 01 50 52-0022 High-Output, T5HO Fluorescent Electronic Ballasts (26 01 50 52-0003) Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0023 12 Watt, High-Output, T5HO Fluorescent Electronic Ballasts (26 01 50 52-0022)		
26 01 50 52-0024 EA 1 Lamp, 12 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.42 8.28	27.61
26 01 50 52-0025 EA 2 Lamp, 12 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.31 10.35	34.50
26 01 50 52-0026 24 Watt, High-Output, T5HO Fluorescent Electronic Ballasts (26 01 50 52-0022)		
26 01 50 52-0027 EA 1 Lamp, 24 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.20 8.28	27.61
26 01 50 52-0028 EA 2 Lamp, 24 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	146.09 10.35	34.50
26 01 50 52-0029 39 Watt, High-Output, T5HO Fluorescent Electronic Ballasts (26 01 50 52-0022)		
26 01 50 52-0030 EA 1 Lamp, 39 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.20 8.28	27.61
26 01 50 52-0031 EA 2 Lamp, 39 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	146.09 10.35	34.50
26 01 50 52-0032 54 Watt, High-Output, T5HO Fluorescent Electronic Ballasts (26 01 50 52-0022)		
26 01 50 52-0033 EA 1 Lamp, 54 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.42 8.28	27.61
26 01 50 52-0034 EA 2 Lamp, 54 Watt, Programmed Start, High-Output, T5HO Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.31 10.35	34.50
26 01 50 52-0035 Dimming, T5 Fluorescent Electronic Ballasts (26 01 50 52-0003)		
26 01 50 52-0036 Step Dimming, T5 Fluorescent Electronic Ballasts (26 01 50 52-0035) Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0037 28 Watt, Step Dimming, T5 Fluorescent Electronic Ballast (26 01 50 52-0036)		
26 01 50 52-0038 EA 2 Lamp, 28 Watt, Programmed Start, Step Dimming, T5 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.36 10.35	34.50



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0039		Dimming To 5%, T5 Fluorescent Electronic Ballasts (26 01 50 52-0039) Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0040		54 Watt, Dimming To 5%, High-Output, T5HO Fluorescent Electronic Ballasts (26 01 50 52-0039)		
26 01 50 52-0041	EA	1 Lamp, 54 Watt, Programmed Start, Dimming To 5%, High-Output, T5HO Fluorescent Electronic Ballast.....	440.28	27.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0042	EA	2 Lamp, 54 Watt, Programmed Start, Dimming To 5%, High-Output, T5HO Fluorescent Electronic Ballast.....	435.16	34.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0043		T8 Fluorescent Ballasts (26 01 50 52-0002)		
26 01 50 52-0044		T8 Fluorescent Electronic Ballasts (26 01 50 52-0043) Note: Includes 120/277 Volt and low or normal ballast factor.		
26 01 50 52-0045		17 Watt, T8 Fluorescent Electronic Ballasts (26 01 50 52-0044)		
26 01 50 52-0046	EA	1 Lamp, 17 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	58.05	27.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
		For High Ballast Factor, Add	17.03	
26 01 50 52-0047	EA	1 Lamp, 17 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	99.02	27.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
		For High Ballast Factor, Add	11.20	
26 01 50 52-0048	EA	2 Lamp, 17 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	64.94	34.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
		For High Ballast Factor, Add	17.03	
26 01 50 52-0049	EA	2 Lamp, 17 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	105.91	34.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
		For High Ballast Factor, Add	11.20	
26 01 50 52-0050	EA	3 Lamp, 17 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	79.05	41.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
		For High Ballast Factor, Add	16.58	
26 01 50 52-0051	EA	3 Lamp, 17 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	119.12	41.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
		For High Ballast Factor, Add	9.52	
26 01 50 52-0052	EA	4 Lamp, 17 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	90.62	48.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
		For High Ballast Factor, Add	41.98	
26 01 50 52-0053	EA	4 Lamp, 17 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	130.92	48.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
		For High Ballast Factor, Add	24.50	
26 01 50 52-0054		25 Watt, T8 Fluorescent Electronic Ballasts (26 01 50 52-0044)		
26 01 50 52-0055	EA	1 Lamp, 25 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	58.05	27.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
		For High Ballast Factor, Add	17.03	
26 01 50 52-0056	EA	1 Lamp, 25 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	99.02	27.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
		For High Ballast Factor, Add	11.20	
26 01 50 52-0057	EA	2 Lamp, 25 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	64.94	34.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
		For High Ballast Factor, Add	17.03	
26 01 50 52-0058	EA	2 Lamp, 25 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	105.91	34.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
		For High Ballast Factor, Add	11.20	
26 01 50 52-0059	EA	3 Lamp, 25 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	79.05	41.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
		For High Ballast Factor, Add	16.58	
26 01 50 52-0060	EA	3 Lamp, 25 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	119.12	41.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
		For High Ballast Factor, Add	9.52	
26 01 50 52-0061	EA	4 Lamp, 25 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	90.62	48.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
		For High Ballast Factor, Add	41.98	
26 01 50 52-0062	EA	4 Lamp, 25 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	130.92	48.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
		For High Ballast Factor, Add	24.50	
26 01 50 52-0063		28 Watt, T8 Fluorescent Electronic Ballasts (26 01 50 52-0044)		
26 01 50 52-0064	EA	1 Lamp, 28 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	58.05	27.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
		For High Ballast Factor, Add	17.03	
26 01 50 52-0065	EA	1 Lamp, 28 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	99.02	27.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
		For High Ballast Factor, Add	11.20	
26 01 50 52-0066	EA	2 Lamp, 28 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	64.94	34.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
		For High Ballast Factor, Add	17.03	
26 01 50 52-0067	EA	2 Lamp, 28 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	105.91	34.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
		For High Ballast Factor, Add	11.20	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0068 EA 3 Lamp, 28 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	79.05	41.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
For High Ballast Factor, Add	16.58	
26 01 50 52-0069 EA 3 Lamp, 28 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	119.12	41.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
For High Ballast Factor, Add	9.52	
26 01 50 52-0070 EA 4 Lamp, 28 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	90.62	48.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
For High Ballast Factor, Add	41.98	
26 01 50 52-0071 EA 4 Lamp, 28 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	130.92	48.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
For High Ballast Factor, Add	24.50	
26 01 50 52-0072 32 Watt, T8 Fluorescent Electronic Ballasts (26 01 50 52-0044)		
26 01 50 52-0073 EA 1 Lamp, 32 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	58.05	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
For High Ballast Factor, Add	17.03	
26 01 50 52-0074 EA 1 Lamp, 32 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	99.02	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
For High Ballast Factor, Add	11.20	
26 01 50 52-0075 EA 2 Lamp, 32 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	64.94	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
For High Ballast Factor, Add	17.03	
26 01 50 52-0076 EA 2 Lamp, 32 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	105.91	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
For High Ballast Factor, Add	11.20	
26 01 50 52-0077 EA 3 Lamp, 32 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	79.05	41.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
For High Ballast Factor, Add	16.58	
26 01 50 52-0078 EA 3 Lamp, 32 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	119.12	41.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
For High Ballast Factor, Add	9.52	
26 01 50 52-0079 EA 4 Lamp, 32 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	90.62	48.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
For High Ballast Factor, Add	41.98	
26 01 50 52-0080 EA 4 Lamp, 32 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	130.92	48.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
For High Ballast Factor, Add	24.50	
26 01 50 52-0081 40 Watt, T8 Fluorescent Electronic Ballasts (26 01 50 52-0044)		
26 01 50 52-0082 EA 1 Lamp, 40 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	90.34	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
For High Ballast Factor, Add	7.28	
26 01 50 52-0083 EA 1 Lamp, 40 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	99.02	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
For High Ballast Factor, Add	11.20	
26 01 50 52-0084 EA 2 Lamp, 40 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	97.23	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
For High Ballast Factor, Add	7.28	
26 01 50 52-0085 EA 2 Lamp, 40 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	105.91	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
For High Ballast Factor, Add	11.20	
26 01 50 52-0086 EA 3 Lamp, 40 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	121.22	41.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
For High Ballast Factor, Add	4.48	
26 01 50 52-0087 EA 3 Lamp, 40 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	119.12	41.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
26 01 50 52-0088 EA 4 Lamp, 40 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	128.12	48.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
For High Ballast Factor, Add	4.48	
26 01 50 52-0089 EA 4 Lamp, 40 Watt, Program/Rapid Start, T8 Fluorescent Electronic Ballast.....	130.92	48.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0090 96 Watt, T8 Fluorescent Electronic Ballasts (26 01 50 52-0044)		
26 01 50 52-0091 EA 1 Lamp, 96 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	107.42	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
For High Ballast Factor, Add	15.60	
26 01 50 52-0092 EA 2 Lamp, 96 Watt, Instant Start, T8 Fluorescent Electronic Ballast.....	114.31	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
For High Ballast Factor, Add	15.60	
26 01 50 52-0093 High-Output, T8HO Fluorescent Electronic Ballasts (26 01 50 52-0043)		
Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0094 48 Watt, High-Output, T8HO Fluorescent Electronic Ballasts (26 01 50 52-0093)		
26 01 50 52-0095 EA 1 Lamp, 48 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast.....	129.40	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0096 EA 1 Lamp, 48 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast.....	167.37	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	



Electrical		26
Operation and Maintenance of Electrical Systems		26 01
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0097 EA 2 Lamp, 48 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	136.29 10.35	34.50
26 01 50 52-0098 EA 2 Lamp, 48 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	174.26 10.35	34.50
26 01 50 52-0099 60 Watt, High-Output, T8HO Fluorescent Electronic Ballasts (26 01 50 52-0093)		
26 01 50 52-0100 EA 1 Lamp, 60 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.40 8.28	27.61
26 01 50 52-0101 EA 1 Lamp, 60 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.37 8.28	27.61
26 01 50 52-0102 EA 2 Lamp, 60 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	136.29 10.35	34.50
26 01 50 52-0103 EA 2 Lamp, 60 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	174.26 10.35	34.50
26 01 50 52-0104 72 Watt, High-Output, T8HO Fluorescent Electronic Ballasts (26 01 50 52-0093)		
26 01 50 52-0105 EA 1 Lamp, 72 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.40 8.28	27.61
26 01 50 52-0106 EA 1 Lamp, 72 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.37 8.28	27.61
26 01 50 52-0107 EA 2 Lamp, 72 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	136.29 10.35	34.50
26 01 50 52-0108 EA 2 Lamp, 72 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	174.26 10.35	34.50
26 01 50 52-0109 96 Watt, High-Output, T8HO Fluorescent Electronic Ballasts (26 01 50 52-0093)		
26 01 50 52-0110 EA 1 Lamp, 96 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.40 8.28	27.61
26 01 50 52-0111 EA 1 Lamp, 96 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.37 8.28	27.61
26 01 50 52-0112 EA 2 Lamp, 96 Watt, Instant Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	136.29 10.35	34.50
26 01 50 52-0113 EA 2 Lamp, 96 Watt, Programmed Start, High-Output, T8HO Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	174.26 10.35	34.50
26 01 50 52-0114 Dimming, T8 Fluorescent Electronic Ballasts (26 01 50 52-0043)		
26 01 50 52-0115 Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballasts (26 01 50 52-0114) Note: Includes 120/277 Volt and high ballast factor.		
26 01 50 52-0116 17 Watt, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballasts (26 01 50 52-0115)		
26 01 50 52-0117 EA 1 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.97 8.28	27.61
26 01 50 52-0118 EA 2 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.86 10.35	34.50
26 01 50 52-0119 EA 3 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.39 12.42	41.41
26 01 50 52-0120 EA 4 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.77 14.49	48.31
26 01 50 52-0121 EA 5 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.40 16.56	55.21
26 01 50 52-0122 EA 6 Lamp, 17 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.31 18.64	62.12
26 01 50 52-0123 25 Watt, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballasts (26 01 50 52-0115)		
26 01 50 52-0124 EA 1 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.97 8.28	27.61
26 01 50 52-0125 EA 2 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.86 10.35	34.50
26 01 50 52-0126 EA 3 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.39 12.42	41.41
26 01 50 52-0127 EA 4 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.77 14.49	48.31
26 01 50 52-0128 EA 5 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.40 16.56	55.21
26 01 50 52-0129 EA 6 Lamp, 25 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.31 18.64	62.12
26 01 50 52-0130 28 Watt, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballasts (26 01 50 52-0115)		
26 01 50 52-0131 EA 1 Lamp, 28 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.97 8.28	27.61
26 01 50 52-0132 EA 2 Lamp, 28 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.86 10.35	34.50
26 01 50 52-0133 EA 3 Lamp, 28 Watt, Instant Start, Load Shed 0-10 V Dimming, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.39 12.42	41.41



Electrical		26	26
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0172	EA	6 Lamp, 28 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.35 18.64	62.12
26 01 50 52-0173 32 Watt, Step Dimming, T8 Fluorescent Electronic Ballasts (26 01 50 52-0151)				
26 01 50 52-0174	EA	1 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.97 8.28	27.61
26 01 50 52-0175	EA	2 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.86 10.35	34.50
26 01 50 52-0176	EA	3 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.89 12.42	41.41
26 01 50 52-0177	EA	4 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.77 14.49	48.31
26 01 50 52-0178	EA	5 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.44 16.56	55.21
26 01 50 52-0179	EA	6 Lamp, 32 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.35 18.64	62.12
26 01 50 52-0180 40 Watt, Step Dimming, T8 Fluorescent Electronic Ballasts (26 01 50 52-0151)				
26 01 50 52-0181	EA	1 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.97 8.28	27.61
26 01 50 52-0182	EA	2 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.86 10.35	34.50
26 01 50 52-0183	EA	3 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.89 12.42	41.41
26 01 50 52-0184	EA	4 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.77 14.49	48.31
26 01 50 52-0185	EA	5 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.44 16.56	55.21
26 01 50 52-0186	EA	6 Lamp, 40 Watt, Instant Start, Step Dimming, T8 Fluorescent Electronic Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.35 18.64	62.12
26 01 50 52-0187 Dimming To 3%, T8 Fluorescent Electronic Ballasts (26 01 50 52-0114) Note: Includes 120/277 Volt and normal ballast factor.				
26 01 50 52-0188 17 Watt, Dimming To 3%, T8 Fluorescent Electronic Ballasts (26 01 50 52-0187)				
26 01 50 52-0189	EA	1 Lamp, 17 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.52 8.28	27.61
26 01 50 52-0190	EA	2 Lamp, 17 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	165.41 10.35	34.50
26 01 50 52-0191	EA	3 Lamp, 17 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	197.66 12.42	41.41
26 01 50 52-0192	EA	4 Lamp, 17 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	204.56 14.49	48.31
26 01 50 52-0193 25 Watt, Dimming To 3%, T8 Fluorescent Electronic Ballasts (26 01 50 52-0187)				
26 01 50 52-0194	EA	1 Lamp, 25 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.52 8.28	27.61
26 01 50 52-0195	EA	2 Lamp, 25 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	165.41 10.35	34.50
26 01 50 52-0196	EA	3 Lamp, 25 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	197.66 12.42	41.41
26 01 50 52-0197	EA	4 Lamp, 25 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	204.56 14.49	48.31
26 01 50 52-0198 28 Watt, Dimming To 3%, T8 Fluorescent Electronic Ballasts (26 01 50 52-0187)				
26 01 50 52-0199	EA	1 Lamp, 28 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.52 8.28	27.61
26 01 50 52-0200	EA	2 Lamp, 28 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	165.41 10.35	34.50
26 01 50 52-0201	EA	3 Lamp, 28 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	197.66 12.42	41.41
26 01 50 52-0202	EA	4 Lamp, 28 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	204.56 14.49	48.31
26 01 50 52-0203 32 Watt, Dimming To 3%, T8 Fluorescent Electronic Ballasts (26 01 50 52-0187)				
26 01 50 52-0204	EA	1 Lamp, 32 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.52 8.28	27.61
26 01 50 52-0205	EA	2 Lamp, 32 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	165.41 10.35	34.50
26 01 50 52-0206	EA	3 Lamp, 32 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	197.66 12.42	41.41
26 01 50 52-0207	EA	4 Lamp, 32 Watt, Program/Rapid Start, Dimming To 3%, T8 Fluorescent Electronic Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	204.56 14.49	48.31
26 01 50 52-0208 T10 Fluorescent Ballasts (26 01 50 52-0002)				

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0209	T10 Fluorescent Electronic Ballasts (26 01 50 52-0208) Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0210	40 Watt, T10 Fluorescent Electronic Ballasts (26 01 50 52-0209)		
26 01 50 52-0211	EA 1 Lamp, 40 Watt, Program/Rapid Start, T10 Fluorescent Electronic Ballast.....	80.53	27.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0212	EA 2 Lamp, 40 Watt, Program/Rapid Start, T10 Fluorescent Electronic Ballast.....	87.42	34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0213	EA 3 Lamp, 40 Watt, Program/Rapid Start, T10 Fluorescent Electronic Ballast.....	107.08	41.41
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
26 01 50 52-0214	T12 Fluorescent Ballasts (26 01 50 52-0002)		
26 01 50 52-0215	T12 Fluorescent Electronic Ballasts (26 01 50 52-0214) Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0216	25 Watt, T12 Fluorescent Electronic Ballasts (26 01 50 52-0215)		
26 01 50 52-0217	EA 1 Lamp, 25 Watt, Instant Start, T12 Fluorescent Electronic Ballast.....	58.05	27.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0218	EA 1 Lamp, 25 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	80.53	27.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0219	EA 2 Lamp, 25 Watt, Instant Start, T12 Fluorescent Electronic Ballast.....	64.94	34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0220	EA 2 Lamp, 25 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	87.42	34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0221	EA 3 Lamp, 25 Watt, Instant Start, T12 Fluorescent Electronic Ballast.....	79.05	41.41
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
26 01 50 52-0222	EA 4 Lamp, 25 Watt, Instant Start, T12 Fluorescent Electronic Ballast.....	90.62	48.31
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0223	30 Watt, T12 Fluorescent Electronic Ballasts (26 01 50 52-0215)		
26 01 50 52-0224	EA 1 Lamp, 30 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	80.53	27.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0225	EA 2 Lamp, 30 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	87.42	34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0226	EA 3 Lamp, 30 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	107.08	41.41
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
26 01 50 52-0227	34 Watt, T12 Fluorescent Electronic Ballasts (26 01 50 52-0215)		
26 01 50 52-0228	EA 1 Lamp, 34 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	80.53	27.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0229	EA 2 Lamp, 34 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	87.42	34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0230	EA 3 Lamp, 34 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	107.08	41.41
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
26 01 50 52-0231	40 Watt, T12 Fluorescent Electronic Ballasts (26 01 50 52-0215)		
26 01 50 52-0232	EA 1 Lamp, 40 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	80.53	27.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0233	EA 2 Lamp, 40 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	87.42	34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0234	EA 3 Lamp, 40 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	107.08	41.41
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
26 01 50 52-0235	96 Watt, T12 Fluorescent Electronic Ballasts (26 01 50 52-0215)		
26 01 50 52-0236	EA 1 Lamp, 96 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	100.00	27.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0237	EA 2 Lamp, 96 Watt, Program/Rapid Start, T12 Fluorescent Electronic Ballast.....	114.31	34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0238	High-Output, T12HO Fluorescent Electronic Ballasts (26 01 50 52-0214) Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0239	48 Watt, High-Output, T12HO Fluorescent Electronic Ballasts (26 01 50 52-0238)		
26 01 50 52-0240	EA 1 Lamp, 48 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast.....	129.82	27.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0241	EA 2 Lamp, 48 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast.....	136.71	34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0242	60 Watt, High-Output, T12HO Fluorescent Electronic Ballasts (26 01 50 52-0238)		
26 01 50 52-0243	EA 1 Lamp, 60 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast.....	129.82	27.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0244	EA 2 Lamp, 60 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast.....	136.71	34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	



		Electrical	26
		Operation and Maintenance of Electrical Systems	26 01
		Operation and Maintenance of Lighting	26 01 50

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0245		72 Watt, High-Output, T12HO Fluorescent Electronic Ballasts (26 01 50 52-0238)		
26 01 50 52-0246	EA	1 Lamp, 72 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	129.82	27.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0247	EA	2 Lamp, 72 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	136.71	34.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0248		96 Watt, High-Output, T12HO Fluorescent Electronic Ballasts (26 01 50 52-0238)		
26 01 50 52-0249	EA	2 Lamp, 96 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	129.82	27.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0250	EA	2 Lamp, 96 Watt, Program/Rapid Start, High-Output, T12HO Fluorescent Electronic Ballast	136.71	34.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0251		Emergency Fluorescent Ballasts (26 01 50 52-0002)		
		Note: 120/277 Volt.		
26 01 50 52-0252	EA	350 To 450 Lumens, One Lamp, Code Compliance, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B100)	204.80	27.61
		For Factory Installation In New Fixtures, Deduct	-55.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.56	
26 01 50 52-0253	EA	600 To 700 Lumens, Two Lamp, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B60)	334.17	34.50
		For Factory Installation In New Fixtures, Deduct	-57.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 01 50 52-0254	EA	1,100 To 1,400 Lumens, One Or Two Lamp, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B50)	414.00	34.50
		For Factory Installation In New Fixtures, Deduct	-57.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 01 50 52-0255	EA	600 To 700 Lumens, One Or Two Lamp, Two Hour Illumination, Emergency Fluorescent Ballast (Bodine B70A)	307.48	34.50
		For Factory Installation In New Fixtures, Deduct	-57.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 01 50 52-0256	EA	2,700 To 3,400 Lumens, Two Or Three Lamp, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B33)	1,423.95	41.41
		For Factory Installation In New Fixtures, Deduct	-60.73	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.22	
26 01 50 52-0257	EA	225 To 450 Lumens, One Lamp, Four Hour Illumination, Emergency Fluorescent Ballast (Bodine B54)	419.63	27.61
		For Factory Installation In New Fixtures, Deduct	-55.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.56	
26 01 50 52-0258	EA	325 To 1,000 Lumens, One Or Two Lamp, Ninety Minute Illumination, Emergency Compact Fluorescent Ballast (Bodine B84CG)	700.36	34.50
		For Factory Installation In New Fixtures, Deduct	-57.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 01 50 52-0259	EA	300 To 750 Lumens, One Or Two Lamp, Ninety Minute Illumination, Emergency Compact Fluorescent Ballast (Bodine B94CG)	387.71	34.50
		For Factory Installation In New Fixtures, Deduct	-57.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 01 50 52-0260	EA	200 To 625 Lumens, One Lamp, Ninety Minute Illumination, Damp Location, Emergency Compact Fluorescent Ballast (Bodine B413)	526.63	27.61
		For Factory Installation In New Fixtures, Deduct	-55.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.56	
26 01 50 52-0261	EA	300 To 650 Lumens, One Lamp, Damp Location, Ninety Minute Illumination, Emergency Compact Fluorescent Ballast (Bodine B463)	409.44	27.61
		For Factory Installation In New Fixtures, Deduct	-55.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.56	
26 01 50 52-0262	EA	450 To 950 Lumens, One Or Two Lamp, Ninety Minute Illumination, Damp Location, Emergency Compact Fluorescent Ballast (Bodine B426)	462.08	34.50
		For Factory Installation In New Fixtures, Deduct	-57.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 01 50 52-0263	EA	1,100 To 1,400 Lumens, One Or Two Lamp, Ninety Minute Illumination, Damp Location, Emergency Fluorescent Ballast (Bodine BDL500)	499.63	34.50
		For Factory Installation In New Fixtures, Deduct	-57.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 01 50 52-0264	EA	600 To 700 Lumens, Two Lamp, Damp Location, Emergency Fluorescent Ballast (Bodine BDL600)	421.31	34.50
		For Factory Installation In New Fixtures, Deduct	-57.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 01 50 52-0265	EA	600 To 700 Lumens, One Lamp, Two Hour Illumination, Emergency Fluorescent Ballast (Bodine BDL700)	427.42	27.61
		For Factory Installation In New Fixtures, Deduct	-55.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.56	
26 01 50 52-0266	EA	500 To 600 Lumens, One Lamp, Damp Location, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine BDL900)	373.12	27.61
		For Factory Installation In New Fixtures, Deduct	-55.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.56	
26 01 50 52-0267	EA	300 To 750 Lumens, One Or Two Lamp, Damp Location, Ninety Minute Illumination, Emergency Compact Fluorescent Ballast (Bodine BDL94C)	387.71	34.50
		For Factory Installation In New Fixtures, Deduct	-57.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 01 50 52-0268	EA	450 Lumens, One Lamp, Low Profile, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine LP400)	378.97	27.61
		For Factory Installation In New Fixtures, Deduct	-55.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.56	
26 01 50 52-0269	EA	1,100 To 1,400 Lumens, One Or Two Lamp, Self Testing, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B50ST)	689.44	34.50
		For Factory Installation In New Fixtures, Deduct	-57.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0270	EA	1,800 To 3,500 Lumens, One Or Two Lamp, Self Testing, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B30ST)	860.73	34.50
		<i>For Factory Installation In New Fixtures, Deduct</i>	-57.98	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.39	
26 01 50 52-0271	EA	1,450 To 3,500 Lumens, One Or Two Lamp, Remote Control Testing, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B30RCT)	1,605.82	34.50
		<i>For Factory Installation In New Fixtures, Deduct</i>	-57.98	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.39	
26 01 50 52-0272	EA	1,100 To 1,400 Lumens, One Or Two Lamp, Remote Control Testing, Ninety Minute Illumination, Emergency Fluorescent Ballast (Bodine B50RCT)	1,117.17	34.50
		<i>For Factory Installation In New Fixtures, Deduct</i>	-57.98	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.39	
26 01 50 52-0273	EA	1,100 To 3,100 Lumens, One Or Two Lamp, Central Battery, Emergency Fluorescent Ballast With Voltage Sensing Circuit (Bodine CB90-48)	570.84	34.50
		<i>For Factory Installation In New Fixtures, Deduct</i>	-57.98	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.39	
26 01 50 52-0274	EA	1,050 To 3,200 Lumens, One Lamp, Interim Lighting For Generator Backup, Five Minute Illumination, Emergency Fluorescent Ballast (Bodine GEN1)	738.13	27.61
		<i>For Factory Installation In New Fixtures, Deduct</i>	-55.21	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.56	
26 01 50 52-0275	EA	250 Watt, Self-Diagnostic, Ninety Minute Illumination, Fluorescent Emergency Lighting Inverter (Bodine ELI-250-SD)	4,105.62	34.50
		<i>For Factory Installation In New Fixtures, Deduct</i>	-55.21	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.56	
26 01 50 52-0276		LED Emergency Ballasts (26 01 50 52-0001)		
26 01 50 52-0277	EA	Up To 520 Lumens, Ninety Minute Illumination, 120-277 Volt, 4 Watt Output, Emergency LED Driver (Bodine BSL4L)	152.98	27.61
		<i>For Factory Installation In New Fixtures, Deduct</i>	-55.21	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.56	
26 01 50 52-0278	EA	Up To 780 Lumens, Ninety Minute Illumination, 120-277 Volt, 6 Watt Output, Emergency LED Driver (Bodine BSL6LST)	225.51	27.61
		<i>For Factory Installation In New Fixtures, Deduct</i>	-55.21	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.56	
26 01 50 52-0279	EA	Up To 975 Lumens, Ninety Minute Illumination, 120-277 Volt, 7.5 Watt Output, Emergency LED Driver (Bodine BSL17C)	269.01	27.61
		<i>For Factory Installation In New Fixtures, Deduct</i>	-55.21	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.56	
26 01 50 52-0280	EA	Up To 1,300 Lumens, Ninety Minute Illumination, 120-277 Volt, 10 Watt Output, Emergency LED Driver (Bodine BSL310)	300.06	27.61
		<i>For Factory Installation In New Fixtures, Deduct</i>	-55.21	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.56	
26 01 50 52-0281	EA	Up To 2,200 Lumens, Ninety Minute Illumination, 120-277 Volt, 18 Watt Output, Emergency LED Driver (Bodine BSL718)	307.91	27.61
		<i>For Factory Installation In New Fixtures, Deduct</i>	-55.21	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.56	
26 01 50 52-0282	EA	Up To 2,600 Lumens, Ninety Minute Illumination, 120-277 Volt, 20 Watt Output, Emergency LED Driver (Bodine BSL20LV)	398.81	27.61
		<i>For Factory Installation In New Fixtures, Deduct</i>	-55.21	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.56	
26 01 50 52-0283	EA	Up To 2,300 Lumens, Ninety Minute Illumination, 120-277 Volt, 23 Watt LED Emergency Battery Backup (LiteTronics EB23UQ)	471.74	27.61
		<i>For Factory Installation In New Fixtures, Deduct</i>	-55.21	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.56	
26 01 50 52-0284		Compact Fluorescent Ballasts (26 01 50 52-0001)		
26 01 50 52-0285		Compact Fluorescent Electronic Ballasts (26 01 50 52-0284) Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0286		18 Watt, Compact Fluorescent Electronic Ballasts (26 01 50 52-0285)		
26 01 50 52-0287	EA	1 Lamp, 18 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	120.58	27.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.28	
26 01 50 52-0288	EA	2 Lamp, 18 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	127.47	34.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.35	
26 01 50 52-0289		26 Watt, Compact Fluorescent Electronic Ballasts (26 01 50 52-0285)		
26 01 50 52-0290	EA	1 Lamp, 26 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	120.58	27.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.28	
26 01 50 52-0291	EA	2 Lamp, 26 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	127.47	34.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.35	
26 01 50 52-0292		32 Watt, Compact Fluorescent Electronic Ballasts (26 01 50 52-0285)		
26 01 50 52-0293	EA	1 Lamp, 32 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	148.72	27.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.28	
26 01 50 52-0294	EA	2 Lamp, 32 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	155.61	34.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.35	
26 01 50 52-0295		40 Watt, Compact Fluorescent Electronic Ballasts (26 01 50 52-0285)		



		Electrical	26
		Operation and Maintenance of Electrical Systems	26 01
		Operation and Maintenance of Lighting	26 01 50

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0296 EA 1 Lamp, 40 Watt, Instant Start, Compact Fluorescent Electronic Ballast.....	117.22	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0297 EA 1 Lamp, 40 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	148.72	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0298 EA 2 Lamp, 40 Watt, Instant Start, Compact Fluorescent Electronic Ballast.....	218.65	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0299 EA 2 Lamp, 40 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	155.61	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0300 EA 3 Lamp, 40 Watt, Instant Start, Compact Fluorescent Electronic Ballast.....	258.50	41.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
26 01 50 52-0301 42 Watt, Compact Fluorescent Electronic Ballasts (26 01 50 52-0285)		
26 01 50 52-0302 EA 1 Lamp, 42 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	148.72	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0303 EA 2 Lamp, 42 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	155.61	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0304 55 Watt, Compact Fluorescent Electronic Ballasts (26 01 50 52-0285)		
26 01 50 52-0305 EA 1 Lamp, 55 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	148.72	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0306 EA 2 Lamp, 55 Watt, Program/Rapid Start, Compact Fluorescent Electronic Ballast	155.61	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0307 Dimming, Compact Fluorescent Electronic Ballasts (26 01 50 52-0284)		
26 01 50 52-0308 Dimming To 5%, Compact Fluorescent Electronic Ballasts (26 01 50 52-0307)		
Note: Includes 120/277 Volt and normal ballast factor.		
26 01 50 52-0309 18 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts (26 01 50 52-0308)		
26 01 50 52-0310 EA 1 Lamp, 18 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	220.69	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0311 EA 2 Lamp, 18 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	227.58	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0312 26 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts (26 01 50 52-0308)		
26 01 50 52-0313 EA 1 Lamp, 26 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	220.69	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0314 EA 2 Lamp, 26 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	227.58	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0315 32 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts (26 01 50 52-0308)		
26 01 50 52-0316 EA 1 Lamp, 32 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	220.69	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0317 EA 2 Lamp, 32 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	243.12	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0318 40 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts (26 01 50 52-0308)		
26 01 50 52-0319 EA 2 Lamp, 40 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	243.12	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0320 42 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts (26 01 50 52-0308)		
26 01 50 52-0321 EA 1 Lamp, 42 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	220.69	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0322 EA 2 Lamp, 42 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	243.12	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0323 55 Watt, Dimming To 5%, Compact Fluorescent Electronic Ballasts (26 01 50 52-0308)		
26 01 50 52-0324 EA 1 Lamp, 55 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	350.90	27.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0325 EA 2 Lamp, 55 Watt, Program/Rapid Start, Dimming To 5%, Compact Fluorescent Electronic Ballast	394.33	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0326 High Intensity Discharge (HID) Ballasts (26 01 50 52-0001)		
26 01 50 52-0327 Magnetic High Intensity Discharge (HID) Ballasts (26 01 50 52-0326)		
26 01 50 52-0328 Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0327)		
26 01 50 52-0329 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0328)		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0330 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	264.21 14.49	34.50
26 01 50 52-0331 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	271.19 14.49	34.50
26 01 50 52-0332 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	271.19 14.49	34.50
26 01 50 52-0333 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	251.31 14.49	34.50
26 01 50 52-0334 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	251.31 14.49	34.50
26 01 50 52-0335 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	384.52 14.49	34.50
26 01 50 52-0336 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	384.52 14.49	34.50
26 01 50 52-0337 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	501.85 14.49	34.50
26 01 50 52-0338 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	561.70 14.49	34.50
26 01 50 52-0339 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0328)		
26 01 50 52-0340 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	236.62 14.49	34.50
26 01 50 52-0341 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	252.23 14.49	34.50
26 01 50 52-0342 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	245.49 14.49	34.50
26 01 50 52-0343 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	292.41 14.49	34.50
26 01 50 52-0344 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	285.70 14.49	34.50
26 01 50 52-0345 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	329.24 14.49	34.50
26 01 50 52-0346 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	329.24 14.49	34.50
26 01 50 52-0347 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	401.66 14.49	34.50
26 01 50 52-0348 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	401.66 14.49	34.50
26 01 50 52-0349 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	655.76 14.49	34.50
26 01 50 52-0350 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	655.76 14.49	34.50
26 01 50 52-0351 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0328)		
26 01 50 52-0352 EA Single Mounting Bracket For Core And Coil Type <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.05 4.14	
26 01 50 52-0353 EA Double Mounting Bracket For Core And Coil Type <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.25 6.21	
26 01 50 52-0354 F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0327)		
26 01 50 52-0355 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0354)		
26 01 50 52-0356 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	341.10 29.28 14.49	34.50
26 01 50 52-0357 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	360.47 31.22 14.49	34.50
26 01 50 52-0358 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	326.44 27.81 14.49	34.50
26 01 50 52-0359 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	382.36 33.41 14.49	34.50
26 01 50 52-0360 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	539.08 49.08 14.49	34.50
26 01 50 52-0361 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0354)		
26 01 50 52-0362 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	414.49 14.49	34.50
26 01 50 52-0363 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	444.68 14.49	34.50
26 01 50 52-0364 Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0327)		



		Electrical	26
		Operation and Maintenance of Electrical Systems	26 01
		Operation and Maintenance of Lighting	26 01 50

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 01 50 52-0365	Metal Halide, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0364)			
26 01 50 52-0366	EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	703.90		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0367	High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0364)			
26 01 50 52-0368	EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	1,095.89		34.43
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.46		
26 01 50 52-0369	EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	1,224.58		34.43
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.46		
26 01 50 52-0370	EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	1,180.06		34.43
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.46		
26 01 50 52-0371	Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0327)			
26 01 50 52-0372	Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0371)			
26 01 50 52-0373	EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	871.54		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0374	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	992.05		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0375	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,317.04		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0376	EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,310.04		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0377	EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,842.72		37.27
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.32		
26 01 50 52-0378	EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,842.72		37.27
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.32		
26 01 50 52-0379	EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,262.23		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0380	EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,488.73		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0381	High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0371)			
26 01 50 52-0382	EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,644.47		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0383	EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,564.65		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0384	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	2,017.23		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0385	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	2,017.23		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0386	Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0327)			
26 01 50 52-0387	Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0386)			
26 01 50 52-0388	EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	981.97		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0389	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,062.40		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0390	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,054.48		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0391	EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,108.36		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0392	EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,772.46		37.27
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.32		
26 01 50 52-0393	EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	2,183.93		37.27
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.32		
26 01 50 52-0394	EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,653.83		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0395	EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,503.80		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0396	High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0386)			
26 01 50 52-0397	EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,273.82		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0398	EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,375.27		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 52-0399	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	2,064.06		34.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0400 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,773.04	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0401 Electronic High Intensity Discharge (HID) Ballasts (26 01 50 52-0326)		
26 01 50 52-0402 Electronic Low Frequency High Intensity Discharge (HID) Ballasts (26 01 50 52-0401)		
26 01 50 52-0403 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	379.67	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0404 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	379.67	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0405 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	430.53	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0406 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	1,143.05	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0407 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	1,143.05	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0408 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	1,143.05	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0409 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	1,143.05	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0410 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	1,143.05	34.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0411 Owner Supplied Ballasts (26 01 50 52-0001)		
26 01 50 52-0412 EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	27.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.28	
26 01 50 52-0413 EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	34.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.35	
26 01 50 52-0414 EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	40.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.01	
26 01 50 52-0415 EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	42.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.84	
26 01 50 52-0416 EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	48.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49	
26 01 50 52-0417 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	51.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.32	
26 01 50 53 Lens and Accessory Replacement (26 01 50)		
26 01 50 53-0001 Lens and Accessory Replacement (26 01 50 53)		
26 01 50 53-0002 EA Removal And Replacement Of Parabolic Aluminum Louver.....	89.94	
26 01 50 53-0003 EA Removal And Replacement Of Visor For Fixtures.....	205.70	
26 01 50 53-0004 EA Removal And Replacement Of Globe On Pole.....	226.40	
26 01 50 53-0005 EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures.....	98.27	
26 01 50 53-0006 EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	34.19	
26 01 50 53-0007 EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	35.26	
26 01 50 53-0008 EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	39.90	
26 01 50 53-0009 EA Removal And Replacement Of Slide-On Lampholder.....	15.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 01 50 53-0010 EA Removal And Replacement Of Screw Mount Lampholder.....	15.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 01 50 53-0011 EA Removal And Replacement Of Medium Bi-Pin Lampholder.....	17.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 01 50 53-0012 EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	19.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 01 50 53-0013 EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	20.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 01 50 53-0014 EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-In.....	16.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 01 50 53-0015 EA Removal And Replacement Of Exterior Light Globes.....	63.43	
26 01 50 54 Light Fixture Driver Replacement (26 01 50)		
26 01 50 54-0001 Factory Replacement Of Light Fixture Driver (26 01 50 54)		
26 01 50 54-0002 EA Factory Replacement Of Existing Light Fixture Transformers To 480 Volt.....	1,372.81	
Note: Includes shipping to manufacture, factory re-work, parts, return shipping.		
26 01 50 71 Historic Lighting Restoration (26 01 50)		
26 01 50 71-0001 Historic Lighting Restoration (26 01 50 71)		
26 01 50 71-0002 LS Remove, Restore, And Reinstall Historic Decorative Light Fixtures.....	27,400.00	
Note: Remove, Restore, and Reinstall (9) Original Decorative Light fixtures per the "Secretary of the Interior's Standards for Rehabilitation" published in the most current edition of the United States National Park Service in "The Secretary of the Interior's Standards for the Treatment of Historic Properties." Include one (1) mock up, Re-sculpting of missing ornamental woodwork, cleaning, refinishing exterior woodwork, installing new wax paper finish on two lights and using salvaged light paper to repair (3) additional lights including faux finishing to match the original distressed paper patina finish, and re-lamp with new LED bulbs.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 01 50 81 Luminaire Replacement (26 01 50)

26 01 50 81-0001	Retrofit Lighting Fixtures	(26 01 50 81)	
26 01 50 81-0002	LED Lighting Retrofits For Existing Fixtures	(26 01 50 81-0001)	
26 01 50 81-0003	LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative)	(26 01 50 81-0002)	
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.			
26 01 50 81-0004	EA 7" Round Downlight, 15 Watt, 2700K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/927)		116.99
26 01 50 81-0005	EA 7" Round Downlight, 15 Watt, 3000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/930)		116.99
26 01 50 81-0006	EA 7" Round Downlight, 15 Watt, 4000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/940)		116.99
26 01 50 81-0007	EA 4" Diameter, 8.5 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827)		97.62
26 01 50 81-0008	EA 4" Diameter, 8.5 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830)		97.62
26 01 50 81-0009	EA 4" Diameter, 8.5 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/840)		97.62
26 01 50 81-0010	EA 6" Diameter, 11.6 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/827)		105.78
26 01 50 81-0011	EA 6" Diameter, 11.6 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/830)		105.78
26 01 50 81-0012	EA 6" Diameter, 11.6 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/840)		105.78

26 01 50 81-0013 LED Lighting Retrofits For Existing Site Fixtures (Daylight Technology) (26 01 50 81-0002)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.			
26 01 50 81-0014	EA 2,300 Lumens, 23 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-20w)		332.42
26 01 50 81-0015	EA 3,300 Lumens, 33 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-30w)		344.66
26 01 50 81-0016	EA 4,400 Lumens, 44 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-40w)		356.90
26 01 50 81-0017	EA 5,400 Lumens, 54 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-50w)		371.88
26 01 50 81-0018	EA 6,500 Lumens, 65 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-60w)		407.57
26 01 50 81-0019	EA 7,600 Lumens, 75 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-70w)		422.57
26 01 50 81-0020	EA 8,600 Lumens, 86 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-80w)		456.22
26 01 50 81-0021	EA 9,600 Lumens, 96 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-90w)		468.46
26 01 50 81-0022	EA 10,700 Lumens, 107 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-100w)		483.44
26 01 50 81-0023	EA 11,700 Lumens, 117 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-110w)		505.87
26 01 50 81-0024	EA 12,800 Lumens, 128 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-120w)		530.05
26 01 50 81-0025	EA 13,800 Lumens, 138 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-130w)		553.50
26 01 50 81-0026	EA 14,900 Lumens, 149 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-140w)		565.74
26 01 50 81-0027	EA 16,100 Lumens, 161 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-150w)		586.13
26 01 50 81-0028	EA 17,200 Lumens, 172 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-160w)		610.66
26 01 50 81-0029	EA 18,200 Lumens, 182 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-170w)		636.15
26 01 50 81-0030	EA 19,300 Lumens, 193 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-180w)		674.90
26 01 50 81-0031	EA 20,300 Lumens, 203 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-190w)		692.23
26 01 50 81-0032	EA 21,400 Lumens, 214 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-200w)		722.51
26 01 50 81-0033	EA 22,400 Lumens, 224 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-210w)		762.28
26 01 50 81-0034	EA 23,500 Lumens, 235 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-220w)		782.68
26 01 50 81-0035	EA 24,500 Lumens, 245 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-230w)		831.67
26 01 50 81-0036	EA 25,600 Lumens, 256 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-240w)		876.54
26 01 50 81-0037	EA 26,600 Lumens, 266 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-250w)		907.85
26 01 50 81-0038	EA 27,700 Lumens, 277 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-260w)		951.70
26 01 50 81-0039	EA 28,700 Lumens, 287 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-270w)		1,037.04
26 01 50 81-0040	EA 29,800 Lumens, 298 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-280w)		1,047.24
26 01 50 81-0041	EA 31,900 Lumens, 319 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-300w)		1,073.81

26 01 50 81-0042 LED Lighting Retrofits For Existing Fixtures (Optilumen) (26 01 50 81-0002)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.			
26 01 50 81-0043	EA 20 Watt, 1 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT1418M-35)		144.32
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0044	EA 20 Watt, 1 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT1418M-40)		144.32
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0045	EA 20 Watt, 1 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT1418M-50)		144.32
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0046	EA 30 Watt, 2 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT2415M-35)		149.42
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0047	EA 2 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2415M-40)		149.42
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0048	EA 2 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2415M-50)		149.42
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0049	EA 2 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2418M-35)		159.61
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0050	EA 2 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2418M-40)		159.61
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0051	EA 2 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2418M-50)		159.61
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0052	EA 3 x 42", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3415M-35)		149.42
Note: Fits 2' x 4' Troffer/Strip			

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0053	EA	3 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3415M-40) Note: Fits 2' x 4' Troffer/Strip	149.42	
26 01 50 81-0054	EA	3 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3415M-50) Note: Fits 2' x 4' Troffer/Strip	149.42	
26 01 50 81-0055	EA	3 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3418M-35) Note: Fits 2' x 4' Troffer/Strip	159.61	
26 01 50 81-0056	EA	3 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3418M-40) Note: Fits 2' x 4' Troffer/Strip	159.61	
26 01 50 81-0057	EA	3 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3418M-50) Note: Fits 2' x 4' Troffer/Strip	159.61	
26 01 50 81-0058	EA	3 x 42", 60 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3424M-35) Note: Fits 2' x 4' Troffer/Strip	180.01	
26 01 50 81-0059	EA	3 x 42", 60 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3424M-40) Note: Fits 2' x 4' Troffer/Strip	180.01	
26 01 50 81-0060	EA	3 x 42", 60 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3424M-50) Note: Fits 2' x 4' Troffer/Strip	180.01	
26 01 50 81-0061	EA	1 x 21", 10 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT1209M-35) Note: Fits 1' x 2' Troffer/Strip	144.32	
26 01 50 81-0062	EA	1 x 21", 10 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT1209M-40) Note: Fits 1' x 2' Troffer/Strip	144.32	
26 01 50 81-0063	EA	1 x 21", 10 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT1209M-50) Note: Fits 1' x 2' Troffer/Strip	144.32	
26 01 50 81-0064	EA	2 x 21", 22 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2209M-35) Note: Fits 2' x 2' Troffer/Strip	144.32	
26 01 50 81-0065	EA	2 x 21", 22 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2209M-40) Note: Fits 2' x 2' Troffer/Strip	144.32	
26 01 50 81-0066	EA	2 x 21", 22 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2209M-50) Note: Fits 2' x 2' Troffer/Strip	144.32	
26 01 50 81-0067	EA	3 x 21", 20 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3209M-35) Note: Fits 2' x 2' Troffer/Strip	149.42	
26 01 50 81-0068	EA	3 x 21", 20 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3209M-40) Note: Fits 2' x 2' Troffer/Strip	149.42	
26 01 50 81-0069	EA	3 x 21", 20 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3209M-50) Note: Fits 2' x 2' Troffer/Strip	149.42	
26 01 50 81-0070	EA	3 x 21", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3210M-35) Note: Fits 2' x 2' Troffer/Strip	155.53	
26 01 50 81-0071	EA	3 x 21", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3210M-40) Note: Fits 2' x 2' Troffer/Strip	155.53	
26 01 50 81-0072	EA	3 x 21", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3210M-50) Note: Fits 2' x 2' Troffer/Strip	155.53	
26 01 50 81-0073		LED Lighting Retrofits For Existing Lay-In/Troffer Fixtures (LG) (26 01 50 81-0002) Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0074	EA	34 Watt, 3500K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-35-4400-R(W)-SN).....	312.65	
26 01 50 81-0075	EA	34 Watt, 4000K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-40-4500-R(W)-SN).....	312.65	
26 01 50 81-0076	EA	26 Watt, 3500K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-35-3400-R(W)-SN).....	283.07	
26 01 50 81-0077	EA	26 Watt, 4000K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-40-3400-R(W)-SN).....	283.07	
26 01 50 81-0078	EA	25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-35-3200-RV) Note: No sensor, ZigBee ready driver	145.60	
26 01 50 81-0079	EA	25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-40-3200-RV) Note: No sensor, ZigBee ready driver	145.60	
26 01 50 81-0080	EA	31 Watt, 4,050 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-35-3200-RV) Note: No sensor, ZigBee ready driver	164.97	
26 01 50 81-0081	EA	31 Watt, 4,050 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-40-3200-RV) Note: No sensor, ZigBee ready driver	164.97	
26 01 50 81-0082	EA	25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-35-3200-RV) Note: Factory installed sensor and ZigBee dongle	179.25	
26 01 50 81-0083	EA	25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-40-3200-RV) Note: Factory installed sensor and ZigBee dongle	179.25	
26 01 50 81-0084	EA	31 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-35-3200-RV) Note: Factory installed sensor and ZigBee dongle	184.34	
26 01 50 81-0085	EA	31 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-40-3200-RV) Note: Factory installed sensor and ZigBee dongle	184.34	
26 01 50 81-0086	EA	2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-2BDK-25-35-3120) Note: No sensor, ZigBee ready driver	116.02	
26 01 50 81-0087	EA	2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-2BDK-25-40-3120) Note: No sensor, ZigBee ready driver	116.02	
26 01 50 81-0088	EA	2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-4BDK-31-35-3880) Note: No sensor, ZigBee ready driver	128.26	
26 01 50 81-0089	EA	2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-4BDK-31-40-3880) Note: No sensor, ZigBee ready driver	128.26	
26 01 50 81-0090	EA	2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-35-3120-L) Note: No sensor, ZigBee ready driver	119.08	
26 01 50 81-0091	EA	2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-40-3120-L) Note: No sensor, ZigBee ready driver	119.08	
26 01 50 81-0092	EA	2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-35-3880-L) Note: No sensor, ZigBee ready driver	131.32	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0093	EA	2" x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-40-3880-L).....	131.32	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0094	EA	6" Diameter, 16 Watt, 1,450 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-35-1450).....	118.06	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0095	EA	6" Diameter, 16 Watt, 1,450 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-40-1450).....	118.06	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0096	EA	8" Diameter, 22 Watt, 2,000 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-35-2000).....	127.24	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0097	EA	8" Diameter, 22 Watt, 2,000 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-40-2000).....	127.24	
		Note: No sensor, ZigBee ready driver		
26 01 50 81-0098		LED Lighting Retrofit Accessories (LG) (26 01 50 81-0002)		
		See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0099	EA	Dongle (LG LGE-DONGLE).....	26.88	
26 01 50 81-0100	EA	1-group On/Off/Dim, 2-Button, Wireless Switch (LG LGE-SWITCH-BAT-2B)	146.78	15.71
26 01 50 81-0101	EA	2-group On/Off/Dim, 4-Button, Wireless Switch (LG LGE-SWITCH-BAT-4B)	153.06	18.85
26 01 50 81-0102	EA	1-group On/Off/Dim, 2-Button, AC Powered Switch (LG LGE-SWITCH-AC-2B)	187.98	15.71
26 01 50 81-0103	EA	2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B)	194.26	18.85
26 01 50 81-0104	EA	Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR)	97.23	12.57
26 01 50 81-0105	EA	Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP).....	33.62	12.57
26 01 50 81-0106	EA	Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE)	36.03	12.57
26 01 50 81-0107	EA	Wireless Interface Module (LG PIHN-W005A).....	92.28	18.85
		Note: includes dongle		
26 01 50 81-0108		Retrofit Existing (T12) Fluorescent Fixtures (26 01 50 81-0001)		
		Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 02 84 16 00-0008 for leaking ballast disposal.		
26 01 50 81-0109		Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector (26 01 50 81-0108)		
		Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0110	EA	Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp.....	114.62	
		For Specular Ballast Cover, Add	13.28	
26 01 50 81-0111	EA	Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps.....	122.28	
		For Specular Ballast Cover, Add	14.82	
26 01 50 81-0112	EA	Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps.....	166.06	
		For Specular Ballast Cover, Add	23.57	
26 01 50 81-0113	EA	Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps	190.66	
		For Specular Ballast Cover, Add	28.49	
26 01 50 81-0114		Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector (26 01 50 81-0108)		
		Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0115	EA	Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp	121.06	
		For Specular Reflector, Add	17.05	
26 01 50 81-0116	EA	Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....	129.49	
		For Specular Reflector, Add	17.05	
26 01 50 81-0117	EA	Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....	175.07	
		For Specular Reflector, Add	17.05	
26 01 50 81-0118	EA	Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps	221.38	
		For Specular Reflector, Add	17.05	
26 01 50 81-0119		Retrofit Existing (T12) Troffer Style Fluorescent Fixtures (26 01 50 81-0108)		
		Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0120	EA	Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps	151.58	
		For Specular Reflector, Add	17.05	
26 01 50 81-0121	EA	Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps	159.23	
		For Specular Reflector, Add	17.05	
26 01 50 81-0122	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps	161.16	
		For Specular Reflector, Add	17.05	
26 01 50 81-0123	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps	179.55	
		For Specular Reflector, Add	17.05	
26 01 50 81-0124	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps	215.84	
		For Specular Reflector, Add	17.05	
26 01 50 81-0125	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps	166.96	
		For Specular Reflector, Add	17.05	
26 01 50 81-0126	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps	183.10	
		For Specular Reflector, Add	17.05	
26 01 50 81-0127	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps	196.72	
		For Specular Reflector, Add	17.05	
26 01 50 81-0128		Retrofit Existing Recessed Lay-In/Troffer Fixtures (26 01 50 81-0001)		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 81-0129 Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia) (26 01 50 81-0128)

Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.

26 01 50 81-0130	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	190.84
26 01 50 81-0131	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	190.84
26 01 50 81-0132	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	190.84
26 01 50 81-0133	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	207.36
26 01 50 81-0134	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	190.84
26 01 50 81-0135	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	190.84
26 01 50 81-0136	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	190.84
26 01 50 81-0137	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	207.36
26 01 50 81-0138	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	191.89
26 01 50 81-0139	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	191.89
26 01 50 81-0140	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	191.89
26 01 50 81-0141	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	208.40
26 01 50 81-0142	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	191.89
26 01 50 81-0143	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	191.89
26 01 50 81-0144	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	191.89
26 01 50 81-0145	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	208.40

26 01 50 81-0146 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED) (26 01 50 81-0128)

Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.

26 01 50 81-0147	EA	2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025).....	264.21
26 01 50 81-0148	EA	4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045).....	275.44

26 01 50 81-0149 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™) (26 01 50 81-0128)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.

26 01 50 81-0150	EA	1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L).....	375.96
26 01 50 81-0151	EA	2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L).....	384.93
26 01 50 81-0152	EA	2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L).....	375.96
26 01 50 81-0153	EA	3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L).....	384.93
26 01 50 81-0154	EA	3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L).....	429.78
26 01 50 81-0155	EA	4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L).....	443.24
26 01 50 81-0156	EA	5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L).....	474.64

26 01 50 81-0157 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion) (26 01 50 81-0128)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.

26 01 50 81-0158	EA	3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	348.51
26 01 50 81-0159	EA	3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	361.02
26 01 50 81-0160	EA	3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	364.77



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0161	EA	3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	377.28	
26 01 50 81-0162	EA	2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDSX84022MST).....	264.05	
26 01 50 81-0163	EA	4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDSX84022MST).....	269.99	
26 01 50 81-0164	EA	3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDSX84024MST).....	279.50	
26 01 50 81-0165	EA	4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDSX84024MST).....	285.44	
26 01 50 81-0166	EA	6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDSX84024MST).....	352.01	
26 01 50 81-0167	EA	8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDSX84024MST).....	418.57	
26 01 50 81-0168		Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) (26 01 50 81-0128) Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0169	EA	1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	308.33	
26 01 50 81-0170	EA	1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	231.84	
26 01 50 81-0171	EA	2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	316.61	
26 01 50 81-0172	EA	2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	240.03	
26 01 50 81-0173	EA	3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	331.62	
26 01 50 81-0174	EA	3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	261.03	
26 01 50 81-0175	EA	1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	364.40	
26 01 50 81-0176	EA	1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	287.69	
26 01 50 81-0177	EA	2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	372.15	
26 01 50 81-0178	EA	2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	295.50	
26 01 50 81-0179	EA	3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	386.99	
26 01 50 81-0180	EA	3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	316.41	
26 01 50 81-0181		LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT) (26 01 50 81-0128) Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0182	EA	3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT).....	691.41	
26 01 50 81-0183	EA	4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT).....	767.90	
26 01 50 81-0184		Retrofit Existing Fixtures With Emergency Battery Pack (26 01 50 81-0001)		
26 01 50 81-0185	EA	90 minute, 10 Watt, 50 VDC, Emergency Battery Pack for 2x4 LED Lighting Fixture (AcuityBrands Power Sentry® PS1050 FIK).....	552.01	
26 01 50 81-0186	EA	90 minute, 10 Watt, 50 VDC, Emergency Battery Pack for 2x4 LED Lighting Fixture (AcuityBrands Power Sentry® PS1055LCP M5).....	595.70	
26 01 50 81-0187		Retrofit Existing HID Fixtures (26 01 50 81-0001)		
26 01 50 81-0188	EA	Tear Drop LED Retrofit Kit (Holograph LTDR2 P35S 40K AS BK TDRD 3 P).....	1,564.96	
26 01 50 81-0189		LED Lighting Retrofits For Existing Fluorescent Fixtures (26 01 50 81-0001) Note: Excludes recycling or disposal of lamps and ballasts.		
26 01 50 81-0190		LED Lightbar Retrofit For Existing Fluorescent Fixtures (Lithonia) (26 01 50 81-0189)		
26 01 50 81-0191	EA	2' Length, 2 Bar, 2,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 2 2000LMHE 80CRI 35K MIN10 GZT MVOLT).....	122.70	
		For >25 To 50, Deduct	-6.14	
		For >50 To 100, Deduct	-10.75	
		For >100, Deduct	-18.47	
26 01 50 81-0192	EA	2' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 4 8000LMHE 80CRI MIN10 GZT MVOLT).....	174.75	
		For >25 To 50, Deduct	-8.74	
		For >50 To 100, Deduct	-14.66	
		For >100, Deduct	-23.67	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0193	EA	3' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	133.21		
		For >25 To 50, Deduct	-6.66		
		For >50 To 100, Deduct	-11.63		
		For >100, Deduct	-19.86		
26 01 50 81-0194	EA	3' Length, 1 Bar, 1,600 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 1 1600LMHE 80CRI 35K MIN10 GZT MVOLT).....	123.05		
		For >25 To 50, Deduct	-6.15		
		For >50 To 100, Deduct	-10.86		
		For >100, Deduct	-18.85		
26 01 50 81-0195	EA	4' Length, 2 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	159.08		
		For >25 To 50, Deduct	-7.95		
		For >50 To 100, Deduct	-13.65		
		For >100, Deduct	-22.79		
26 01 50 81-0196	EA	4' Length, 4 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	204.19		
		For >25 To 50, Deduct	-10.21		
		For >50 To 100, Deduct	-17.04		
		For >100, Deduct	-27.31		
26 01 50 81-0197	EA	4' Length, 1 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	132.76		
		For >25 To 50, Deduct	-6.64		
		For >50 To 100, Deduct	-11.68		
		For >100, Deduct	-20.16		
26 01 50 81-0198	EA	4' Length, 1 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	132.76		
		For >25 To 50, Deduct	-6.64		
		For >50 To 100, Deduct	-11.68		
		For >100, Deduct	-20.16		
26 01 50 81-0199	EA	4' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 8000LMHE 80CRI 35K MIN10 GZT MVOLT).....	168.10		
		For >25 To 50, Deduct	-8.41		
		For >50 To 100, Deduct	-14.33		
		For >100, Deduct	-23.70		
26 01 50 81-0200	EA	4' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	144.04		
		For >25 To 50, Deduct	-7.20		
		For >50 To 100, Deduct	-12.52		
		For >100, Deduct	-21.29		
26 01 50 81-0201	EA	4' Length, 2 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	144.04		
		For >25 To 50, Deduct	-7.20		
		For >50 To 100, Deduct	-12.52		
		For >100, Deduct	-21.29		
26 01 50 81-0202	LED Retrofit For Existing Fluorescent Fixtures (Lithonia) (26 01 50 81-0189)				
26 01 50 81-0203	EA	1'x 4', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	282.04		
		For nLight PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	179.91		
		For nLight AIR radio module without sensor (nLight RIO), Add	116.95		
		For >25 To 50, Deduct	-14.10		
		For >50 To 100, Deduct	-22.87		
		For >100, Deduct	-35.09		
26 01 50 81-0204	EA	1'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2).....	303.38		
		For nLight PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	179.91		
		For nLight AIR radio module without sensor (nLight RIO), Add	116.95		
		For >25 To 50, Deduct	-15.17		
		For >50 To 100, Deduct	-24.48		
		For >100, Deduct	-37.22		
26 01 50 81-0205	EA	2'x 2', 3,300 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R 33LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	319.33		
		For nLight PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	179.91		
		For nLight AIR radio module without sensor (nLight RIO), Add	116.95		
		For >25 To 50, Deduct	-15.97		
		For >50 To 100, Deduct	-25.67		
		For >100, Deduct	-38.82		
26 01 50 81-0206	EA	2'x 2', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	344.25		
		For nLight PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	179.91		
		For nLight AIR radio module without sensor (nLight RIO), Add	116.95		
		For >25 To 50, Deduct	-17.21		
		For >50 To 100, Deduct	-27.54		
		For >100, Deduct	-41.31		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0207	EA		2'x 4', 4,000 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 40LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	370.30	
			For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	179.91	
			For nLight AIR radio module without sensor (nLight RIO), Add	116.95	
			For >25 To 50, Deduct	-18.52	
			For >50 To 100, Deduct	-29.84	
			For >100, Deduct	-45.29	
26 01 50 81-0208	EA		2'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	399.24	
			For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	179.91	
			For nLight AIR radio module without sensor (nLight RIO), Add	116.95	
			For >25 To 50, Deduct	-19.96	
			For >50 To 100, Deduct	-32.01	
			For >100, Deduct	-48.19	
26 01 50 81-0209			LED Lighting Retrofits For Existing Fluorescent Fixtures (ELED Lights) (26 01 50 81-0189)		
			Note: Includes removal of existing fluorescent lamps, installing LED strip lighting and trim. Excludes recycling or disposal of lamps. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0210	EA		2' Dimmable, 20 Watts, 2,900 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W40)	116.28	
			Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-5.81	
			For >50 To 100, Deduct	-10.27	
			For >100, Deduct	-17.83	
26 01 50 81-0211	EA		2' Dimmable, 20 Watts, 2,900 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W50)	116.28	
			Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-5.81	
			For >50 To 100, Deduct	-10.27	
			For >100, Deduct	-17.83	
26 01 50 81-0212	EA		4' Dimmable, 32 Watts, 5,000 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W40)	152.24	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.61	
			For >50 To 100, Deduct	-13.14	
			For >100, Deduct	-22.11	
26 01 50 81-0213	EA		4' Dimmable, 32 Watts, 5,000 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W50)	152.24	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.61	
			For >50 To 100, Deduct	-13.14	
			For >100, Deduct	-22.11	
26 01 50 81-0214	EA		4' Dimmable, 35 Watts, 5,500 Lumens, 3000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30)	152.36	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.62	
			For >50 To 100, Deduct	-13.15	
			For >100, Deduct	-22.12	
26 01 50 81-0215	EA		4' Dimmable, 35 Watts, 5,500 Lumens, 3000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30F)	165.74	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-8.29	
			For >50 To 100, Deduct	-14.15	
			For >100, Deduct	-23.46	
26 01 50 81-0216	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35)	152.36	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.62	
			For >50 To 100, Deduct	-13.15	
			For >100, Deduct	-22.12	
26 01 50 81-0217	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35F)	165.74	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-8.29	
			For >50 To 100, Deduct	-14.15	
			For >100, Deduct	-23.46	
26 01 50 81-0218	EA		4' Dimmable, 35 Watts, 5,500 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40)	152.36	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.62	
			For >50 To 100, Deduct	-13.15	
			For >100, Deduct	-22.12	
26 01 50 81-0219	EA		4' Dimmable, 35 Watts, 5,500 Lumens, 4000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40F)	165.74	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-8.29	
			For >50 To 100, Deduct	-14.15	
			For >100, Deduct	-23.46	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0220	EA	4' Dimmable, 35 Watts, 5,500 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50).....	152.36	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-7.62	
		For >50 To 100, Deduct	-13.15	
		For >100, Deduct	-22.12	
26 01 50 81-0221	EA	4' Dimmable, 35 Watts, 5,500 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50F).....	165.74	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-8.29	
		For >50 To 100, Deduct	-14.15	
		For >100, Deduct	-23.46	
26 01 50 81-0222	EA	4' Dimmable, 46 Watts, 6,800 Lumens, 5000K, Ultra High Lumen Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD46W50).....	165.62	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-8.28	
		For >50 To 100, Deduct	-14.14	
		For >100, Deduct	-23.45	
26 01 50 81-0223	EA	4' Dimmable, 31 Watts, 5,730 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	194.24	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-9.71	
		For >50 To 100, Deduct	-16.29	
		For >100, Deduct	-26.31	
26 01 50 81-0224	EA	4' Dimmable, 31 Watts, 5,730 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F).....	210.95	
		Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-10.55	
		For >50 To 100, Deduct	-17.54	
		For >100, Deduct	-27.98	
26 01 50 81-0225	EA	4' Dimmable, 31 Watts, 5,730 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....	194.24	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-9.71	
		For >50 To 100, Deduct	-16.29	
		For >100, Deduct	-26.31	
26 01 50 81-0226	EA	4' Dimmable, 31 Watts, 5,730 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F).....	210.95	
		Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-10.55	
		For >50 To 100, Deduct	-17.54	
		For >100, Deduct	-27.98	
26 01 50 81-0227	EA	20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS BLD-AM20D-480800).....	206.03	
		Note: 90-minute emergency battery with DIP switch-selectable power output of 10 Watts, 15 Watts, or 20 Watts		
		For >25 To 50, Deduct	-10.30	
		For >50 To 100, Deduct	-15.80	
		For >100, Deduct	-21.98	
26 01 50 81-0228	EA	20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS EM-HM-20W).....	189.11	
		Note: 90-minute emergency battery with power output of 20 Watts		
		For >25 To 50, Deduct	-9.46	
		For >50 To 100, Deduct	-14.53	
		For >100, Deduct	-20.29	
26 01 50 81-0229	EA	8' Dimmable, 46 Watts, 7,400 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD46W50).....	197.98	
		Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-9.90	
		For >50 To 100, Deduct	-17.09	
		For >100, Deduct	-28.75	
26 01 50 81-0230	EA	8' Dimmable, 49 Watts, 6,680 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50F).....	206.34	
		Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-10.32	
		For >50 To 100, Deduct	-17.71	
		For >100, Deduct	-29.59	
26 01 50 81-0231	EA	8' Dimmable, 64 Watts, 11,850 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	288.45	
		Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-14.42	
		For >50 To 100, Deduct	-23.87	
		For >100, Deduct	-37.80	
26 01 50 81-0232	EA	8' Dimmable, 64 Watts, 11,850 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F).....	321.89	
		Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-16.09	
		For >50 To 100, Deduct	-26.38	
		For >100, Deduct	-41.14	



Electrical		26
Operation and Maintenance of Electrical Systems		26 01
Operation and Maintenance of Lighting		26 01 50

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0233 EA 8' Dimmable, 64 Watts, 11,850 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....	288.45	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-14.42	
For >50 To 100, Deduct	-23.87	
For >100, Deduct	-37.80	
26 01 50 81-0234 EA 8' Dimmable, 64 Watts, 11,850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F).....	321.89	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-16.09	
For >50 To 100, Deduct	-26.38	
For >100, Deduct	-41.14	

26 05 Common Work Results for Electrical (26)

26 05 13 Medium-Voltage Cables (26 05)

26 05 13 16 Medium-Voltage, Single- and Multi-Conductor Cables (26 05 13)

26 05 13 16-0001	Wire And Cable (26 05 13 16)		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.			
26 05 13 16-0002	5 KV Cable (26 05 13 16-0001)		
26 05 13 16-0003	Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)		
26 05 13 16-0004 MLF	#6 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,155.51	1,047.92
26 05 13 16-0005 MLF	#4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,936.80	1,144.22
26 05 13 16-0006 MLF	#2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,905.59	1,292.80
26 05 13 16-0007 MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,679.35	1,592.78
26 05 13 16-0008 MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,750.41	1,793.61
26 05 13 16-0009 MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,779.54	1,990.87
26 05 13 16-0010 MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,134.21	2,236.94
26 05 13 16-0011 MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,435.78	2,488.69
26 05 13 16-0012 MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	16,814.79	2,971.43
26 05 13 16-0013 MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	21,246.75	3,492.86
26 05 13 16-0014 MLF	750 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	31,861.97	4,116.71
26 05 13 16-0015 MLF	1,000 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	42,483.74	4,740.27
26 05 13 16-0016	Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)		
Note: Excludes excavation.			
26 05 13 16-0017 MLF	#6 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,024.53	
26 05 13 16-0018 MLF	#4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,564.94	
26 05 13 16-0019 MLF	#2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,162.24	
26 05 13 16-0020 MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,432.29	
26 05 13 16-0021 MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,001.14	
26 05 13 16-0022 MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,782.66	
26 05 13 16-0023 MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,522.16	
26 05 13 16-0024 MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,446.19	
26 05 13 16-0025 MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,749.04	
26 05 13 16-0026 MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	15,995.28	
26 05 13 16-0027	Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0028	MLF	#6 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,262.89	662.25
26 05 13 16-0029	MLF	#4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,928.32	710.08
26 05 13 16-0030	MLF	#2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,015.30	897.95
26 05 13 16-0031	MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,540.34	1,090.08
26 05 13 16-0032	MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,603.59	1,279.67
26 05 13 16-0033	MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,618.85	1,463.43
26 05 13 16-0034	MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,969.99	1,698.00
26 05 13 16-0035	MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,785.19	2,136.18
26 05 13 16-0036	MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	16,435.03	2,702.95
26 05 13 16-0037	MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	21,371.13	3,395.99
26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 16-0002)				
26 05 13 16-0039	MLF	1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,059.66	2,088.37
26 05 13 16-0040	MLF	2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,478.33	2,118.38
26 05 13 16-0041	MLF	3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,897.01	2,148.39
26 05 13 16-0042	MLF	4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,399.37	2,195.88
26 05 13 16-0043	MLF	350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,885.14	2,279.64
26 05 13 16-0044	MLF	500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	21,327.66	2,389.10
26 05 13 16-0045	MLF	750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	33,057.46	2,986.37
26 05 13 16-0046	MLF	1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	38,105.26	3,981.88
26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)				
26 05 13 16-0048	MLF	#6 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,431.97	1,047.92
26 05 13 16-0049	MLF	#4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,310.53	1,144.22
26 05 13 16-0050	MLF	#2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,386.84	1,292.80
26 05 13 16-0051	MLF	#1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,365.67	1,442.71
26 05 13 16-0052	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,344.90	1,592.78
26 05 13 16-0053	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,518.35	1,793.61
26 05 13 16-0054	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,823.94	1,990.87
26 05 13 16-0055	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,311.73	2,236.94
26 05 13 16-0056	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,914.33	2,488.69
26 05 13 16-0057	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	18,504.27	2,971.43
26 05 13 16-0058	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	23,499.39	3,492.86
26 05 13 16-0059	MLF	750 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	35,745.28	4,116.71
26 05 13 16-0060	MLF	1,000 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	47,997.69	4,740.27
26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)				
Note: Excludes excavation.				
26 05 13 16-0062	MLF	#6 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,300.99	
26 05 13 16-0063	MLF	#4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,938.68	
26 05 13 16-0064	MLF	#2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,643.49	
26 05 13 16-0065	MLF	#1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,371.23	
26 05 13 16-0066	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,097.84	
26 05 13 16-0067	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,769.09	
26 05 13 16-0068	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,827.07	
26 05 13 16-0069	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,699.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0070 MLF 250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,924.74	
26 05 13 16-0071 MLF 350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,438.52	
26 05 13 16-0072 MLF 500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	18,247.92	
26 05 13 16-0073 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		
26 05 13 16-0074 MLF #6 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,539.35	662.25
26 05 13 16-0075 MLF #4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	4,302.05	710.08
26 05 13 16-0076 MLF #2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	5,496.55	897.95
26 05 13 16-0077 MLF #1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,349.46	993.31
26 05 13 16-0078 MLF 1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,205.89	1,090.08
26 05 13 16-0079 MLF 2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,371.53	1,279.67
26 05 13 16-0080 MLF 3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,663.25	1,463.43
26 05 13 16-0081 MLF 4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,147.51	1,698.00
26 05 13 16-0082 MLF 250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	15,263.74	2,136.18
26 05 13 16-0083 MLF 350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	18,124.51	2,702.95
26 05 13 16-0084 MLF 500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	23,623.77	3,395.99
26 05 13 16-0085 15 KV Cable (26 05 13 16-0001)		
26 05 13 16-0086 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0087 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0086)		
26 05 13 16-0088 MLF #4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,160.61	2,088.37
26 05 13 16-0089 MLF #2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,962.05	2,088.37
26 05 13 16-0090 MLF #1 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,267.75	2,088.37
26 05 13 16-0091 MLF 1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	11,263.62	2,088.37
26 05 13 16-0092 MLF 2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	12,208.84	2,088.37
26 05 13 16-0093 MLF 3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	14,024.12	2,179.90
26 05 13 16-0094 MLF 4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	14,395.45	2,179.90
26 05 13 16-0095 MLF 250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	16,670.54	2,279.64
26 05 13 16-0096 MLF 350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	18,981.50	2,333.10
26 05 13 16-0097 MLF 500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	23,482.78	2,628.00
26 05 13 16-0098 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0086) Note: Excludes excavation.		
26 05 13 16-0099 MLF #1 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,021.30	
26 05 13 16-0100 MLF 1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,017.15	
26 05 13 16-0101 MLF 2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,962.38	
26 05 13 16-0102 MLF 3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,806.54	
26 05 13 16-0103 MLF 4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,177.86	
26 05 13 16-0104 MLF 250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,576.31	
26 05 13 16-0105 MLF 350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	16,891.06	
26 05 13 16-0106 MLF 500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	21,093.70	

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 05 13 16-0107	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0086)	
26 05 13 16-0108	MLF #1 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,513.98 946.06
26 05 13 16-0109	MLF 1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,885.50 1,090.08
26 05 13 16-0110	MLF 2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,325.13 1,279.67
26 05 13 16-0111	MLF 3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,391.13 1,463.43
26 05 13 16-0112	MLF 4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,374.09 1,698.00
26 05 13 16-0113	MLF 250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	16,126.61 1,976.69
26 05 13 16-0114	MLF 350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	19,155.72 2,303.35
26 05 13 16-0115	MLF 500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	23,890.59 2,675.55
26 05 13 16-0116	Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)	
26 05 13 16-0117	Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0116)	
26 05 13 16-0118	MLF #4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,869.75 2,088.37
26 05 13 16-0119	MLF #2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,815.45 2,088.37
26 05 13 16-0120	MLF #1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	11,176.18 2,088.37
26 05 13 16-0121	MLF 1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	12,351.30 2,088.37
26 05 13 16-0122	MLF 2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	13,466.66 2,088.37
26 05 13 16-0123	MLF 3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	15,567.53 2,179.90
26 05 13 16-0124	MLF 4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	16,005.71 2,179.90
26 05 13 16-0125	MLF 250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	18,645.38 2,279.64
26 05 13 16-0126	MLF 350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	21,348.27 2,333.10
26 05 13 16-0127	MLF 500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	26,527.07 2,628.00
26 05 13 16-0128	Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0116) Note: Excludes excavation.	
26 05 13 16-0129	MLF #1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,929.73
26 05 13 16-0130	MLF 1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,104.84
26 05 13 16-0131	MLF 2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,220.20
26 05 13 16-0132	MLF 3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,349.96
26 05 13 16-0133	MLF 4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,788.12
26 05 13 16-0134	MLF 250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	16,545.41
26 05 13 16-0135	MLF 350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	19,248.48
26 05 13 16-0136	MLF 500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	24,138.00
26 05 13 16-0137	Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0116)	
26 05 13 16-0138	MLF #1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,422.41 946.06
26 05 13 16-0139	MLF 1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,973.19 1,090.08
26 05 13 16-0140	MLF 2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	11,582.95 1,279.67
26 05 13 16-0141	MLF 3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,934.55 1,463.43



Electrical		26
Common Work Results for Electrical		26 05
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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0142	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,984.35	1,698.00
26 05 13 16-0143	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	18,101.46	1,976.69
26 05 13 16-0144	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	21,522.49	2,303.35
26 05 13 16-0145	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	26,934.89	2,675.55
26 05 13 16-0146		15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147	MLF	1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	13,440.31	2,095.68
26 05 13 16-0148	MLF	2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	11,515.24	2,145.78
26 05 13 16-0149	MLF	3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	17,639.38	2,195.88
26 05 13 16-0150	MLF	350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	24,465.96	2,342.21
26 05 13 16-0151		Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085) Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152		Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153	LF	3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	61.88	15.98
26 05 13 16-0154	LF	3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	74.62	17.02
26 05 13 16-0155		Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156	LF	3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	61.88	15.98
26 05 13 16-0157	LF	3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	74.62	17.02
26 05 13 16-0158		Underground Residential Distribution (URD), 15 KV Primary Concentric UD Cable (26 05 13 16-0085) Note: 0.175" cross-linked polyethylene (XLPE) insulation, copper conductor.		
26 05 13 16-0159	MLF	#4 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	4,530.45	1,047.92
26 05 13 16-0160	MLF	#2 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	5,443.66	1,144.22
26 05 13 16-0161	MLF	#1 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	6,558.26	1,292.80
26 05 13 16-0162	MLF	1/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	8,571.39	1,588.45
26 05 13 16-0163	MLF	2/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	9,778.47	1,788.24
26 05 13 16-0164	MLF	3/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	12,195.97	1,990.87
26 05 13 16-0165	MLF	4/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	13,710.30	2,228.57
26 05 13 16-0166		15 KV, Underground Residential Distribution (URD), Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167	MLF	3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial	23,444.80	
26 05 13 16-0168		Wire Connections (26 05 13 16-0001)		
26 05 13 16-0169		Medium Voltage Up To 5 KV (26 05 13 16-0168)		
26 05 13 16-0170		Shielded One Conductor Cable Splice (26 05 13 16-0169)		
26 05 13 16-0171	EA	#6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	561.81	137.53
26 05 13 16-0172	EA	#2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	851.76	137.53
26 05 13 16-0173	EA	1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	851.76	137.53
26 05 13 16-0174	EA	2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	892.69	165.03
26 05 13 16-0175	EA	3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	892.69	165.03
26 05 13 16-0176	EA	4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	892.69	165.03
26 05 13 16-0177	EA	250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	947.25	192.54
26 05 13 16-0178	EA	350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	947.25	192.54
26 05 13 16-0179	EA	500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	947.25	192.54
26 05 13 16-0180		Cable Termination Without Stress Cone (26 05 13 16-0169)		
26 05 13 16-0181	EA	#6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	942.90	165.03
26 05 13 16-0182	EA	250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	1,083.90	192.54
26 05 13 16-0183		Cable Termination With Stress Cone (26 05 13 16-0169)		
26 05 13 16-0184	EA	#6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	3,146.75	330.06
26 05 13 16-0185	EA	250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	4,308.32	453.83
26 05 13 16-0186		Connect To Pothead, Pothead Included (26 05 13 16-0169)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0187	EA	#6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV.....	3,321.88	330.06
26 05 13 16-0188	EA	250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV.....	4,330.69	378.20
26 05 13 16-0189		Two Conductor Pothead (26 05 13 16-0189) Note: Includes 5 KV pothead.		
26 05 13 16-0190	EA	#6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,971.84	453.83
26 05 13 16-0191	EA	250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,728.54	577.62
26 05 13 16-0192	EA	400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	4,628.55	654.91
26 05 13 16-0193	EA	750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	8,165.63	764.10
26 05 13 16-0194	EA	1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	15,567.23	1,146.01
26 05 13 16-0195		Three Conductor Pothead (26 05 13 16-0195) Note: Includes 5 KV pothead.		
26 05 13 16-0196	EA	#6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	10,552.77	660.13
26 05 13 16-0197	EA	250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	11,455.70	770.15
26 05 13 16-0198		Copper Cable Splice, Crimp Compression Connection (26 05 13 16-0198) Note: For bare wire.		
26 05 13 16-0199	EA	#6 AWG Crimp Compression Connection For Bare Copper Wire.....	94.04	
26 05 13 16-0200	EA	#4 AWG Crimp Compression Connection For Bare Copper Wire.....	105.31	
26 05 13 16-0201	EA	#3 AWG Crimp Compression Connection For Bare Copper Wire.....	122.69	
26 05 13 16-0202	EA	#2 AWG Crimp Compression Connection For Bare Copper Wire.....	137.62	
26 05 13 16-0203	EA	#1 AWG Crimp Compression Connection For Bare Copper Wire.....	156.01	
26 05 13 16-0204	EA	1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	173.04	
26 05 13 16-0205	EA	2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	189.49	
26 05 13 16-0206	EA	3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	208.28	
26 05 13 16-0207	EA	4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	225.67	
26 05 13 16-0208	EA	250 MCM Crimp Compression Connection For Bare Copper Wire.....	244.11	
26 05 13 16-0209	EA	300 MCM Crimp Compression Connection For Bare Copper Wire.....	263.89	
26 05 13 16-0210	EA	350 MCM Crimp Compression Connection For Bare Copper Wire.....	280.46	
26 05 13 16-0211	EA	400 MCM Crimp Compression Connection For Bare Copper Wire.....	319.20	
26 05 13 16-0212	EA	500 MCM Crimp Compression Connection For Bare Copper Wire.....	361.17	
26 05 13 16-0213		Aluminum Cable Splice, Crimp Compression Connection (26 05 13 16-0213) Note: For bare wire.		
26 05 13 16-0214	EA	#6 AWG Crimp Compression Connection For Bare Aluminum Wire.....	100.29	
26 05 13 16-0215	EA	#4 AWG Crimp Compression Connection For Bare Aluminum Wire.....	108.76	
26 05 13 16-0216	EA	#2 AWG Crimp Compression Connection For Bare Aluminum Wire.....	149.02	
26 05 13 16-0217	EA	#1 AWG Crimp Compression Connection For Bare Aluminum Wire.....	185.00	
26 05 13 16-0218	EA	1/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	200.39	
26 05 13 16-0219	EA	2/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	215.62	
26 05 13 16-0220	EA	3/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	238.61	
26 05 13 16-0221	EA	4/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	257.76	
26 05 13 16-0222	EA	250 MCM Crimp Compression Connection For Bare Aluminum Wire.....	275.43	
26 05 13 16-0223	EA	300 MCM Crimp Compression Connection For Bare Aluminum Wire.....	294.51	
26 05 13 16-0224	EA	350 MCM Crimp Compression Connection For Bare Aluminum Wire.....	312.60	
26 05 13 16-0225	EA	400 MCM Crimp Compression Connection For Bare Aluminum Wire.....	365.25	
26 05 13 16-0226	EA	500 MCM Crimp Compression Connection For Bare Aluminum Wire.....	418.61	
26 05 13 16-0227		15 KV (26 05 13 16-0227)		
26 05 13 16-0228		Single Conductor Pothead On Racks (26 05 13 16-0228) Note: Includes pothead.		
26 05 13 16-0229	EA	#2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks.....	2,362.67	577.62
26 05 13 16-0230	EA	250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks.....	3,045.21	715.13
26 05 13 16-0231		Two Conductor Pothead On Rack (26 05 13 16-0231) Note: Includes pothead.		
26 05 13 16-0232	EA	#2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks.....	3,404.01	880.16
26 05 13 16-0233	EA	250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks.....	4,131.18	1,045.20
26 05 13 16-0234		Three Conductor Pothead On Rack (26 05 13 16-0234) Note: Includes pothead.		
26 05 13 16-0235	EA	#2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks.....	4,304.10	1,141.47
26 05 13 16-0236	EA	250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks.....	5,351.90	1,430.28
26 05 13 16-0237		Stress Relief Cone On Rack (26 05 13 16-0237)		
26 05 13 16-0238	EA	#2 To 4/0 AWG Stress Relief Cone, On Rack.....	2,151.08	577.62
26 05 13 16-0239	EA	250 To 500 MCM Stress Relief Cone, On Rack.....	2,807.32	715.13
26 05 13 16-0240		Grounded, Shielded Cable Splice (26 05 13 16-0240)		
26 05 13 16-0241	EA	#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	1,417.90	426.33



Electrical			26
Common Work Results for Electrical			26 05
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MINOR			TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION			UNIT COST		UNIT COST	
26 05 13 16-0242	EA	250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV	1,808.74		550.10	
26 05 13 16-0243	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way ...	11,019.62		1,512.79	
26 05 13 16-0244	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way	14,750.97		1,650.32	
26 05 13 16-0245 Cable Termination (26 05 13 16-0227)						
26 05 13 16-0246	EA	#2 To 3/0 AWG Cable Termination 15 KV	1,027.48		240.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	144.40			
26 05 13 16-0247	EA	4/0 To 250 MCM Cable Termination 15 KV	1,287.08		309.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.66			
26 05 13 16-0248	EA	350 To 500 MCM Cable Termination 15 KV	1,606.80		378.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	226.92			
26 05 13 16-0249	EA	#2 To 3/0 AWG Cable Elbow Termination 15 KV	687.03		137.53	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.52			
26 05 13 16-0250 Stress Cones, 5-15 KV, 4 Skirted (26 05 13 16-0227)						
26 05 13 16-0251	EA	#4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	1,575.76		178.79	
26 05 13 16-0252	EA	2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	1,807.92		197.59	
26 05 13 16-0253	EA	4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	2,185.06		216.25	
26 05 13 16-0254	EA	400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	2,870.05		249.15	
26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted (26 05 13 16-0227)						
26 05 13 16-0256	EA	#4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	3,151.58		358.18	
26 05 13 16-0257	EA	2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	3,616.37		395.20	
26 05 13 16-0258	EA	4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	4,354.04		424.46	
26 05 13 16-0259	EA	400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	5,740.11		498.29	
26 05 13 16-0260 35 KV (26 05 13 16-0168)						
26 05 13 16-0261 35 KV One Conductor Splice (26 05 13 16-0260)						
26 05 13 16-0262	EA	#1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing	3,564.83			
26 05 13 16-0263 Cable Termination (26 05 13 16-0260)						
26 05 13 16-0264	EA	#2 To 3/0 AWG Cable Termination, 35 KV	989.36		165.17	
26 05 13 16-0265	EA	3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	1,304.68		249.20	
26 05 13 16-0266	EA	350 To 500 MCM Cable Termination 35 KV	1,559.33		266.53	
26 05 13 16-0267	EA	#2 To 3/0 AWG Cable Elbow Termination 35 KV	772.22		137.53	
26 05 13 16-0268 70 KV (26 05 13 16-0168)						
26 05 13 16-0269 Cable Splice (26 05 13 16-0268)						
26 05 13 16-0270	EA	350 MCM, 70 KV, Cable Splicing.....	27,318.04			
26 05 13 16-0271	EA	#2 To 4/0, 70 KV, Cable Splicing	3,778.88			
26 05 19 Low-Voltage Electrical Power Conductors and Cables (26 05)						
26 05 19 13 Undercarpet Electrical Power Cables (26 05 19)						
26 05 19 13-0001 Under Carpet Power System (26 05 19 13)						
		Note: Includes laying out, floor prep, taping, drill floor, folds, identifying, tagging and testing				
26 05 19 13-0002	LF	3-Conductor, #12 Flat Cable With Attached Bottom Shield	7.24		0.63	
26 05 19 13-0003	LF	Steel, Top Shield	12.22		0.63	
26 05 19 13-0004	EA	3-Conductor, Splice	40.70		10.68	
26 05 19 13-0005	EA	Splice Top Shield For 3 Conductor	11.64		5.02	
26 05 19 13-0006	EA	3-Conductor, Tap.....	50.79		12.57	
26 05 19 13-0007	EA	Insulating Patch, Splice Tap And End.....	79.70		10.68	
26 05 19 13-0008	EA	3-Conductor, Transition Block Assembly	52.04		6.28	
26 05 19 13-0009	EA	Single, Direct Connected, Receptacle With Box.....	156.89		20.10	
26 05 19 13-0010	EA	Dual, Direct Connected, Receptacle With Box.....	261.59		31.41	
26 05 19 13-0011	EA	Floor Mounted Box With Cover.....	261.02		25.13	
26 05 19 13-0012	LF	5-Conductor, #12 Cable With Attached Bottom Shield	11.55		0.63	
26 05 19 13-0013	LF	Steel, Top Shield For 5-Conductor Cable	11.46		0.63	
26 05 19 13-0014	EA	5-Conductor, Splice	41.25		10.68	
26 05 19 13-0015	EA	5-Conductor, Transition Block Assembly	68.97		6.28	
26 05 19 13-0016	EA	Box, Wall, Flush With Cover	116.38		25.13	
26 05 19 13-0017	EA	Telephone, Transition Fitting Wall Box.....	76.47		20.74	
26 05 19 13-0018	EA	RJ-45, Telephone Fitting With Duplex Jack And Cover	100.83		23.87	
26 05 19 13-0019	EA	Miniature Telephone With Duplex RJ-45	43.45		9.42	
26 05 19 13-0020	LF	4-Pair, Level 5, Under Carpet Telephone Wire	2.51		0.63	
26 05 19 13-0021	EA	BNC, Coax Plug, Connector	34.37		12.57	
26 05 19 13-0022	EA	TNC, Coax Plug, Connector	34.37		12.57	
26 05 19 13-0023	CLF	Under Carpet Power System; Flat RG A/U 59, 75 Ohm, RG A/U 62, 93 Ohm, RG A/U 58, 50 Ohm	180.90		62.83	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)**26 05 19 16-0001 Cable Installation Methods (26 05 19 16)****26 05 19 16-0002 Pull Cord (26 05 19 16-0001)**

Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.

26 05 19 16-0003	LF	Pull String Installed To Remain In Place, In Existing Conduit.....	0.43	
26 05 19 16-0004	LF	Pull String Installed To Remain In Place, In New Conduits.....	0.23	
26 05 19 16-0005	LF	1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit.....	0.74	
26 05 19 16-0006	LF	1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.46	

26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)

Note: For installation under roads, driveways or other structures up to 20'.

26 05 19 16-0008	LF	Bore 1" To 4" Conduit Into Dirt Or Sand.....	3.74	
26 05 19 16-0009	LF	Bore 5" To 8" Conduit Into Dirt Or Sand.....	4.77	
26 05 19 16-0010	EA	Minimum Set-up Charge For Boring.....	523.99	

Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.

26 05 19 16-0011 Wire and Cable (26 05 19 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, splicing (#8 and lighter), identifying, tagging and testing. All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0058 for various conduit types.

26 05 19 16-0012 600 Volt Wire (26 05 19 16-0011)**26 05 19 16-0013 Single Solid Conductor, Copper (26 05 19 16-0012)**

26 05 19 16-0014	MLF	#14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	766.71	304.96
26 05 19 16-0015	MLF	#12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	961.83	358.74
26 05 19 16-0016	MLF	#10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,193.51	438.66
26 05 19 16-0017	MLF	#14 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	975.90	304.96
26 05 19 16-0018	MLF	#12 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,179.99	358.74
26 05 19 16-0019	MLF	#10 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,416.33	438.66

26 05 19 16-0020 Power Cable, Stranded Conductor, Copper (26 05 19 16-0012)**26 05 19 16-0021 Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Single Stranded Conductor, Power Cable (26 05 19 16-0020)**

26 05 19 16-0022	MLF	#16 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	802.67	251.31
26 05 19 16-0023	MLF	#14 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	946.75	301.57
26 05 19 16-0024	MLF	#12 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,168.68	351.84
26 05 19 16-0025	MLF	#10 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,443.14	402.10
26 05 19 16-0026	MLF	#8 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,929.13	502.61
26 05 19 16-0027	MLF	#6 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,619.89	603.14
26 05 19 16-0028	MLF	#4 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,599.65	753.93
26 05 19 16-0029	MLF	#3 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,265.78	854.45
26 05 19 16-0030	MLF	#2 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,061.27	954.98
26 05 19 16-0031	MLF	#1 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,297.57	1,055.50
26 05 19 16-0032	MLF	1/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,566.59	1,206.29
26 05 19 16-0033	MLF	2/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	9,080.05	1,357.08
26 05 19 16-0034	MLF	3/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	10,889.62	1,507.85
26 05 19 16-0035	MLF	4/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,076.40	1,658.64
26 05 19 16-0036	MLF	250 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,848.51	1,809.43
26 05 19 16-0037	MLF	300 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	16,454.46	1,960.22
26 05 19 16-0038	MLF	350 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	17,549.54	2,111.00
26 05 19 16-0039	MLF	400 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	19,648.39	2,261.79
26 05 19 16-0040	MLF	500 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	22,789.34	2,412.57



Electrical		26	26
Common Work Results for Electrical		26 05	
Low-Voltage Electrical Power Conductors and Cables		26 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0041 MLF 600 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	26,275.23	2,613.62
26 05 19 16-0042 MLF 750 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	40,132.55	2,915.19
26 05 19 16-0043 MLF 1,000 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	56,733.28	3,417.81
26 05 19 16-0044 Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Multi Stranded Conductor, Power Cable (26 05 19 16-0020)		
26 05 19 16-0045 MLF 2 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	1,893.50	603.02
26 05 19 16-0046 MLF 3 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,337.63	703.80
26 05 19 16-0047 MLF 4 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,907.56	854.45
26 05 19 16-0048 MLF 6 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,480.55	929.47
26 05 19 16-0049 MLF 7 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,799.75	979.98
26 05 19 16-0050 MLF 9 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,436.27	1,080.38
26 05 19 16-0051 MLF 10 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,007.97	1,126.12
26 05 19 16-0052 MLF 12 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,392.47	1,231.42
26 05 19 16-0053 MLF 14 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,967.08	1,307.07
26 05 19 16-0054 MLF 24 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	8,774.69	1,658.77
26 05 19 16-0055 MLF 37 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	13,291.62	2,462.83
26 05 19 16-0056 MLF 2 Conductors, #12 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,337.65	703.80
26 05 19 16-0057 MLF 3 Conductors, #12 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,003.55	854.45
26 05 19 16-0058 MLF 4 Conductors, #12 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,669.46	1,005.24
26 05 19 16-0059 MLF 2 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,136.63	904.33
26 05 19 16-0060 MLF 3 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,075.74	1,104.76
26 05 19 16-0061 MLF 4 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,270.55	1,407.59
26 05 19 16-0062 MLF 6 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	7,152.55	1,810.06
26 05 19 16-0063 MLF 9 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	9,721.51	2,312.17
26 05 19 16-0064 MLF 2 Conductors, #8 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,921.10	1,030.37
26 05 19 16-0065 MLF 3 Conductors, #8 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,033.47	1,206.29
26 05 19 16-0066 MLF 4 Conductors, #8 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	6,522.81	1,532.99
26 05 19 16-0067 MLF 2 Conductors, #6 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,114.25	1,156.03
26 05 19 16-0068 MLF 3 Conductors, #6 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	6,917.24	1,432.47
26 05 19 16-0069 MLF 4 Conductors, #6 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	8,864.87	1,766.70
26 05 19 16-0070 MLF 2 Conductors, #4 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	6,935.96	1,402.56
26 05 19 16-0071 MLF 3 Conductors, #4 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	9,155.12	1,604.24
26 05 19 16-0072 MLF 4 Conductors, #4 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	11,864.03	2,001.93
26 05 19 16-0073 MLF 2 Conductors, #2 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	9,618.63	1,708.40
26 05 19 16-0074 MLF 3 Conductors, #2 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	12,797.60	1,910.46
26 05 19 16-0075 MLF 4 Conductors, #2 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	16,978.05	2,513.09
26 05 19 16-0076 MLF 3 Conductors, #1 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	17,006.87	2,412.20
26 05 19 16-0077 MLF 4 Conductors, #1 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	22,171.36	3,014.46
26 05 19 16-0078 MLF 3 Conductors, 1/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	20,187.81	2,614.12
26 05 19 16-0079 MLF 3 Conductors, 2/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	24,598.20	3,014.46
26 05 19 16-0080 MLF 3 Conductors, 3/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	30,151.95	3,516.83
26 05 19 16-0081 MLF 4 Conductors, 3/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	39,783.92	4,521.69

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0082 MLF 3 Conductors, 4/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	36,850.41	4,024.35
26 05 19 16-0083 MLF 3 Conductors, 250 MCM, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	39,278.86	4,521.69
26 05 19 16-0084 MLF 3 Conductors, 350 MCM, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	49,381.53	5,026.20
26 05 19 16-0085 MLF 3 Conductors, 500 MCM, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	64,083.81	5,524.04
26 05 19 16-0086 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper		
(26 05 19 16-0012) Note: Direct bury.		
26 05 19 16-0087 MLF #14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,140.68	
26 05 19 16-0088 MLF #12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,343.19	
26 05 19 16-0089 MLF #10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,692.83	
26 05 19 16-0090 MLF #8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,233.41	
26 05 19 16-0091 MLF #6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,149.22	
26 05 19 16-0092 MLF #4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,157.70	
26 05 19 16-0093 MLF #2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,040.13	
26 05 19 16-0094 MLF #1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,542.07	
26 05 19 16-0095 MLF 1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,269.97	
26 05 19 16-0096 MLF 2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,254.41	
26 05 19 16-0097 MLF 3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,593.86	
26 05 19 16-0098 MLF 4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,365.76	
26 05 19 16-0099 MLF 250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,637.03	
26 05 19 16-0100 MLF 300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,961.08	
26 05 19 16-0101 MLF 350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,334.23	
26 05 19 16-0102 MLF 400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,115.37	
26 05 19 16-0103 MLF 500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	29,802.10	
26 05 19 16-0104 MLF 600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	35,236.54	
26 05 19 16-0105 MLF 750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	56,279.00	
26 05 19 16-0106 MLF #14 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	938.94	
26 05 19 16-0107 MLF #12 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,127.23	
26 05 19 16-0108 MLF #10 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,352.65	
26 05 19 16-0109 MLF #8 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,657.70	
26 05 19 16-0110 MLF #6 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,138.86	
26 05 19 16-0111 MLF #4 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,851.75	
26 05 19 16-0112 MLF #2 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,882.60	
26 05 19 16-0113 MLF #1 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,605.46	
26 05 19 16-0114 MLF 1/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,211.39	
26 05 19 16-0115 MLF 2/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,873.94	
26 05 19 16-0116 MLF 3/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,836.72	
26 05 19 16-0117 MLF 4/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,005.63	
26 05 19 16-0118 MLF 250 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,091.93	
26 05 19 16-0119 MLF 300 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,239.04	
26 05 19 16-0120 MLF 350 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,486.11	
26 05 19 16-0121 MLF 400 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,776.69	
26 05 19 16-0122 MLF 500 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,915.67	
26 05 19 16-0123 MLF 750 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,119.24	
26 05 19 16-0124 MLF #14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	799.07	
26 05 19 16-0125 MLF #12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	998.29	
26 05 19 16-0126 MLF #10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,246.67	
26 05 19 16-0127 MLF #8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,769.86	
26 05 19 16-0128 MLF #6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,438.66	
26 05 19 16-0129 MLF #4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,261.71	
26 05 19 16-0130 MLF #2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,698.44	
26 05 19 16-0131 MLF #1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,627.83	
26 05 19 16-0132 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,549.74	
26 05 19 16-0133 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,457.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0134 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,909.94	
26 05 19 16-0135 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,666.24	
26 05 19 16-0136 MLF 250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,572.43	
26 05 19 16-0137 MLF 300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,561.65	
26 05 19 16-0138 MLF 350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,705.41	
26 05 19 16-0139 MLF 400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	18,771.21	
26 05 19 16-0140 MLF 500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,406.11	
26 05 19 16-0141 MLF 600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	27,032.98	
26 05 19 16-0142 MLF 750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	43,302.63	
26 05 19 16-0143 MLF #2 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,002.38	
26 05 19 16-0144 MLF 1/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,108.03	
26 05 19 16-0145 MLF 2/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,216.83	
26 05 19 16-0146 MLF 3/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,751.69	
26 05 19 16-0147 MLF 4/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,177.76	
26 05 19 16-0148 MLF 250 MCM, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,271.63	
26 05 19 16-0149 MLF 350 MCM, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,058.12	
26 05 19 16-0150 MLF 400 MCM, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	23,991.17	
26 05 19 16-0151 MLF 500 MCM, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	27,417.28	
26 05 19 16-0152 600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0012)		
26 05 19 16-0153 ACTHH, Solid (26 05 19 16-0152)		
26 05 19 16-0154 MLF 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	2,959.98	825.16
26 05 19 16-0155 MLF 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,414.44	935.18
26 05 19 16-0156 MLF 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	3,909.94	990.19
26 05 19 16-0157 MLF 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,261.91	1,375.27
26 05 19 16-0158 MLF 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,563.87	1,540.02
26 05 19 16-0159 MLF 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	5,787.01	1,706.29
26 05 19 16-0160 MLF 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	7,576.94	1,871.05
26 05 19 16-0161 MLF 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,158.01	1,540.02
26 05 19 16-0162 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,400.29	1,706.29
26 05 19 16-0163 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,914.85	1,926.19
26 05 19 16-0164 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,997.43	2,090.13
26 05 19 16-0165 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	6,155.25	1,706.29
26 05 19 16-0166 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	6,742.79	1,926.19
26 05 19 16-0167 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	8,591.05	2,145.55
26 05 19 16-0168 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	11,161.42	2,311.40
26 05 19 16-0169 ACTHH, Stranded (26 05 19 16-0152)		
26 05 19 16-0170 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	7,853.29	1,981.62
26 05 19 16-0171 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	9,585.27	2,254.47
26 05 19 16-0172 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	9,273.32	2,200.43
26 05 19 16-0173 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	11,645.93	2,473.55
26 05 19 16-0174 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	14,759.25	2,750.53
26 05 19 16-0175 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	16,976.68	3,022.56
26 05 19 16-0176 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	19,463.06	3,298.02
26 05 19 16-0177 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	11,982.16	2,639.68
26 05 19 16-0178 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	14,523.54	2,913.64
26 05 19 16-0179 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	18,716.82	3,190.89
26 05 19 16-0180 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	20,513.99	3,464.15
26 05 19 16-0181 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	24,361.94	3,737.14
26 05 19 16-0182 HCFC, Solid (26 05 19 16-0152)		
26 05 19 16-0183 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	4,779.33	1,375.27
26 05 19 16-0184 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,230.65	1,545.25
26 05 19 16-0185 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	5,848.27	1,697.90
26 05 19 16-0186 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,800.85	1,545.25
26 05 19 16-0187 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	6,221.38	1,697.90
26 05 19 16-0188 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	8,153.51	1,937.06
26 05 19 16-0189 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	7,139.23	1,697.90
26 05 19 16-0190 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	7,795.57	1,937.06

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0191 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable	10,686.32	2,148.85
26 05 19 16-0192 MC, Solid Or Stranded, Galvanized Steel Armor (26 05 19 16-0152)		
26 05 19 16-0193 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	4,418.34	1,375.27
26 05 19 16-0194 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	4,929.17	1,545.25
26 05 19 16-0195 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,027.25	1,697.90
26 05 19 16-0196 MLF 2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	7,936.39	1,814.38
26 05 19 16-0197 MLF 2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	10,096.34	1,923.45
26 05 19 16-0198 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,130.80	1,545.25
26 05 19 16-0199 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,818.15	1,697.90
26 05 19 16-0200 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	7,534.69	1,937.06
26 05 19 16-0201 MLF 3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	10,065.93	2,090.13
26 05 19 16-0202 MLF 3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	11,893.77	2,254.47
26 05 19 16-0203 MLF 3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	14,955.70	2,421.29
26 05 19 16-0204 MLF 3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	21,180.64	2,585.09
26 05 19 16-0205 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,008.96	1,697.90
26 05 19 16-0206 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,889.09	1,937.06
26 05 19 16-0207 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	10,914.21	2,148.85
26 05 19 16-0208 MLF 4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	15,159.31	2,367.10
26 05 19 16-0209 MLF 4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	18,762.28	2,532.68
26 05 19 16-0210 MLF 4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	25,179.98	2,696.62
26 05 19 16-0211 MLF 4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	32,938.69	2,859.17
26 05 19 16-0212 MC, Solid Or Stranded, Aluminum Armor (26 05 19 16-0152)		
26 05 19 16-0213 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	4,374.95	1,375.27
26 05 19 16-0214 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	4,816.66	1,545.25
26 05 19 16-0215 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,927.74	1,697.90
26 05 19 16-0216 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,312.01	1,545.25
26 05 19 16-0217 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,718.19	1,697.90
26 05 19 16-0218 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	7,455.65	1,937.06
26 05 19 16-0219 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	6,870.46	1,697.90
26 05 19 16-0220 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	7,513.48	1,937.06
26 05 19 16-0221 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	10,914.21	2,148.85
26 05 19 16-0222 FPLP Solid TFN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0223 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,409.36	1,045.20
26 05 19 16-0224 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	5,003.94	1,210.24
26 05 19 16-0225 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	6,221.00	1,375.27
26 05 19 16-0226 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	7,140.83	1,540.30
26 05 19 16-0227 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,015.79	1,210.24
26 05 19 16-0228 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,936.69	1,375.27
26 05 19 16-0229 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	7,482.22	1,540.30
26 05 19 16-0230 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	8,518.36	1,705.33
26 05 19 16-0231 FPLP Solid THHN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0232 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable	5,567.29	1,375.27
26 05 19 16-0233 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable	6,937.28	1,540.30
26 05 19 16-0234 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable	9,279.76	1,705.33
26 05 19 16-0235 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable	10,774.68	1,870.36
26 05 19 16-0236 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable	7,051.44	1,540.30
26 05 19 16-0237 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable	8,654.05	1,705.33
26 05 19 16-0238 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0239 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,797.06	1,045.20
26 05 19 16-0240 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	7,706.23	1,540.30
26 05 19 16-0241 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	5,910.73	1,210.24
26 05 19 16-0242 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	6,989.95	1,375.27
26 05 19 16-0243 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	9,750.39	1,705.33
26 05 19 16-0244 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	6,921.78	1,430.28
26 05 19 16-0245 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	8,568.23	1,650.32
26 05 19 16-0246 Armored Cable Connectors (26 05 19 16-0152)		



Electrical		26
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Low-Voltage Electrical Power Conductors and Cables		26 05 19

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0247	EA	3/4" Armored Cable Connector..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.34 2.26 0.75 1.51 1.89 2.64 3.02 3.77 4.15 2.26	3.02
26 05 19 16-0248	EA	1" Armored Cable Connector..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.13 3.02 1.01 2.01 2.51 3.52 4.02 5.03 5.53 3.02	4.02
26 05 19 16-0249	EA	1-1/4" Armored Cable Connector..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.00 3.77 1.26 2.51 3.14 4.40 5.03 6.29 6.91 3.77	5.02
26 05 19 16-0250 600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0012)				
26 05 19 16-0251	MLF	#14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,066.60 46.90 109.43	201.42
26 05 19 16-0252	MLF	#12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,198.33 47.81 111.56	223.04
26 05 19 16-0253	MLF	#10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,470.59 69.80 162.87	278.82
26 05 19 16-0254	MLF	#8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,021.58 114.75 267.76	443.56
26 05 19 16-0255	MLF	#6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,793.41 192.83 449.94	532.27
26 05 19 16-0256	MLF	#4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,829.70 291.73 680.71	617.97
26 05 19 16-0257	MLF	#3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,371.27 335.27 782.30	707.31
26 05 19 16-0258	MLF	#2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,546.18 473.81 1,105.56	796.65
26 05 19 16-0259	MLF	#1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	6,906.73 640.20 1,493.79	887.25
26 05 19 16-0260	MLF	1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	8,346.13 799.56 1,865.65	1,000.97
26 05 19 16-0261	MLF	2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	10,093.13 1,005.07 2,345.16	1,110.03
26 05 19 16-0262	MLF	3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	12,142.67 1,255.95 2,930.56	1,239.20
26 05 19 16-0263	MLF	4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	13,708.57 1,434.29 3,346.69	1,377.80
26 05 19 16-0264	MLF	250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	14,586.42 1,509.43 3,522.00	1,511.12
26 05 19 16-0265	MLF	300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	17,261.11 1,854.09 4,326.20	1,661.16
26 05 19 16-0266	MLF	350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	19,276.39 2,099.83 4,899.61	1,761.05
26 05 19 16-0267	MLF	400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... For Ethylene-Propylene Rubber (EPR) Insulation, Add For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	21,626.49 2,395.80 5,590.21	1,968.26

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0268 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... <i>For Ethylene-Propylene Rubber (EPR) Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	24,760.18 2,809.31 6,555.06	2,189.03
26 05 19 16-0269 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... <i>For Ethylene-Propylene Rubber (EPR) Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	29,049.57 3,377.33 7,880.43	2,277.50
26 05 19 16-0270 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... <i>For Ethylene-Propylene Rubber (EPR) Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	47,495.98 6,031.20 14,072.80	2,365.83
26 05 19 16-0271 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... <i>For Ethylene-Propylene Rubber (EPR) Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	59,959.06 7,825.27 18,258.96	2,527.93
26 05 19 16-0272 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,896.77	452.10
26 05 19 16-0273 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,394.19	502.61
26 05 19 16-0274 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,014.71	603.65
26 05 19 16-0275 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,578.17	703.41
26 05 19 16-0276 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,434.95	753.18
26 05 19 16-0277 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	609.68	251.31
26 05 19 16-0278 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	760.06	276.44
26 05 19 16-0279 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	790.94	201.55
26 05 19 16-0280 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	986.65	240.25
26 05 19 16-0281 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,229.22	302.20
26 05 19 16-0282 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,739.43	398.32
26 05 19 16-0283 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,388.36	481.01
26 05 19 16-0284 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,184.18	568.46
26 05 19 16-0285 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,815.16	643.48
26 05 19 16-0286 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,576.43	720.63
26 05 19 16-0287 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,473.52	813.24
26 05 19 16-0288 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,369.48	890.51
26 05 19 16-0289 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,246.26	984.13
26 05 19 16-0290 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	8,841.23	1,040.93
26 05 19 16-0291 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	10,331.86	1,171.10
26 05 19 16-0292 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	12,165.21	1,245.87
26 05 19 16-0293 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	14,077.66	1,410.98
26 05 19 16-0294 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	16,137.31	1,561.51
26 05 19 16-0295 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	18,122.69	1,604.24
26 05 19 16-0296 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	21,602.43	1,697.22
26 05 19 16-0297 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	26,907.33	1,997.28
26 05 19 16-0298 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	41,563.69	2,365.83
26 05 19 16-0299 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	49,844.46	2,856.38
26 05 19 16-0300 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,107.89	603.65
26 05 19 16-0301 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,454.95	703.41
26 05 19 16-0302 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,003.21	804.82
26 05 19 16-0303 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,199.03	904.33
26 05 19 16-0304 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,890.95	1,005.24
26 05 19 16-0305 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,508.97	1,104.76

26 05 19 16-0306 600 Volt, Feeder Wire, Single Stranded Aluminum (26 05 19 16-0012)

26 05 19 16-0307 MLF #6 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,374.35	385.57
26 05 19 16-0308 MLF #4 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,626.76	448.33
26 05 19 16-0309 MLF #2 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,125.43	575.51
26 05 19 16-0310 MLF #1 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,612.27	642.66
26 05 19 16-0311 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,017.05	724.04
26 05 19 16-0312 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,424.08	799.15
26 05 19 16-0313 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,026.51	901.88
26 05 19 16-0314 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,456.34	995.01
26 05 19 16-0315 MLF 250 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,138.12	1,093.84
26 05 19 16-0316 MLF 300 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,293.72	1,189.54
26 05 19 16-0317 MLF 350 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,587.85	1,285.20
26 05 19 16-0318 MLF 400 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,519.38	1,429.49
26 05 19 16-0319 MLF 500 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,286.44	1,573.73
26 05 19 16-0320 MLF 600 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,097.15	1,833.22
26 05 19 16-0321 MLF 700 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,389.93	2,009.73
26 05 19 16-0322 MLF 750 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,640.94	2,084.23
26 05 19 16-0323 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	15,894.50	2,528.29
26 05 19 16-0324 MLF #8 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,602.35	446.20
26 05 19 16-0325 MLF #6 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	1,802.05	502.61
26 05 19 16-0326 MLF #4 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,218.22	618.34
26 05 19 16-0327 MLF #2 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	2,807.72	757.95
26 05 19 16-0328 MLF #1 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	3,567.38	892.28
26 05 19 16-0329 MLF 1/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,118.23	1,005.62
26 05 19 16-0330 MLF 2/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	4,688.03	1,116.95
26 05 19 16-0331 MLF 3/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	5,401.36	1,218.60



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0332 MLF 4/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,858.97	1,296.88
26 05 19 16-0333 MLF 250 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,663.52	1,387.61
26 05 19 16-0334 MLF 300 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,130.29	1,487.13
26 05 19 16-0335 MLF 350 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,501.54	1,606.50
26 05 19 16-0336 MLF 400 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,623.83	1,751.88
26 05 19 16-0337 MLF 500 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,810.54	2,010.48
26 05 19 16-0338 MLF 600 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	12,618.50	2,115.78
26 05 19 16-0339 MLF 700 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	14,037.13	2,230.62
26 05 19 16-0340 MLF 750 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	14,473.50	2,370.61
26 05 19 16-0341 MLF 1,000 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	21,030.14	3,322.32
26 05 19 16-0342 MLF #6 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,582.57	502.61
26 05 19 16-0343 MLF #4 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,964.57	618.22
26 05 19 16-0344 MLF #2 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,437.71	758.96
26 05 19 16-0345 MLF #1 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,991.13	887.25
26 05 19 16-0346 MLF 1/0 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,377.96	1,000.97
26 05 19 16-0347 MLF 2/0 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,799.77	1,110.03
26 05 19 16-0348 MLF 3/0 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,332.03	1,218.60
26 05 19 16-0349 MLF 4/0 AWG, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,695.38	1,296.88
26 05 19 16-0350 MLF 250 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,236.69	1,386.72
26 05 19 16-0351 MLF 300 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,144.38	1,489.01
26 05 19 16-0352 MLF 350 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,536.67	1,608.63
26 05 19 16-0353 MLF 400 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,201.52	1,747.86
26 05 19 16-0354 MLF 500 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,286.41	2,010.48
26 05 19 16-0355 MLF 600 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,280.64	2,110.12
26 05 19 16-0356 MLF 700 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,178.24	2,230.62
26 05 19 16-0357 MLF 750 MCM, Underground Service Entrance (USE), Cross-Linked Polyethylene (XLPE) Insulation, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,622.02	2,363.44
26 05 19 16-0358 Non-Metallic Sheathed Cable (26 05 19 16-0012)		
26 05 19 16-0359 Indoor Installation (26 05 19 16-0358)		
Note: For NM, NM-B, NMC-B and NMS-B.		
26 05 19 16-0360 MLF #14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,780.54	954.85
For Installation In Wood Stud Wall (Includes Drilling), Add	358.06	
26 05 19 16-0361 MLF #14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,800.61	1,156.03
For Installation In Wood Stud Wall (Includes Drilling), Add	433.53	
26 05 19 16-0362 MLF #14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	7,653.36	1,279.16
For Installation In Wood Stud Wall (Includes Drilling), Add	479.69	
26 05 19 16-0363 MLF #12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,981.30	1,085.66
For Installation In Wood Stud Wall (Includes Drilling), Add	386.39	
26 05 19 16-0364 MLF #12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	7,560.79	1,206.04
For Installation In Wood Stud Wall (Includes Drilling), Add	452.28	
26 05 19 16-0365 MLF #12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	10,397.61	1,347.02
For Installation In Wood Stud Wall (Includes Drilling), Add	505.13	
26 05 19 16-0366 MLF #10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,335.44	1,206.66
For Installation In Wood Stud Wall (Includes Drilling), Add	452.51	
26 05 19 16-0367 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	10,760.24	1,407.59
For Installation In Wood Stud Wall (Includes Drilling), Add	527.84	
26 05 19 16-0368 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	12,927.02	1,608.38
For Installation In Wood Stud Wall (Includes Drilling), Add	603.14	
26 05 19 16-0369 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	13,193.72	1,445.03
For Installation In Wood Stud Wall (Includes Drilling), Add	514.56	
26 05 19 16-0370 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	16,984.83	1,746.60
For Installation In Wood Stud Wall (Includes Drilling), Add	621.99	
26 05 19 16-0371 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	17,636.35	1,646.07
For Installation In Wood Stud Wall (Includes Drilling), Add	584.29	
26 05 19 16-0372 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	23,827.74	1,985.34
For Installation In Wood Stud Wall (Includes Drilling), Add	706.81	

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26 05 19 16-0373 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	58,349.32 777.49	2,186.39
26 05 19 16-0374 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	68,296.52 848.17	2,374.88
26 05 19 16-0375 Direct Burial Cable (26 05 19 16-0358) Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0376 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	2,809.49	
26 05 19 16-0377 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,649.35	
26 05 19 16-0378 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,555.27	
26 05 19 16-0379 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,510.14	
26 05 19 16-0380 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,841.99	
26 05 19 16-0381 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,444.15	
26 05 19 16-0382 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	5,818.01	
26 05 19 16-0383 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	7,414.82	
26 05 19 16-0384 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	7,300.27	
26 05 19 16-0385 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	9,541.36	
26 05 19 16-0386 SEU Cable Copper, 3 Conductor (26 05 19 16-0358)		
26 05 19 16-0387 MLF 12-12-12 Cable SEU Copper.....	3,768.84	1,210.65
26 05 19 16-0388 MLF 10-10-10 Cable SEU Copper.....	4,765.12	1,375.27
26 05 19 16-0389 MLF 8-8-8 Cable SEU Copper.....	5,971.15	1,540.02
26 05 19 16-0390 MLF 6-6-8 Cable SEU Copper.....	7,262.75	1,651.01
26 05 19 16-0391 MLF 6-6-6 Cable SEU Copper.....	7,830.00	1,706.29
26 05 19 16-0392 MLF 4-4-6 Cable SEU Copper.....	9,597.13	1,871.05
26 05 19 16-0393 MLF 4-4-4 Cable SEU Copper.....	10,363.60	1,926.19
26 05 19 16-0394 MLF 3-3-5 Cable SEU Copper.....	12,105.26	2,090.13
26 05 19 16-0395 MLF 3-3-3 Cable SEU Copper.....	12,862.84	2,200.43
26 05 19 16-0396 MLF 2-2-4 Cable SEU Copper.....	13,750.99	2,311.40
26 05 19 16-0397 MLF 2-2-2 Cable SEU Copper.....	14,714.51	2,421.29
26 05 19 16-0398 MLF 1-1-1 Cable SEU Copper.....	18,066.23	2,750.53
26 05 19 16-0399 MLF 1/0-1/0-1/0 Cable SEU Copper.....	21,549.35	3,083.62
26 05 19 16-0400 MLF 2/0-2/0-2/0 Cable SEU Copper.....	26,012.06	3,472.96
26 05 19 16-0401 MLF 3/0-3/0-3/0 Cable SEU Copper.....	31,377.77	3,863.12
26 05 19 16-0402 MLF 4/0-4/0-4/0 Cable SEU Copper.....	35,067.96	4,311.18
26 05 19 16-0403 SEU Cable Aluminum, 3 Conductor (26 05 19 16-0358)		
26 05 19 16-0404 MLF 8-8-8 Cable SEU Aluminum.....	4,808.05	1,545.25
26 05 19 16-0405 MLF 6-6-6 Cable SEU Aluminum.....	5,459.53	1,697.90
26 05 19 16-0406 MLF 4-4-6 Cable SEU Aluminum.....	6,115.04	1,858.53
26 05 19 16-0407 MLF 4-4-4 Cable SEU Aluminum.....	6,400.11	1,937.06
26 05 19 16-0408 MLF 2-2-4 Cable SEU Aluminum.....	7,648.98	2,292.16
26 05 19 16-0409 MLF 2-2-2 Cable SEU Aluminum.....	8,112.78	2,412.76
26 05 19 16-0410 MLF 1-1-1 Cable SEU Aluminum.....	9,696.28	2,750.53
26 05 19 16-0411 MLF 1/0-1/0-2 Cable SEU Aluminum.....	10,258.63	2,895.34
26 05 19 16-0412 MLF 1/0-1/0-1/0 Cable SEU Aluminum.....	12,315.94	3,056.11
26 05 19 16-0413 MLF 2/0-2/0-1 Cable SEU Aluminum.....	11,584.42	3,274.51
26 05 19 16-0414 MLF 2/0-2/0-2/0 Cable SEU Aluminum.....	12,230.88	3,438.16
26 05 19 16-0415 MLF 3/0-3/0-1/0 Cable SEU Aluminum.....	13,275.95	3,600.16
26 05 19 16-0416 MLF 3/0-3/0-3/0 Cable SEU Aluminum.....	14,192.73	3,820.21
26 05 19 16-0417 MLF 4/0-4/0-2/0 Cable SEU Aluminum.....	15,016.05	4,129.92
26 05 19 16-0418 MLF 4/0-4/0-4/0 Cable SEU Aluminum.....	15,837.91	4,297.70
26 05 19 16-0419 SER Cable Copper, 4 Conductor (26 05 19 16-0358)		
26 05 19 16-0420 MLF 6-6-6-6 Cable SER Copper.....	11,682.26	1,981.62
26 05 19 16-0421 MLF 4-4-4-6 Cable SER Copper.....	12,810.32	2,145.55
26 05 19 16-0422 MLF 3-3-3-5 Cable SER Copper.....	15,875.43	2,421.29
26 05 19 16-0423 MLF 2-2-2-4 Cable SER Copper.....	18,174.75	2,639.68
26 05 19 16-0424 MLF 1-1-1-3 Cable SER Copper.....	21,183.42	3,022.56
26 05 19 16-0425 MLF 1/0-1/0-1/0-2 Cable SER Copper.....	25,800.78	3,464.15
26 05 19 16-0426 MLF 2/0-2/0-2/0-1 Cable SER Copper.....	32,326.98	3,737.14
26 05 19 16-0427 MLF 3/0-3/0-3/0-1/0 Cable SER Copper.....	37,339.56	4,180.11
26 05 19 16-0428 SER Cable Aluminum, 4 Conductor (26 05 19 16-0358)		
26 05 19 16-0429 MLF 8-8-8-8 Cable SER Aluminum.....	5,962.94	1,849.59
26 05 19 16-0430 MLF 6-6-6-6 Cable SER Aluminum.....	6,488.60	1,981.62
26 05 19 16-0431 MLF 4-4-4-6 Cable SER Aluminum.....	7,237.37	2,145.55
26 05 19 16-0432 MLF 2-2-2-4 Cable SER Aluminum.....	9,094.48	2,639.68
26 05 19 16-0433 MLF 1-1-1-3 Cable SER Aluminum.....	10,894.00	3,022.56
26 05 19 16-0434 MLF 1/0-1/0-1/0-2 Cable SER Aluminum.....	12,324.76	3,464.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0435 MLF 2/0-2/0-2/0-1 Cable SER Aluminum.....	13,740.67	3,737.14
26 05 19 16-0436 MLF 3/0-3/0-3/0-1/0 Cable SER Aluminum.....	15,617.11	4,180.11
26 05 19 16-0437 MLF 4/0-4/0-4/0-2/0 Cable SER Aluminum.....	17,703.12	4,657.88
26 05 19 16-0438 Control Tray Cable, Low Voltage (26 05 19 16-0011)		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0439 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,415.66	609.55
For Work In Restricted Working Space, Add	304.78	
26 05 19 16-0440 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,650.37	681.86
For Work In Restricted Working Space, Add	340.93	
26 05 19 16-0441 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,755.06	681.81
For Work In Restricted Working Space, Add	340.93	
26 05 19 16-0442 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,196.23	855.18
For Work In Restricted Working Space, Add	427.59	
26 05 19 16-0443 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,793.32	1,042.12
For Work In Restricted Working Space, Add	521.06	
26 05 19 16-0444 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,223.38	1,145.97
For Work In Restricted Working Space, Add	572.99	
26 05 19 16-0445 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,883.36	1,302.11
For Work In Restricted Working Space, Add	651.06	
26 05 19 16-0446 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,955.84	1,591.54
For Work In Restricted Working Space, Add	795.77	
26 05 19 16-0447 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable.....	5,730.08	1,736.30
For Work In Restricted Working Space, Add	868.15	
26 05 19 16-0448 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable.....	7,000.73	1,790.58
For Work In Restricted Working Space, Add	895.29	
26 05 19 16-0449 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable.....	8,553.60	2,236.91
For Work In Restricted Working Space, Add	1,118.45	
26 05 19 16-0450 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable.....	10,315.10	2,614.25
For Work In Restricted Working Space, Add	1,307.12	
26 05 19 16-0451 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,568.99	642.10
For Work In Restricted Working Space, Add	320.80	
26 05 19 16-0452 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,838.68	717.74
For Work In Restricted Working Space, Add	358.87	
26 05 19 16-0453 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,150.48	826.31
For Work In Restricted Working Space, Add	413.15	
26 05 19 16-0454 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,463.98	900.19
For Work In Restricted Working Space, Add	450.10	
26 05 19 16-0455 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,148.85	1,096.97
For Work In Restricted Working Space, Add	548.48	
26 05 19 16-0456 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,652.27	1,206.29
For Work In Restricted Working Space, Add	603.14	
26 05 19 16-0457 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable.....	4,425.86	1,370.65
For Work In Restricted Working Space, Add	685.32	
26 05 19 16-0458 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable.....	5,671.12	1,675.23
For Work In Restricted Working Space, Add	837.62	
26 05 19 16-0459 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable.....	6,591.19	1,827.52
For Work In Restricted Working Space, Add	913.76	
26 05 19 16-0460 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable.....	8,161.90	1,884.82
For Work In Restricted Working Space, Add	942.41	
26 05 19 16-0461 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable.....	9,955.98	2,354.52
For Work In Restricted Working Space, Add	1,177.26	
26 05 19 16-0462 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable.....	12,033.92	2,751.84
For Work In Restricted Working Space, Add	1,375.92	
26 05 19 16-0463 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,723.82	670.24
For Work In Restricted Working Space, Add	335.12	
26 05 19 16-0464 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,101.24	753.93
For Work In Restricted Working Space, Add	376.97	
26 05 19 16-0465 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,483.17	861.74
For Work In Restricted Working Space, Add	430.87	
26 05 19 16-0466 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,831.69	928.09
For Work In Restricted Working Space, Add	464.04	
26 05 19 16-0467 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable.....	3,859.13	1,137.68
For Work In Restricted Working Space, Add	568.84	
26 05 19 16-0468 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable.....	4,497.86	1,256.55
For Work In Restricted Working Space, Add	628.40	
26 05 19 16-0469 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable.....	5,644.55	1,402.31
For Work In Restricted Working Space, Add	701.15	
26 05 19 16-0470 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable.....	6,741.85	1,674.98
For Work In Restricted Working Space, Add	837.62	
26 05 19 16-0471 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable.....	12,189.69	1,946.40
For Work In Restricted Working Space, Add	972.95	
26 05 19 16-0472 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable.....	10,313.08	2,275.61
For Work In Restricted Working Space, Add	1,138.06	
26 05 19 16-0473 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable.....	12,079.65	2,543.00
For Work In Restricted Working Space, Add	1,271.50	
26 05 19 16-0474 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable.....	14,635.10	2,971.99
For Work In Restricted Working Space, Add	1,486.00	
26 05 19 16-0475 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable.....	2,064.72	717.74
For Work In Restricted Working Space, Add	358.87	
26 05 19 16-0476 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable.....	2,524.74	794.14
For Work In Restricted Working Space, Add	396.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0477 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,117.14 456.88	913.77
26 05 19 16-0478 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,583.95 486.29	972.57
26 05 19 16-0479 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,835.45 579.77	1,159.55
26 05 19 16-0480 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,020.06 685.32	1,370.65
26 05 19 16-0481 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,431.16 773.15	1,546.31
26 05 19 16-0482 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,905.16 887.00	1,774.00
26 05 19 16-0483 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,608.39 1,005.37	2,010.73
26 05 19 16-0484 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	13,791.18 1,175.00	2,350.00
26 05 19 16-0485 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	15,947.50 1,373.28	2,746.57
26 05 19 16-0486 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	19,388.96 1,605.11	3,210.23
26 05 19 16-0487 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,553.32 376.97	753.93
26 05 19 16-0488 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,292.60 413.15	826.81
26 05 19 16-0489 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,069.06 471.21	942.41
26 05 19 16-0490 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,797.10 511.16	1,022.33
26 05 19 16-0491 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,588.13 641.60	1,283.19
26 05 19 16-0492 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,890.14 718.12	1,436.23
26 05 19 16-0493 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	9,192.64 837.62	1,675.23
26 05 19 16-0494 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,925.94 957.87	1,915.74
26 05 19 16-0495 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	13,053.18 1,085.66	2,171.32
26 05 19 16-0496 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	17,066.41 1,268.87	2,537.73
26 05 19 16-0497 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	19,724.13 1,482.98	2,965.96
26 05 19 16-0498 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	24,029.01 1,733.66	3,467.32
26 05 19 16-0499 ACSR (Aluminum Conductor Steel Reinforced) (26 05 19 16-0011) Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0500 ACSR Cable (26 05 19 16-0499)		
26 05 19 16-0501 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,978.85	614.15
26 05 19 16-0502 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	2,116.70	637.71
26 05 19 16-0503 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,312.70	662.25
26 05 19 16-0504 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	2,450.91	686.23
26 05 19 16-0505 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,783.71	709.51
26 05 19 16-0506 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,265.20	804.30
26 05 19 16-0507 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,808.98	896.96
26 05 19 16-0508 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	4,420.49	990.90
26 05 19 16-0509 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial)	5,068.51	1,273.42
26 05 19 16-0510 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	5,753.41	1,460.73
26 05 19 16-0511 All Aluminum Conductors (26 05 19 16-0499)		
26 05 19 16-0512 MLF 795.0 ACSR Conductor Aluminum	39,225.92	11,945.48
26 05 19 16-0513 Single Conductor Installed On Poles (26 05 19 16-0011)		
26 05 19 16-0514 Bare Stranded Conductor (26 05 19 16-0513)		
26 05 19 16-0515 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,557.21	520.36
26 05 19 16-0516 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,833.14	567.18
26 05 19 16-0517 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,110.56	614.58
26 05 19 16-0518 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,604.06	662.25
26 05 19 16-0519 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	3,185.55	710.08
26 05 19 16-0520 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,595.95	851.69
26 05 19 16-0521 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,288.09	946.06
26 05 19 16-0522 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	6,042.86	1,038.72
26 05 19 16-0523 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	8,136.86	1,231.99
26 05 19 16-0524 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	9,889.94	1,416.46
26 05 19 16-0525 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	10,597.90	1,605.34
26 05 19 16-0526 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	13,443.28	1,891.97
26 05 19 16-0527 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	13,740.17	1,991.59
26 05 19 16-0528 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	17,236.03	2,085.67



		Electrical	26
		Common Work Results for Electrical	26 05
		Low-Voltage Electrical Power Conductors and Cables	26 05 19

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0529	MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	19,074.59	2,171.24
26 05 19 16-0530	MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	22,291.38	2,263.90
26 05 19 16-0531 Insulated Stranded Conductor (26 05 19 16-0513)			
26 05 19 16-0532	MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,692.20	520.36
26 05 19 16-0533	MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,007.32	567.18
26 05 19 16-0534	MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,454.41	614.58
26 05 19 16-0535	MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,669.14	662.25
26 05 19 16-0536	MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,284.85	710.08
26 05 19 16-0537	MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,452.54	851.69
26 05 19 16-0538	MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,273.78	946.06
26 05 19 16-0539	MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,242.54	1,038.72
26 05 19 16-0540	MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	7,523.69	1,231.99
26 05 19 16-0541	MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	9,035.25	1,416.46
26 05 19 16-0542	MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	10,664.58	1,605.34
26 05 19 16-0543	MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	13,035.32	1,891.97
26 05 19 16-0544	MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	14,820.02	1,991.59
26 05 19 16-0545	MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	16,272.76	2,085.67
26 05 19 16-0546	MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	18,275.91	2,171.24
26 05 19 16-0547	MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	20,592.61	2,263.90
26 05 19 16-0548 Bare Solid Conductor (26 05 19 16-0513)			
26 05 19 16-0549	MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,557.21	520.36
26 05 19 16-0550	MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,110.56	614.58
26 05 19 16-0551	MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,604.06	662.25
26 05 19 16-0552	MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	3,144.52	710.08
26 05 19 16-0553 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)			
26 05 19 16-0554 Multi-Conductor Cords (26 05 19 16-0553)			
Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.			
26 05 19 16-0555 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0554)			
Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.			
26 05 19 16-0556 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0555)			
26 05 19 16-0557 #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)			
26 05 19 16-0558	LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.20	0.55
26 05 19 16-0559	LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.24	0.55
26 05 19 16-0560	LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.34	0.55
26 05 19 16-0561 #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)			
26 05 19 16-0562	LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.40	0.55
26 05 19 16-0563	LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.46	0.55
26 05 19 16-0564	LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.54	0.55
26 05 19 16-0565 #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)			
26 05 19 16-0566	LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.51	0.55
26 05 19 16-0567	LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.61	0.55
26 05 19 16-0568	LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.79	0.55
26 05 19 16-0569 #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)			
26 05 19 16-0570	LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.67	0.55
26 05 19 16-0571	LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.78	0.55
26 05 19 16-0572	LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.94	0.55
26 05 19 16-0573 #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)			
26 05 19 16-0574	LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.07	0.69
26 05 19 16-0575	LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.15	0.69
26 05 19 16-0576	LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.27	0.69
26 05 19 16-0577 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0555)			
26 05 19 16-0578 #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)			
26 05 19 16-0579	LF 2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.24	0.55

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0580 LF 3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.31	0.55
26 05 19 16-0581 LF 4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.40	0.55
26 05 19 16-0582 LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.23	0.74
26 05 19 16-0583 LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.39	0.76
26 05 19 16-0584 LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.52	0.78
26 05 19 16-0585 LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.73	0.80
26 05 19 16-0586 LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.08	0.84
26 05 19 16-0587 LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.44	0.86
26 05 19 16-0588 LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.36	0.89
26 05 19 16-0589 LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.44	0.91
26 05 19 16-0590 LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.55	0.93
26 05 19 16-0591 LF 20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.01	0.95
26 05 19 16-0592 LF 24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.15	0.97
26 05 19 16-0593 LF 30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.44	1.03
26 05 19 16-0594 #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0595 LF 2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.46	0.55
26 05 19 16-0596 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.52	0.55
26 05 19 16-0597 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.63	0.55
26 05 19 16-0598 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.30	0.74
26 05 19 16-0599 LF 6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.49	0.76
26 05 19 16-0600 LF 7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.68	0.78
26 05 19 16-0601 LF 8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.93	0.80
26 05 19 16-0602 LF 9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.04	0.82
26 05 19 16-0603 LF 10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.33	0.84
26 05 19 16-0604 LF 12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.80	0.86
26 05 19 16-0605 LF 14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.05	0.89
26 05 19 16-0606 LF 16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.50	0.91
26 05 19 16-0607 LF 18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.11	0.93
26 05 19 16-0608 LF 20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.67	0.95
26 05 19 16-0609 LF 24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.72	0.97
26 05 19 16-0610 LF 26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.34	0.99
26 05 19 16-0611 LF 30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.46	1.03
26 05 19 16-0612 #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0613 LF 2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.62	0.55
26 05 19 16-0614 LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.69	0.55
26 05 19 16-0615 LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.86	0.55
26 05 19 16-0616 LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.83	0.74
26 05 19 16-0617 LF 6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.29	0.76
26 05 19 16-0618 LF 7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.46	0.78
26 05 19 16-0619 LF 8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.84	0.80
26 05 19 16-0620 LF 9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.10	0.82
26 05 19 16-0621 LF 10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.53	0.84
26 05 19 16-0622 LF 12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.93	0.86
26 05 19 16-0623 LF 14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.40	0.89
26 05 19 16-0624 LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.37	0.91
26 05 19 16-0625 LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.10	0.95
26 05 19 16-0626 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.26	0.97
26 05 19 16-0627 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.70	1.03
26 05 19 16-0628 #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0629 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.79	0.55
26 05 19 16-0630 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.92	0.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0631 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.04	0.55
26 05 19 16-0632 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.16	0.74
26 05 19 16-0633 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.59	0.76
26 05 19 16-0634 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.03	0.78
26 05 19 16-0635 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.51	0.80
26 05 19 16-0636 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.85	0.82
26 05 19 16-0637 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.44	0.84
26 05 19 16-0638 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.12	0.86
26 05 19 16-0639 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.76	0.89
26 05 19 16-0640 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.39	0.91
26 05 19 16-0641 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.70	0.93
26 05 19 16-0642 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.80	0.95
26 05 19 16-0643 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.91	0.97
26 05 19 16-0644 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.04	0.99
26 05 19 16-0645 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.40	1.01
26 05 19 16-0646 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.81	1.03
26 05 19 16-0647 #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0648 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.04	0.69
26 05 19 16-0649 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.15	0.69
26 05 19 16-0650 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.26	0.69
26 05 19 16-0651 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.81	0.74
26 05 19 16-0652 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.27	0.76
26 05 19 16-0653 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.93	0.78
26 05 19 16-0654 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.25	0.84
26 05 19 16-0655 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.08	0.86
26 05 19 16-0656 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.89	0.91
26 05 19 16-0657 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.67	0.95
26 05 19 16-0658 #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0659 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.76	0.82
26 05 19 16-0660 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.05	0.96
26 05 19 16-0661 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.29	0.96
26 05 19 16-0662 #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0663 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.14	0.96
26 05 19 16-0664 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.18	1.10
26 05 19 16-0665 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.42	1.37
26 05 19 16-0666 #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0667 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	8.05	1.37
26 05 19 16-0668 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	8.78	1.51
26 05 19 16-0669 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.48	1.65
26 05 19 16-0670 #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0671 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	12.68	2.76
26 05 19 16-0672 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	16.08	3.44
26 05 19 16-0673 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.84	4.54
26 05 19 16-0674 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0555)		
26 05 19 16-0675 #18 AWG, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0674)		
26 05 19 16-0676 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.55	0.55
26 05 19 16-0677 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.65	0.55
26 05 19 16-0678 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.86	0.55

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
26 05 19 16-0679	#16 AWG, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0674)				
26 05 19 16-0680	LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.61		0.55	
26 05 19 16-0681	LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.78		0.55	
26 05 19 16-0682	LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.86		0.55	
26 05 19 16-0683	#14 AWG, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0674)				
26 05 19 16-0684	LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.03		0.55	
26 05 19 16-0685	LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.72		0.55	
26 05 19 16-0686	LF 4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	3.39		0.69	
26 05 19 16-0687	600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0555)				
26 05 19 16-0688	#18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)				
26 05 19 16-0689	LF 2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	1.98		0.55	
26 05 19 16-0690	LF 3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.27		0.55	
26 05 19 16-0691	LF 4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.57		0.55	
26 05 19 16-0692	#16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)				
26 05 19 16-0693	LF 2 Conductors, #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.08		0.55	
26 05 19 16-0694	LF 3 Conductors, #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.38		0.55	
26 05 19 16-0695	LF 4 Conductors, #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.84		0.55	
26 05 19 16-0696	LF 5 Conductors, #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.09		0.69	
26 05 19 16-0697	#14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)				
26 05 19 16-0698	LF 3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.45		0.55	
26 05 19 16-0699	LF 4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.83		0.55	
26 05 19 16-0700	LF 5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.15		0.69	
26 05 19 16-0701	#12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)				
26 05 19 16-0702	LF 3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.80		0.55	
26 05 19 16-0703	LF 4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.14		0.55	
26 05 19 16-0704	LF 5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.50		0.69	
26 05 19 16-0705	#10 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)				
26 05 19 16-0706	LF 3 Conductors, #10 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.19		0.69	
26 05 19 16-0707	LF 4 Conductors, #10 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.49		0.69	
26 05 19 16-0708	LF 5 Conductors, #10 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.82		0.69	
26 05 19 16-0709	Multi-Conductor Type SEOW Cord (26 05 19 16-0554) Note: Includes thermoplastic elastomeric (TPE) insulation.				
26 05 19 16-0710	600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0709)				
26 05 19 16-0711	#16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)				
26 05 19 16-0712	LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.62		0.55	



Electrical		26
Common Work Results for Electrical		26 05
Low-Voltage Electrical Power Conductors and Cables		26 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0713 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.74	0.55
26 05 19 16-0714 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.43	0.69
26 05 19 16-0715 #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)		
26 05 19 16-0716 LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.97	0.55
26 05 19 16-0717 LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.19	0.55
26 05 19 16-0718 LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.98	0.69
26 05 19 16-0719 #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)		
26 05 19 16-0720 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.33	0.55
26 05 19 16-0721 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.62	0.55
26 05 19 16-0722 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.21	0.69
26 05 19 16-0723 #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)		
26 05 19 16-0724 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.87	0.69
26 05 19 16-0725 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.21	0.69
26 05 19 16-0726 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.43	0.69
26 05 19 16-0727 Multi-Conductor Type W Cord (26 05 19 16-0554) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0728 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0727)		
26 05 19 16-0729 #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0728)		
26 05 19 16-0730 LF 3 Conductors, #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.05	0.82
26 05 19 16-0731 LF 4 Conductors, #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.32	0.96
26 05 19 16-0732 LF 5 Conductors, #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.02	0.96
26 05 19 16-0733 #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0728)		
26 05 19 16-0734 LF 3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.37	0.96
26 05 19 16-0735 LF 4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.19	1.10
26 05 19 16-0736 LF 5 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.42	1.37
26 05 19 16-0737 #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0728)		
26 05 19 16-0738 LF 3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.63	0.96
26 05 19 16-0739 LF 4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.65	1.10
26 05 19 16-0740 LF 5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.46	1.37
26 05 19 16-0741 Cord Grips, Cable Reels, Extension Cords, And Accessories (26 05 19 16-0553)		
26 05 19 16-0742 Cord Grips (26 05 19 16-0741)		
26 05 19 16-0743 EA Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	87.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.01	
26 05 19 16-0744 EA Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	87.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.01	
26 05 19 16-0745 Cable Reels (26 05 19 16-0741) Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0746 EA 30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	731.77	68.76
26 05 19 16-0747 EA 50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	2,008.54	68.76
26 05 19 16-0748 EA 50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,503.84	68.76
26 05 19 16-0749 Extension Cords For Cable Reel (26 05 19 16-0741)		
26 05 19 16-0750 EA 100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....	220.44	
26 05 19 16-0751 EA 100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	312.83	
26 05 19 16-0752 Plugs And Connector Bodies (26 05 19 16-0741) Note: Up to 277 volt		
26 05 19 16-0753 NEMA Twist-Lock Plugs (26 05 19 16-0752)		
26 05 19 16-0754 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	90.47	
26 05 19 16-0755 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	92.14	
26 05 19 16-0756 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	85.11	
26 05 19 16-0757 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	90.26	
26 05 19 16-0758 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	114.40	
26 05 19 16-0759 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	120.94	
26 05 19 16-0760 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	127.34	
26 05 19 16-0761 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	115.38	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0762 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK)	131.10	
26 05 19 16-0763 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761)	134.16	
26 05 19 16-0764 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK)	138.06	
26 05 19 16-0765 NEMA Twist-Lock Connector Bodies (26 05 19 16-0752)		
26 05 19 16-0766 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C)	95.20	
26 05 19 16-0767 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C)	101.11	
26 05 19 16-0768 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C)	88.66	
26 05 19 16-0769 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK)	115.38	
26 05 19 16-0770 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK)	132.63	
26 05 19 16-0771 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443)	140.98	
26 05 19 16-0772 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK)	169.09	
26 05 19 16-0773 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK)	161.99	
26 05 19 16-0774 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK)	197.20	
26 05 19 16-0775 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753)	206.52	
26 05 19 16-0776 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK)	196.36	
26 05 19 16-0777 Watertight Pin And Sleeve Plug (26 05 19 16-0752)		
26 05 19 16-0778 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W)	296.17	41.26
26 05 19 16-0779 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W)	299.27	41.26
26 05 19 16-0780 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W)	323.33	41.26
26 05 19 16-0781 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W)	324.33	45.39
26 05 19 16-0782 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W)	319.66	45.39
26 05 19 16-0783 EA 20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W)	321.05	45.39
26 05 19 16-0784 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W)	450.36	50.75
26 05 19 16-0785 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W)	438.74	50.75
26 05 19 16-0786 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W)	488.67	50.75
26 05 19 16-0787 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W)	480.79	55.70
26 05 19 16-0788 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W)	460.60	55.70
26 05 19 16-0789 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W)	474.49	55.70
26 05 19 16-0790 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W)	611.58	66.01
26 05 19 16-0791 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W)	622.65	66.01
26 05 19 16-0792 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W)	596.40	66.01
26 05 19 16-0793 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W)	679.00	73.44
26 05 19 16-0794 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W)	661.77	73.44
26 05 19 16-0795 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W)	669.22	73.44
26 05 19 16-0796 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W)	838.34	82.52
26 05 19 16-0797 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W)	881.10	82.52
26 05 19 16-0798 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W)	860.23	90.77
26 05 19 16-0799 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W)	845.62	90.77
26 05 19 16-0800 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W)	853.51	90.77
26 05 19 16-0801 Watertight Pin And Sleeve Connector (26 05 19 16-0752)		
26 05 19 16-0802 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W)	313.99	41.26
26 05 19 16-0803 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W)	316.14	41.26
26 05 19 16-0804 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W)	371.55	41.26
26 05 19 16-0805 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W)	369.23	45.39
26 05 19 16-0806 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W)	363.60	45.39
26 05 19 16-0807 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W)	368.69	45.39
26 05 19 16-0808 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W)	461.01	50.75
26 05 19 16-0809 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W)	460.89	50.75
26 05 19 16-0810 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W)	480.01	50.75
26 05 19 16-0811 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W)	475.60	55.70
26 05 19 16-0812 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W)	479.54	55.70
26 05 19 16-0813 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W)	475.38	55.70
26 05 19 16-0814 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W)	720.79	66.01
26 05 19 16-0815 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W)	697.39	66.01
26 05 19 16-0816 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W)	683.44	66.01
26 05 19 16-0817 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W)	744.00	73.44
26 05 19 16-0818 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W)	764.35	73.44
26 05 19 16-0819 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W)	765.84	73.44
26 05 19 16-0820 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W)	958.14	82.52
26 05 19 16-0821 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W)	984.98	82.52
26 05 19 16-0822 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W)	1,064.54	90.77
26 05 19 16-0823 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W)	1,027.67	90.77
26 05 19 16-0824 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W)	1,040.24	90.77
26 05 19 16-0825 Accessories (26 05 19 16-0741)		
26 05 19 16-0826 EA 1/2" Straight Steel Cord Connector	67.92	13.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 19 16-0827 EA 1/2" Straight Nylon Cord Connector	40.84	10.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.19	
26 05 19 16-0828 EA 1/2" 90 Degree Steel Cord Connector	77.82	17.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31	
26 05 19 16-0829 EA 1/2" 90 Degree Nylon Cord Connector	49.22	13.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0830	EA		1/2" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76.82 10.31	17.19
26 05 19 16-0831	EA		1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.49 12.38	20.63
26 05 19 16-0832	EA		1/2" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.44 8.25	13.76
26 05 19 16-0833	EA		1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.51 10.32	17.19
26 05 19 16-0834	EA		3/4" Straight Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.76 8.25	13.76
26 05 19 16-0835	EA		3/4" Straight Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.26 6.19	10.31
26 05 19 16-0836	EA		3/4" 90 Degree Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.71 10.31	17.19
26 05 19 16-0837	EA		3/4" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.66 8.25	13.76
26 05 19 16-0838	EA		3/4" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.68 12.38	20.63
26 05 19 16-0839	EA		3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.08 14.44	24.07
26 05 19 16-0840	EA		3/4" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.33 10.32	17.19
26 05 19 16-0841	EA		3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.43 12.38	20.63
26 05 19 16-0842	EA		1" Straight Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.02 8.25	13.76
26 05 19 16-0843	EA		1" Straight Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.39 6.19	10.31
26 05 19 16-0844	EA		1" 90 Degree Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.77 10.31	17.19
26 05 19 16-0845	EA		1" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.69 8.25	13.76
26 05 19 16-0846	EA		1" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.85 12.38	20.63
26 05 19 16-0847	EA		1" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.73 14.44	24.07
26 05 19 16-0848	EA		1" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.05 10.32	17.19
26 05 19 16-0849	EA		1" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.66 12.38	20.63

26 05 23 Control-Voltage Electrical Power Cables (26 05)

- 26 05 23 00-0001 Cable For HVAC System Controls (26 05 23)
- 26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volt (26 05 23 00-0001)
- Note: For surface or conduit installation.

26 05 23 00-0003	MLF	#20/2 Conductor, Low Volt Thermostat Cable	505.76	160.21
26 05 23 00-0004	MLF	#20/3 Conductor, Low Volt Thermostat Cable	567.95	168.76
26 05 23 00-0005	MLF	#20/4 Conductor, Low Volt Thermostat Cable	612.54	178.43
26 05 23 00-0006	MLF	#20/5 Conductor, Low Volt Thermostat Cable	714.23	185.97
26 05 23 00-0007	MLF	#20/6 Conductor, Low Volt Thermostat Cable	746.80	194.77
26 05 23 00-0008	MLF	#20/7 Conductor, Low Volt Thermostat Cable	815.79	202.87
26 05 23 00-0009	MLF	#20/8 Conductor, Low Volt Thermostat Cable	876.61	210.97
26 05 23 00-0010	MLF	#20/9 Conductor, Low Volt Thermostat Cable	945.24	219.39
26 05 23 00-0011	MLF	#20/10 Conductor, Low Volt Thermostat Cable	1,010.16	225.98
26 05 23 00-0012	MLF	#18/2 Conductor, Low Volt Thermostat Cable	540.00	160.21
26 05 23 00-0013	MLF	#18/3 Conductor, Low Volt Thermostat Cable	629.03	168.76
26 05 23 00-0014	MLF	#18/4 Conductor, Low Volt Thermostat Cable	709.44	178.43
26 05 23 00-0015	MLF	#18/5 Conductor, Low Volt Thermostat Cable	754.23	185.97
26 05 23 00-0016	MLF	#18/6 Conductor, Low Volt Thermostat Cable	827.16	194.77
26 05 23 00-0017	MLF	#18/7 Conductor, Low Volt Thermostat Cable	852.69	202.87
26 05 23 00-0018	MLF	#18/8 Conductor, Low Volt Thermostat Cable	932.91	210.97
26 05 23 00-0019	MLF	#18/9 Conductor, Low Volt Thermostat Cable	1,080.34	219.39
26 05 23 00-0020	MLF	#18/10 Conductor, Low Volt Thermostat Cable	1,176.80	225.98

26 05 26 Grounding and Bonding for Electrical Systems (26 05)

- 26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)
- 26 05 26 00-0002 Single Conductor (26 05 26 00-0001)
- 26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0004	MLF	12 AWG Copper Bare Single Stranded Conductor	728.40	261.00
26 05 26 00-0005	MLF	10 AWG Copper Bare Single Stranded Conductor	974.84	261.00
26 05 26 00-0006	MLF	8 AWG Copper Bare Single Stranded Conductor	1,222.34	314.39
26 05 26 00-0007	MLF	6 AWG Copper Bare Single Stranded Conductor	1,705.83	314.39
26 05 26 00-0008	MLF	4 AWG Copper Bare Single Stranded Conductor	2,311.89	379.64
26 05 26 00-0009	MLF	2 AWG Copper Bare Single Stranded Conductor	3,674.75	379.64
26 05 26 00-0010	MLF	1 AWG Copper Bare Single Stranded Conductor	4,263.15	456.75
26 05 26 00-0011	MLF	1/0 AWG Copper Bare Single Stranded Conductor	5,004.17	456.75

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor	7,047.65	575.39
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor	8,706.30	575.39
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor	9,213.99	765.22
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor	11,870.47	765.22
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor	11,893.54	883.86
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor	16,089.15	883.86
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor	22,002.11	1,091.47
26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor	1,409.67	355.92
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor	1,488.27	355.92
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor	1,920.79	355.92
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor	2,167.42	616.91
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor	2,956.60	616.91
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor	4,210.12	616.91
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor	5,107.40	1,079.60
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor	6,249.98	1,079.60
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor	7,354.46	1,079.60
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor	8,795.22	1,079.60
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor	10,403.49	1,411.79
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor	12,624.51	1,411.79
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor	14,736.64	1,411.79
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor	17,179.73	2,194.80
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor	22,521.10	2,194.80
26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor	728.40	261.00
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor	974.84	261.00
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor	1,222.34	314.39
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor	1,705.83	314.39
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor	2,311.89	379.64
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor	3,674.75	379.64
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor	5,004.17	456.75
26 05 26 00-0043 MLF 2/0 AWG Copper Bare Single Solid Conductor	6,365.44	575.39
26 05 26 00-0044 MLF 3/0 AWG Copper Bare Single Solid Conductor	7,726.39	575.39
26 05 26 00-0045 MLF 4/0 AWG Copper Bare Single Solid Conductor	9,213.99	605.05
26 05 26 00-0046 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0047 MLF 8 AWG Aluminum Bare Single Stranded Conductor	917.51	314.39
26 05 26 00-0048 MLF 6 AWG Aluminum Bare Single Stranded Conductor	1,024.29	314.39
26 05 26 00-0049 MLF 4 AWG Aluminum Bare Single Stranded Conductor	1,190.91	379.64
26 05 26 00-0050 MLF 2 AWG Aluminum Bare Single Stranded Conductor	1,536.79	379.64
26 05 26 00-0051 MLF 1 AWG Aluminum Bare Single Stranded Conductor	1,823.87	456.75
26 05 26 00-0052 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor	2,089.90	456.75
26 05 26 00-0053 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor	2,399.85	575.39
26 05 26 00-0054 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor	2,791.16	575.39
26 05 26 00-0055 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor	3,310.25	765.22
26 05 26 00-0056 MLF 250 MCM Aluminum Bare Single Stranded Conductor	3,748.89	765.22
26 05 26 00-0057 MLF 300 MCM Aluminum Bare Single Stranded Conductor	4,576.37	883.86
26 05 26 00-0058 MLF 350 MCM Aluminum Bare Single Stranded Conductor	5,271.72	883.86
26 05 26 00-0059 MLF 500 MCM Aluminum Bare Single Stranded Conductor	6,177.28	1,091.47
26 05 26 00-0060 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0061 MLF 8 AWG Aluminum Bare Single Solid Conductor	917.51	314.39
26 05 26 00-0062 MLF 6 AWG Aluminum Bare Single Solid Conductor	1,024.29	314.39
26 05 26 00-0063 MLF 4 AWG Aluminum Bare Single Solid Conductor	1,190.91	379.64
26 05 26 00-0064 MLF 2 AWG Aluminum Bare Single Solid Conductor	1,536.79	379.64
26 05 26 00-0065 MLF 1 AWG Aluminum Bare Single Solid Conductor	1,775.98	605.05
26 05 26 00-0066 MLF 1/0 AWG Aluminum Bare Single Solid Conductor	2,089.90	605.05
26 05 26 00-0067 MLF 2/0 AWG Aluminum Bare Single Solid Conductor	2,281.25	575.39
26 05 26 00-0068 MLF 3/0 AWG Aluminum Bare Single Solid Conductor	2,552.34	575.39
26 05 26 00-0069 MLF 4/0 AWG Aluminum Bare Single Solid Conductor	3,310.25	765.22
26 05 26 00-0070 MLF 250 MCM Aluminum Bare Single Solid Conductor	3,748.89	765.22
26 05 26 00-0071 MLF 300 MCM Aluminum Bare Single Solid Conductor	4,576.37	883.86
26 05 26 00-0072 MLF 350 MCM Aluminum Bare Single Solid Conductor	5,271.72	883.86
26 05 26 00-0073 MLF 500 MCM Aluminum Bare Single Solid Conductor	6,177.28	1,091.47
26 05 26 00-0074 Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0075 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.24	0.95
26 05 26 00-0076 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.58	1.04
26 05 26 00-0077 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.25	1.19
26 05 26 00-0078 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.28	1.22
26 05 26 00-0079 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.49	1.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0080 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001) Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0081 EA 100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	163.39 20.63	34.38
26 05 26 00-0082 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	283.60 24.75	41.26
26 05 26 00-0083 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	364.11 24.75	41.26
26 05 26 00-0084 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	443.52 24.75	41.26
26 05 26 00-0085 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	382.18 30.94	44.70
26 05 26 00-0086 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	498.00 30.94	44.70
26 05 26 00-0087 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	598.64 30.94	44.70
26 05 26 00-0088 EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	498.44 34.04	56.73
26 05 26 00-0089 EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	599.36 41.26	68.76
26 05 26 00-0090 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)		
26 05 26 00-0091 EA 1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	215.47 42.98	75.64
26 05 26 00-0092 EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	265.47 52.89	75.64
26 05 26 00-0093 EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	391.48 62.51	116.90
26 05 26 00-0094 EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	581.41 76.40	116.90
26 05 26 00-0095 Ground Rods (26 05 26)		
26 05 26 00-0096 Copper-Clad Ground Rods (26 05 26 00-0095)		
26 05 26 00-0097 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods 26 05 26 00-0098 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods 26 05 26 00-0099 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods 26 05 26 00-0100 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods 26 05 26 00-0101 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods 26 05 26 00-0102 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods	112.50 116.63 133.30 132.04 137.21 158.04	103.14 103.14 103.14 103.14 103.14 103.14
26 05 26 00-0103 Ground Access Wells (26 05 26 00-0095)		
26 05 26 00-0104 Precast Ground Access Wells (26 05 26 00-0103)		
26 05 26 00-0105 EA 8" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	301.23	
26 05 26 00-0106 EA 10" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	312.12	
26 05 26 00-0107 EA 12" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	912.66	
26 05 26 00-0108 EA 18" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	923.55	
26 05 26 00-0109 Polyvinyl Chloride (PVC) Ground Access Well (26 05 26 00-0103)		
26 05 26 00-0110 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	595.49	
26 05 26 00-0111 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	725.60	
26 05 26 00-0112 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	1,598.18	
26 05 26 00-0113 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	451.12	
26 05 26 00-0114 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	546.05	
26 05 26 00-0115 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	1,429.54	
26 05 26 00-0116 EA 8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	258.84	
26 05 26 00-0117 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	356.49	
26 05 26 00-0118 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	424.73	
26 05 26 00-0119 EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	210.32	
26 05 26 00-0120 EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	328.58	
26 05 26 00-0121 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	492.34	
26 05 26 00-0122 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	679.76	

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0123	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	471.71	
26 05 26 00-0124	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	507.49	
26 05 26 00-0125	EA	10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	910.91	
26 05 26 00-0126	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	1,150.48	
26 05 26 00-0127	EA	12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	505.71	
26 05 26 00-0128	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	690.42	
26 05 26 00-0129	EA	12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	682.22	
26 05 26 00-0130		Polymer Concrete Ground Access Well (26 05 26 00-0103)		
26 05 26 00-0131	EA	12" x 12" x 12" Polymer Concrete Ground Access Well	575.26	
26 05 26 00-0132	EA	12" x 12" x 12" Heavy-Duty Polymer Concrete Ground Access Well	631.33	
26 05 26 00-0133	EA	12" x 12" x 18" Polymer Concrete Ground Access Well	634.05	
26 05 26 00-0134	EA	12" x 12" x 18" Heavy-Duty Polymer Concrete Ground Access Well	695.73	
26 05 26 00-0135	EA	12" x 12" x 24" Polymer Concrete Ground Access Well	695.09	
26 05 26 00-0136	EA	12" x 12" x 24" Heavy-Duty Polymer Concrete Ground Access Well	762.95	
26 05 26 00-0137	EA	13" x 24" x 18" Polymer Concrete Ground Access Well	928.33	
26 05 26 00-0138	EA	13" x 24" x 18" Heavy-Duty Polymer Concrete Ground Access Well	1,020.88	
26 05 26 00-0139		High-Density Polyethylene (HDPE) Ground Access Well (26 05 26 00-0103)		
26 05 26 00-0140	EA	9" Diameter x 10" Deep High-Density Polyethylene (HDPE) Ground Access Well Note: With cover.	208.29	
26 05 26 00-0141	EA	14" Diameter x 18" Deep High-Density Polyethylene (HDPE) Ground Access Well Note: With cover.	290.67	
26 05 26 00-0142		Clay Tile Ground Access Wells (26 05 26 00-0103)		
26 05 26 00-0143	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Concrete Cover	329.42	
26 05 26 00-0144	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Cast Iron Grated Cover	346.60	
26 05 26 00-0145	EA	Concrete Cover For 8" Diameter x 24" Deep Clay Tile Ground Access Well	105.68	
26 05 26 00-0146		Copper Grounding Shaft (26 05 26 00-0095)		
26 05 26 00-0147	EA	2-1/8" Diameter x 10' Long Copper Grounding Shaft	372.95	103.14
26 05 26 00-0148	EA	2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft	462.84	103.14
26 05 26 00-0149	EA	2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft	712.02	103.14
26 05 26 00-0150		Ground Rod Clamps And Fittings (26 05 26)		
26 05 26 00-0151		Bronze Ground Rod Clamp (26 05 26 00-0150)		
26 05 26 00-0152	EA	1/2" Bronze Ground Rod Clamp	26.48	15.54
26 05 26 00-0153	EA	5/8" Bronze Ground Rod Clamp	27.52	15.54
26 05 26 00-0154	EA	3/4" Bronze Ground Rod Clamp	29.00	15.54
26 05 26 00-0155		Bronze Pipe Clamps (26 05 26 00-0150)		
26 05 26 00-0156	EA	1/2" To 1" Diameter, Bronze Pipe Ground Clamps	35.55	25.85
26 05 26 00-0157	EA	1-1/4" To 2" Diameter, Bronze Ground Clamps For Pipe	43.84	30.94
26 05 26 00-0158	EA	2-1/2" To 3" Diameter, Bronze Ground Clamps For Pipe	57.87	36.17
26 05 26 00-0159	EA	2-1/2" To 4" Diameter, Bronze Ground Clamps For Pipe	72.46	46.48
26 05 26 00-0160	EA	4" To 6" Diameter, Bronze Ground Clamps For Pipe	107.95	67.11
26 05 26 00-0161		Grounding Fittings (26 05 26 00-0150)		
26 05 26 00-0162		Embedded Fittings (26 05 26 00-0161)		
26 05 26 00-0163	EA	Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	178.02	
26 05 26 00-0164	EA	Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	187.45	
26 05 26 00-0165	EA	Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded	204.19	
26 05 26 00-0166	EA	#8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice	180.10	
26 05 26 00-0167	EA	1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice	215.85	
26 05 26 00-0168	EA	4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice	252.97	
26 05 26 00-0169	EA	350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice	284.56	
26 05 26 00-0170		Ground Rod Receptacle (26 05 26 00-0161)		
26 05 26 00-0171	EA	1/2" Ground Rod Receptacle	382.29	143.03
26 05 26 00-0172	EA	5/8" Ground Rod Receptacle	398.58	147.06
26 05 26 00-0173	EA	3/4" Ground Rod Receptacle	415.30	151.05
26 05 26 00-0174		Ground Kits For Circuit Breaker Panels (26 05 26 00-0161)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0175 EA 14-8 AWG Copper Ground Kit.....	86.53	34.38
26 05 26 00-0176 EA 12-8 AWG Aluminum Ground Kit.....	77.40	34.38
26 05 26 00-0177 EA 14-4 AWG Copper Ground Kit.....	94.46	34.38
26 05 26 00-0178 EA 12-4 AWG Aluminum Ground Kit.....	83.45	34.38
26 05 26 00-0179 Insulated Grounding Bars (26 05 26 00-0150)		
26 05 26 00-0180 EA 1/2" x 4" x 10" Insulated Ground Bar.....	345.82	34.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.88	
26 05 26 00-0181 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20".....	361.14	34.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.88	
26 05 26 00-0182 Ground Conductor Bonding (26 05 26)		
26 05 26 00-0183 Ground Conductor Bonding (26 05 26 00-0182)		
26 05 26 00-0184 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld (26 05 26 00-0183)		
26 05 26 00-0185 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	158.52	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0186 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	172.27	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0187 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	186.02	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0188 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	268.53	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0189 Tee, Wye Or Cross Cadweld (26 05 26 00-0183)		
26 05 26 00-0190 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross.....	179.15	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0191 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross.....	206.64	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0192 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross.....	254.79	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0193 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross.....	309.79	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0194 Grounding Equipment (26 05 26)		
26 05 26 00-0195 Special Grounding Equipment (26 05 26 00-0194)		
26 05 26 00-0196 Ground Reels And Ground Bus (26 05 26 00-0195)		
26 05 26 00-0197 EA Ground Reel With 50' Of Galvanized Steel Cable.....	753.15	
26 05 26 00-0198 Copper Bars (26 05 26 00-0195)		
26 05 26 00-0199 LF 1/4" x 2" Copper Bar.....	44.46	
26 05 26 00-0200 Phenolic Insulators (26 05 26 00-0195)		
26 05 26 00-0201 EA 2" x 2" x 1" Long Phenolic Insulators.....	34.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 26 00-0202 Grounding Studs (26 05 26 00-0195)		
26 05 26 00-0203 EA Ball Grounding Stud.....	50.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	
26 05 26 00-0204 Equipment Ground Bar Kits (26 05 26 00-0195)		
26 05 26 00-0205 EA Switch Rating 30 Ground Bar Kit.....	38.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 26 00-0206 EA Switch Rating 60 Ground Bar Kit.....	47.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.08	
26 05 26 00-0207 EA Switch Rating 100 Ground Bar Kit.....	55.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31	
26 05 26 00-0208 EA Switch Rating 200 Ground Bar Kit.....	92.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.38	
26 05 26 00-0209 Panelboard Ground Bar Kits (26 05 26 00-0195)		
26 05 26 00-0210 EA Panelboard Ground Bar Kit.....	129.52	10.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31	
26 05 26 00-0211 Circuit Breaker Ground Bar Kits (26 05 26 00-0195)		
26 05 26 00-0212 EA 3 Circuit, Ground Bar Kit.....	31.29	6.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.19	
26 05 26 00-0213 EA 4 Circuit, Ground Bar Kit.....	30.80	6.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.19	

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0214 EA 7 Circuit, Ground Bar Kit.....	31.62	6.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.19	
26 05 26 00-0215 EA 12 Circuit, Ground Bar Kit.....	35.85	7.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.01	
26 05 26 00-0216 EA 20 Circuit, Ground Bar Kit.....	40.73	7.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.84	
26 05 26 00-0217 EA 24 Circuit, Ground Bar Kit.....	44.96	8.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.66	
26 05 26 00-0218 EA 30 Circuit, Ground Bar Kit.....	50.39	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.90	
26 05 26 00-0219 EA 54 Circuit, Ground Bar Kit.....	58.36	11.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.55	
26 05 26 00-0220 EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	61.52	8.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.66	
26 05 26 00-0221 EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	68.27	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.90	
26 05 26 00-0222 EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	76.40	11.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.55	

26 05 29 Hangers and Supports for Electrical Systems (26 05)

26 05 29 00-0001 Metal Framing Channel And Fittings (26 05 29)
See CSI section 05 43 00 00-0001 for additional unistrut fittings.

26 05 29 00-0002 Metal Framing Channel (26 05 29 00-0001)
Note: Excludes fasteners and accessories.

26 05 29 00-0003 Steel Unistrut Channel (26 05 29 00-0002)

26 05 29 00-0004 EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel.....	22.13	7.54
For Galvanizing, Add	0.98	
For Powder Coating, Add	0.87	
26 05 29 00-0005 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel.....	31.68	10.05
For Galvanizing, Add	1.97	
For Powder Coating, Add	1.74	
26 05 29 00-0006 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel.....	41.24	11.94
For Galvanizing, Add	2.95	
For Powder Coating, Add	2.61	
26 05 29 00-0007 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel.....	50.81	13.82
For Galvanizing, Add	3.94	
For Powder Coating, Add	3.48	
26 05 29 00-0008 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel.....	11.46	2.84
For Galvanizing, Add	0.98	
For Powder Coating, Add	0.87	
26 05 29 00-0009 EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	23.91	7.54
For Galvanizing, Add	1.29	
For Powder Coating, Add	1.14	
26 05 29 00-0010 EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	35.24	10.05
For Galvanizing, Add	2.57	
For Powder Coating, Add	2.27	
26 05 29 00-0011 EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	46.57	11.94
For Galvanizing, Add	3.86	
For Powder Coating, Add	3.41	
26 05 29 00-0012 EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	57.91	13.82
For Galvanizing, Add	5.15	
For Powder Coating, Add	4.54	
26 05 29 00-0013 LF >4' Cut Lengths x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	13.24	2.84
For Galvanizing, Add	1.29	
For Powder Coating, Add	1.14	
26 05 29 00-0014 EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	25.75	7.54
For Galvanizing, Add	1.60	
For Powder Coating, Add	1.41	
26 05 29 00-0015 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	38.92	10.05
For Galvanizing, Add	3.20	
For Powder Coating, Add	2.82	
26 05 29 00-0016 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	52.11	11.94
For Galvanizing, Add	4.80	
For Powder Coating, Add	4.24	
26 05 29 00-0017 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	65.29	13.82
For Galvanizing, Add	6.40	
For Powder Coating, Add	5.65	
26 05 29 00-0018 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	15.08	2.84
For Galvanizing, Add	1.60	
For Powder Coating, Add	1.41	
26 05 29 00-0019 EA Up To 1' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	25.13	7.54
For Galvanizing, Add	1.49	
For Powder Coating, Add	1.32	
26 05 29 00-0020 EA >1' To 2' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	37.67	10.05
For Galvanizing, Add	2.99	
For Powder Coating, Add	2.64	
26 05 29 00-0021 EA >2' To 3' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	50.23	11.94
For Galvanizing, Add	4.48	
For Powder Coating, Add	3.95	
26 05 29 00-0022 EA >3' To 4' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	62.79	13.82
For Galvanizing, Add	5.98	
For Powder Coating, Add	5.27	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0023	LF		>4' Cut Lengths x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel <i>For Galvanizing, Add</i> <i>For Powder Coating, Add</i>	14.46 1.49 1.32	2.84
26 05 29 00-0024	EA		Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel <i>For Galvanizing, Add</i> <i>For Powder Coating, Add</i>	24.72 1.42 1.26	7.54
26 05 29 00-0025	EA		>1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel <i>For Galvanizing, Add</i> <i>For Powder Coating, Add</i>	36.86 2.85 2.51	10.05
26 05 29 00-0026	EA		>2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel <i>For Galvanizing, Add</i> <i>For Powder Coating, Add</i>	49.02 4.28 3.77	11.94
26 05 29 00-0027	EA		>3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel <i>For Galvanizing, Add</i> <i>For Powder Coating, Add</i>	61.17 5.70 5.03	13.82
26 05 29 00-0028	LF		>4' Cut Lengths x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel <i>For Galvanizing, Add</i> <i>For Powder Coating, Add</i>	14.05 1.42 1.26	2.84
26 05 29 00-0029			Stainless Steel Unistrut Channel (26 05 29 00-0002)		
26 05 29 00-0030			304 Stainless Steel Unistrut Channel (26 05 29 00-0029)		
26 05 29 00-0031	EA		Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0032 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0033 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0034 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0035 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0036 EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0037 EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0038 EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0039 EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0040 LF >4' Cut Lengths x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0041 EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0042 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0043 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0044 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0045 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0046 EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0047 EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0048 EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0049 EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0050 LF >4' Cut Lengths x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0051 316 Stainless Steel Unistrut Channel (26 05 29 00-0029) 26 05 29 00-0052 EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel 26 05 29 00-0053 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel 26 05 29 00-0054 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel 26 05 29 00-0055 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel 26 05 29 00-0056 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel 26 05 29 00-0057 Aluminum Unistrut Channel (26 05 29 00-0002) 26 05 29 00-0058 EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel 26 05 29 00-0059 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel 26 05 29 00-0060 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel 26 05 29 00-0061 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel 26 05 29 00-0062 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel 26 05 29 00-0063 EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel 26 05 29 00-0064 EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel 26 05 29 00-0065 EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel 26 05 29 00-0066 EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel 26 05 29 00-0067 LF >4' Cut lengths x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel 26 05 29 00-0068 Metal Framing Channel Fittings (26 05 29 00-0001) 26 05 29 00-0069 Unistrut Channel Closure Strips And Caps (26 05 29 00-0068) 26 05 29 00-0070 Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0069) 26 05 29 00-0071 LF Steel Raceway Closure Strip, Unistrut Channel Fittings 26 05 29 00-0072 EA Steel End Cap, Unistrut Channel Fittings 26 05 29 00-0073 Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0069) 26 05 29 00-0074 EA Stainless Steel End Cap For Unistrut Channel 26 05 29 00-0075 Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0068) 26 05 29 00-0076 Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0075)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0077	EA	2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	8.90		
26 05 29 00-0078	EA	3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	8.84		
26 05 29 00-0079	EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	10.88		
26 05 29 00-0080		Stainless Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0075)			
26 05 29 00-0081	EA	2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	16.13		
26 05 29 00-0082	EA	3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	23.66		
26 05 29 00-0083	EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	30.04		
26 05 29 00-0084		90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)			
26 05 29 00-0085		Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0084)			
26 05 29 00-0086	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting	8.60		
26 05 29 00-0087	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting	7.10		
26 05 29 00-0088	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	12.67		
26 05 29 00-0089	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	12.49		
26 05 29 00-0090		Stainless Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0084)			
26 05 29 00-0091	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	9.52		
26 05 29 00-0092	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	11.74		
26 05 29 00-0093	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	10.06		
26 05 29 00-0094	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	14.00		
26 05 29 00-0095	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	12.85		
26 05 29 00-0096	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	23.14		
26 05 29 00-0097	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	13.48		
26 05 29 00-0098	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	19.24		
26 05 29 00-0099		60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)			
26 05 29 00-0100		Steel 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0099)			
26 05 29 00-0101	EA	2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting	18.36		
26 05 29 00-0102		U-Connector, Unistrut Channel Fittings (26 05 29 00-0068)			
26 05 29 00-0103		Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0102)			
26 05 29 00-0104	EA	3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting	6.13		
26 05 29 00-0105	EA	5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting	6.90		
26 05 29 00-0106		Stainless Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0102)			
26 05 29 00-0107	EA	5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting.....	19.11		
26 05 29 00-0108		Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0068)			
26 05 29 00-0109		Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0108)			
26 05 29 00-0110	EA	3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting	18.86		
26 05 29 00-0111		Stainless Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0108)			
26 05 29 00-0112	EA	3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting.....	36.52		
26 05 29 00-0113		Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0068)			
Note: Includes hex screw and nut.					
26 05 29 00-0114		Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0113)			
Note: Includes hex screw and nut.					
26 05 29 00-0115	EA	1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	6.32	2.07	
26 05 29 00-0116	EA	3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	6.35	2.07	
26 05 29 00-0117	EA	1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	6.53	2.07	
26 05 29 00-0118	EA	1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	8.15	2.76	
26 05 29 00-0119	EA	1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.04	2.76	
26 05 29 00-0120	EA	2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.13	2.76	
26 05 29 00-0121	EA	2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	11.14	3.44	
26 05 29 00-0122	EA	3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	11.93	3.44	
26 05 29 00-0123	EA	3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	12.69	3.44	
26 05 29 00-0124	EA	4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	12.97	3.44	
26 05 29 00-0125		304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0113)			
Note: Includes hex screw and nut.					
26 05 29 00-0126	EA	1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.17	2.07	
26 05 29 00-0127	EA	3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.01	2.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0128 EA 1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.85	2.07
26 05 29 00-0129 EA 1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	12.34	2.76
26 05 29 00-0130 EA 1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	14.67	2.76
26 05 29 00-0131 EA 2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	15.29	2.76
26 05 29 00-0132 EA 2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	18.41	3.44
26 05 29 00-0133 EA 3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.49	3.44
26 05 29 00-0134 EA 3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	21.38	3.44
26 05 29 00-0135 EA 4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	24.67	3.44
26 05 29 00-0136 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0113) Note: Includes hex screw and nut.		
26 05 29 00-0137 EA 1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.69	2.07
26 05 29 00-0138 EA 3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.87	2.07
26 05 29 00-0139 EA 1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.21	2.07
26 05 29 00-0140 EA 1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	12.50	2.76
26 05 29 00-0141 EA 1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	16.59	2.76
26 05 29 00-0142 EA 2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.79	2.76
26 05 29 00-0143 EA 2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	19.98	3.44
26 05 29 00-0144 EA 3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	21.04	3.44
26 05 29 00-0145 EA 3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	28.56	3.44
26 05 29 00-0146 EA 4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	33.16	3.44
26 05 29 00-0147 Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0148 Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0147)		
26 05 29 00-0149 EA Set Screw Beam Clamp, Steel Unistrut Channel Fitting	48.13	12.57
26 05 29 00-0150 EA "C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings	30.42	12.57
26 05 29 00-0151 EA "U" Bolt Beam Clamp, Steel Unistrut Channel Fitting	46.34	12.57
26 05 29 00-0152 304 Stainless Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0147)		
26 05 29 00-0153 EA "U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting.....	50.04	12.57
26 05 29 00-0154 Square Washers For Unistrut Channel (26 05 29 00-0068)		
26 05 29 00-0155 Steel Square Washers For Unistrut Channel (26 05 29 00-0154)		
26 05 29 00-0156 EA 1/2" Bolt Size, Steel, Square Washer For Unistrut Channel	6.21	
26 05 29 00-0157 Stainless Steel Square Washers For Unistrut Channel (26 05 29 00-0154)		
26 05 29 00-0158 EA 1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel	4.96	
26 05 29 00-0159 EA 1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel	6.10	
26 05 29 00-0160 Strut Braces, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0161 EA 16" Diagonal Steel Bar Brace For Unistrut Channel	52.78	
26 05 29 00-0162 Trolley Hangers, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0163 EA Steel Trolley Track Hanger For Unistrut Channel	65.32	
26 05 29 00-0164 Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0068) Note: Includes hex bolt.		
26 05 29 00-0165 Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0164) Note: Includes hex bolt.		
26 05 29 00-0166 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	9.93	
26 05 29 00-0167 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel	11.01	
26 05 29 00-0168 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	11.82	
26 05 29 00-0169 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	16.20	
26 05 29 00-0170 Stainless Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0164) Note: Includes hex bolt.		
26 05 29 00-0171 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	13.96	
26 05 29 00-0172 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	14.97	
26 05 29 00-0173 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	20.81	
26 05 29 00-0174 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	32.94	
26 05 29 00-0175 Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0068) Note: Includes hex bolt.		
26 05 29 00-0176 Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0175) Note: Includes hex bolt.		
26 05 29 00-0177 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	9.96	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0178	EA		3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	11.16	
26 05 29 00-0179	EA		1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	11.88	
26 05 29 00-0180	EA		5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	17.46	
26 05 29 00-0181			Stainless Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0175)		
			Note: Includes hex bolt.		
26 05 29 00-0182	EA		1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	10.51	
26 05 29 00-0183	EA		3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	12.54	
26 05 29 00-0184	EA		1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	13.94	
26 05 29 00-0185	EA		5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	32.13	
26 05 29 00-0186			Mounting Assemblies (26 05 29)		
26 05 29 00-0187			Galvanized Steel Mounting Assemblies (26 05 29 00-0186)		
26 05 29 00-0188			Galvanized Steel Back Plate (26 05 29 00-0187)		
26 05 29 00-0189	EA		1/4" x 4' x 4", Galvanized Steel Back Plate, Painted	589.48	82.52
26 05 29 00-0190	EA		3/8" x 14" x 16", Galvanized Steel Back Plate, Painted	145.20	27.50
26 05 29 00-0191	EA		3/16" x 30" x 48", Galvanized Steel Back Plate, Painted	367.69	68.76
26 05 29 00-0192			Aluminum Mounting Assemblies (26 05 29 00-0186)		
26 05 29 00-0193			Aluminum Back Plate (26 05 29 00-0192)		
26 05 29 00-0194	EA		3/16" x 2' x 2' Aluminum Back Plate.....	509.05	103.14
26 05 29 00-0195	EA		3/16" x 4' x 4' Aluminum Back Plate.....	1,459.47	103.14
26 05 29 00-0196			Supports (26 05 29)		
26 05 29 00-0197			One Hole Steel Conduit Straps (26 05 29 00-0196)		
26 05 29 00-0198	EA		1/2", One Hole Steel Conduit Strap	5.02	
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.93	
			For >500, Deduct	-1.38	
26 05 29 00-0199	EA		3/4", One Hole Steel Conduit Strap	5.08	
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.93	
			For >500, Deduct	-1.39	
26 05 29 00-0200	EA		1", One Hole Steel Conduit Strap	5.41	
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.96	
			For >500, Deduct	-1.42	
26 05 29 00-0201	EA		1-1/4", One Hole Steel Conduit Strap	5.66	
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.97	
			For >500, Deduct	-1.45	
26 05 29 00-0202	EA		1-1/2", One Hole Steel Conduit Strap	5.83	
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-0.99	
			For >500, Deduct	-1.46	
26 05 29 00-0203	EA		2", One Hole Steel Conduit Strap	6.83	
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-1.06	
			For >500, Deduct	-1.56	
26 05 29 00-0204	EA		2-1/2", One Hole Steel Conduit Strap	7.86	
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.14	
			For >500, Deduct	-1.67	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0205	EA		3", One Hole Steel Conduit Strap 8.20		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.63	
			For >250 To 500, Deduct	-1.17	
			For >500, Deduct	-1.70	
26 05 29 00-0206	EA		3-1/2", One Hole Steel Conduit Strap 9.89		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.29	
			For >500, Deduct	-1.87	
26 05 29 00-0207	EA		4", One Hole Steel Conduit Strap 11.24		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.39	
			For >500, Deduct	-2.00	
26 05 29 00-0208			One Hole Iron Conduit Straps (26 05 29 00-0196)		
26 05 29 00-0209	EA		1/2", One Hole Iron Conduit Strap 5.18		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.94	
			For >500, Deduct	-1.40	
26 05 29 00-0210	EA		3/4", One Hole Iron Conduit Strap 5.34		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.95	
			For >500, Deduct	-1.41	
26 05 29 00-0211	EA		1", One Hole Iron Conduit Strap 5.63		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.97	
			For >500, Deduct	-1.44	
26 05 29 00-0212	EA		1-1/4", One Hole Iron Conduit Strap 6.34		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.03	
			For >500, Deduct	-1.51	
26 05 29 00-0213	EA		1-1/2", One Hole Iron Conduit Strap 6.62		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-1.05	
			For >500, Deduct	-1.54	
26 05 29 00-0214	EA		2", One Hole Iron Conduit Strap 8.40		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-1.18	
			For >500, Deduct	-1.72	
26 05 29 00-0215	EA		2-1/2", One Hole Iron Conduit Strap 12.22		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.83	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-2.10	
26 05 29 00-0216	EA		3", One Hole Iron Conduit Strap 15.41		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.50	
			For >100 To 250, Deduct	-0.99	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.42	
26 05 29 00-0217	EA		3-1/2", One Hole Iron Conduit Strap 20.07		
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.61	
			For >100 To 250, Deduct	-1.22	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.89	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0218	EA		4", One Hole Iron Conduit Strap	38.73	
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-1.08	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-3.45	
			For >500, Deduct	-4.75	
26 05 29 00-0219	EA		5", One Hole Iron Conduit Strap	48.76	
			For Work In Restricted Working Space, Add	1.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-1.33	
			For >100 To 250, Deduct	-2.66	
			For >250 To 500, Deduct	-4.21	
			For >500, Deduct	-5.76	
26 05 29 00-0220 Two Hole Steel Conduit Straps (26 05 29 00-0196)					
26 05 29 00-0221	EA		1/2", Two Hole Steel Conduit Strap	5.79	
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.44	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.05	
			For >500, Deduct	-1.57	
26 05 29 00-0222	EA		3/4", Two Hole Steel Conduit Strap	5.90	
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.44	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.06	
			For >500, Deduct	-1.58	
26 05 29 00-0223	EA		1", Two Hole Steel Conduit Strap	5.96	
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.44	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-1.07	
			For >500, Deduct	-1.59	
26 05 29 00-0224	EA		1-1/4", Two Hole Steel Conduit Strap	6.04	
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.44	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-1.07	
			For >500, Deduct	-1.59	
26 05 29 00-0225	EA		1-1/2", Two Hole Steel Conduit Strap	6.09	
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.44	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-1.08	
			For >500, Deduct	-1.60	
26 05 29 00-0226	EA		2", Two Hole Steel Conduit Strap	6.23	
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.44	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-1.09	
			For >500, Deduct	-1.61	
26 05 29 00-0227	EA		2-1/2", Two Hole Steel Conduit Strap	7.00	
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.44	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.60	
			For >250 To 500, Deduct	-1.14	
			For >500, Deduct	-1.69	
26 05 29 00-0228	EA		3", Two Hole Steel Conduit Strap	7.16	
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.44	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.16	
			For >500, Deduct	-1.71	
26 05 29 00-0229	EA		3-1/2", Two Hole Steel Conduit Strap	7.77	
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.44	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-1.20	
			For >500, Deduct	-1.77	
26 05 29 00-0230	EA		4", Two Hole Steel Conduit Strap	8.18	
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.44	
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.66	
			For >250 To 500, Deduct	-1.23	
			For >500, Deduct	-1.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0231	EA		5", Two Hole Steel Conduit Strap 8.73		
			For Work In Restricted Working Space, Add	1.49	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.44	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.27	
			For >500, Deduct	-1.86	
26 05 29 00-0232			Clamp Back Spacers (26 05 29 00-0196)		
26 05 29 00-0233	EA		1/2" Conduit, Clamp Back Spacer 4.79		
			For Work In Restricted Working Space, Add	1.03	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.79	
			For >500, Deduct	-1.17	
26 05 29 00-0234	EA		3/4" Conduit, Clamp Back Spacer 5.27		
			For Work In Restricted Working Space, Add	1.03	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.22	
26 05 29 00-0235	EA		1" Conduit, Clamp Back Spacer 5.71		
			For Work In Restricted Working Space, Add	1.03	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.86	
			For >500, Deduct	-1.26	
26 05 29 00-0236	EA		1-1/4" Conduit, Clamp Back Spacer 7.43		
			For Work In Restricted Working Space, Add	1.03	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-0.99	
			For >500, Deduct	-1.43	
26 05 29 00-0237	EA		1-1/2" Conduit, Clamp Back Spacer 8.82		
			For Work In Restricted Working Space, Add	1.03	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.09	
			For >500, Deduct	-1.57	
26 05 29 00-0238	EA		2" Conduit, Clamp Back Spacer 10.27		
			For Work In Restricted Working Space, Add	1.03	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.20	
			For >500, Deduct	-1.72	
26 05 29 00-0239	EA		2-1/2" Conduit, Clamp Back Spacer 16.19		
			For Work In Restricted Working Space, Add	1.03	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
			For >50 To 100, Deduct	-0.49	
			For >100 To 250, Deduct	-0.98	
			For >250 To 500, Deduct	-1.64	
			For >500, Deduct	-2.31	
26 05 29 00-0240	EA		3" Conduit, Clamp Back Spacer 23.25		
			For Work In Restricted Working Space, Add	1.03	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
			For >50 To 100, Deduct	-0.67	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-3.01	
26 05 29 00-0241	EA		3-1/2" Conduit, Clamp Back Spacer 30.11		
			For Work In Restricted Working Space, Add	1.03	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
			For >50 To 100, Deduct	-0.84	
			For >100 To 250, Deduct	-1.68	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.70	
26 05 29 00-0242	EA		4" Conduit, Clamp Back Spacer 62.33		
			For Work In Restricted Working Space, Add	1.03	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
			For >50 To 100, Deduct	-1.64	
			For >100 To 250, Deduct	-3.29	
			For >250 To 500, Deduct	-5.10	
			For >500, Deduct	-6.92	
26 05 29 00-0243	EA		5" Conduit, Clamp Back Spacer 116.73		
			For Work In Restricted Working Space, Add	1.03	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.96	
			For >50 To 100, Deduct	-3.00	
			For >100 To 250, Deduct	-6.01	
			For >250 To 500, Deduct	-9.18	
			For >500, Deduct	-12.36	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
26 05 29 00-0244 Conduit Clips (26 05 29 00-0196)					
Note: Push in or clip.					
26 05 29 00-0245	EA	1/2" Conduit Clip.....	5.63		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.20		
		For >50 To 100, Deduct	-0.25		
		For >100 To 250, Deduct	-0.50		
		For >250 To 500, Deduct	-0.97		
		For >500, Deduct	-1.44		
26 05 29 00-0246	EA	3/4" Conduit Clip.....	5.63		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.20		
		For >50 To 100, Deduct	-0.25		
		For >100 To 250, Deduct	-0.50		
		For >250 To 500, Deduct	-0.97		
		For >500, Deduct	-1.44		
26 05 29 00-0247	EA	1" Conduit Clip.....	5.53		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.20		
		For >50 To 100, Deduct	-0.25		
		For >100 To 250, Deduct	-0.50		
		For >250 To 500, Deduct	-0.96		
		For >500, Deduct	-1.43		
26 05 29 00-0248	EA	1-1/4" Conduit Clip.....	5.77		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.20		
		For >50 To 100, Deduct	-0.25		
		For >100 To 250, Deduct	-0.51		
		For >250 To 500, Deduct	-0.98		
		For >500, Deduct	-1.46		
26 05 29 00-0249 Bolt And Nut Conduit Clips (26 05 29 00-0196)					
26 05 29 00-0250	EA	3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	6.99		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.48		
		For >50 To 100, Deduct	-0.31		
		For >100 To 250, Deduct	-0.62		
		For >250 To 500, Deduct	-1.21		
		For >500, Deduct	-1.80		
26 05 29 00-0251	EA	1" Bolt And Nut Conduit Clip (Minerallac 2B).....	7.23		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.48		
		For >50 To 100, Deduct	-0.32		
		For >100 To 250, Deduct	-0.64		
		For >250 To 500, Deduct	-1.23		
		For >500, Deduct	-1.82		
26 05 29 00-0252	EA	1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	7.70		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.56		
		For >50 To 100, Deduct	-0.34		
		For >100 To 250, Deduct	-0.68		
		For >250 To 500, Deduct	-1.31		
		For >500, Deduct	-1.94		
26 05 29 00-0253	EA	1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	7.84		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.56		
		For >50 To 100, Deduct	-0.34		
		For >100 To 250, Deduct	-0.68		
		For >250 To 500, Deduct	-1.32		
		For >500, Deduct	-1.95		
26 05 29 00-0254	EA	2" Bolt And Nut Conduit Clip (Minerallac 5B).....	8.75		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.56		
		For >50 To 100, Deduct	-0.36		
		For >100 To 250, Deduct	-0.73		
		For >250 To 500, Deduct	-1.39		
		For >500, Deduct	-2.04		
26 05 29 00-0255	EA	2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	9.48		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.65		
		For >50 To 100, Deduct	-0.39		
		For >100 To 250, Deduct	-0.78		
		For >250 To 500, Deduct	-1.48		
		For >500, Deduct	-2.19		
26 05 29 00-0256	EA	3" Bolt And Nut Conduit Clip (Minerallac 7B).....	10.29		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.65		
		For >50 To 100, Deduct	-0.41		
		For >100 To 250, Deduct	-0.82		
		For >250 To 500, Deduct	-1.55		
		For >500, Deduct	-2.27		
26 05 29 00-0257	EA	4" Bolt And Nut Conduit Clip (Minerallac 9B).....	18.57		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.82		
		For >50 To 100, Deduct	-0.64		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-2.25		
		For >500, Deduct	-3.23		

26 05 29 00-0258 Conduit Hanger From Flange, Wire Or Rod (26 05 29 00-0196)

Note: Bat wing.



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0259	EA	1/2", Conduit Hanger From Flange, Wire Or Rod <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	4.07 0.93 -0.18 -0.37 -0.72 -1.07	
26 05 29 00-0260	EA	3/4", Conduit Hanger From Flange, Wire Or Rod <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	4.13 0.93 -0.19 -0.37 -0.72 -1.07	
26 05 29 00-0261	EA	1", Conduit Hanger From Flange, Wire Or Rod <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	4.32 0.93 -0.19 -0.38 -0.74 -1.09	
26 05 29 00-0262	EA	1-1/4", Conduit Hanger From Flange, Wire Or Rod <i>For Installation On Concrete (Includes Drilling And Fastener), Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	4.77 0.93 -0.20 -0.40 -0.77 -1.14	
26 05 29 00-0263		Beam Flange Clamps (26 05 29 00-0196) Note: For threaded rod, nut not required.		
26 05 29 00-0264	EA	1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	5.99 -0.24 -0.47 -0.88 -1.29	
26 05 29 00-0265	EA	5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	5.87 -0.23 -0.47 -0.87 -1.28	
26 05 29 00-0266	EA	9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	6.58 -0.25 -0.50 -0.92 -1.35	
26 05 29 00-0267		T-Bar Support Clips (26 05 29 00-0196)		
26 05 29 00-0268	EA	9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.96 -0.42 -0.84 -1.61 -2.37	
26 05 29 00-0269	EA	15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.42 -0.41 -0.81 -1.57 -2.32	
26 05 29 00-0270	EA	15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	3.62 -0.13 -0.27 -0.49 -0.71	
26 05 29 00-0271	EA	24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	30.04 -0.82 -1.64 -2.60 -3.56	
26 05 29 00-0272		Switch And Outlet Box Type Supports (26 05 29 00-0196)		
26 05 29 00-0273	EA	1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.42 -0.25 -0.51 -0.90 -1.29	
26 05 29 00-0274	EA	1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	6.27 -0.23 -0.45 -0.82 -1.18	
26 05 29 00-0275	EA	Flush, Riveted Switch And Outlet Box Support (Caddy MFO) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.26 -0.25 -0.50 -0.89 -1.28	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0276	EA	Snap On, Switch And Outlet Box Support (Caddy MSF)	4.63	
		For >50 To 100, Deduct	-0.18	
		For >100 To 250, Deduct	-0.37	
		For >250 To 500, Deduct	-0.69	
		For >500, Deduct	-1.02	
26 05 29 00-0277	EA	1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI)	4.84	
		For >50 To 100, Deduct	-0.19	
		For >100 To 250, Deduct	-0.38	
		For >250 To 500, Deduct	-0.71	
		For >500, Deduct	-1.04	
26 05 29 00-0278 Lighting Fixture Hanger (26 05 29 00-0196)				
Note: For existing or owner furnished fixtures.				
26 05 29 00-0279	EA	Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515)	6.62	
		For >50 To 100, Deduct	-0.30	
		For >100 To 250, Deduct	-0.61	
		For >250 To 500, Deduct	-1.18	
		For >500, Deduct	-1.76	
26 05 29 00-0280	PR	Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517)	23.64	
		For >50 To 100, Deduct	-0.73	
		For >100 To 250, Deduct	-1.46	
		For >250 To 500, Deduct	-2.46	
		For >500, Deduct	-3.46	
26 05 29 00-0281	PR	Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520)	32.59	
		For >50 To 100, Deduct	-0.95	
		For >100 To 250, Deduct	-1.90	
		For >250 To 500, Deduct	-3.13	
		For >500, Deduct	-4.36	
26 05 29 00-0282 Rigid Steel Conduit Clamps For Unistrut Channel (26 05 29 00-0196)				
26 05 29 00-0283	EA	1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.32	
		For >50 To 100, Deduct	-0.26	
		For >100 To 250, Deduct	-0.52	
		For >250 To 500, Deduct	-0.99	
		For >500, Deduct	-1.46	
		For Work In Restricted Working Space, Add	1.24	
26 05 29 00-0284	EA	3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.35	
		For >50 To 100, Deduct	-0.26	
		For >100 To 250, Deduct	-0.52	
		For >250 To 500, Deduct	-0.99	
		For >500, Deduct	-1.46	
		For Work In Restricted Working Space, Add	1.24	
26 05 29 00-0285	EA	1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.53	
		For >50 To 100, Deduct	-0.27	
		For >100 To 250, Deduct	-0.53	
		For >250 To 500, Deduct	-1.01	
		For >500, Deduct	-1.48	
		For Work In Restricted Working Space, Add	1.24	
26 05 29 00-0286	EA	1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	8.14	
		For >50 To 100, Deduct	-0.34	
		For >100 To 250, Deduct	-0.68	
		For >250 To 500, Deduct	-1.30	
		For >500, Deduct	-1.91	
		For Work In Restricted Working Space, Add	1.65	
26 05 29 00-0287	EA	1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	9.03	
		For >50 To 100, Deduct	-0.36	
		For >100 To 250, Deduct	-0.73	
		For >250 To 500, Deduct	-1.36	
		For >500, Deduct	-2.00	
		For Work In Restricted Working Space, Add	1.65	
26 05 29 00-0288	EA	2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	9.12	
		For >50 To 100, Deduct	-0.37	
		For >100 To 250, Deduct	-0.73	
		For >250 To 500, Deduct	-1.37	
		For >500, Deduct	-2.01	
		For Work In Restricted Working Space, Add	1.65	
26 05 29 00-0289	EA	2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	11.13	
		For >50 To 100, Deduct	-0.45	
		For >100 To 250, Deduct	-0.90	
		For >250 To 500, Deduct	-1.69	
		For >500, Deduct	-2.49	
		For Work In Restricted Working Space, Add	2.06	
26 05 29 00-0290	EA	3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	11.92	
		For >50 To 100, Deduct	-0.47	
		For >100 To 250, Deduct	-0.94	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.57	
		For Work In Restricted Working Space, Add	2.06	
26 05 29 00-0291	EA	3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	12.68	
		For >50 To 100, Deduct	-0.49	
		For >100 To 250, Deduct	-0.98	
		For >250 To 500, Deduct	-1.81	
		For >500, Deduct	-2.64	
		For Work In Restricted Working Space, Add	2.06	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0292	EA		4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	12.96	
			For >50 To 100, Deduct	-0.50	
			For >100 To 250, Deduct	-0.99	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.67	
			For Work In Restricted Working Space, Add	2.06	
26 05 29 00-0293			Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel (26 05 29 00-0196)		
26 05 29 00-0294	EA		1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.90	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-1.03	
			For >500, Deduct	-1.52	
			For Work In Restricted Working Space, Add	1.24	
26 05 29 00-0295	EA		3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.83	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-1.03	
			For >500, Deduct	-1.51	
			For Work In Restricted Working Space, Add	1.24	
26 05 29 00-0296	EA		1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.74	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.02	
			For >500, Deduct	-1.50	
			For Work In Restricted Working Space, Add	1.24	
26 05 29 00-0297	EA		1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	8.85	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.35	
			For >500, Deduct	-1.99	
			For Work In Restricted Working Space, Add	1.65	
26 05 29 00-0298	EA		1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	10.40	
			For >50 To 100, Deduct	-0.40	
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-2.14	
			For Work In Restricted Working Space, Add	1.65	
26 05 29 00-0299	EA		2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	10.49	
			For >50 To 100, Deduct	-0.40	
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-2.15	
			For Work In Restricted Working Space, Add	1.65	
26 05 29 00-0300			"J" Type Conduit Hangers (26 05 29 00-0196)		
26 05 29 00-0301	EA		1/2", "J" Type Conduit Hanger (Unistrut J1205).....	28.41	
			For >50 To 100, Deduct	-0.95	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-3.33	
			For >500, Deduct	-4.77	
			For Work In Restricted Working Space, Add	2.89	
26 05 29 00-0302	EA		3/4", "J" Type Conduit Hanger (Unistrut J1207).....	28.73	
			For >50 To 100, Deduct	-0.96	
			For >100 To 250, Deduct	-1.92	
			For >250 To 500, Deduct	-3.36	
			For >500, Deduct	-4.80	
			For Work In Restricted Working Space, Add	2.89	
26 05 29 00-0303	EA		1", "J" Type Conduit Hanger (Unistrut J1210).....	30.41	
			For >50 To 100, Deduct	-1.04	
			For >100 To 250, Deduct	-2.07	
			For >250 To 500, Deduct	-3.66	
			For >500, Deduct	-5.24	
			For Work In Restricted Working Space, Add	3.30	
26 05 29 00-0304	EA		1-1/4", "J" Type Conduit Hanger (Unistrut J1212)	30.76	
			For >50 To 100, Deduct	-1.04	
			For >100 To 250, Deduct	-2.09	
			For >250 To 500, Deduct	-3.68	
			For >500, Deduct	-5.28	
			For Work In Restricted Working Space, Add	3.30	
26 05 29 00-0305	EA		1-1/2", "J" Type Conduit Hanger (Unistrut J1215)	32.36	
			For >50 To 100, Deduct	-1.12	
			For >100 To 250, Deduct	-2.24	
			For >250 To 500, Deduct	-3.97	
			For >500, Deduct	-5.71	
			For Work In Restricted Working Space, Add	3.71	
26 05 29 00-0306	EA		2", "J" Type Conduit Hanger (Unistrut J1220).....	33.70	
			For >50 To 100, Deduct	-1.15	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-4.07	
			For >500, Deduct	-5.84	
			For Work In Restricted Working Space, Add	3.71	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0307	EA		2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	54.15	
			For >50 To 100, Deduct	-1.70	
			For >100 To 250, Deduct	-3.40	
			For >250 To 500, Deduct	-5.78	
			For >500, Deduct	-8.17	
			For Work In Restricted Working Space, Add	4.13	
26 05 29 00-0308	EA		3", "J" Type Conduit Hanger (Unistrut J1230).....	57.53	
			For >50 To 100, Deduct	-1.82	
			For >100 To 250, Deduct	-3.63	
			For >250 To 500, Deduct	-6.21	
			For >500, Deduct	-8.78	
			For Work In Restricted Working Space, Add	4.54	
26 05 29 00-0309	EA		3-1/2", "J" Type Conduit Hanger (Unistrut J1235).....	61.92	
			For >50 To 100, Deduct	-1.96	
			For >100 To 250, Deduct	-3.92	
			For >250 To 500, Deduct	-6.71	
			For >500, Deduct	-9.49	
			For Work In Restricted Working Space, Add	4.95	
26 05 29 00-0310	EA		4", "J" Type Conduit Hanger (Unistrut J1240).....	82.59	
			For >50 To 100, Deduct	-2.48	
			For >100 To 250, Deduct	-4.95	
			For >250 To 500, Deduct	-8.26	
			For >500, Deduct	-11.56	
			For Work In Restricted Working Space, Add	4.95	
26 05 29 00-0311	EA		5", "J" Type Conduit Hanger (Unistrut J1250).....	90.75	
			For >50 To 100, Deduct	-2.72	
			For >100 To 250, Deduct	-5.43	
			For >250 To 500, Deduct	-9.04	
			For >500, Deduct	-12.65	
			For Work In Restricted Working Space, Add	5.36	
26 05 29 00-0312	EA		6", "J" Type Conduit Hanger (Unistrut J1260).....	128.16	
			For >50 To 100, Deduct	-3.72	
			For >100 To 250, Deduct	-7.44	
			For >250 To 500, Deduct	-12.19	
			For >500, Deduct	-16.94	
			For Work In Restricted Working Space, Add	6.19	
26 05 29 00-0313 Between Studs Box Brackets (26 05 29 00-0196)					
26 05 29 00-0314	EA		16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	10.22	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.28	
			For >500, Deduct	-1.85	
			For Work In Restricted Working Space, Add	1.24	
26 05 29 00-0315	EA		24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	12.32	
			For >50 To 100, Deduct	-0.41	
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.44	
			For >500, Deduct	-2.06	
			For Work In Restricted Working Space, Add	1.24	
26 05 29 00-0316 Hangers And Brackets (26 05 29 00-0196)					
26 05 29 00-0317	EA		Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	3.56	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.91	
26 05 29 00-0318	EA		Angle Bracket Only With 1/4" Hole (Caddy AB).....	3.44	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.60	
			For >500, Deduct	-0.90	
26 05 29 00-0319	EA		Offset Bracket Only With 1/4" Hole (Caddy AO).....	3.44	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.60	
			For >500, Deduct	-0.90	
26 05 29 00-0320	EA		Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB).....	4.70	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.02	
26 05 29 00-0321	EA		Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB).....	4.73	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.03	
26 05 29 00-0322	EA		Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB).....	4.59	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.69	
			For >500, Deduct	-1.01	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0323	EA		Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO).....	4.70	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.02	
26 05 29 00-0324	EA		Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO).....	4.73	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.03	
26 05 29 00-0325 Clips And Accessories (26 05 29 00-0196)					
26 05 29 00-0326	EA		1/2" Diameter Center, Bridle Ring (Caddy 2BR).....	2.42	
			For >50 To 100, Deduct	-0.10	
			For >100 To 250, Deduct	-0.21	
			For >250 To 500, Deduct	-0.40	
			For >500, Deduct	-0.59	
26 05 29 00-0327	EA		3/4" Diameter Center, Bridle Ring (Caddy 2BR12).....	2.47	
			For >50 To 100, Deduct	-0.10	
			For >100 To 250, Deduct	-0.21	
			For >250 To 500, Deduct	-0.40	
			For >500, Deduct	-0.59	
26 05 29 00-0328	EA		1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20).....	2.66	
			For >50 To 100, Deduct	-0.11	
			For >100 To 250, Deduct	-0.22	
			For >250 To 500, Deduct	-0.41	
			For >500, Deduct	-0.61	
26 05 29 00-0329	EA		2" Diameter Center, Bridle Ring (Caddy 2BR32).....	3.05	
			For >50 To 100, Deduct	-0.12	
			For >100 To 250, Deduct	-0.24	
			For >250 To 500, Deduct	-0.44	
			For >500, Deduct	-0.65	
26 05 29 00-0330 Wire Ties (26 05 29 00-0196)					
Note: Per hundred (C).					
26 05 29 00-0331	C		3" Length, 18 Lb. Tensile Strength, Nylon Cable Ties.....	34.74	
			For Up To 0.1, Add	28.70	
			For >0.1 To 0.25, Add	14.35	
			For >0.25 To 0.75, Add	7.18	
			For >2.0, Deduct	-2.87	
			For UV Black, Add	0.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.61	
26 05 29 00-0332	C		4" Length, 18 Lb. Tensile Strength, Nylon Cable Ties.....	34.97	
			For Up To 0.1, Add	28.70	
			For >0.1 To 0.25, Add	14.35	
			For >0.25 To 0.75, Add	7.18	
			For >2.0, Deduct	-2.87	
			For UV Black, Add	0.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.61	
26 05 29 00-0333	C		4-3/4" Length, 18 Lb. Tensile Strength, Nylon Cable Ties.....	35.14	
			For Up To 0.1, Add	28.70	
			For >0.1 To 0.25, Add	14.35	
			For >0.25 To 0.75, Add	7.18	
			For >2.0, Deduct	-2.87	
			For UV Black, Add	0.97	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.61	
26 05 29 00-0334	C		5-1/2" Length, 18 Lb. Tensile Strength, Nylon Cable Ties.....	35.21	
			For Up To 0.1, Add	28.70	
			For >0.1 To 0.25, Add	14.35	
			For >0.25 To 0.75, Add	7.18	
			For >2.0, Deduct	-2.87	
			For UV Black, Add	0.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.61	
26 05 29 00-0335	C		6-1/2" Length, 18 Lb. Tensile Strength, Nylon Cable Ties.....	36.52	
			For Up To 0.1, Add	29.94	
			For >0.1 To 0.25, Add	14.97	
			For >0.25 To 0.75, Add	7.49	
			For >2.0, Deduct	-2.99	
			For UV Black, Add	0.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.98	
26 05 29 00-0336	C		8" Length, 18 Lb. Tensile Strength, Nylon Cable Ties.....	42.99	
			For Up To 0.1, Add	31.31	
			For >0.1 To 0.25, Add	15.66	
			For >0.25 To 0.75, Add	7.83	
			For >2.0, Deduct	-3.13	
			For UV Black, Add	1.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.39	
26 05 29 00-0337	C		4-3/4" Length, 40 Lb. Tensile Strength, Nylon Cable Ties.....	41.23	
			For Up To 0.1, Add	28.70	
			For >0.1 To 0.25, Add	14.35	
			For >0.25 To 0.75, Add	7.18	
			For >2.0, Deduct	-2.87	
			For UV Black, Add	1.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.61	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0338	C		6" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	42.56	
			For Up To 0.1, Add	29.94	
			For >0.1 To 0.25, Add	14.97	
			For >0.25 To 0.75, Add	7.49	
			For >2.0, Deduct	-2.99	
			For UV Black, Add	1.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.98	
26 05 29 00-0339	C		8" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	44.00	
			For Up To 0.1, Add	31.31	
			For >0.1 To 0.25, Add	15.66	
			For >0.25 To 0.75, Add	7.83	
			For >2.0, Deduct	-3.13	
			For UV Black, Add	1.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.39	
26 05 29 00-0340	C		10" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	63.01	
			For Up To 0.1, Add	33.75	
			For >0.1 To 0.25, Add	16.88	
			For >0.25 To 0.75, Add	8.44	
			For >2.0, Deduct	-3.38	
			For UV Black, Add	4.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.13	
26 05 29 00-0341	C		11-1/2" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	65.66	
			For Up To 0.1, Add	33.75	
			For >0.1 To 0.25, Add	16.88	
			For >0.25 To 0.75, Add	8.44	
			For >2.0, Deduct	-3.38	
			For UV Black, Add	4.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.13	
26 05 29 00-0342	C		7" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	45.85	
			For Up To 0.1, Add	31.31	
			For >0.1 To 0.25, Add	15.66	
			For >0.25 To 0.75, Add	7.83	
			For >2.0, Deduct	-3.13	
			For UV Black, Add	2.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.39	
26 05 29 00-0343	C		8" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	43.51	
			For Up To 0.1, Add	31.31	
			For >0.1 To 0.25, Add	15.66	
			For >0.25 To 0.75, Add	7.83	
			For >2.0, Deduct	-3.13	
			For UV Black, Add	1.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.39	
26 05 29 00-0344	C		11" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	63.74	
			For Up To 0.1, Add	33.75	
			For >0.1 To 0.25, Add	16.88	
			For >0.25 To 0.75, Add	8.44	
			For >2.0, Deduct	-3.38	
			For UV Black, Add	4.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.13	
26 05 29 00-0345	C		14-1/2" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	72.73	
			For Up To 0.1, Add	35.86	
			For >0.1 To 0.25, Add	17.93	
			For >0.25 To 0.75, Add	8.97	
			For >2.0, Deduct	-3.59	
			For UV Black, Add	5.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.76	
26 05 29 00-0346	C		8" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	70.88	
			For Up To 0.1, Add	31.31	
			For >0.1 To 0.25, Add	15.66	
			For >0.25 To 0.75, Add	7.83	
			For >2.0, Deduct	-3.13	
			For UV Black, Add	5.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.39	
26 05 29 00-0347	C		11" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	77.55	
			For Up To 0.1, Add	33.75	
			For >0.1 To 0.25, Add	16.88	
			For >0.25 To 0.75, Add	8.44	
			For >2.0, Deduct	-3.38	
			For UV Black, Add	6.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.13	
26 05 29 00-0348	C		15" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	93.48	
			For Up To 0.1, Add	35.86	
			For >0.1 To 0.25, Add	17.93	
			For >0.25 To 0.75, Add	8.97	
			For >2.0, Deduct	-3.59	
			For UV Black, Add	8.64	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.76	
26 05 29 00-0349	C		17" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	132.66	
			For Up To 0.1, Add	38.26	
			For >0.1 To 0.25, Add	19.13	
			For >0.25 To 0.75, Add	9.57	
			For >2.0, Deduct	-3.83	
			For UV Black, Add	14.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0350	C		17-3/4" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	128.63	
			For Up To 0.1, Add	38.26	
			For >0.1 To 0.25, Add	19.13	
			For >0.25 To 0.75, Add	9.57	
			For >2.0, Deduct	-3.83	
			For UV Black, Add	13.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.48	
26 05 29 00-0351	C		21-11/16" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	156.16	
			For Up To 0.1, Add	40.04	
			For >0.1 To 0.25, Add	20.02	
			For >0.25 To 0.75, Add	10.01	
			For >2.0, Deduct	-4.00	
			For UV Black, Add	17.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.01	
26 05 29 00-0352	C		30" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	180.40	
			For Up To 0.1, Add	41.99	
			For >0.1 To 0.25, Add	21.00	
			For >0.25 To 0.75, Add	10.50	
			For >2.0, Deduct	-4.20	
			For UV Black, Add	20.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.60	
26 05 29 00-0353	C		46" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	246.41	
			For Up To 0.1, Add	45.30	
			For >0.1 To 0.25, Add	22.65	
			For >0.25 To 0.75, Add	11.33	
			For >2.0, Deduct	-4.53	
			For UV Black, Add	30.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.59	
26 05 29 00-0354	C		3/4" x 3/4" Self Adhesive Tie Mounts	45.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.91	
26 05 29 00-0355	C		1.1" x 1.1" Tie Mounts With Screw	91.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.82	
26 05 29 00-0356	EA		6" Length x 1/2" Width, Velcro Grip Cable Tie	2.59	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.21	
26 05 29 00-0357	EA		8" Length x 1/2" Width, Velcro Grip Cable Tie	2.58	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.17	
26 05 29 00-0358	EA		12" Length x 1/2" Width, Velcro Grip Cable Tie	3.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.17	
26 05 29 00-0359	EA		15" Length x 3/4" Width, Velcro Grip Cable Tie	4.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.17	
26 05 29 00-0360	EA		180" Length x 3/4" Width, Velcro Grip Cable Tie Roll	113.28	
			Note: Cut to length.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.29	
26 05 29 00-0361			Fastening Devices For Wireway And Conduit (26 05 29)		
			Note: Includes drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports for bolts.		
26 05 29 00-0362			Toggle Bolts (26 05 29 00-0361)		
			Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0363	EA		1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	10.69	
			For >50 To 100, Deduct	-1.02	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-3.57	
			For >500, Deduct	-5.09	
26 05 29 00-0364	EA		1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	10.97	
			For >50 To 100, Deduct	-1.05	
			For >100 To 250, Deduct	-2.09	
			For >250 To 500, Deduct	-3.66	
			For >500, Deduct	-5.22	
26 05 29 00-0365	EA		3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	11.57	
			For >50 To 100, Deduct	-1.08	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-3.77	
			For >500, Deduct	-5.38	
26 05 29 00-0366	EA		3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	11.86	
			For >50 To 100, Deduct	-1.11	
			For >100 To 250, Deduct	-2.21	
			For >250 To 500, Deduct	-3.86	
			For >500, Deduct	-5.51	
26 05 29 00-0367	EA		1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	12.13	
			For >50 To 100, Deduct	-1.13	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-3.95	
			For >500, Deduct	-5.63	
26 05 29 00-0368	EA		5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	13.75	
			For >50 To 100, Deduct	-1.19	
			For >100 To 250, Deduct	-2.38	
			For >250 To 500, Deduct	-4.14	
			For >500, Deduct	-5.90	
26 05 29 00-0369	EA		3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	14.31	
			For >50 To 100, Deduct	-1.22	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-4.25	
			For >500, Deduct	-6.06	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 29 00-0370	Machine Screws (26 05 29 00-0361) Note: Includes drilling in concrete, concrete block, wood or steel.			
26 05 29 00-0371	EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.16		
	For >50 To 100, Deduct	-0.31		
	For >100 To 250, Deduct	-0.62		
	For >250 To 500, Deduct	-1.08		
	For >500, Deduct	-1.54		
26 05 29 00-0372	EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.21		
	For >50 To 100, Deduct	-0.31		
	For >100 To 250, Deduct	-0.62		
	For >250 To 500, Deduct	-1.08		
	For >500, Deduct	-1.54		
26 05 29 00-0373	EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	4.03		
	For >50 To 100, Deduct	-0.39		
	For >100 To 250, Deduct	-0.78		
	For >250 To 500, Deduct	-1.36		
	For >500, Deduct	-1.94		
26 05 29 00-0374	EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	4.21		
	For >50 To 100, Deduct	-0.39		
	For >100 To 250, Deduct	-0.79		
	For >250 To 500, Deduct	-1.37		
	For >500, Deduct	-1.95		
26 05 29 00-0375	EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	5.19		
	For >50 To 100, Deduct	-0.47		
	For >100 To 250, Deduct	-0.95		
	For >250 To 500, Deduct	-1.65		
	For >500, Deduct	-2.35		
26 05 29 00-0376	Hex Lag Bolts With Lag Shield Expansion Anchors (26 05 29 00-0361) Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.			
26 05 29 00-0377	EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	5.16		
	For >50 To 100, Deduct	-0.42		
	For >100 To 250, Deduct	-0.83		
	For >250 To 500, Deduct	-1.44		
	For >500, Deduct	-2.05		
26 05 29 00-0378	EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	5.10		
	For >50 To 100, Deduct	-0.41		
	For >100 To 250, Deduct	-0.83		
	For >250 To 500, Deduct	-1.44		
	For >500, Deduct	-2.04		
26 05 29 00-0379	EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	7.22		
	For >50 To 100, Deduct	-0.52		
	For >100 To 250, Deduct	-1.05		
	For >250 To 500, Deduct	-1.80		
	For >500, Deduct	-2.55		
26 05 29 00-0380	EA 1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	9.22		
	For >50 To 100, Deduct	-0.63		
	For >100 To 250, Deduct	-1.26		
	For >250 To 500, Deduct	-2.15		
	For >500, Deduct	-3.05		
26 05 29 00-0381	Hanger Lag Bolts With Hex Nuts (26 05 29 00-0361) Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.			
26 05 29 00-0382	EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.86		
	For >50 To 100, Deduct	-0.33		
	For >100 To 250, Deduct	-0.65		
	For >250 To 500, Deduct	-1.13		
	For >500, Deduct	-1.61		
26 05 29 00-0383	EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.92		
	For >50 To 100, Deduct	-0.33		
	For >100 To 250, Deduct	-0.65		
	For >250 To 500, Deduct	-1.13		
	For >500, Deduct	-1.61		
26 05 29 00-0384	EA 3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	4.65		
	For >50 To 100, Deduct	-0.37		
	For >100 To 250, Deduct	-0.74		
	For >250 To 500, Deduct	-1.29		
	For >500, Deduct	-1.83		
26 05 29 00-0385	Hollow Wall Screw Anchors (26 05 29 00-0361)			
26 05 29 00-0386	EA 6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.27		
	For >50 To 100, Deduct	-0.19		
	For >100 To 250, Deduct	-0.39		
	For >250 To 500, Deduct	-0.67		
	For >500, Deduct	-0.96		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0387	EA		6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.34	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.68	
			For >500, Deduct	-0.97	
26 05 29 00-0388	EA		6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.45	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.69	
			For >500, Deduct	-0.98	
26 05 29 00-0389	EA		10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.11	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.82	
			For >500, Deduct	-1.16	
26 05 29 00-0390	EA		10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.26	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.18	
26 05 29 00-0391	EA		10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.31	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.18	
26 05 29 00-0392	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.34	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.84	
			For >500, Deduct	-1.19	
26 05 29 00-0393	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.56	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.21	
26 05 29 00-0394	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.64	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.86	
			For >500, Deduct	-1.22	
26 05 29 00-0395			Lead Screw Anchors (26 05 29 00-0361)		
			Note: Includes screw.		
26 05 29 00-0396	EA		#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw.....	5.26	
			For >50 To 100, Deduct	-0.48	
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.68	
			For >500, Deduct	-2.40	
26 05 29 00-0397	EA		#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw.....	6.27	
			For >50 To 100, Deduct	-0.56	
			For >100 To 250, Deduct	-1.13	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.80	
26 05 29 00-0398	EA		#16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw.....	8.48	
			For >50 To 100, Deduct	-0.73	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-2.53	
			For >500, Deduct	-3.60	
26 05 29 00-0399			Nailing Anchor Hilti HPS Impact Anchor Or Equal (26 05 29 00-0361)		
26 05 29 00-0400	EA		1/4" x 1" Nail-In Drilling In Concrete, Concrete Block, Wood Or Steel.....	1.90	
			For >50 To 100, Deduct	-0.14	
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.49	
			For >500, Deduct	-0.70	
26 05 29 00-0401	EA		1/4" x 1-3/4" Nail-In Drilling In Concrete, Concrete Block, Wood Or Steel.....	3.29	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.95	
			For >500, Deduct	-1.35	
26 05 29 00-0402	EA		1/4" x 2-1/8" Nail-In Drilling In Concrete, Concrete Block, Wood Or Steel.....	4.66	
			For >50 To 100, Deduct	-0.40	
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.40	
			For >500, Deduct	-1.99	
26 05 29 00-0403			Acoustical T-Bar Clips (26 05 29 00-0361)		
			Note: For conduit installation above suspended ceilings up to 15' height.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0404	EA	1/2" Conduit, Push-In Acoustical T-Bar Clip	9.26	
		For >50 To 100, Deduct	-0.67	
		For >100 To 250, Deduct	-1.34	
		For >250 To 500, Deduct	-2.30	
		For >500, Deduct	-3.27	
26 05 29 00-0405	EA	3/4" Conduit, Push-In Acoustical T-Bar Clip	9.71	
		For >50 To 100, Deduct	-0.70	
		For >100 To 250, Deduct	-1.41	
		For >250 To 500, Deduct	-2.42	
		For >500, Deduct	-3.44	
26 05 29 00-0406	EA	1" Conduit, Push-In Acoustical T-Bar Clip	10.62	
		For >50 To 100, Deduct	-0.75	
		For >100 To 250, Deduct	-1.51	
		For >250 To 500, Deduct	-2.58	
		For >500, Deduct	-3.66	
26 05 29 00-0407		Threaded Rod, Accessories And Attachments (26 05 29)		
26 05 29 00-0408		Threaded Rod And Rod Accessories (26 05 29 00-0407)		
26 05 29 00-0409		Carbon Steel Threaded Rod (26 05 29 00-0408)		
		Note: Includes plain finish.		
26 05 29 00-0410	LF	3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.47	0.86
		For Galvanized, Add	0.70	
		For Zinc Coated, Add	0.50	
26 05 29 00-0411	LF	1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.61	0.92
		For Galvanized, Add	1.11	
		For Zinc Coated, Add	0.79	
26 05 29 00-0412	LF	5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.20	0.95
		For Galvanized, Add	1.72	
		For Zinc Coated, Add	1.23	
26 05 29 00-0413	LF	3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	9.77	0.97
		For Galvanized, Add	3.12	
		For Zinc Coated, Add	2.23	
26 05 29 00-0414	LF	7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.61	1.01
		For Galvanized, Add	3.43	
		For Zinc Coated, Add	2.45	
26 05 29 00-0415	LF	1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	14.34	1.14
		For Galvanized, Add	4.82	
		For Zinc Coated, Add	3.43	
26 05 29 00-0416	LF	1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	17.74	1.27
		For Galvanized, Add	6.08	
		For Zinc Coated, Add	4.33	
26 05 29 00-0417		Threaded Rod Couplings (26 05 29 00-0408)		
26 05 29 00-0418	EA	3/8" Diameter, Threaded Rod Coupling Nut	11.04	
26 05 29 00-0419	EA	1/2" Diameter, Threaded Rod Coupling Nut	12.52	
26 05 29 00-0420	EA	5/8" Diameter, Threaded Rod Coupling Nut	15.61	
26 05 29 00-0421	EA	3/4" Diameter, Threaded Rod Coupling Nut	18.99	
26 05 29 00-0422	EA	7/8" Diameter, Threaded Rod Coupling Nut	27.71	
26 05 29 00-0423	EA	1" Diameter, Threaded Rod Coupling Nut	32.86	
26 05 29 00-0424	EA	1-1/8" Diameter, Threaded Rod Coupling Nut	62.50	
26 05 29 00-0425		Flat Washers (26 05 29 00-0408)		
26 05 29 00-0426	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.94	0.34
		For Galvanized, Add	0.04	
26 05 29 00-0427	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.21	0.34
		For Galvanized, Add	0.09	
26 05 29 00-0428	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.58	0.34
		For Galvanized, Add	0.17	
26 05 29 00-0429	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.93	0.69
		For Galvanized, Add	0.25	
26 05 29 00-0430	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.18	0.69
		For Galvanized, Add	0.29	
26 05 29 00-0431	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.57	0.69
		For Galvanized, Add	0.36	
26 05 29 00-0432	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.89	0.69
		For Galvanized, Add	0.41	
26 05 29 00-0433		Malleable Iron Eye Sockets (26 05 29 00-0408)		
		Note: Type 16.		
26 05 29 00-0434	EA	3/8" Rod Size, Malleable Iron Eye Socket	16.26	
26 05 29 00-0435	EA	1/2" Rod Size, Malleable Iron Eye Socket	19.65	
26 05 29 00-0436	EA	5/8" Rod Size, Malleable Iron Eye Socket	35.57	
26 05 29 00-0437	EA	3/4" Rod Size, Malleable Iron Eye Socket	51.42	
26 05 29 00-0438	EA	7/8" Rod Size, Malleable Iron Eye Socket	54.62	
26 05 29 00-0439		Hex Nuts (26 05 29 00-0408)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0440 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	0.92 0.04	0.34
26 05 29 00-0441 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	1.16 0.08	0.34
26 05 29 00-0442 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	1.58 0.17	0.34
26 05 29 00-0443 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	1.87 0.23	0.69
26 05 29 00-0444 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	2.74 0.43	0.69
26 05 29 00-0445 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	3.48 0.59	0.69
26 05 29 00-0446 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut..... <i>For Galvanized, Add</i>	5.70 1.11	0.69
26 05 29 00-0447 Forged Steel Turnbuckles (26 05 29 00-0408) Note: Type 13.		
26 05 29 00-0448 EA 3/8" Thread Diameter, Forged Steel Turnbuckle Body	38.90	
26 05 29 00-0449 EA 1/2" Thread Diameter, Forged Steel Turnbuckle Body	48.67	
26 05 29 00-0450 EA 5/8" Thread Diameter, Forged Steel Turnbuckle Body	66.38	
26 05 29 00-0451 EA 3/4" Thread Diameter, Forged Steel Turnbuckle Body	82.73	
26 05 29 00-0452 EA 7/8" Thread Diameter, Forged Steel Turnbuckle Body	212.96	
26 05 29 00-0453 EA 1" Thread Diameter, Forged Steel Turnbuckle Body	137.25	
26 05 29 00-0454 EA 1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	283.63	
26 05 29 00-0455 Attachments (26 05 29 00-0407)		
26 05 29 00-0456 Welded Beam Attachments (26 05 29 00-0455) Note: Type 22.		
26 05 29 00-0457 EA 3/8" Rod Size, Welded Beam Attachment	70.61	13.76
26 05 29 00-0458 EA 1/2" Rod Size, Welded Beam Attachment	75.45	14.44
26 05 29 00-0459 EA 5/8" Rod Size, Welded Beam Attachment	80.39	15.27
26 05 29 00-0460 EA 3/4" Rod Size, Welded Beam Attachment	104.54	16.23
26 05 29 00-0461 EA 7/8" Rod Size, Welded Beam Attachment	126.74	17.19
26 05 29 00-0462 EA 1" Rod Size, Welded Beam Attachment	180.31	19.67
26 05 29 00-0463 EA 1-1/8" Rod Size, Welded Beam Attachment	259.59	20.63
26 05 29 00-0464 C-Clamp Style Beam Clamps (26 05 29 00-0455) Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0465 EA 3/8" Rod Size, C-Clamp Style Beam Clamp	22.49	10.33
26 05 29 00-0466 EA 1/2" Rod Size, C-Clamp Style Beam Clamp	27.49	11.02
26 05 29 00-0467 EA 5/8" Rod Size, C-Clamp Style Beam Clamp	31.55	11.80
26 05 29 00-0468 EA 3/4" Rod Size, C-Clamp Style Beam Clamp	41.78	12.71
26 05 29 00-0469 EA 7/8" Rod Size, C-Clamp Style Beam Clamp	62.95	13.78
26 05 29 00-0470 Bottom Mount I-Beam Clamps (26 05 29 00-0455) Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0471 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	69.24	13.78
26 05 29 00-0472 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	104.35	15.02
26 05 29 00-0473 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	151.55	16.53
26 05 29 00-0474 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	182.09	18.36
26 05 29 00-0475 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	452.74	20.66
26 05 29 00-0476 Steel U-Bolts (26 05 29 00-0455) Note: Type 24. Includes plate and nuts.		
26 05 29 00-0477 EA 1/2" Pipe Size, Zinc Plated Steel, U-Bolt	18.41	8.27
26 05 29 00-0478 EA 3/4" Pipe Size, Zinc Plated Steel, U-Bolt	20.11	8.70
26 05 29 00-0479 EA 1" Pipe Size, Zinc Plated Steel, U-Bolt	21.72	9.18
26 05 29 00-0480 EA 1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt	25.06	9.72
26 05 29 00-0481 EA 1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	25.74	10.33
26 05 29 00-0482 EA 2" Pipe Size, Zinc Plated Steel, U-Bolt	27.56	11.02
26 05 29 00-0483 EA 2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	41.72	11.80
26 05 29 00-0484 EA 3" Pipe Size, Zinc Plated Steel, U-Bolt	46.14	12.71
26 05 29 00-0485 EA 4" Pipe Size, Zinc Plated Steel, U-Bolt	56.53	13.78
26 05 29 00-0486 Stainless Steel Threaded Rod (26 05 29 00-0407)		
26 05 29 00-0487 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	4.29	0.69
<i>For 316 Stainless Steel, Add</i>	1.18	
26 05 29 00-0488 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	6.51	0.75
<i>For 316 Stainless Steel, Add</i>	2.02	
26 05 29 00-0489 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	8.38	0.86
<i>For 316 Stainless Steel, Add</i>	2.69	
26 05 29 00-0490 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	11.68	0.89
<i>For 316 Stainless Steel, Add</i>	4.01	
26 05 29 00-0491 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	14.03	0.92
<i>For 316 Stainless Steel, Add</i>	4.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0492 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	21.08 7.78	0.93
26 05 29 00-0493 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	29.55 11.20	0.95
26 05 29 00-0494 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	40.71 15.69	0.97
26 05 29 00-0495 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	52.33 20.26	1.14
26 05 29 00-0496 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	110.88 43.74	1.37
26 05 29 00-0497 Polyvinyl Chloride (PVC) Coated Supports (26 05 29) Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.		
26 05 29 00-0498 Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0497)		
26 05 29 00-0499 Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0498)		
26 05 29 00-0500 EA 1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	70.52	27.50
26 05 29 00-0501 EA 3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	76.66	29.98
26 05 29 00-0502 EA 1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	81.99	33.00
26 05 29 00-0503 EA 1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	97.79	36.72
26 05 29 00-0504 EA 1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	112.76	41.26
26 05 29 00-0505 EA 2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	134.14	45.39
26 05 29 00-0506 EA 2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	146.67	49.51
26 05 29 00-0507 EA 3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	161.34	53.63
26 05 29 00-0508 EA 3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	170.61	57.76
26 05 29 00-0509 EA 4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	184.30	61.89
26 05 29 00-0510 Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0498)		
26 05 29 00-0511 EA 1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	75.29	27.50
26 05 29 00-0512 EA 3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	79.90	29.98
26 05 29 00-0513 EA 1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	91.66	33.00
26 05 29 00-0514 EA 1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	101.23	36.72
26 05 29 00-0515 EA 1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	114.09	41.26
26 05 29 00-0516 EA 2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	131.86	45.39
26 05 29 00-0517 EA 2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	150.97	49.51
26 05 29 00-0518 EA 3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	167.06	53.63
26 05 29 00-0519 EA 3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	177.79	57.76
26 05 29 00-0520 EA 4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	185.26	61.89
26 05 29 00-0521 Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0498)		
26 05 29 00-0522 EA 1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	71.36	27.23
26 05 29 00-0523 EA 3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	76.81	29.71
26 05 29 00-0524 EA 1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	86.84	33.00
26 05 29 00-0525 EA 1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	101.42	36.31
26 05 29 00-0526 EA 1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	130.98	41.26
26 05 29 00-0527 EA 2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	143.64	45.39
26 05 29 00-0528 Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0497)		
26 05 29 00-0529 One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0528)		
26 05 29 00-0530 EA 1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	8.15	0.82
26 05 29 00-0531 EA 3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	8.84	0.82
26 05 29 00-0532 EA 1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	12.92	0.82
26 05 29 00-0533 EA 1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	15.67	0.82
26 05 29 00-0534 EA 1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	20.58	0.82
26 05 29 00-0535 EA 2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	30.82	0.82
26 05 29 00-0536 EA 2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	41.00	0.82
26 05 29 00-0537 EA 3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	54.86	0.82
26 05 29 00-0538 EA 3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	96.96	0.82
26 05 29 00-0539 EA 4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	103.04	0.82
26 05 29 00-0540 Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0528)		
26 05 29 00-0541 EA 1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	16.10	1.65
26 05 29 00-0542 EA 3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	16.17	1.65
26 05 29 00-0543 EA 1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	16.58	1.65
26 05 29 00-0544 EA 1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	20.77	1.65
26 05 29 00-0545 EA 1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	21.35	1.65
26 05 29 00-0546 EA 2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	24.44	1.65
26 05 29 00-0547 EA 2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	27.44	1.65
26 05 29 00-0548 EA 3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	28.68	1.65
26 05 29 00-0549 EA 3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	30.61	1.65
26 05 29 00-0550 EA 4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	33.17	1.65
26 05 29 00-0551 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0497)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0552 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0551)		
26 05 29 00-0553 EA 1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	14.63	1.65
26 05 29 00-0554 EA 3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	16.97	1.65
26 05 29 00-0555 EA 1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	21.26	1.65
26 05 29 00-0556 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	24.81	1.65
26 05 29 00-0557 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	33.10	1.65
26 05 29 00-0558 EA 2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	58.60	1.65
26 05 29 00-0559 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	80.82	1.65
26 05 29 00-0560 EA 3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	110.25	1.65
26 05 29 00-0561 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	192.73	1.65
26 05 29 00-0562 EA 4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	192.73	1.65
26 05 29 00-0563 Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0497)		
26 05 29 00-0564 Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0563)		
26 05 29 00-0565 LF 3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	10.07	1.10
26 05 29 00-0566 LF 1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	12.37	1.24
26 05 29 00-0567 Attachments (26 05 29 00-0497)		
26 05 29 00-0568 Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0567)		
26 05 29 00-0569 EA 1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	20.84	8.27
26 05 29 00-0570 EA 3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	21.56	8.68
26 05 29 00-0571 EA 1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	22.70	9.23
26 05 29 00-0572 EA 1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	24.15	9.78
26 05 29 00-0573 EA 1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	25.72	10.33
26 05 29 00-0574 EA 2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	28.79	11.02
26 05 29 00-0575 EA 2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	40.74	11.84
26 05 29 00-0576 EA 3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	42.80	12.67
26 05 29 00-0577 EA 4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	45.67	13.78
26 05 29 00-0578 EA 5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	73.14	15.70
26 05 29 00-0579 EA 6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	90.41	18.18
26 05 29 00-0580 Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0567)		
26 05 29 00-0581 EA 1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	72.07	27.23
26 05 29 00-0582 EA 5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	83.41	27.23
26 05 29 00-0583 EA 3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	88.09	27.23
26 05 29 00-0584 EA 1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	96.95	28.88
26 05 29 00-0585 EA 1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	113.36	33.00
26 05 29 00-0586 Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0567)		
Note: Includes stainless steel nuts and bolts.		
26 05 29 00-0587 EA 1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	26.32	9.08
26 05 29 00-0588 EA 3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	27.72	9.90
26 05 29 00-0589 EA 1" Polyvinyl Chloride (PVC) Coated Pipe Strap	30.19	10.73
26 05 29 00-0590 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	34.02	12.37
26 05 29 00-0591 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	38.92	14.03
26 05 29 00-0592 EA 2" Polyvinyl Chloride (PVC) Coated Pipe Strap	43.20	14.85
26 05 29 00-0593 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	47.73	16.50
26 05 29 00-0594 EA 3" Polyvinyl Chloride (PVC) Coated Pipe Strap	56.61	18.16
26 05 29 00-0595 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	61.79	18.98
26 05 29 00-0596 EA 4" Polyvinyl Chloride (PVC) Coated Pipe Strap	65.01	20.63
26 05 29 00-0597 EA 5" Polyvinyl Chloride (PVC) Coated Pipe Strap	69.59	23.10
26 05 29 00-0598 Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0497)		
26 05 29 00-0599 LF A12, Polyvinyl Chloride (PVC) Coated Channel	26.65	4.13
26 05 29 00-0600 LF A12A, Polyvinyl Chloride (PVC) Coated Channel	47.01	5.77
26 05 29 00-0601 LF A12P, Polyvinyl Chloride (PVC) Coated Channel	28.42	4.13
26 05 29 00-0602 LF C14, Polyvinyl Chloride (PVC) Coated Channel	21.20	4.13
26 05 29 00-0603 LF C14P, Polyvinyl Chloride (PVC) Coated Channel	22.30	4.13
26 05 29 00-0604 Polymer Concrete Pads (26 05 29)		
Note: Excludes excavation and backfill.		
26 05 29 00-0605 Polymer Concrete, Box Pads (26 05 29 00-0604)		
26 05 29 00-0606 EA 24" x 36", 18" Depth, Polymer Concrete, Box Pad	1,465.72	140.99
26 05 29 00-0607 EA 25" x 25", 24" Depth, Polymer Concrete, Box Pad	1,514.64	140.99
26 05 29 00-0608 EA 40" x 44", 15" Depth, Polymer Concrete, Box Pad	1,964.12	140.99
26 05 29 00-0609 EA 40" x 44", 24" Depth, Polymer Concrete, Box Pad	2,038.65	140.99
26 05 29 00-0610 EA 52" x 36", 18" Depth, Polymer Concrete, Box Pad	1,894.75	140.99
26 05 29 00-0611 EA 44" x 44", 32" Depth, Polymer Concrete, Box Pad	2,246.69	140.99
26 05 29 00-0612 EA 40" x 58", 24" Depth, Polymer Concrete, Box Pad	2,516.56	140.99
26 05 29 00-0613 EA 52" x 50", 18" Depth, Polymer Concrete, Box Pad	2,410.57	176.23
26 05 29 00-0614 EA 74" x 76", 36" Depth, Polymer Concrete, Box Pad	3,671.47	176.23

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0615 EA 93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	4,938.61	176.23
26 05 29 00-0616 Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0604)		
26 05 29 00-0617 EA 42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	710.22	78.42
26 05 29 00-0618 EA 48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	843.83	78.42
26 05 29 00-0619 EA 60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,087.46	105.74
26 05 29 00-0620 EA 54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,137.12	105.74
26 05 29 00-0621 EA 57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,642.66	105.74
26 05 29 00-0622 EA 72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,712.93	105.74
26 05 29 00-0623 EA 64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,843.85	105.74
26 05 29 00-0624 EA 72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,843.85	105.74
26 05 29 00-0625 EA 76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,488.64	105.74
26 05 29 00-0626 EA 96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,957.96	105.74
26 05 29 00-0627 Polymer Concrete, Electrical Equipment Pads (26 05 29 00-0604)		
26 05 29 00-0628 EA 24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	427.21	78.42
26 05 29 00-0629 EA 24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	461.56	78.42
26 05 29 00-0630 EA 24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	492.85	78.42
26 05 29 00-0631 EA 24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	596.79	78.42
26 05 29 00-0632 EA 40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	550.41	78.42
26 05 29 00-0633 EA 42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	572.26	78.42
26 05 29 00-0634 EA 48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	628.93	78.42
26 05 29 00-0635 EA 48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	661.98	78.42
26 05 29 00-0636 EA 54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	772.37	78.42
26 05 29 00-0637 EA 56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	954.20	78.42
26 05 29 00-0638 EA 64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,399.11	105.74
26 05 29 00-0639 EA 66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,465.57	105.74
26 05 29 00-0640 EA 75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,486.54	105.74
26 05 29 00-0641 EA 90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,626.25	105.74
26 05 29 00-0642 EA 84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	3,494.95	105.74
26 05 29 00-0643 EA 96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	4,120.88	105.74
26 05 33 Raceway and Boxes for Electrical Systems (26 05)		
26 05 33 13 Conduit for Electrical Systems (26 05 33)		
26 05 33 13-0001 Conduit Assemblies With Wire (26 05 33 13)		
Note: Includes conduit, field bending conduit up to and including 1", fittings and wire. Excludes hangers or supports.		
26 05 33 13-0002 Electrical Metallic Tubing (EMT) Conduit Assemblies (26 05 33 13-0001)		
Note: Includes conduit, field bends, fittings, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0250 for larger copper conductor, 26 05 33 13-0599 for larger EMT conduit.		
26 05 33 13-0003 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,035.50	307.10
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	263.27	
<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	2.33	
26 05 33 13-0004 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,134.16	333.49
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	285.89	
<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	3.49	
26 05 33 13-0005 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,232.83	359.88
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	308.51	
<i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	4.65	
26 05 33 13-0006 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,096.58	320.30
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	274.58	
<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	3.49	
26 05 33 13-0007 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,219.51	351.08
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	300.97	
<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	5.23	
26 05 33 13-0008 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,342.42	381.86
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	327.35	
<i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	6.98	



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0009	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,235.45 297.20 6.09	346.69
26 05 33 13-0010	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,150.14 283.78 2.33	331.10
26 05 33 13-0011	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,248.82 306.40 3.49	357.49
26 05 33 13-0012	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,347.47 329.01	383.88
26 05 33 13-0013	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,446.14 351.63 5.82	410.26
26 05 33 13-0014	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,211.22 295.09 3.49	344.29
26 05 33 13-0015	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,334.15 321.48 5.23	375.08
26 05 33 13-0016	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,457.07 347.87 6.98	405.87
26 05 33 13-0017	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,579.99 374.25 8.72	436.65
26 05 33 13-0018	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,524.03 351.63 9.13	410.26
26 05 33 13-0019	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	1,697.98 385.56 12.17	449.85
26 05 33 13-0020	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	1,530.89 340.32 10.06	397.07
26 05 33 13-0021	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,769.73 381.79 15.09	445.45
26 05 33 13-0022	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,310.09 305.49 2.33	356.36

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0023	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,408.76 328.11 3.49	382.75
26 05 33 13-0024	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,507.43 350.73	409.14
26 05 33 13-0025	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,606.09 373.35 5.82	435.52
26 05 33 13-0026	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,371.17 316.80 3.49	369.55
26 05 33 13-0027	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,494.09 343.19 5.23	400.34
26 05 33 13-0028	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,617.01 369.58 6.98	431.12
26 05 33 13-0029	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,739.93 395.96 8.72	461.90
26 05 33 13-0030	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,683.98 373.35 9.13	435.52
26 05 33 13-0031	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,929.68 403.50 15.09	470.70
26 05 33 13-0032	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	2,168.51 444.97 20.12	519.08
26 05 33 13-0033		Rigid Galvanized Steel (RGS) Conduit Assemblies (26 05 33 13-0001) Note: Includes conduit, field bends, fittings, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0250 for larger copper conductor, 26 05 33 13-0060 for larger RGS conduit.		
26 05 33 13-0034	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,336.94 299.61 2.33	349.57
26 05 33 13-0035	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,435.59 322.23 3.49	375.96
26 05 33 13-0036	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,398.01 310.92 3.49	362.76
26 05 33 13-0037	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,520.94 337.31 5.23	393.55



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0038	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,536.89 333.54 6.09	389.15
26 05 33 13-0039	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,465.95 319.52 2.33	372.81
26 05 33 13-0040	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,564.61 342.13 3.49	399.20
26 05 33 13-0041	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,663.28 364.75	425.59
26 05 33 13-0042	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,527.03 330.83 3.49	386.01
26 05 33 13-0043	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,649.94 357.21 5.23	416.79
26 05 33 13-0044	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,772.87 383.60 6.98	447.58
26 05 33 13-0045	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,839.84 387.37 9.13	451.98
26 05 33 13-0046	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	2,013.78 421.30 12.17	491.56
26 05 33 13-0047	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	1,846.71 376.06 10.06	438.78
26 05 33 13-0048	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	2,085.53 417.53 15.09	487.16
26 05 33 13-0049	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,877.41 381.60 3.49	445.20
26 05 33 13-0050	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,976.08 404.22	471.59
26 05 33 13-0051	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	2,074.74 426.84 5.82	497.97
26 05 33 13-0052	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,962.75 396.68 5.23	462.79
26 05 33 13-0053	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	2,085.67 423.07 6.98	493.57
26 05 33 13-0054	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	2,208.58 449.45 8.72	524.35

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 13-0055	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	2,152.63	497.97	
		Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
		For Work In Restricted Working Space, Add	426.84		
		For 3 #8 THWN Conductor Instead Of THHN, Add	9.13		
26 05 33 13-0056	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor	2,398.33	533.15	
		Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
		For Work In Restricted Working Space, Add	456.99		
		For 3 #6 THWN Conductor Instead Of THHN, Add	15.09		
26 05 33 13-0057	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor	2,637.17	581.53	
		Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.			
		For Work In Restricted Working Space, Add	498.46		
		For 4 #6 THWN Conductor Instead Of THHN, Add	20.12		
26 05 33 13-0058		Conduit ^(26 05 33 13)			
		Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.			
26 05 33 13-0059		Conduit Installed Above Grade ^(26 05 33 13-0058)			
26 05 33 13-0060		Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit ^(26 05 33 13-0059)			
		Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.			
26 05 33 13-0061		Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling ^(26 05 33 13-0060)			
		Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2319 for field bending >1".			
26 05 33 13-0062	LF	1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	9.48	2.77	
		For >250 To 500, Deduct	-0.13		
		For >500 To 1,000, Deduct	-0.54		
		For >1,000, Deduct	-0.78		
		For Installation In Metal Stud Wall, Add	0.69		
		For Installation In Wood Stud Wall (Includes Drilling), Add	1.73		
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.04		
		For Work In Restricted Working Space, Add	2.08		
		For Elevated Installation >10' To 15' Above Floor, Add	0.69		
		For Elevated Installation >15' To 20' Above Floor, Add	1.38		
		For Elevated Installation >20' To 25' Above Floor, Add	1.73		
		For Elevated Installation >25' To 30' Above Floor, Add	2.42		
		For Elevated Installation >30' To 35' Above Floor, Add	2.77		
		For Elevated Installation >35' To 40' Above Floor, Add	3.46		
		For Elevated Installation >40' Above Floor, Add	3.81		
26 05 33 13-0063	LF	3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	11.20	3.02	
		For >250 To 500, Deduct	-0.16		
		For >500 To 1,000, Deduct	-0.64		
		For >1,000, Deduct	-0.92		
		For Installation In Metal Stud Wall, Add	0.80		
		For Installation In Wood Stud Wall (Includes Drilling), Add	2.01		
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.21		
		For Work In Restricted Working Space, Add	2.41		
		For Elevated Installation >10' To 15' Above Floor, Add	0.80		
		For Elevated Installation >15' To 20' Above Floor, Add	1.61		
		For Elevated Installation >20' To 25' Above Floor, Add	2.01		
		For Elevated Installation >25' To 30' Above Floor, Add	2.81		
		For Elevated Installation >30' To 35' Above Floor, Add	3.22		
		For Elevated Installation >35' To 40' Above Floor, Add	4.02		
		For Elevated Installation >40' Above Floor, Add	4.42		
26 05 33 13-0064	LF	1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	15.68	3.52	
		For >250 To 500, Deduct	-0.24		
		For >500 To 1,000, Deduct	-0.91		
		For >1,000, Deduct	-1.30		
		For Installation In Metal Stud Wall, Add	1.08		
		For Installation In Wood Stud Wall (Includes Drilling), Add	2.70		
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.62		
		For Work In Restricted Working Space, Add	3.24		
		For Elevated Installation >10' To 15' Above Floor, Add	1.08		
		For Elevated Installation >15' To 20' Above Floor, Add	2.16		
		For Elevated Installation >20' To 25' Above Floor, Add	2.70		
		For Elevated Installation >25' To 30' Above Floor, Add	3.78		
		For Elevated Installation >30' To 35' Above Floor, Add	4.32		
		For Elevated Installation >35' To 40' Above Floor, Add	5.40		
		For Elevated Installation >40' Above Floor, Add	5.94		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0065	LF	1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	17.95	4.02
		For >250 To 500, Deduct	-0.33	
		For >500 To 1,000, Deduct	-1.06	
		For >1,000, Deduct	-1.51	
		For Installation In Metal Stud Wall, Add	1.14	
		For Installation In Wood Stud Wall (Includes Drilling), Add	2.86	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.72	
		For Work In Restricted Working Space, Add	3.43	
		For Elevated Installation >10' To 15' Above Floor, Add	1.14	
		For Elevated Installation >15' To 20' Above Floor, Add	2.29	
		For Elevated Installation >20' To 25' Above Floor, Add	2.86	
		For Elevated Installation >25' To 30' Above Floor, Add	4.00	
		For Elevated Installation >30' To 35' Above Floor, Add	4.58	
		For Elevated Installation >35' To 40' Above Floor, Add	5.72	
		For Elevated Installation >40' Above Floor, Add	6.29	
26 05 33 13-0066	LF	1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	20.55	4.52
		For >250 To 500, Deduct	-0.40	
		For >500 To 1,000, Deduct	-1.23	
		For >1,000, Deduct	-1.74	
		For Installation In Metal Stud Wall, Add	1.26	
		For Installation In Wood Stud Wall (Includes Drilling), Add	3.14	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.89	
		For Work In Restricted Working Space, Add	3.77	
		For Elevated Installation >10' To 15' Above Floor, Add	1.26	
		For Elevated Installation >15' To 20' Above Floor, Add	2.51	
		For Elevated Installation >20' To 25' Above Floor, Add	3.14	
		For Elevated Installation >25' To 30' Above Floor, Add	4.40	
		For Elevated Installation >30' To 35' Above Floor, Add	5.03	
		For Elevated Installation >35' To 40' Above Floor, Add	6.29	
		For Elevated Installation >40' Above Floor, Add	6.91	
26 05 33 13-0067	LF	2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	26.12	5.53
		For >250 To 500, Deduct	-0.53	
		For >500 To 1,000, Deduct	-1.57	
		For >1,000, Deduct	-2.23	
		For Installation In Metal Stud Wall, Add	1.55	
		For Installation In Wood Stud Wall (Includes Drilling), Add	3.86	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.32	
		For Work In Restricted Working Space, Add	4.64	
		For Elevated Installation >10' To 15' Above Floor, Add	1.55	
		For Elevated Installation >15' To 20' Above Floor, Add	3.09	
		For Elevated Installation >20' To 25' Above Floor, Add	3.86	
		For Elevated Installation >25' To 30' Above Floor, Add	5.41	
		For Elevated Installation >30' To 35' Above Floor, Add	6.18	
		For Elevated Installation >35' To 40' Above Floor, Add	7.73	
		For Elevated Installation >40' Above Floor, Add	8.50	
26 05 33 13-0068	LF	2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	38.67	7.54
		For >250 To 500, Deduct	-0.88	
		For >500 To 1,000, Deduct	-2.38	
		For >1,000, Deduct	-3.34	
		For Installation In Metal Stud Wall, Add	2.10	
		For Installation In Wood Stud Wall (Includes Drilling), Add	5.25	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	3.15	
		For Work In Restricted Working Space, Add	6.30	
		For Elevated Installation >10' To 15' Above Floor, Add	2.10	
		For Elevated Installation >15' To 20' Above Floor, Add	4.20	
		For Elevated Installation >20' To 25' Above Floor, Add	5.25	
		For Elevated Installation >25' To 30' Above Floor, Add	7.35	
		For Elevated Installation >30' To 35' Above Floor, Add	8.40	
		For Elevated Installation >35' To 40' Above Floor, Add	10.50	
		For Elevated Installation >40' Above Floor, Add	11.54	
26 05 33 13-0069	LF	3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	50.77	10.05
		For >250 To 500, Deduct	-1.13	
		For >500 To 1,000, Deduct	-3.10	
		For >1,000, Deduct	-4.37	
		For Installation In Metal Stud Wall, Add	2.83	
		For Installation In Wood Stud Wall (Includes Drilling), Add	7.07	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	4.24	
		For Work In Restricted Working Space, Add	8.48	
		For Elevated Installation >10' To 15' Above Floor, Add	2.83	
		For Elevated Installation >15' To 20' Above Floor, Add	5.65	
		For Elevated Installation >20' To 25' Above Floor, Add	7.07	
		For Elevated Installation >25' To 30' Above Floor, Add	9.89	
		For Elevated Installation >30' To 35' Above Floor, Add	11.31	
		For Elevated Installation >35' To 40' Above Floor, Add	14.14	
		For Elevated Installation >40' Above Floor, Add	15.55	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0070 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	61.00	12.57
For >250 To 500, Deduct	-1.37	
For >500 To 1,000, Deduct	-3.74	
For >1,000, Deduct	-5.26	
For Installation In Metal Stud Wall, Add	3.36	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.39	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	5.03	
For Work In Restricted Working Space, Add	10.07	
For Elevated Installation >10' To 15' Above Floor, Add	3.36	
For Elevated Installation >15' To 20' Above Floor, Add	6.71	
For Elevated Installation >20' To 25' Above Floor, Add	8.39	
For Elevated Installation >25' To 30' Above Floor, Add	11.74	
For Elevated Installation >30' To 35' Above Floor, Add	13.42	
For Elevated Installation >35' To 40' Above Floor, Add	16.78	
For Elevated Installation >40' Above Floor, Add	18.45	
26 05 33 13-0071 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	72.24	15.07
For >250 To 500, Deduct	-1.68	
For >500 To 1,000, Deduct	-4.45	
For >1,000, Deduct	-6.26	
For Installation In Metal Stud Wall, Add	3.87	
For Installation In Wood Stud Wall (Includes Drilling), Add	9.68	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	5.81	
For Work In Restricted Working Space, Add	11.61	
For Elevated Installation >10' To 15' Above Floor, Add	3.87	
For Elevated Installation >15' To 20' Above Floor, Add	7.74	
For Elevated Installation >20' To 25' Above Floor, Add	9.68	
For Elevated Installation >25' To 30' Above Floor, Add	13.55	
For Elevated Installation >30' To 35' Above Floor, Add	15.48	
For Elevated Installation >35' To 40' Above Floor, Add	19.36	
For Elevated Installation >40' Above Floor, Add	21.29	
26 05 33 13-0072 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	112.48	19.10
For >250 To 500, Deduct	-3.24	
For >500 To 1,000, Deduct	-7.24	
For >1,000, Deduct	-10.05	
For Installation In Metal Stud Wall, Add	4.78	
For Installation In Wood Stud Wall (Includes Drilling), Add	11.94	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	7.16	
For Work In Restricted Working Space, Add	14.33	
For Elevated Installation >10' To 15' Above Floor, Add	4.78	
For Elevated Installation >15' To 20' Above Floor, Add	9.55	
For Elevated Installation >20' To 25' Above Floor, Add	11.94	
For Elevated Installation >25' To 30' Above Floor, Add	16.71	
For Elevated Installation >30' To 35' Above Floor, Add	19.10	
For Elevated Installation >35' To 40' Above Floor, Add	23.88	
For Elevated Installation >40' Above Floor, Add	26.26	
26 05 33 13-0073 LF 6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	151.31	24.12
For >250 To 500, Deduct	-4.55	
For >500 To 1,000, Deduct	-9.84	
For >1,000, Deduct	-13.62	
For Installation In Metal Stud Wall, Add	6.03	
For Installation In Wood Stud Wall (Includes Drilling), Add	15.08	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	9.05	
For Work In Restricted Working Space, Add	18.10	
For Elevated Installation >10' To 15' Above Floor, Add	6.03	
For Elevated Installation >15' To 20' Above Floor, Add	12.06	
For Elevated Installation >20' To 25' Above Floor, Add	15.08	
For Elevated Installation >25' To 30' Above Floor, Add	21.11	
For Elevated Installation >30' To 35' Above Floor, Add	24.13	
For Elevated Installation >35' To 40' Above Floor, Add	30.16	
For Elevated Installation >40' Above Floor, Add	33.18	
26 05 33 13-0074 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow (26 05 33 13-0060)		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0075 EA 1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	36.96	12.44
For Work In Restricted Working Space, Add	9.36	
For Elevated Installation >10' To 15' Above Floor, Add	3.12	
For Elevated Installation >15' To 20' Above Floor, Add	6.24	
For Elevated Installation >20' To 25' Above Floor, Add	7.80	
For Elevated Installation >25' To 30' Above Floor, Add	10.92	
For Elevated Installation >30' To 35' Above Floor, Add	12.48	
For Elevated Installation >35' To 40' Above Floor, Add	15.60	
For Elevated Installation >40' Above Floor, Add	17.16	
26 05 33 13-0076 EA 3/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	46.39	15.45
For Work In Restricted Working Space, Add	11.64	
For Elevated Installation >10' To 15' Above Floor, Add	3.88	
For Elevated Installation >15' To 20' Above Floor, Add	7.76	
For Elevated Installation >20' To 25' Above Floor, Add	9.70	
For Elevated Installation >25' To 30' Above Floor, Add	13.58	
For Elevated Installation >30' To 35' Above Floor, Add	15.52	
For Elevated Installation >35' To 40' Above Floor, Add	19.40	
For Elevated Installation >40' Above Floor, Add	21.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0077 EA 1" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	59.00	18.97
For Work In Restricted Working Space, Add	14.19	
For Elevated Installation >10' To 15' Above Floor, Add	4.73	
For Elevated Installation >15' To 20' Above Floor, Add	9.46	
For Elevated Installation >20' To 25' Above Floor, Add	11.83	
For Elevated Installation >25' To 30' Above Floor, Add	16.56	
For Elevated Installation >30' To 35' Above Floor, Add	18.92	
For Elevated Installation >35' To 40' Above Floor, Add	23.66	
For Elevated Installation >40' Above Floor, Add	26.02	
26 05 33 13-0078 EA 1-1/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	74.92	21.99
For Work In Restricted Working Space, Add	16.48	
For Elevated Installation >10' To 15' Above Floor, Add	5.49	
For Elevated Installation >15' To 20' Above Floor, Add	10.99	
For Elevated Installation >20' To 25' Above Floor, Add	13.73	
For Elevated Installation >25' To 30' Above Floor, Add	19.23	
For Elevated Installation >30' To 35' Above Floor, Add	21.97	
For Elevated Installation >35' To 40' Above Floor, Add	27.47	
For Elevated Installation >40' Above Floor, Add	30.21	
26 05 33 13-0079 EA 1-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	86.88	25.26
For Work In Restricted Working Space, Add	18.91	
For Elevated Installation >10' To 15' Above Floor, Add	6.30	
For Elevated Installation >15' To 20' Above Floor, Add	12.61	
For Elevated Installation >20' To 25' Above Floor, Add	15.76	
For Elevated Installation >25' To 30' Above Floor, Add	22.06	
For Elevated Installation >30' To 35' Above Floor, Add	25.22	
For Elevated Installation >35' To 40' Above Floor, Add	31.52	
For Elevated Installation >40' Above Floor, Add	34.67	
26 05 33 13-0080 EA 2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	102.13	27.77
For Work In Restricted Working Space, Add	20.81	
For Elevated Installation >10' To 15' Above Floor, Add	6.94	
For Elevated Installation >15' To 20' Above Floor, Add	13.87	
For Elevated Installation >20' To 25' Above Floor, Add	17.34	
For Elevated Installation >25' To 30' Above Floor, Add	24.27	
For Elevated Installation >30' To 35' Above Floor, Add	27.74	
For Elevated Installation >35' To 40' Above Floor, Add	34.68	
For Elevated Installation >40' Above Floor, Add	38.14	
26 05 33 13-0081 EA 2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	145.10	34.68
For Work In Restricted Working Space, Add	26.01	
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.34	
For Elevated Installation >20' To 25' Above Floor, Add	21.67	
For Elevated Installation >25' To 30' Above Floor, Add	30.34	
For Elevated Installation >30' To 35' Above Floor, Add	34.68	
For Elevated Installation >35' To 40' Above Floor, Add	43.35	
For Elevated Installation >40' Above Floor, Add	47.68	
26 05 33 13-0082 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	205.07	47.25
For Work In Restricted Working Space, Add	35.43	
For Elevated Installation >10' To 15' Above Floor, Add	11.81	
For Elevated Installation >15' To 20' Above Floor, Add	23.62	
For Elevated Installation >20' To 25' Above Floor, Add	29.53	
For Elevated Installation >25' To 30' Above Floor, Add	41.34	
For Elevated Installation >30' To 35' Above Floor, Add	47.24	
For Elevated Installation >35' To 40' Above Floor, Add	59.05	
For Elevated Installation >40' Above Floor, Add	64.96	
26 05 33 13-0083 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	269.17	53.28
For Work In Restricted Working Space, Add	39.96	
For Elevated Installation >10' To 15' Above Floor, Add	13.32	
For Elevated Installation >15' To 20' Above Floor, Add	26.64	
For Elevated Installation >20' To 25' Above Floor, Add	33.30	
For Elevated Installation >25' To 30' Above Floor, Add	46.62	
For Elevated Installation >30' To 35' Above Floor, Add	53.28	
For Elevated Installation >35' To 40' Above Floor, Add	66.61	
For Elevated Installation >40' Above Floor, Add	73.27	
26 05 33 13-0084 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	330.06	69.37
For Work In Restricted Working Space, Add	52.01	
For Elevated Installation >10' To 15' Above Floor, Add	17.34	
For Elevated Installation >15' To 20' Above Floor, Add	34.67	
For Elevated Installation >20' To 25' Above Floor, Add	43.34	
For Elevated Installation >25' To 30' Above Floor, Add	60.68	
For Elevated Installation >30' To 35' Above Floor, Add	69.35	
For Elevated Installation >35' To 40' Above Floor, Add	86.69	
For Elevated Installation >40' Above Floor, Add	95.35	
26 05 33 13-0085 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	539.84	113.09
For Work In Restricted Working Space, Add	84.82	
For Elevated Installation >10' To 15' Above Floor, Add	28.27	
For Elevated Installation >15' To 20' Above Floor, Add	56.55	
For Elevated Installation >20' To 25' Above Floor, Add	70.69	
For Elevated Installation >25' To 30' Above Floor, Add	98.96	
For Elevated Installation >30' To 35' Above Floor, Add	113.10	
For Elevated Installation >35' To 40' Above Floor, Add	141.37	
For Elevated Installation >40' Above Floor, Add	155.51	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0086	EA	6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	811.53 127.40 42.47 84.94 106.17 148.64 169.87 212.34 233.57	169.89
26 05 33 13-0087		Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow (26 05 33 13-0060) See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0088	EA	1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	36.96 9.36 3.12 6.24 7.80 10.92 12.48 15.60 17.16	12.44
26 05 33 13-0089	EA	3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	46.39 11.64 3.88 7.76 9.70 13.58 15.52 19.40 21.33	15.45
26 05 33 13-0090	EA	1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	59.00 14.19 4.73 9.46 11.83 16.56 18.92 23.66 26.02	18.97
26 05 33 13-0091	EA	1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	74.92 16.48 5.49 10.99 13.73 19.23 21.97 27.47 30.21	21.99
26 05 33 13-0092	EA	1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	86.89 18.91 6.30 12.61 15.76 22.06 25.22 31.52 34.67	25.26
26 05 33 13-0093	EA	2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	102.13 20.81 6.94 13.87 17.34 24.27 27.74 34.68 38.14	27.77
26 05 33 13-0094	EA	2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	142.73 26.01 8.67 17.34 21.67 30.34 34.68 43.35 47.68	34.68
26 05 33 13-0095	EA	3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	195.83 35.43 11.81 23.62 29.53 41.34 47.24 59.05 64.96	47.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0096 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	256.18	53.28
For Work In Restricted Working Space, Add	39.96	
For Elevated Installation >10' To 15' Above Floor, Add	13.32	
For Elevated Installation >15' To 20' Above Floor, Add	26.64	
For Elevated Installation >20' To 25' Above Floor, Add	33.30	
For Elevated Installation >25' To 30' Above Floor, Add	46.62	
For Elevated Installation >30' To 35' Above Floor, Add	53.28	
For Elevated Installation >35' To 40' Above Floor, Add	66.61	
For Elevated Installation >40' Above Floor, Add	73.27	
26 05 33 13-0097 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	312.78	69.37
For Work In Restricted Working Space, Add	52.01	
For Elevated Installation >10' To 15' Above Floor, Add	17.34	
For Elevated Installation >15' To 20' Above Floor, Add	34.67	
For Elevated Installation >20' To 25' Above Floor, Add	43.34	
For Elevated Installation >25' To 30' Above Floor, Add	60.68	
For Elevated Installation >30' To 35' Above Floor, Add	69.35	
For Elevated Installation >35' To 40' Above Floor, Add	86.69	
For Elevated Installation >40' Above Floor, Add	95.35	
26 05 33 13-0098 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	539.84	113.09
For Work In Restricted Working Space, Add	84.82	
For Elevated Installation >10' To 15' Above Floor, Add	28.27	
For Elevated Installation >15' To 20' Above Floor, Add	56.55	
For Elevated Installation >20' To 25' Above Floor, Add	70.69	
For Elevated Installation >25' To 30' Above Floor, Add	98.96	
For Elevated Installation >30' To 35' Above Floor, Add	113.10	
For Elevated Installation >35' To 40' Above Floor, Add	141.37	
For Elevated Installation >40' Above Floor, Add	155.51	
26 05 33 13-0099 EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	811.53	169.89
For Work In Restricted Working Space, Add	127.40	
For Elevated Installation >10' To 15' Above Floor, Add	42.47	
For Elevated Installation >15' To 20' Above Floor, Add	84.94	
For Elevated Installation >20' To 25' Above Floor, Add	106.17	
For Elevated Installation >25' To 30' Above Floor, Add	148.64	
For Elevated Installation >30' To 35' Above Floor, Add	169.87	
For Elevated Installation >35' To 40' Above Floor, Add	212.34	
For Elevated Installation >40' Above Floor, Add	233.57	
26 05 33 13-0100 Rigid Galvanized Steel (RGS) 12" Large Radius Elbow (26 05 33 13-0060)		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0101 EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	89.91	31.04
For Work In Restricted Working Space, Add	18.62	
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.41	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.72	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
26 05 33 13-0102 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	103.65	35.94
For Work In Restricted Working Space, Add	21.56	
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
26 05 33 13-0103 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	119.74	40.84
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
26 05 33 13-0104 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	134.70	44.92
For Work In Restricted Working Space, Add	26.95	
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	

26 05 33 13-0105 Rigid Galvanized Steel (RGS) 15" Large Radius Elbow (26 05 33 13-0060)
See CSI section 26 05 33 13-2319 for conduit field bending.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0106 EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	97.14	31.04
For Work In Restricted Working Space, Add	18.62	
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.41	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.72	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
26 05 33 13-0107 EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	112.93	35.94
For Work In Restricted Working Space, Add	21.56	
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
26 05 33 13-0108 EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	123.97	40.84
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
26 05 33 13-0109 EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	139.42	44.92
For Work In Restricted Working Space, Add	26.95	
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	
26 05 33 13-0110 EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	184.67	56.36
For Work In Restricted Working Space, Add	33.81	
For Elevated Installation >10' To 15' Above Floor, Add	11.27	
For Elevated Installation >15' To 20' Above Floor, Add	22.54	
For Elevated Installation >20' To 25' Above Floor, Add	28.18	
For Elevated Installation >25' To 30' Above Floor, Add	39.45	
For Elevated Installation >30' To 35' Above Floor, Add	45.08	
For Elevated Installation >35' To 40' Above Floor, Add	56.36	
For Elevated Installation >40' Above Floor, Add	61.99	
26 05 33 13-0111 EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	248.72	76.77
For Work In Restricted Working Space, Add	46.07	
For Elevated Installation >10' To 15' Above Floor, Add	15.36	
For Elevated Installation >15' To 20' Above Floor, Add	30.71	
For Elevated Installation >20' To 25' Above Floor, Add	38.39	
For Elevated Installation >25' To 30' Above Floor, Add	53.74	
For Elevated Installation >30' To 35' Above Floor, Add	61.42	
For Elevated Installation >35' To 40' Above Floor, Add	76.78	
For Elevated Installation >40' Above Floor, Add	84.45	
26 05 33 13-0112 Rigid Galvanized Steel (RGS) 18" Large Radius Elbow (26 05 33 13-0060)		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0113 EA 1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	97.48	31.04
For Work In Restricted Working Space, Add	18.62	
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.41	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.72	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
26 05 33 13-0114 EA 1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	112.02	35.94
For Work In Restricted Working Space, Add	21.56	
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
26 05 33 13-0115 EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	128.54	40.84
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0116 EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	149.65	44.92
For Work In Restricted Working Space, Add	26.95	
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	
26 05 33 13-0117 EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	194.20	56.36
For Work In Restricted Working Space, Add	33.81	
For Elevated Installation >10' To 15' Above Floor, Add	11.27	
For Elevated Installation >15' To 20' Above Floor, Add	22.54	
For Elevated Installation >20' To 25' Above Floor, Add	28.18	
For Elevated Installation >25' To 30' Above Floor, Add	39.45	
For Elevated Installation >30' To 35' Above Floor, Add	45.08	
For Elevated Installation >35' To 40' Above Floor, Add	56.36	
For Elevated Installation >40' Above Floor, Add	61.99	
26 05 33 13-0118 EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	256.41	76.77
For Work In Restricted Working Space, Add	46.07	
For Elevated Installation >10' To 15' Above Floor, Add	15.36	
For Elevated Installation >15' To 20' Above Floor, Add	30.71	
For Elevated Installation >20' To 25' Above Floor, Add	38.39	
For Elevated Installation >25' To 30' Above Floor, Add	53.74	
For Elevated Installation >30' To 35' Above Floor, Add	61.42	
For Elevated Installation >35' To 40' Above Floor, Add	76.78	
For Elevated Installation >40' Above Floor, Add	84.45	
26 05 33 13-0119 EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	318.55	86.57
For Work In Restricted Working Space, Add	51.95	
For Elevated Installation >10' To 15' Above Floor, Add	17.32	
For Elevated Installation >15' To 20' Above Floor, Add	34.63	
For Elevated Installation >20' To 25' Above Floor, Add	43.29	
For Elevated Installation >25' To 30' Above Floor, Add	60.61	
For Elevated Installation >30' To 35' Above Floor, Add	69.26	
For Elevated Installation >35' To 40' Above Floor, Add	86.58	
For Elevated Installation >40' Above Floor, Add	95.24	
26 05 33 13-0120 EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	387.87	112.71
For Work In Restricted Working Space, Add	67.63	
For Elevated Installation >10' To 15' Above Floor, Add	22.54	
For Elevated Installation >15' To 20' Above Floor, Add	45.08	
For Elevated Installation >20' To 25' Above Floor, Add	56.36	
For Elevated Installation >25' To 30' Above Floor, Add	78.90	
For Elevated Installation >30' To 35' Above Floor, Add	90.17	
For Elevated Installation >35' To 40' Above Floor, Add	112.71	
For Elevated Installation >40' Above Floor, Add	123.98	
26 05 33 13-0121 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow (26 05 33 13-0060)		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0122 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	108.99	31.04
For Work In Restricted Working Space, Add	18.62	
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.41	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.72	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
26 05 33 13-0123 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	123.31	35.94
For Work In Restricted Working Space, Add	21.56	
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
26 05 33 13-0124 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	137.00	40.84
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
26 05 33 13-0125 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	162.12	44.92
For Work In Restricted Working Space, Add	26.95	
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0126 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	211.21	56.36
For Work In Restricted Working Space, Add	33.81	
For Elevated Installation >10' To 15' Above Floor, Add	11.27	
For Elevated Installation >15' To 20' Above Floor, Add	22.54	
For Elevated Installation >20' To 25' Above Floor, Add	28.18	
For Elevated Installation >25' To 30' Above Floor, Add	39.45	
For Elevated Installation >30' To 35' Above Floor, Add	45.08	
For Elevated Installation >35' To 40' Above Floor, Add	56.36	
For Elevated Installation >40' Above Floor, Add	61.99	
26 05 33 13-0127 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	283.07	76.77
For Work In Restricted Working Space, Add	46.07	
For Elevated Installation >10' To 15' Above Floor, Add	15.36	
For Elevated Installation >15' To 20' Above Floor, Add	30.71	
For Elevated Installation >20' To 25' Above Floor, Add	38.39	
For Elevated Installation >25' To 30' Above Floor, Add	53.74	
For Elevated Installation >30' To 35' Above Floor, Add	61.42	
For Elevated Installation >35' To 40' Above Floor, Add	76.78	
For Elevated Installation >40' Above Floor, Add	84.45	
26 05 33 13-0128 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	344.47	86.57
For Work In Restricted Working Space, Add	51.95	
For Elevated Installation >10' To 15' Above Floor, Add	17.32	
For Elevated Installation >15' To 20' Above Floor, Add	34.63	
For Elevated Installation >20' To 25' Above Floor, Add	43.29	
For Elevated Installation >25' To 30' Above Floor, Add	60.61	
For Elevated Installation >30' To 35' Above Floor, Add	69.26	
For Elevated Installation >35' To 40' Above Floor, Add	86.58	
For Elevated Installation >40' Above Floor, Add	95.24	
26 05 33 13-0129 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	408.54	112.71
For Work In Restricted Working Space, Add	67.63	
For Elevated Installation >10' To 15' Above Floor, Add	22.54	
For Elevated Installation >15' To 20' Above Floor, Add	45.08	
For Elevated Installation >20' To 25' Above Floor, Add	56.36	
For Elevated Installation >25' To 30' Above Floor, Add	78.90	
For Elevated Installation >30' To 35' Above Floor, Add	90.17	
For Elevated Installation >35' To 40' Above Floor, Add	112.71	
For Elevated Installation >40' Above Floor, Add	123.98	
26 05 33 13-0130 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow (26 05 33 13-0060)		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0131 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	108.30	31.04
For Work In Restricted Working Space, Add	18.62	
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.42	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.73	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
26 05 33 13-0132 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	131.71	35.94
For Work In Restricted Working Space, Add	21.56	
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
26 05 33 13-0133 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	146.10	40.84
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
26 05 33 13-0134 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	174.01	44.92
For Work In Restricted Working Space, Add	26.95	
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	
26 05 33 13-0135 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	227.53	56.36
For Work In Restricted Working Space, Add	33.81	
For Elevated Installation >10' To 15' Above Floor, Add	11.27	
For Elevated Installation >15' To 20' Above Floor, Add	22.54	
For Elevated Installation >20' To 25' Above Floor, Add	28.18	
For Elevated Installation >25' To 30' Above Floor, Add	39.45	
For Elevated Installation >30' To 35' Above Floor, Add	45.08	
For Elevated Installation >35' To 40' Above Floor, Add	56.36	
For Elevated Installation >40' Above Floor, Add	61.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0136 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	304.13 46.07 15.36 30.71 38.39 53.74 61.42 76.78 84.45	76.77
26 05 33 13-0137 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	370.10 51.95 17.32 34.63 43.29 60.61 69.26 86.58 95.24	86.57
26 05 33 13-0138 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	446.47 67.63 22.54 45.08 56.36 78.90 90.17 112.71 123.98	112.71
26 05 33 13-0139 EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	651.47 110.26 36.75 73.51 91.89 128.64 147.02 183.77 202.15	183.77
26 05 33 13-0140 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow (26 05 33 13-0060) See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0141 EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	114.44 18.62 6.21 12.41 15.52 21.72 24.83 31.04 34.14	31.04
26 05 33 13-0142 EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	135.85 21.56 7.19 14.37 17.97 25.15 28.75 35.94 39.53	35.94
26 05 33 13-0143 EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	162.03 24.50 8.17 16.33 20.42 28.58 32.67 40.84 44.92	40.84
26 05 33 13-0144 EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	183.29 26.95 8.98 17.97 22.46 31.44 35.94 44.92 49.41	44.92
26 05 33 13-0145 EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	246.88 33.81 11.27 22.54 28.18 39.45 45.08 56.36 61.99	56.36

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0146 EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	322.14	76.77
For Work In Restricted Working Space, Add	46.07	
For Elevated Installation >10' To 15' Above Floor, Add	15.36	
For Elevated Installation >15' To 20' Above Floor, Add	30.71	
For Elevated Installation >20' To 25' Above Floor, Add	38.39	
For Elevated Installation >25' To 30' Above Floor, Add	53.74	
For Elevated Installation >30' To 35' Above Floor, Add	61.42	
For Elevated Installation >35' To 40' Above Floor, Add	76.78	
For Elevated Installation >40' Above Floor, Add	84.45	
26 05 33 13-0147 EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	403.20	86.57
For Work In Restricted Working Space, Add	51.95	
For Elevated Installation >10' To 15' Above Floor, Add	17.32	
For Elevated Installation >15' To 20' Above Floor, Add	34.63	
For Elevated Installation >20' To 25' Above Floor, Add	43.29	
For Elevated Installation >25' To 30' Above Floor, Add	60.61	
For Elevated Installation >30' To 35' Above Floor, Add	69.26	
For Elevated Installation >35' To 40' Above Floor, Add	86.58	
For Elevated Installation >40' Above Floor, Add	95.24	
26 05 33 13-0148 EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	464.32	112.71
For Work In Restricted Working Space, Add	67.63	
For Elevated Installation >10' To 15' Above Floor, Add	22.54	
For Elevated Installation >15' To 20' Above Floor, Add	45.08	
For Elevated Installation >20' To 25' Above Floor, Add	56.36	
For Elevated Installation >25' To 30' Above Floor, Add	78.90	
For Elevated Installation >30' To 35' Above Floor, Add	90.17	
For Elevated Installation >35' To 40' Above Floor, Add	112.71	
For Elevated Installation >40' Above Floor, Add	123.98	
26 05 33 13-0149 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	797.08	183.77
For Work In Restricted Working Space, Add	110.26	
For Elevated Installation >10' To 15' Above Floor, Add	36.75	
For Elevated Installation >15' To 20' Above Floor, Add	73.51	
For Elevated Installation >20' To 25' Above Floor, Add	91.89	
For Elevated Installation >25' To 30' Above Floor, Add	128.64	
For Elevated Installation >30' To 35' Above Floor, Add	147.02	
For Elevated Installation >35' To 40' Above Floor, Add	183.77	
For Elevated Installation >40' Above Floor, Add	202.15	
26 05 33 13-0150 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	1,024.03	276.07
For Work In Restricted Working Space, Add	165.64	
For Elevated Installation >10' To 15' Above Floor, Add	55.21	
For Elevated Installation >15' To 20' Above Floor, Add	110.43	
For Elevated Installation >20' To 25' Above Floor, Add	138.03	
For Elevated Installation >25' To 30' Above Floor, Add	193.25	
For Elevated Installation >30' To 35' Above Floor, Add	220.85	
For Elevated Installation >35' To 40' Above Floor, Add	276.07	
For Elevated Installation >40' Above Floor, Add	303.67	
26 05 33 13-0151 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow (26 05 33 13-0060)		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0152 EA 1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	123.46	31.04
For Work In Restricted Working Space, Add	18.62	
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.42	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.73	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
26 05 33 13-0153 EA 1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	146.85	35.94
For Work In Restricted Working Space, Add	21.56	
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
26 05 33 13-0154 EA 1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	173.73	40.84
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
26 05 33 13-0155 EA 2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	195.52	44.92
For Work In Restricted Working Space, Add	26.95	
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0156 EA 2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	261.68	56.36
For Work In Restricted Working Space, Add	33.81	
For Elevated Installation >10' To 15' Above Floor, Add	11.27	
For Elevated Installation >15' To 20' Above Floor, Add	22.54	
For Elevated Installation >20' To 25' Above Floor, Add	28.18	
For Elevated Installation >25' To 30' Above Floor, Add	39.45	
For Elevated Installation >30' To 35' Above Floor, Add	45.08	
For Elevated Installation >35' To 40' Above Floor, Add	56.36	
For Elevated Installation >40' Above Floor, Add	61.99	
26 05 33 13-0157 EA 3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	348.52	76.77
For Work In Restricted Working Space, Add	46.07	
For Elevated Installation >10' To 15' Above Floor, Add	15.36	
For Elevated Installation >15' To 20' Above Floor, Add	30.71	
For Elevated Installation >20' To 25' Above Floor, Add	38.39	
For Elevated Installation >25' To 30' Above Floor, Add	53.74	
For Elevated Installation >30' To 35' Above Floor, Add	61.42	
For Elevated Installation >35' To 40' Above Floor, Add	76.78	
For Elevated Installation >40' Above Floor, Add	84.45	
26 05 33 13-0158 EA 3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	429.66	86.57
For Work In Restricted Working Space, Add	51.95	
For Elevated Installation >10' To 15' Above Floor, Add	17.32	
For Elevated Installation >15' To 20' Above Floor, Add	34.63	
For Elevated Installation >20' To 25' Above Floor, Add	43.29	
For Elevated Installation >25' To 30' Above Floor, Add	60.61	
For Elevated Installation >30' To 35' Above Floor, Add	69.26	
For Elevated Installation >35' To 40' Above Floor, Add	86.58	
For Elevated Installation >40' Above Floor, Add	95.24	
26 05 33 13-0159 EA 4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	540.46	112.71
For Work In Restricted Working Space, Add	67.63	
For Elevated Installation >10' To 15' Above Floor, Add	22.54	
For Elevated Installation >15' To 20' Above Floor, Add	45.08	
For Elevated Installation >20' To 25' Above Floor, Add	56.36	
For Elevated Installation >25' To 30' Above Floor, Add	78.90	
For Elevated Installation >30' To 35' Above Floor, Add	90.17	
For Elevated Installation >35' To 40' Above Floor, Add	112.71	
For Elevated Installation >40' Above Floor, Add	123.98	
26 05 33 13-0160 EA 5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	902.12	183.77
For Work In Restricted Working Space, Add	110.26	
For Elevated Installation >10' To 15' Above Floor, Add	36.75	
For Elevated Installation >15' To 20' Above Floor, Add	73.51	
For Elevated Installation >20' To 25' Above Floor, Add	91.89	
For Elevated Installation >25' To 30' Above Floor, Add	128.64	
For Elevated Installation >30' To 35' Above Floor, Add	147.02	
For Elevated Installation >35' To 40' Above Floor, Add	183.77	
For Elevated Installation >40' Above Floor, Add	202.15	
26 05 33 13-0161 EA 6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,114.99	276.07
For Work In Restricted Working Space, Add	165.64	
For Elevated Installation >10' To 15' Above Floor, Add	55.21	
For Elevated Installation >15' To 20' Above Floor, Add	110.43	
For Elevated Installation >20' To 25' Above Floor, Add	138.03	
For Elevated Installation >25' To 30' Above Floor, Add	193.25	
For Elevated Installation >30' To 35' Above Floor, Add	220.85	
For Elevated Installation >35' To 40' Above Floor, Add	276.07	
For Elevated Installation >40' Above Floor, Add	303.67	
26 05 33 13-0162 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow (26 05 33 13-0060)		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0163 EA 1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	130.96	31.04
For Work In Restricted Working Space, Add	18.62	
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.42	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.73	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
26 05 33 13-0164 EA 1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	155.33	35.94
For Work In Restricted Working Space, Add	21.56	
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
26 05 33 13-0165 EA 1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	181.12	40.84
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0166 EA 2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	218.36	44.92
For Work In Restricted Working Space, Add	26.95	
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	
26 05 33 13-0167 EA 2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	288.98	56.36
For Work In Restricted Working Space, Add	33.81	
For Elevated Installation >10' To 15' Above Floor, Add	11.27	
For Elevated Installation >15' To 20' Above Floor, Add	22.54	
For Elevated Installation >20' To 25' Above Floor, Add	28.18	
For Elevated Installation >25' To 30' Above Floor, Add	39.45	
For Elevated Installation >30' To 35' Above Floor, Add	45.08	
For Elevated Installation >35' To 40' Above Floor, Add	56.36	
For Elevated Installation >40' Above Floor, Add	61.99	
26 05 33 13-0168 EA 3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	375.11	76.77
For Work In Restricted Working Space, Add	46.07	
For Elevated Installation >10' To 15' Above Floor, Add	15.36	
For Elevated Installation >15' To 20' Above Floor, Add	30.71	
For Elevated Installation >20' To 25' Above Floor, Add	38.39	
For Elevated Installation >25' To 30' Above Floor, Add	53.74	
For Elevated Installation >30' To 35' Above Floor, Add	61.42	
For Elevated Installation >35' To 40' Above Floor, Add	76.78	
For Elevated Installation >40' Above Floor, Add	84.45	
26 05 33 13-0169 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	462.93	86.57
For Work In Restricted Working Space, Add	51.95	
For Elevated Installation >10' To 15' Above Floor, Add	17.32	
For Elevated Installation >15' To 20' Above Floor, Add	34.63	
For Elevated Installation >20' To 25' Above Floor, Add	43.29	
For Elevated Installation >25' To 30' Above Floor, Add	60.61	
For Elevated Installation >30' To 35' Above Floor, Add	69.26	
For Elevated Installation >35' To 40' Above Floor, Add	86.58	
For Elevated Installation >40' Above Floor, Add	95.24	
26 05 33 13-0170 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	580.88	112.71
For Work In Restricted Working Space, Add	67.63	
For Elevated Installation >10' To 15' Above Floor, Add	22.54	
For Elevated Installation >15' To 20' Above Floor, Add	45.08	
For Elevated Installation >20' To 25' Above Floor, Add	56.36	
For Elevated Installation >25' To 30' Above Floor, Add	78.90	
For Elevated Installation >30' To 35' Above Floor, Add	90.17	
For Elevated Installation >35' To 40' Above Floor, Add	112.71	
For Elevated Installation >40' Above Floor, Add	123.98	
26 05 33 13-0171 EA 5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	935.01	183.77
For Work In Restricted Working Space, Add	110.26	
For Elevated Installation >10' To 15' Above Floor, Add	36.75	
For Elevated Installation >15' To 20' Above Floor, Add	73.51	
For Elevated Installation >20' To 25' Above Floor, Add	91.89	
For Elevated Installation >25' To 30' Above Floor, Add	128.64	
For Elevated Installation >30' To 35' Above Floor, Add	147.02	
For Elevated Installation >35' To 40' Above Floor, Add	183.77	
For Elevated Installation >40' Above Floor, Add	202.15	
26 05 33 13-0172 EA 6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	1,133.39	276.07
For Work In Restricted Working Space, Add	165.64	
For Elevated Installation >10' To 15' Above Floor, Add	55.21	
For Elevated Installation >15' To 20' Above Floor, Add	110.43	
For Elevated Installation >20' To 25' Above Floor, Add	138.03	
For Elevated Installation >25' To 30' Above Floor, Add	193.25	
For Elevated Installation >30' To 35' Above Floor, Add	220.85	
For Elevated Installation >35' To 40' Above Floor, Add	276.07	
For Elevated Installation >40' Above Floor, Add	303.67	
26 05 33 13-0173 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0060)		
26 05 33 13-0174 EA 1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	16.44	8.01
For Work In Restricted Working Space, Add	4.81	
For Elevated Installation >10' To 15' Above Floor, Add	1.60	
For Elevated Installation >15' To 20' Above Floor, Add	3.21	
For Elevated Installation >20' To 25' Above Floor, Add	4.01	
For Elevated Installation >25' To 30' Above Floor, Add	5.61	
For Elevated Installation >30' To 35' Above Floor, Add	6.41	
For Elevated Installation >35' To 40' Above Floor, Add	8.02	
For Elevated Installation >40' Above Floor, Add	8.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.81	
26 05 33 13-0175 EA 3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	17.63	8.55
For Work In Restricted Working Space, Add	5.13	
For Elevated Installation >10' To 15' Above Floor, Add	1.71	
For Elevated Installation >15' To 20' Above Floor, Add	3.42	
For Elevated Installation >20' To 25' Above Floor, Add	4.27	
For Elevated Installation >25' To 30' Above Floor, Add	5.98	
For Elevated Installation >30' To 35' Above Floor, Add	6.84	
For Elevated Installation >35' To 40' Above Floor, Add	8.55	
For Elevated Installation >40' Above Floor, Add	9.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.13	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0176	EA	1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.03 5.77 1.92 3.84 4.81 6.73 7.69 9.61 10.57 5.77	9.61
26 05 33 13-0177	EA	1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.54 6.41 2.14 4.27 5.34 7.48 8.54 10.68 11.75 6.41	10.68
26 05 33 13-0178	EA	1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.31 8.01 2.67 5.34 6.68 9.35 10.68 13.35 14.69 8.01	13.35
26 05 33 13-0179	EA	2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.03 9.61 3.20 6.41 8.01 11.21 12.82 16.02 17.62 9.61	16.03
26 05 33 13-0180	EA	2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.98 11.21 3.74 7.48 9.35 13.08 14.95 18.69 20.56 11.21	18.69
26 05 33 13-0181	EA	3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.69 12.82 4.27 8.55 10.68 14.96 17.09 21.37 23.50 12.82	21.36
26 05 33 13-0182	EA	3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.73 14.42 4.81 9.61 12.02 16.82 19.23 24.04 26.44 14.42	20.10
26 05 33 13-0183	EA	4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.05 16.02 5.34 10.68 13.35 18.69 21.36 26.70 29.37 16.02	26.70

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0184 EA 5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	76.89	29.38
For Work In Restricted Working Space, Add	17.62	
For Elevated Installation >10' To 15' Above Floor, Add	5.87	
For Elevated Installation >15' To 20' Above Floor, Add	11.75	
For Elevated Installation >20' To 25' Above Floor, Add	14.69	
For Elevated Installation >25' To 30' Above Floor, Add	20.56	
For Elevated Installation >30' To 35' Above Floor, Add	23.50	
For Elevated Installation >35' To 40' Above Floor, Add	29.37	
For Elevated Installation >40' Above Floor, Add	32.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.62	
26 05 33 13-0185 EA 6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	110.03	32.04
For Work In Restricted Working Space, Add	19.22	
For Elevated Installation >10' To 15' Above Floor, Add	6.41	
For Elevated Installation >15' To 20' Above Floor, Add	12.82	
For Elevated Installation >20' To 25' Above Floor, Add	16.02	
For Elevated Installation >25' To 30' Above Floor, Add	22.43	
For Elevated Installation >30' To 35' Above Floor, Add	25.63	
For Elevated Installation >35' To 40' Above Floor, Add	32.04	
For Elevated Installation >40' Above Floor, Add	35.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.22	
26 05 33 13-0186 Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0060)		
26 05 33 13-0187 EA 1/2" Rigid Galvanized Steel (RGS) Steel Bushing	19.86	9.42
For Work In Restricted Working Space, Add	5.66	
For Elevated Installation >10' To 15' Above Floor, Add	1.89	
For Elevated Installation >15' To 20' Above Floor, Add	3.77	
For Elevated Installation >20' To 25' Above Floor, Add	4.71	
For Elevated Installation >25' To 30' Above Floor, Add	6.60	
For Elevated Installation >30' To 35' Above Floor, Add	7.54	
For Elevated Installation >35' To 40' Above Floor, Add	9.43	
For Elevated Installation >40' Above Floor, Add	10.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.66	
26 05 33 13-0188 EA 3/4" Rigid Galvanized Steel (RGS) Steel Bushing	21.57	10.05
For Work In Restricted Working Space, Add	6.03	
For Elevated Installation >10' To 15' Above Floor, Add	2.01	
For Elevated Installation >15' To 20' Above Floor, Add	4.02	
For Elevated Installation >20' To 25' Above Floor, Add	5.03	
For Elevated Installation >25' To 30' Above Floor, Add	7.04	
For Elevated Installation >30' To 35' Above Floor, Add	8.04	
For Elevated Installation >35' To 40' Above Floor, Add	10.05	
For Elevated Installation >40' Above Floor, Add	11.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.03	
26 05 33 13-0189 EA 1" Rigid Galvanized Steel (RGS) Steel Bushing	25.18	11.31
For Work In Restricted Working Space, Add	6.79	
For Elevated Installation >10' To 15' Above Floor, Add	2.26	
For Elevated Installation >15' To 20' Above Floor, Add	4.52	
For Elevated Installation >20' To 25' Above Floor, Add	5.66	
For Elevated Installation >25' To 30' Above Floor, Add	7.92	
For Elevated Installation >30' To 35' Above Floor, Add	9.05	
For Elevated Installation >35' To 40' Above Floor, Add	11.31	
For Elevated Installation >40' Above Floor, Add	12.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 33 13-0190 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing	28.29	12.57
For Work In Restricted Working Space, Add	7.54	
For Elevated Installation >10' To 15' Above Floor, Add	2.51	
For Elevated Installation >15' To 20' Above Floor, Add	5.03	
For Elevated Installation >20' To 25' Above Floor, Add	6.28	
For Elevated Installation >25' To 30' Above Floor, Add	8.80	
For Elevated Installation >30' To 35' Above Floor, Add	10.05	
For Elevated Installation >35' To 40' Above Floor, Add	12.57	
For Elevated Installation >40' Above Floor, Add	13.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.54	
26 05 33 13-0191 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	36.09	15.71
For Work In Restricted Working Space, Add	9.42	
For Elevated Installation >10' To 15' Above Floor, Add	3.14	
For Elevated Installation >15' To 20' Above Floor, Add	6.28	
For Elevated Installation >20' To 25' Above Floor, Add	7.85	
For Elevated Installation >25' To 30' Above Floor, Add	10.99	
For Elevated Installation >30' To 35' Above Floor, Add	12.56	
For Elevated Installation >35' To 40' Above Floor, Add	15.71	
For Elevated Installation >40' Above Floor, Add	17.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-0192 EA 2" Rigid Galvanized Steel (RGS) Steel Bushing	42.72	18.85
For Work In Restricted Working Space, Add	11.31	
For Elevated Installation >10' To 15' Above Floor, Add	3.77	
For Elevated Installation >15' To 20' Above Floor, Add	7.54	
For Elevated Installation >20' To 25' Above Floor, Add	9.42	
For Elevated Installation >25' To 30' Above Floor, Add	13.19	
For Elevated Installation >30' To 35' Above Floor, Add	15.08	
For Elevated Installation >35' To 40' Above Floor, Add	18.85	
For Elevated Installation >40' Above Floor, Add	20.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0193	EA		2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	59.78	21.99
			For Work In Restricted Working Space, Add	13.19	
			For Elevated Installation >10' To 15' Above Floor, Add	4.40	
			For Elevated Installation >15' To 20' Above Floor, Add	8.80	
			For Elevated Installation >20' To 25' Above Floor, Add	11.00	
			For Elevated Installation >25' To 30' Above Floor, Add	15.39	
			For Elevated Installation >30' To 35' Above Floor, Add	17.59	
			For Elevated Installation >35' To 40' Above Floor, Add	21.99	
			For Elevated Installation >40' Above Floor, Add	24.19	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.19	
26 05 33 13-0194	EA		3" Rigid Galvanized Steel (RGS) Steel Bushing.....	70.99	25.13
			For Work In Restricted Working Space, Add	15.08	
			For Elevated Installation >10' To 15' Above Floor, Add	5.03	
			For Elevated Installation >15' To 20' Above Floor, Add	10.05	
			For Elevated Installation >20' To 25' Above Floor, Add	12.57	
			For Elevated Installation >25' To 30' Above Floor, Add	17.59	
			For Elevated Installation >30' To 35' Above Floor, Add	20.10	
			For Elevated Installation >35' To 40' Above Floor, Add	25.13	
			For Elevated Installation >40' Above Floor, Add	27.64	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-0195	EA		3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	104.96	28.27
			For Work In Restricted Working Space, Add	16.97	
			For Elevated Installation >10' To 15' Above Floor, Add	5.66	
			For Elevated Installation >15' To 20' Above Floor, Add	11.31	
			For Elevated Installation >20' To 25' Above Floor, Add	14.14	
			For Elevated Installation >25' To 30' Above Floor, Add	19.79	
			For Elevated Installation >30' To 35' Above Floor, Add	22.62	
			For Elevated Installation >35' To 40' Above Floor, Add	28.28	
			For Elevated Installation >40' Above Floor, Add	31.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.97	
26 05 33 13-0196	EA		4" Rigid Galvanized Steel (RGS) Steel Bushing.....	141.34	31.41
			For Work In Restricted Working Space, Add	18.85	
			For Elevated Installation >10' To 15' Above Floor, Add	6.28	
			For Elevated Installation >15' To 20' Above Floor, Add	12.57	
			For Elevated Installation >20' To 25' Above Floor, Add	15.71	
			For Elevated Installation >25' To 30' Above Floor, Add	21.99	
			For Elevated Installation >30' To 35' Above Floor, Add	25.13	
			For Elevated Installation >35' To 40' Above Floor, Add	31.42	
			For Elevated Installation >40' Above Floor, Add	34.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85	
26 05 33 13-0197	EA		5" Rigid Galvanized Steel (RGS) Steel Bushing.....	188.20	34.56
			For Work In Restricted Working Space, Add	20.73	
			For Elevated Installation >10' To 15' Above Floor, Add	6.91	
			For Elevated Installation >15' To 20' Above Floor, Add	13.82	
			For Elevated Installation >20' To 25' Above Floor, Add	17.28	
			For Elevated Installation >25' To 30' Above Floor, Add	24.19	
			For Elevated Installation >30' To 35' Above Floor, Add	27.64	
			For Elevated Installation >35' To 40' Above Floor, Add	34.56	
			For Elevated Installation >40' Above Floor, Add	38.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.73	
26 05 33 13-0198	EA		6" Rigid Galvanized Steel (RGS) Steel Bushing.....	276.39	37.69
			For Work In Restricted Working Space, Add	22.62	
			For Elevated Installation >10' To 15' Above Floor, Add	7.54	
			For Elevated Installation >15' To 20' Above Floor, Add	15.08	
			For Elevated Installation >20' To 25' Above Floor, Add	18.85	
			For Elevated Installation >25' To 30' Above Floor, Add	26.39	
			For Elevated Installation >30' To 35' Above Floor, Add	30.16	
			For Elevated Installation >35' To 40' Above Floor, Add	37.70	
			For Elevated Installation >40' Above Floor, Add	41.46	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.62	
26 05 33 13-0199			Rigid Galvanized Steel (RGS) Steel Insulated Bushing (26 05 33 13-0060)		
26 05 33 13-0200	EA		1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	21.05	9.42
			For Work In Restricted Working Space, Add	5.66	
			For Elevated Installation >10' To 15' Above Floor, Add	1.89	
			For Elevated Installation >15' To 20' Above Floor, Add	3.77	
			For Elevated Installation >20' To 25' Above Floor, Add	4.71	
			For Elevated Installation >25' To 30' Above Floor, Add	6.60	
			For Elevated Installation >30' To 35' Above Floor, Add	7.54	
			For Elevated Installation >35' To 40' Above Floor, Add	9.43	
			For Elevated Installation >40' Above Floor, Add	10.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.66	
26 05 33 13-0201	EA		3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	23.37	10.05
			For Work In Restricted Working Space, Add	6.03	
			For Elevated Installation >10' To 15' Above Floor, Add	2.01	
			For Elevated Installation >15' To 20' Above Floor, Add	4.02	
			For Elevated Installation >20' To 25' Above Floor, Add	5.03	
			For Elevated Installation >25' To 30' Above Floor, Add	7.04	
			For Elevated Installation >30' To 35' Above Floor, Add	8.04	
			For Elevated Installation >35' To 40' Above Floor, Add	10.05	
			For Elevated Installation >40' Above Floor, Add	11.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.03	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0202	EA		1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	27.44	11.31
			For Work In Restricted Working Space, Add	6.79	
			For Elevated Installation >10' To 15' Above Floor, Add	2.26	
			For Elevated Installation >15' To 20' Above Floor, Add	4.52	
			For Elevated Installation >20' To 25' Above Floor, Add	5.66	
			For Elevated Installation >25' To 30' Above Floor, Add	7.92	
			For Elevated Installation >30' To 35' Above Floor, Add	9.05	
			For Elevated Installation >35' To 40' Above Floor, Add	11.31	
			For Elevated Installation >40' Above Floor, Add	12.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 33 13-0203	EA		1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	32.11	12.57
			For Work In Restricted Working Space, Add	7.54	
			For Elevated Installation >10' To 15' Above Floor, Add	2.51	
			For Elevated Installation >15' To 20' Above Floor, Add	5.03	
			For Elevated Installation >20' To 25' Above Floor, Add	6.28	
			For Elevated Installation >25' To 30' Above Floor, Add	8.80	
			For Elevated Installation >30' To 35' Above Floor, Add	10.05	
			For Elevated Installation >35' To 40' Above Floor, Add	12.57	
			For Elevated Installation >40' Above Floor, Add	13.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.54	
26 05 33 13-0204	EA		1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	40.06	15.71
			For Work In Restricted Working Space, Add	9.42	
			For Elevated Installation >10' To 15' Above Floor, Add	3.14	
			For Elevated Installation >15' To 20' Above Floor, Add	6.28	
			For Elevated Installation >20' To 25' Above Floor, Add	7.85	
			For Elevated Installation >25' To 30' Above Floor, Add	10.99	
			For Elevated Installation >30' To 35' Above Floor, Add	12.56	
			For Elevated Installation >35' To 40' Above Floor, Add	15.71	
			For Elevated Installation >40' Above Floor, Add	17.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-0205	EA		2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	49.77	18.85
			For Work In Restricted Working Space, Add	11.31	
			For Elevated Installation >10' To 15' Above Floor, Add	3.77	
			For Elevated Installation >15' To 20' Above Floor, Add	7.54	
			For Elevated Installation >20' To 25' Above Floor, Add	9.42	
			For Elevated Installation >25' To 30' Above Floor, Add	13.19	
			For Elevated Installation >30' To 35' Above Floor, Add	15.08	
			For Elevated Installation >35' To 40' Above Floor, Add	18.85	
			For Elevated Installation >40' Above Floor, Add	20.73	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 05 33 13-0206	EA		2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	69.34	21.99
			For Work In Restricted Working Space, Add	13.19	
			For Elevated Installation >10' To 15' Above Floor, Add	4.40	
			For Elevated Installation >15' To 20' Above Floor, Add	8.80	
			For Elevated Installation >20' To 25' Above Floor, Add	11.00	
			For Elevated Installation >25' To 30' Above Floor, Add	15.39	
			For Elevated Installation >30' To 35' Above Floor, Add	17.59	
			For Elevated Installation >35' To 40' Above Floor, Add	21.99	
			For Elevated Installation >40' Above Floor, Add	24.19	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.19	
26 05 33 13-0207	EA		3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	82.20	25.13
			For Work In Restricted Working Space, Add	15.08	
			For Elevated Installation >10' To 15' Above Floor, Add	5.03	
			For Elevated Installation >15' To 20' Above Floor, Add	10.05	
			For Elevated Installation >20' To 25' Above Floor, Add	12.57	
			For Elevated Installation >25' To 30' Above Floor, Add	17.59	
			For Elevated Installation >30' To 35' Above Floor, Add	20.10	
			For Elevated Installation >35' To 40' Above Floor, Add	25.13	
			For Elevated Installation >40' Above Floor, Add	27.64	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-0208	EA		3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	107.05	28.27
			For Work In Restricted Working Space, Add	16.97	
			For Elevated Installation >10' To 15' Above Floor, Add	5.66	
			For Elevated Installation >15' To 20' Above Floor, Add	11.31	
			For Elevated Installation >20' To 25' Above Floor, Add	14.14	
			For Elevated Installation >25' To 30' Above Floor, Add	19.79	
			For Elevated Installation >30' To 35' Above Floor, Add	22.62	
			For Elevated Installation >35' To 40' Above Floor, Add	28.28	
			For Elevated Installation >40' Above Floor, Add	31.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.97	
26 05 33 13-0209	EA		4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	150.69	31.41
			For Work In Restricted Working Space, Add	18.85	
			For Elevated Installation >10' To 15' Above Floor, Add	6.28	
			For Elevated Installation >15' To 20' Above Floor, Add	12.57	
			For Elevated Installation >20' To 25' Above Floor, Add	15.71	
			For Elevated Installation >25' To 30' Above Floor, Add	21.99	
			For Elevated Installation >30' To 35' Above Floor, Add	25.13	
			For Elevated Installation >35' To 40' Above Floor, Add	31.42	
			For Elevated Installation >40' Above Floor, Add	34.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0210	EA		5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	198.38	34.56
			For Work In Restricted Working Space, Add	20.73	
			For Elevated Installation >10' To 15' Above Floor, Add	6.91	
			For Elevated Installation >15' To 20' Above Floor, Add	13.82	
			For Elevated Installation >20' To 25' Above Floor, Add	17.28	
			For Elevated Installation >25' To 30' Above Floor, Add	24.19	
			For Elevated Installation >30' To 35' Above Floor, Add	27.64	
			For Elevated Installation >35' To 40' Above Floor, Add	34.56	
			For Elevated Installation >40' Above Floor, Add	38.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.73	
26 05 33 13-0211	EA		6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	279.97	37.69
			For Work In Restricted Working Space, Add	22.62	
			For Elevated Installation >10' To 15' Above Floor, Add	7.54	
			For Elevated Installation >15' To 20' Above Floor, Add	15.08	
			For Elevated Installation >20' To 25' Above Floor, Add	18.85	
			For Elevated Installation >25' To 30' Above Floor, Add	26.39	
			For Elevated Installation >30' To 35' Above Floor, Add	30.16	
			For Elevated Installation >35' To 40' Above Floor, Add	37.70	
			For Elevated Installation >40' Above Floor, Add	41.46	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.62	
26 05 33 13-0212			Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0060)		
26 05 33 13-0213	EA		1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	31.49	11.31
			For Work In Restricted Working Space, Add	6.79	
			For Elevated Installation >10' To 15' Above Floor, Add	2.26	
			For Elevated Installation >15' To 20' Above Floor, Add	4.52	
			For Elevated Installation >20' To 25' Above Floor, Add	5.66	
			For Elevated Installation >25' To 30' Above Floor, Add	7.92	
			For Elevated Installation >30' To 35' Above Floor, Add	9.05	
			For Elevated Installation >35' To 40' Above Floor, Add	11.31	
			For Elevated Installation >40' Above Floor, Add	12.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 33 13-0214	EA		3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	35.26	12.57
			For Work In Restricted Working Space, Add	7.54	
			For Elevated Installation >10' To 15' Above Floor, Add	2.51	
			For Elevated Installation >15' To 20' Above Floor, Add	5.03	
			For Elevated Installation >20' To 25' Above Floor, Add	6.28	
			For Elevated Installation >25' To 30' Above Floor, Add	8.80	
			For Elevated Installation >30' To 35' Above Floor, Add	10.05	
			For Elevated Installation >35' To 40' Above Floor, Add	12.57	
			For Elevated Installation >40' Above Floor, Add	13.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.54	
26 05 33 13-0215	EA		1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	40.27	13.82
			For Work In Restricted Working Space, Add	8.29	
			For Elevated Installation >10' To 15' Above Floor, Add	2.76	
			For Elevated Installation >15' To 20' Above Floor, Add	5.53	
			For Elevated Installation >20' To 25' Above Floor, Add	6.91	
			For Elevated Installation >25' To 30' Above Floor, Add	9.67	
			For Elevated Installation >30' To 35' Above Floor, Add	11.06	
			For Elevated Installation >35' To 40' Above Floor, Add	13.82	
			For Elevated Installation >40' Above Floor, Add	15.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-0216	EA		1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	47.75	15.71
			For Work In Restricted Working Space, Add	9.42	
			For Elevated Installation >10' To 15' Above Floor, Add	3.14	
			For Elevated Installation >15' To 20' Above Floor, Add	6.28	
			For Elevated Installation >20' To 25' Above Floor, Add	7.85	
			For Elevated Installation >25' To 30' Above Floor, Add	10.99	
			For Elevated Installation >30' To 35' Above Floor, Add	12.56	
			For Elevated Installation >35' To 40' Above Floor, Add	15.71	
			For Elevated Installation >40' Above Floor, Add	17.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-0217	EA		1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	57.82	19.47
			For Work In Restricted Working Space, Add	11.69	
			For Elevated Installation >10' To 15' Above Floor, Add	3.90	
			For Elevated Installation >15' To 20' Above Floor, Add	7.79	
			For Elevated Installation >20' To 25' Above Floor, Add	9.74	
			For Elevated Installation >25' To 30' Above Floor, Add	13.64	
			For Elevated Installation >30' To 35' Above Floor, Add	15.58	
			For Elevated Installation >35' To 40' Above Floor, Add	19.48	
			For Elevated Installation >40' Above Floor, Add	21.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.69	
26 05 33 13-0218	EA		2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	72.69	23.24
			For Work In Restricted Working Space, Add	13.95	
			For Elevated Installation >10' To 15' Above Floor, Add	4.65	
			For Elevated Installation >15' To 20' Above Floor, Add	9.30	
			For Elevated Installation >20' To 25' Above Floor, Add	11.62	
			For Elevated Installation >25' To 30' Above Floor, Add	16.27	
			For Elevated Installation >30' To 35' Above Floor, Add	18.60	
			For Elevated Installation >35' To 40' Above Floor, Add	23.25	
			For Elevated Installation >40' Above Floor, Add	25.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.95	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0219 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	96.83	27.02
For Work In Restricted Working Space, Add	16.21	
For Elevated Installation >10' To 15' Above Floor, Add	5.40	
For Elevated Installation >15' To 20' Above Floor, Add	10.81	
For Elevated Installation >20' To 25' Above Floor, Add	13.51	
For Elevated Installation >25' To 30' Above Floor, Add	18.91	
For Elevated Installation >30' To 35' Above Floor, Add	21.61	
For Elevated Installation >35' To 40' Above Floor, Add	27.02	
For Elevated Installation >40' Above Floor, Add	29.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.21	
26 05 33 13-0220 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	106.99	31.41
For Work In Restricted Working Space, Add	18.85	
For Elevated Installation >10' To 15' Above Floor, Add	6.28	
For Elevated Installation >15' To 20' Above Floor, Add	12.57	
For Elevated Installation >20' To 25' Above Floor, Add	15.71	
For Elevated Installation >25' To 30' Above Floor, Add	21.99	
For Elevated Installation >30' To 35' Above Floor, Add	25.13	
For Elevated Installation >35' To 40' Above Floor, Add	31.42	
For Elevated Installation >40' Above Floor, Add	34.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85	
26 05 33 13-0221 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	120.94	35.18
For Work In Restricted Working Space, Add	21.11	
For Elevated Installation >10' To 15' Above Floor, Add	7.04	
For Elevated Installation >15' To 20' Above Floor, Add	14.07	
For Elevated Installation >20' To 25' Above Floor, Add	17.59	
For Elevated Installation >25' To 30' Above Floor, Add	24.63	
For Elevated Installation >30' To 35' Above Floor, Add	28.15	
For Elevated Installation >35' To 40' Above Floor, Add	35.19	
For Elevated Installation >40' Above Floor, Add	38.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.11	
26 05 33 13-0222 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	155.31	38.96
For Work In Restricted Working Space, Add	23.37	
For Elevated Installation >10' To 15' Above Floor, Add	7.79	
For Elevated Installation >15' To 20' Above Floor, Add	15.58	
For Elevated Installation >20' To 25' Above Floor, Add	19.48	
For Elevated Installation >25' To 30' Above Floor, Add	27.27	
For Elevated Installation >30' To 35' Above Floor, Add	31.16	
For Elevated Installation >35' To 40' Above Floor, Add	38.95	
For Elevated Installation >40' Above Floor, Add	42.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.37	
26 05 33 13-0223 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	218.69	42.73
For Work In Restricted Working Space, Add	25.63	
For Elevated Installation >10' To 15' Above Floor, Add	8.54	
For Elevated Installation >15' To 20' Above Floor, Add	17.09	
For Elevated Installation >20' To 25' Above Floor, Add	21.36	
For Elevated Installation >25' To 30' Above Floor, Add	29.90	
For Elevated Installation >30' To 35' Above Floor, Add	34.18	
For Elevated Installation >35' To 40' Above Floor, Add	42.72	
For Elevated Installation >40' Above Floor, Add	46.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.63	
26 05 33 13-0224 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	299.64	47.13
For Work In Restricted Working Space, Add	28.27	
For Elevated Installation >10' To 15' Above Floor, Add	9.42	
For Elevated Installation >15' To 20' Above Floor, Add	18.85	
For Elevated Installation >20' To 25' Above Floor, Add	23.56	
For Elevated Installation >25' To 30' Above Floor, Add	32.98	
For Elevated Installation >30' To 35' Above Floor, Add	37.70	
For Elevated Installation >35' To 40' Above Floor, Add	47.12	
For Elevated Installation >40' Above Floor, Add	51.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.27	
26 05 33 13-0225 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0060)		
26 05 33 13-0226 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	18.45	5.78
For Work In Restricted Working Space, Add	4.30	
For Elevated Installation >10' To 15' Above Floor, Add	1.43	
For Elevated Installation >15' To 20' Above Floor, Add	2.87	
For Elevated Installation >20' To 25' Above Floor, Add	3.59	
For Elevated Installation >25' To 30' Above Floor, Add	5.02	
For Elevated Installation >30' To 35' Above Floor, Add	5.74	
For Elevated Installation >35' To 40' Above Floor, Add	7.17	
For Elevated Installation >40' Above Floor, Add	7.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.30	
26 05 33 13-0227 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	22.30	6.65
For Work In Restricted Working Space, Add	4.98	
For Elevated Installation >10' To 15' Above Floor, Add	1.66	
For Elevated Installation >15' To 20' Above Floor, Add	3.32	
For Elevated Installation >20' To 25' Above Floor, Add	4.15	
For Elevated Installation >25' To 30' Above Floor, Add	5.81	
For Elevated Installation >30' To 35' Above Floor, Add	6.64	
For Elevated Installation >35' To 40' Above Floor, Add	8.30	
For Elevated Installation >40' Above Floor, Add	9.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0228	EA	1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	29.10	8.04
		For Work In Restricted Working Space, Add	6.00	
		For Elevated Installation >10' To 15' Above Floor, Add	2.00	
		For Elevated Installation >15' To 20' Above Floor, Add	4.00	
		For Elevated Installation >20' To 25' Above Floor, Add	5.00	
		For Elevated Installation >25' To 30' Above Floor, Add	7.00	
		For Elevated Installation >30' To 35' Above Floor, Add	8.00	
		For Elevated Installation >35' To 40' Above Floor, Add	10.01	
		For Elevated Installation >40' Above Floor, Add	11.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.00	
26 05 33 13-0229	EA	1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	42.73	9.92
		For Work In Restricted Working Space, Add	7.47	
		For Elevated Installation >10' To 15' Above Floor, Add	2.49	
		For Elevated Installation >15' To 20' Above Floor, Add	4.98	
		For Elevated Installation >20' To 25' Above Floor, Add	6.23	
		For Elevated Installation >25' To 30' Above Floor, Add	8.72	
		For Elevated Installation >30' To 35' Above Floor, Add	9.96	
		For Elevated Installation >35' To 40' Above Floor, Add	12.45	
		For Elevated Installation >40' Above Floor, Add	13.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.47	
26 05 33 13-0230	EA	1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	57.81	13.32
		For Work In Restricted Working Space, Add	10.00	
		For Elevated Installation >10' To 15' Above Floor, Add	3.33	
		For Elevated Installation >15' To 20' Above Floor, Add	6.67	
		For Elevated Installation >20' To 25' Above Floor, Add	8.33	
		For Elevated Installation >25' To 30' Above Floor, Add	11.67	
		For Elevated Installation >30' To 35' Above Floor, Add	13.33	
		For Elevated Installation >35' To 40' Above Floor, Add	16.67	
		For Elevated Installation >40' Above Floor, Add	18.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.00	
26 05 33 13-0231	EA	2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	97.93	19.97
		For Work In Restricted Working Space, Add	14.98	
		For Elevated Installation >10' To 15' Above Floor, Add	4.99	
		For Elevated Installation >15' To 20' Above Floor, Add	9.98	
		For Elevated Installation >20' To 25' Above Floor, Add	12.48	
		For Elevated Installation >25' To 30' Above Floor, Add	17.47	
		For Elevated Installation >30' To 35' Above Floor, Add	19.97	
		For Elevated Installation >35' To 40' Above Floor, Add	24.96	
		For Elevated Installation >40' Above Floor, Add	27.46	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.98	
26 05 33 13-0232	EA	2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	174.08	22.12
		For Work In Restricted Working Space, Add	16.58	
		For Elevated Installation >10' To 15' Above Floor, Add	5.53	
		For Elevated Installation >15' To 20' Above Floor, Add	11.06	
		For Elevated Installation >20' To 25' Above Floor, Add	13.82	
		For Elevated Installation >25' To 30' Above Floor, Add	19.35	
		For Elevated Installation >30' To 35' Above Floor, Add	22.11	
		For Elevated Installation >35' To 40' Above Floor, Add	27.64	
		For Elevated Installation >40' Above Floor, Add	30.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.58	
26 05 33 13-0233	EA	3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	207.59	26.76
		For Work In Restricted Working Space, Add	20.09	
		For Elevated Installation >10' To 15' Above Floor, Add	6.70	
		For Elevated Installation >15' To 20' Above Floor, Add	13.39	
		For Elevated Installation >20' To 25' Above Floor, Add	16.74	
		For Elevated Installation >25' To 30' Above Floor, Add	23.44	
		For Elevated Installation >30' To 35' Above Floor, Add	26.79	
		For Elevated Installation >35' To 40' Above Floor, Add	33.49	
		For Elevated Installation >40' Above Floor, Add	36.83	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.09	
26 05 33 13-0234	EA	3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	280.22	33.55
		For Work In Restricted Working Space, Add	25.15	
		For Elevated Installation >10' To 15' Above Floor, Add	8.38	
		For Elevated Installation >15' To 20' Above Floor, Add	16.77	
		For Elevated Installation >20' To 25' Above Floor, Add	20.96	
		For Elevated Installation >25' To 30' Above Floor, Add	29.34	
		For Elevated Installation >30' To 35' Above Floor, Add	33.53	
		For Elevated Installation >35' To 40' Above Floor, Add	41.92	
		For Elevated Installation >40' Above Floor, Add	46.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.15	
26 05 33 13-0235	EA	4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	328.43	40.21
		For Work In Restricted Working Space, Add	30.16	
		For Elevated Installation >10' To 15' Above Floor, Add	10.05	
		For Elevated Installation >15' To 20' Above Floor, Add	20.10	
		For Elevated Installation >20' To 25' Above Floor, Add	25.13	
		For Elevated Installation >25' To 30' Above Floor, Add	35.18	
		For Elevated Installation >30' To 35' Above Floor, Add	40.21	
		For Elevated Installation >35' To 40' Above Floor, Add	50.26	
		For Elevated Installation >40' Above Floor, Add	55.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0236	EA	5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	572.36	44.73
		For Work In Restricted Working Space, Add	33.51	
		For Elevated Installation >10' To 15' Above Floor, Add	11.17	
		For Elevated Installation >15' To 20' Above Floor, Add	22.34	
		For Elevated Installation >20' To 25' Above Floor, Add	27.93	
		For Elevated Installation >25' To 30' Above Floor, Add	39.10	
		For Elevated Installation >30' To 35' Above Floor, Add	44.68	
		For Elevated Installation >35' To 40' Above Floor, Add	55.85	
		For Elevated Installation >40' Above Floor, Add	61.44	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.51	
26 05 33 13-0237	EA	6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	683.27	50.26
		For Work In Restricted Working Space, Add	37.69	
		For Elevated Installation >10' To 15' Above Floor, Add	12.56	
		For Elevated Installation >15' To 20' Above Floor, Add	25.13	
		For Elevated Installation >20' To 25' Above Floor, Add	31.41	
		For Elevated Installation >25' To 30' Above Floor, Add	43.97	
		For Elevated Installation >30' To 35' Above Floor, Add	50.25	
		For Elevated Installation >35' To 40' Above Floor, Add	62.82	
		For Elevated Installation >40' Above Floor, Add	69.10	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.69	
26 05 33 13-0238 Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0060)				
26 05 33 13-0239	EA	1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	18.20	8.17
		For Work In Restricted Working Space, Add	4.90	
		For Elevated Installation >10' To 15' Above Floor, Add	1.63	
		For Elevated Installation >15' To 20' Above Floor, Add	3.27	
		For Elevated Installation >20' To 25' Above Floor, Add	4.09	
		For Elevated Installation >25' To 30' Above Floor, Add	5.72	
		For Elevated Installation >30' To 35' Above Floor, Add	6.54	
		For Elevated Installation >35' To 40' Above Floor, Add	8.17	
		For Elevated Installation >40' Above Floor, Add	8.99	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33 13-0240	EA	3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	20.93	9.42
		For Work In Restricted Working Space, Add	5.65	
		For Elevated Installation >10' To 15' Above Floor, Add	1.88	
		For Elevated Installation >15' To 20' Above Floor, Add	3.77	
		For Elevated Installation >20' To 25' Above Floor, Add	4.71	
		For Elevated Installation >25' To 30' Above Floor, Add	6.59	
		For Elevated Installation >30' To 35' Above Floor, Add	7.54	
		For Elevated Installation >35' To 40' Above Floor, Add	9.42	
		For Elevated Installation >40' Above Floor, Add	10.36	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33 13-0241	EA	1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	26.79	11.94
		For Work In Restricted Working Space, Add	7.16	
		For Elevated Installation >10' To 15' Above Floor, Add	2.39	
		For Elevated Installation >15' To 20' Above Floor, Add	4.77	
		For Elevated Installation >20' To 25' Above Floor, Add	5.97	
		For Elevated Installation >25' To 30' Above Floor, Add	8.35	
		For Elevated Installation >30' To 35' Above Floor, Add	9.55	
		For Elevated Installation >35' To 40' Above Floor, Add	11.94	
		For Elevated Installation >40' Above Floor, Add	13.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-0242	EA	1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	31.36	13.82
		For Work In Restricted Working Space, Add	8.29	
		For Elevated Installation >10' To 15' Above Floor, Add	2.76	
		For Elevated Installation >15' To 20' Above Floor, Add	5.53	
		For Elevated Installation >20' To 25' Above Floor, Add	6.91	
		For Elevated Installation >25' To 30' Above Floor, Add	9.67	
		For Elevated Installation >30' To 35' Above Floor, Add	11.06	
		For Elevated Installation >35' To 40' Above Floor, Add	13.82	
		For Elevated Installation >40' Above Floor, Add	15.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-0243	EA	1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	35.82	15.71
		For Work In Restricted Working Space, Add	9.42	
		For Elevated Installation >10' To 15' Above Floor, Add	3.14	
		For Elevated Installation >15' To 20' Above Floor, Add	6.28	
		For Elevated Installation >20' To 25' Above Floor, Add	7.85	
		For Elevated Installation >25' To 30' Above Floor, Add	10.99	
		For Elevated Installation >30' To 35' Above Floor, Add	12.56	
		For Elevated Installation >35' To 40' Above Floor, Add	15.71	
		For Elevated Installation >40' Above Floor, Add	17.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-0244	EA	1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	18.35	8.17
		For Work In Restricted Working Space, Add	4.90	
		For Elevated Installation >10' To 15' Above Floor, Add	1.63	
		For Elevated Installation >15' To 20' Above Floor, Add	3.27	
		For Elevated Installation >20' To 25' Above Floor, Add	4.09	
		For Elevated Installation >25' To 30' Above Floor, Add	5.72	
		For Elevated Installation >30' To 35' Above Floor, Add	6.54	
		For Elevated Installation >35' To 40' Above Floor, Add	8.17	
		For Elevated Installation >40' Above Floor, Add	8.99	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0245	EA	3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	21.17	9.42
		For Work In Restricted Working Space, Add	.....	5.65	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	1.88	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	3.77	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	4.71	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	6.59	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	7.54	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	9.42	
		For Elevated Installation >40' Above Floor, Add	.....	10.36	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	5.65	
26 05 33 13-0246	EA	1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	27.05	11.94
		For Work In Restricted Working Space, Add	.....	7.16	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	2.39	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	4.77	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	5.97	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	8.35	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	9.55	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	11.94	
		For Elevated Installation >40' Above Floor, Add	.....	13.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	7.16	
26 05 33 13-0247	EA	1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	31.71	13.82
		For Work In Restricted Working Space, Add	.....	8.29	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	2.76	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	5.53	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	6.91	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	9.67	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	11.06	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	13.82	
		For Elevated Installation >40' Above Floor, Add	.....	15.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	8.29	
26 05 33 13-0248	EA	1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	36.38	15.71
		For Work In Restricted Working Space, Add	.....	9.42	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	3.14	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	6.28	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	7.85	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	10.99	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	12.56	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	15.71	
		For Elevated Installation >40' Above Floor, Add	.....	17.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	9.42	
26 05 33 13-0249	EA	2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	41.18	17.59
		For Work In Restricted Working Space, Add	.....	10.55	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	3.52	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	7.04	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	8.80	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	12.31	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	14.07	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	17.59	
		For Elevated Installation >40' Above Floor, Add	.....	19.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	10.55	
26 05 33 13-0250	EA	1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	.....	18.51	8.17
		For Work In Restricted Working Space, Add	.....	4.90	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	1.63	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	3.27	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	4.09	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	5.72	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	6.54	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	8.17	
		For Elevated Installation >40' Above Floor, Add	.....	8.99	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	4.90	
26 05 33 13-0251	EA	3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	.....	21.38	9.42
		For Work In Restricted Working Space, Add	.....	5.65	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	1.88	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	3.77	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	4.71	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	6.59	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	7.54	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	9.42	
		For Elevated Installation >40' Above Floor, Add	.....	10.36	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	5.65	
26 05 33 13-0252	EA	1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	.....	27.41	11.94
		For Work In Restricted Working Space, Add	.....	7.16	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	2.39	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	4.77	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	5.97	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	8.35	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	9.55	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	11.94	
		For Elevated Installation >40' Above Floor, Add	.....	13.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	7.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0253	EA	1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	32.03	13.82
			For Work In Restricted Working Space, Add	8.29	
			For Elevated Installation >10' To 15' Above Floor, Add	2.76	
			For Elevated Installation >15' To 20' Above Floor, Add	5.53	
			For Elevated Installation >20' To 25' Above Floor, Add	6.91	
			For Elevated Installation >25' To 30' Above Floor, Add	9.67	
			For Elevated Installation >30' To 35' Above Floor, Add	11.06	
			For Elevated Installation >35' To 40' Above Floor, Add	13.82	
			For Elevated Installation >40' Above Floor, Add	15.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33	13-0254	EA	1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	36.76	15.71
			For Work In Restricted Working Space, Add	9.42	
			For Elevated Installation >10' To 15' Above Floor, Add	3.14	
			For Elevated Installation >15' To 20' Above Floor, Add	6.28	
			For Elevated Installation >20' To 25' Above Floor, Add	7.85	
			For Elevated Installation >25' To 30' Above Floor, Add	10.99	
			For Elevated Installation >30' To 35' Above Floor, Add	12.56	
			For Elevated Installation >35' To 40' Above Floor, Add	15.71	
			For Elevated Installation >40' Above Floor, Add	17.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33	13-0255	EA	2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	42.12	17.59
			For Work In Restricted Working Space, Add	10.55	
			For Elevated Installation >10' To 15' Above Floor, Add	3.52	
			For Elevated Installation >15' To 20' Above Floor, Add	7.04	
			For Elevated Installation >20' To 25' Above Floor, Add	8.80	
			For Elevated Installation >25' To 30' Above Floor, Add	12.31	
			For Elevated Installation >30' To 35' Above Floor, Add	14.07	
			For Elevated Installation >35' To 40' Above Floor, Add	17.59	
			For Elevated Installation >40' Above Floor, Add	19.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33	13-0256	EA	2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	57.06	21.36
			For Work In Restricted Working Space, Add	12.82	
			For Elevated Installation >10' To 15' Above Floor, Add	4.27	
			For Elevated Installation >15' To 20' Above Floor, Add	8.54	
			For Elevated Installation >20' To 25' Above Floor, Add	10.68	
			For Elevated Installation >25' To 30' Above Floor, Add	14.95	
			For Elevated Installation >30' To 35' Above Floor, Add	17.09	
			For Elevated Installation >35' To 40' Above Floor, Add	21.36	
			For Elevated Installation >40' Above Floor, Add	23.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.82	
26 05 33	13-0257	EA	3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	76.67	29.53
			For Work In Restricted Working Space, Add	17.72	
			For Elevated Installation >10' To 15' Above Floor, Add	5.91	
			For Elevated Installation >15' To 20' Above Floor, Add	11.81	
			For Elevated Installation >20' To 25' Above Floor, Add	14.76	
			For Elevated Installation >25' To 30' Above Floor, Add	20.67	
			For Elevated Installation >30' To 35' Above Floor, Add	23.62	
			For Elevated Installation >35' To 40' Above Floor, Add	29.53	
			For Elevated Installation >40' Above Floor, Add	32.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33	13-0258	EA	1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	18.72	8.17
			For Work In Restricted Working Space, Add	4.90	
			For Elevated Installation >10' To 15' Above Floor, Add	1.63	
			For Elevated Installation >15' To 20' Above Floor, Add	3.27	
			For Elevated Installation >20' To 25' Above Floor, Add	4.09	
			For Elevated Installation >25' To 30' Above Floor, Add	5.72	
			For Elevated Installation >30' To 35' Above Floor, Add	6.54	
			For Elevated Installation >35' To 40' Above Floor, Add	8.17	
			For Elevated Installation >40' Above Floor, Add	8.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33	13-0259	EA	3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	21.49	9.42
			For Work In Restricted Working Space, Add	5.65	
			For Elevated Installation >10' To 15' Above Floor, Add	1.88	
			For Elevated Installation >15' To 20' Above Floor, Add	3.77	
			For Elevated Installation >20' To 25' Above Floor, Add	4.71	
			For Elevated Installation >25' To 30' Above Floor, Add	6.59	
			For Elevated Installation >30' To 35' Above Floor, Add	7.54	
			For Elevated Installation >35' To 40' Above Floor, Add	9.42	
			For Elevated Installation >40' Above Floor, Add	10.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33	13-0260	EA	1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	27.89	11.94
			For Work In Restricted Working Space, Add	7.16	
			For Elevated Installation >10' To 15' Above Floor, Add	2.39	
			For Elevated Installation >15' To 20' Above Floor, Add	4.77	
			For Elevated Installation >20' To 25' Above Floor, Add	5.97	
			For Elevated Installation >25' To 30' Above Floor, Add	8.35	
			For Elevated Installation >30' To 35' Above Floor, Add	9.55	
			For Elevated Installation >35' To 40' Above Floor, Add	11.94	
			For Elevated Installation >40' Above Floor, Add	13.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0261	EA	1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	32.63	13.82
			For Work In Restricted Working Space, Add	8.29	
			For Elevated Installation >10' To 15' Above Floor, Add	2.76	
			For Elevated Installation >15' To 20' Above Floor, Add	5.53	
			For Elevated Installation >20' To 25' Above Floor, Add	6.91	
			For Elevated Installation >25' To 30' Above Floor, Add	9.67	
			For Elevated Installation >30' To 35' Above Floor, Add	11.06	
			For Elevated Installation >35' To 40' Above Floor, Add	13.82	
			For Elevated Installation >40' Above Floor, Add	15.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33	13-0262	EA	1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	37.56	15.71
			For Work In Restricted Working Space, Add	9.42	
			For Elevated Installation >10' To 15' Above Floor, Add	3.14	
			For Elevated Installation >15' To 20' Above Floor, Add	6.28	
			For Elevated Installation >20' To 25' Above Floor, Add	7.85	
			For Elevated Installation >25' To 30' Above Floor, Add	10.99	
			For Elevated Installation >30' To 35' Above Floor, Add	12.56	
			For Elevated Installation >35' To 40' Above Floor, Add	15.71	
			For Elevated Installation >40' Above Floor, Add	17.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33	13-0263	EA	2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	43.09	17.59
			For Work In Restricted Working Space, Add	10.55	
			For Elevated Installation >10' To 15' Above Floor, Add	3.52	
			For Elevated Installation >15' To 20' Above Floor, Add	7.04	
			For Elevated Installation >20' To 25' Above Floor, Add	8.80	
			For Elevated Installation >25' To 30' Above Floor, Add	12.31	
			For Elevated Installation >30' To 35' Above Floor, Add	14.07	
			For Elevated Installation >35' To 40' Above Floor, Add	17.59	
			For Elevated Installation >40' Above Floor, Add	19.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33	13-0264	EA	2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	59.67	21.36
			For Work In Restricted Working Space, Add	12.82	
			For Elevated Installation >10' To 15' Above Floor, Add	4.27	
			For Elevated Installation >15' To 20' Above Floor, Add	8.54	
			For Elevated Installation >20' To 25' Above Floor, Add	10.68	
			For Elevated Installation >25' To 30' Above Floor, Add	14.95	
			For Elevated Installation >30' To 35' Above Floor, Add	17.09	
			For Elevated Installation >35' To 40' Above Floor, Add	21.36	
			For Elevated Installation >40' Above Floor, Add	23.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.82	
26 05 33	13-0265	EA	3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	78.93	29.53
			For Work In Restricted Working Space, Add	17.72	
			For Elevated Installation >10' To 15' Above Floor, Add	5.91	
			For Elevated Installation >15' To 20' Above Floor, Add	11.81	
			For Elevated Installation >20' To 25' Above Floor, Add	14.76	
			For Elevated Installation >25' To 30' Above Floor, Add	20.67	
			For Elevated Installation >30' To 35' Above Floor, Add	23.62	
			For Elevated Installation >35' To 40' Above Floor, Add	29.53	
			For Elevated Installation >40' Above Floor, Add	32.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33	13-0266	EA	1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.92	8.17
			For Work In Restricted Working Space, Add	4.90	
			For Elevated Installation >10' To 15' Above Floor, Add	1.63	
			For Elevated Installation >15' To 20' Above Floor, Add	3.27	
			For Elevated Installation >20' To 25' Above Floor, Add	4.09	
			For Elevated Installation >25' To 30' Above Floor, Add	5.72	
			For Elevated Installation >30' To 35' Above Floor, Add	6.54	
			For Elevated Installation >35' To 40' Above Floor, Add	8.17	
			For Elevated Installation >40' Above Floor, Add	8.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33	13-0267	EA	3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.85	9.42
			For Work In Restricted Working Space, Add	5.65	
			For Elevated Installation >10' To 15' Above Floor, Add	1.88	
			For Elevated Installation >15' To 20' Above Floor, Add	3.77	
			For Elevated Installation >20' To 25' Above Floor, Add	4.71	
			For Elevated Installation >25' To 30' Above Floor, Add	6.59	
			For Elevated Installation >30' To 35' Above Floor, Add	7.54	
			For Elevated Installation >35' To 40' Above Floor, Add	9.42	
			For Elevated Installation >40' Above Floor, Add	10.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33	13-0268	EA	1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	28.18	11.94
			For Work In Restricted Working Space, Add	7.16	
			For Elevated Installation >10' To 15' Above Floor, Add	2.39	
			For Elevated Installation >15' To 20' Above Floor, Add	4.77	
			For Elevated Installation >20' To 25' Above Floor, Add	5.97	
			For Elevated Installation >25' To 30' Above Floor, Add	8.35	
			For Elevated Installation >30' To 35' Above Floor, Add	9.55	
			For Elevated Installation >35' To 40' Above Floor, Add	11.94	
			For Elevated Installation >40' Above Floor, Add	13.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0269	EA	1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	32.92	13.82
		For Work In Restricted Working Space, Add	.....	8.29	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	2.76	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	5.53	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	6.91	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	9.67	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	11.06	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	13.82	
		For Elevated Installation >40' Above Floor, Add	.....	15.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	8.29	
26 05 33 13-0270	EA	1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	38.10	15.71
		For Work In Restricted Working Space, Add	.....	9.42	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	3.14	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	6.28	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	7.85	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	10.99	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	12.56	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	15.71	
		For Elevated Installation >40' Above Floor, Add	.....	17.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	9.42	
26 05 33 13-0271	EA	2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	43.91	17.59
		For Work In Restricted Working Space, Add	.....	10.55	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	3.52	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	7.04	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	8.80	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	12.31	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	14.07	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	17.59	
		For Elevated Installation >40' Above Floor, Add	.....	19.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	10.55	
26 05 33 13-0272	EA	2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	60.47	21.36
		For Work In Restricted Working Space, Add	.....	12.82	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	4.27	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	8.54	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	10.68	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	14.95	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	17.09	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	21.36	
		For Elevated Installation >40' Above Floor, Add	.....	23.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	12.82	
26 05 33 13-0273	EA	3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	80.61	29.53
		For Work In Restricted Working Space, Add	.....	17.72	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	5.91	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	11.81	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	14.76	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	20.67	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	23.62	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	29.53	
		For Elevated Installation >40' Above Floor, Add	.....	32.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	17.72	
26 05 33 13-0274	EA	3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	92.83	33.29
		For Work In Restricted Working Space, Add	.....	19.98	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	6.66	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	13.32	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	16.65	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	23.31	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	26.64	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	33.30	
		For Elevated Installation >40' Above Floor, Add	.....	36.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	19.98	
26 05 33 13-0275	EA	4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	116.15	43.35
		For Work In Restricted Working Space, Add	.....	26.01	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	8.67	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	17.34	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	21.67	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	30.34	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	34.68	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	43.35	
		For Elevated Installation >40' Above Floor, Add	.....	47.68	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	26.01	
26 05 33 13-0276	EA	1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	.....	19.23	8.17
		For Work In Restricted Working Space, Add	.....	4.90	
		For Elevated Installation >10' To 15' Above Floor, Add	.....	1.63	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	3.27	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	4.09	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	5.72	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	6.54	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	8.17	
		For Elevated Installation >40' Above Floor, Add	.....	8.99	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	4.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0277	EA	3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	22.30	9.42
			For Work In Restricted Working Space, Add	5.65	
			For Elevated Installation >10' To 15' Above Floor, Add	1.88	
			For Elevated Installation >15' To 20' Above Floor, Add	3.77	
			For Elevated Installation >20' To 25' Above Floor, Add	4.71	
			For Elevated Installation >25' To 30' Above Floor, Add	6.59	
			For Elevated Installation >30' To 35' Above Floor, Add	7.54	
			For Elevated Installation >35' To 40' Above Floor, Add	9.42	
			For Elevated Installation >40' Above Floor, Add	10.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33	13-0278	EA	1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	28.75	11.94
			For Work In Restricted Working Space, Add	7.16	
			For Elevated Installation >10' To 15' Above Floor, Add	2.39	
			For Elevated Installation >15' To 20' Above Floor, Add	4.77	
			For Elevated Installation >20' To 25' Above Floor, Add	5.97	
			For Elevated Installation >25' To 30' Above Floor, Add	8.35	
			For Elevated Installation >30' To 35' Above Floor, Add	9.55	
			For Elevated Installation >35' To 40' Above Floor, Add	11.94	
			For Elevated Installation >40' Above Floor, Add	13.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33	13-0279	EA	1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	33.76	13.82
			For Work In Restricted Working Space, Add	8.29	
			For Elevated Installation >10' To 15' Above Floor, Add	2.76	
			For Elevated Installation >15' To 20' Above Floor, Add	5.53	
			For Elevated Installation >20' To 25' Above Floor, Add	6.91	
			For Elevated Installation >25' To 30' Above Floor, Add	9.67	
			For Elevated Installation >30' To 35' Above Floor, Add	11.06	
			For Elevated Installation >35' To 40' Above Floor, Add	13.82	
			For Elevated Installation >40' Above Floor, Add	15.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33	13-0280	EA	1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	38.92	15.71
			For Work In Restricted Working Space, Add	9.42	
			For Elevated Installation >10' To 15' Above Floor, Add	3.14	
			For Elevated Installation >15' To 20' Above Floor, Add	6.28	
			For Elevated Installation >20' To 25' Above Floor, Add	7.85	
			For Elevated Installation >25' To 30' Above Floor, Add	10.99	
			For Elevated Installation >30' To 35' Above Floor, Add	12.56	
			For Elevated Installation >35' To 40' Above Floor, Add	15.71	
			For Elevated Installation >40' Above Floor, Add	17.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33	13-0281	EA	2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	45.37	17.59
			For Work In Restricted Working Space, Add	10.55	
			For Elevated Installation >10' To 15' Above Floor, Add	3.52	
			For Elevated Installation >15' To 20' Above Floor, Add	7.04	
			For Elevated Installation >20' To 25' Above Floor, Add	8.80	
			For Elevated Installation >25' To 30' Above Floor, Add	12.31	
			For Elevated Installation >30' To 35' Above Floor, Add	14.07	
			For Elevated Installation >35' To 40' Above Floor, Add	17.59	
			For Elevated Installation >40' Above Floor, Add	19.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33	13-0282	EA	2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	63.70	21.36
			For Work In Restricted Working Space, Add	12.82	
			For Elevated Installation >10' To 15' Above Floor, Add	4.27	
			For Elevated Installation >15' To 20' Above Floor, Add	8.54	
			For Elevated Installation >20' To 25' Above Floor, Add	10.68	
			For Elevated Installation >25' To 30' Above Floor, Add	14.95	
			For Elevated Installation >30' To 35' Above Floor, Add	17.09	
			For Elevated Installation >35' To 40' Above Floor, Add	21.36	
			For Elevated Installation >40' Above Floor, Add	23.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.82	
26 05 33	13-0283	EA	3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	84.11	29.53
			For Work In Restricted Working Space, Add	17.72	
			For Elevated Installation >10' To 15' Above Floor, Add	5.91	
			For Elevated Installation >15' To 20' Above Floor, Add	11.81	
			For Elevated Installation >20' To 25' Above Floor, Add	14.76	
			For Elevated Installation >25' To 30' Above Floor, Add	20.67	
			For Elevated Installation >30' To 35' Above Floor, Add	23.62	
			For Elevated Installation >35' To 40' Above Floor, Add	29.53	
			For Elevated Installation >40' Above Floor, Add	32.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33	13-0284	EA	3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	96.31	33.29
			For Work In Restricted Working Space, Add	19.98	
			For Elevated Installation >10' To 15' Above Floor, Add	6.66	
			For Elevated Installation >15' To 20' Above Floor, Add	13.32	
			For Elevated Installation >20' To 25' Above Floor, Add	16.65	
			For Elevated Installation >25' To 30' Above Floor, Add	23.31	
			For Elevated Installation >30' To 35' Above Floor, Add	26.64	
			For Elevated Installation >35' To 40' Above Floor, Add	33.30	
			For Elevated Installation >40' Above Floor, Add	36.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.98	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0285	EA		4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	121.23	43.35
			For Work In Restricted Working Space, Add	26.01	
			For Elevated Installation >10' To 15' Above Floor, Add	8.67	
			For Elevated Installation >15' To 20' Above Floor, Add	17.34	
			For Elevated Installation >20' To 25' Above Floor, Add	21.67	
			For Elevated Installation >25' To 30' Above Floor, Add	30.34	
			For Elevated Installation >30' To 35' Above Floor, Add	34.68	
			For Elevated Installation >35' To 40' Above Floor, Add	43.35	
			For Elevated Installation >40' Above Floor, Add	47.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 05 33 13-0286	EA		5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	186.41	59.68
			For Work In Restricted Working Space, Add	35.81	
			For Elevated Installation >10' To 15' Above Floor, Add	11.94	
			For Elevated Installation >15' To 20' Above Floor, Add	23.87	
			For Elevated Installation >20' To 25' Above Floor, Add	29.84	
			For Elevated Installation >25' To 30' Above Floor, Add	41.78	
			For Elevated Installation >30' To 35' Above Floor, Add	47.75	
			For Elevated Installation >35' To 40' Above Floor, Add	59.69	
			For Elevated Installation >40' Above Floor, Add	65.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.81	
26 05 33 13-0287	EA		6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	236.70	76.52
			For Work In Restricted Working Space, Add	45.94	
			For Elevated Installation >10' To 15' Above Floor, Add	15.31	
			For Elevated Installation >15' To 20' Above Floor, Add	30.63	
			For Elevated Installation >20' To 25' Above Floor, Add	38.29	
			For Elevated Installation >25' To 30' Above Floor, Add	53.60	
			For Elevated Installation >30' To 35' Above Floor, Add	61.26	
			For Elevated Installation >35' To 40' Above Floor, Add	76.57	
			For Elevated Installation >40' Above Floor, Add	84.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.94	
26 05 33 13-0288	EA		1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	19.79	8.17
			For Work In Restricted Working Space, Add	4.90	
			For Elevated Installation >10' To 15' Above Floor, Add	1.63	
			For Elevated Installation >15' To 20' Above Floor, Add	3.27	
			For Elevated Installation >20' To 25' Above Floor, Add	4.09	
			For Elevated Installation >25' To 30' Above Floor, Add	5.72	
			For Elevated Installation >30' To 35' Above Floor, Add	6.54	
			For Elevated Installation >35' To 40' Above Floor, Add	8.17	
			For Elevated Installation >40' Above Floor, Add	8.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33 13-0289	EA		3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	22.87	9.42
			For Work In Restricted Working Space, Add	5.65	
			For Elevated Installation >10' To 15' Above Floor, Add	1.88	
			For Elevated Installation >15' To 20' Above Floor, Add	3.77	
			For Elevated Installation >20' To 25' Above Floor, Add	4.71	
			For Elevated Installation >25' To 30' Above Floor, Add	6.59	
			For Elevated Installation >30' To 35' Above Floor, Add	7.54	
			For Elevated Installation >35' To 40' Above Floor, Add	9.42	
			For Elevated Installation >40' Above Floor, Add	10.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33 13-0290	EA		1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	29.21	11.94
			For Work In Restricted Working Space, Add	7.16	
			For Elevated Installation >10' To 15' Above Floor, Add	2.39	
			For Elevated Installation >15' To 20' Above Floor, Add	4.77	
			For Elevated Installation >20' To 25' Above Floor, Add	5.97	
			For Elevated Installation >25' To 30' Above Floor, Add	8.35	
			For Elevated Installation >30' To 35' Above Floor, Add	9.55	
			For Elevated Installation >35' To 40' Above Floor, Add	11.94	
			For Elevated Installation >40' Above Floor, Add	13.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-0291	EA		1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	34.52	13.82
			For Work In Restricted Working Space, Add	8.29	
			For Elevated Installation >10' To 15' Above Floor, Add	2.76	
			For Elevated Installation >15' To 20' Above Floor, Add	5.53	
			For Elevated Installation >20' To 25' Above Floor, Add	6.91	
			For Elevated Installation >25' To 30' Above Floor, Add	9.67	
			For Elevated Installation >30' To 35' Above Floor, Add	11.06	
			For Elevated Installation >35' To 40' Above Floor, Add	13.82	
			For Elevated Installation >40' Above Floor, Add	15.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-0292	EA		1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	40.64	15.71
			For Work In Restricted Working Space, Add	9.42	
			For Elevated Installation >10' To 15' Above Floor, Add	3.14	
			For Elevated Installation >15' To 20' Above Floor, Add	6.28	
			For Elevated Installation >20' To 25' Above Floor, Add	7.85	
			For Elevated Installation >25' To 30' Above Floor, Add	10.99	
			For Elevated Installation >30' To 35' Above Floor, Add	12.56	
			For Elevated Installation >35' To 40' Above Floor, Add	15.71	
			For Elevated Installation >40' Above Floor, Add	17.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0293	EA	2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	46.83	17.59
		For Work In Restricted Working Space, Add	10.55	
		For Elevated Installation >10' To 15' Above Floor, Add	3.52	
		For Elevated Installation >15' To 20' Above Floor, Add	7.04	
		For Elevated Installation >20' To 25' Above Floor, Add	8.80	
		For Elevated Installation >25' To 30' Above Floor, Add	12.31	
		For Elevated Installation >30' To 35' Above Floor, Add	14.07	
		For Elevated Installation >35' To 40' Above Floor, Add	17.59	
		For Elevated Installation >40' Above Floor, Add	19.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-0294	EA	2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	66.53	21.36
		For Work In Restricted Working Space, Add	12.82	
		For Elevated Installation >10' To 15' Above Floor, Add	4.27	
		For Elevated Installation >15' To 20' Above Floor, Add	8.54	
		For Elevated Installation >20' To 25' Above Floor, Add	10.68	
		For Elevated Installation >25' To 30' Above Floor, Add	14.95	
		For Elevated Installation >30' To 35' Above Floor, Add	17.09	
		For Elevated Installation >35' To 40' Above Floor, Add	21.36	
		For Elevated Installation >40' Above Floor, Add	23.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.82	
26 05 33 13-0295	EA	3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	87.67	29.53
		For Work In Restricted Working Space, Add	17.72	
		For Elevated Installation >10' To 15' Above Floor, Add	5.91	
		For Elevated Installation >15' To 20' Above Floor, Add	11.81	
		For Elevated Installation >20' To 25' Above Floor, Add	14.76	
		For Elevated Installation >25' To 30' Above Floor, Add	20.67	
		For Elevated Installation >30' To 35' Above Floor, Add	23.62	
		For Elevated Installation >35' To 40' Above Floor, Add	29.53	
		For Elevated Installation >40' Above Floor, Add	32.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33 13-0296	EA	3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	100.55	33.29
		For Work In Restricted Working Space, Add	19.98	
		For Elevated Installation >10' To 15' Above Floor, Add	6.66	
		For Elevated Installation >15' To 20' Above Floor, Add	13.32	
		For Elevated Installation >20' To 25' Above Floor, Add	16.65	
		For Elevated Installation >25' To 30' Above Floor, Add	23.31	
		For Elevated Installation >30' To 35' Above Floor, Add	26.64	
		For Elevated Installation >35' To 40' Above Floor, Add	33.30	
		For Elevated Installation >40' Above Floor, Add	36.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.98	
26 05 33 13-0297	EA	4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	125.26	43.35
		For Work In Restricted Working Space, Add	26.01	
		For Elevated Installation >10' To 15' Above Floor, Add	8.67	
		For Elevated Installation >15' To 20' Above Floor, Add	17.34	
		For Elevated Installation >20' To 25' Above Floor, Add	21.67	
		For Elevated Installation >25' To 30' Above Floor, Add	30.34	
		For Elevated Installation >30' To 35' Above Floor, Add	34.68	
		For Elevated Installation >35' To 40' Above Floor, Add	43.35	
		For Elevated Installation >40' Above Floor, Add	47.68	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 05 33 13-0298	EA	5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	192.32	59.68
		For Work In Restricted Working Space, Add	35.81	
		For Elevated Installation >10' To 15' Above Floor, Add	11.94	
		For Elevated Installation >15' To 20' Above Floor, Add	23.87	
		For Elevated Installation >20' To 25' Above Floor, Add	29.84	
		For Elevated Installation >25' To 30' Above Floor, Add	41.78	
		For Elevated Installation >30' To 35' Above Floor, Add	47.75	
		For Elevated Installation >35' To 40' Above Floor, Add	59.69	
		For Elevated Installation >40' Above Floor, Add	65.65	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.81	
26 05 33 13-0299	EA	6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	245.34	76.52
		For Work In Restricted Working Space, Add	45.94	
		For Elevated Installation >10' To 15' Above Floor, Add	15.31	
		For Elevated Installation >15' To 20' Above Floor, Add	30.63	
		For Elevated Installation >20' To 25' Above Floor, Add	38.29	
		For Elevated Installation >25' To 30' Above Floor, Add	53.60	
		For Elevated Installation >30' To 35' Above Floor, Add	61.26	
		For Elevated Installation >35' To 40' Above Floor, Add	76.57	
		For Elevated Installation >40' Above Floor, Add	84.23	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.94	
26 05 33 13-0300	EA	1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	21.83	8.17
		For Work In Restricted Working Space, Add	4.90	
		For Elevated Installation >10' To 15' Above Floor, Add	1.63	
		For Elevated Installation >15' To 20' Above Floor, Add	3.27	
		For Elevated Installation >20' To 25' Above Floor, Add	4.09	
		For Elevated Installation >25' To 30' Above Floor, Add	5.72	
		For Elevated Installation >30' To 35' Above Floor, Add	6.54	
		For Elevated Installation >35' To 40' Above Floor, Add	8.17	
		For Elevated Installation >40' Above Floor, Add	8.99	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0301 EA 3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	25.49	9.42
For Work In Restricted Working Space, Add	5.65	
For Elevated Installation >10' To 15' Above Floor, Add	1.88	
For Elevated Installation >15' To 20' Above Floor, Add	3.77	
For Elevated Installation >20' To 25' Above Floor, Add	4.71	
For Elevated Installation >25' To 30' Above Floor, Add	6.59	
For Elevated Installation >30' To 35' Above Floor, Add	7.54	
For Elevated Installation >35' To 40' Above Floor, Add	9.42	
For Elevated Installation >40' Above Floor, Add	10.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33 13-0302 EA 1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	32.29	11.94
For Work In Restricted Working Space, Add	7.16	
For Elevated Installation >10' To 15' Above Floor, Add	2.39	
For Elevated Installation >15' To 20' Above Floor, Add	4.77	
For Elevated Installation >20' To 25' Above Floor, Add	5.97	
For Elevated Installation >25' To 30' Above Floor, Add	8.35	
For Elevated Installation >30' To 35' Above Floor, Add	9.55	
For Elevated Installation >35' To 40' Above Floor, Add	11.94	
For Elevated Installation >40' Above Floor, Add	13.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-0303 EA 1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	38.91	13.82
For Work In Restricted Working Space, Add	8.29	
For Elevated Installation >10' To 15' Above Floor, Add	2.76	
For Elevated Installation >15' To 20' Above Floor, Add	5.53	
For Elevated Installation >20' To 25' Above Floor, Add	6.91	
For Elevated Installation >25' To 30' Above Floor, Add	9.67	
For Elevated Installation >30' To 35' Above Floor, Add	11.06	
For Elevated Installation >35' To 40' Above Floor, Add	13.82	
For Elevated Installation >40' Above Floor, Add	15.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-0304 EA 1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	45.53	15.71
For Work In Restricted Working Space, Add	9.42	
For Elevated Installation >10' To 15' Above Floor, Add	3.14	
For Elevated Installation >15' To 20' Above Floor, Add	6.28	
For Elevated Installation >20' To 25' Above Floor, Add	7.85	
For Elevated Installation >25' To 30' Above Floor, Add	10.99	
For Elevated Installation >30' To 35' Above Floor, Add	12.56	
For Elevated Installation >35' To 40' Above Floor, Add	15.71	
For Elevated Installation >40' Above Floor, Add	17.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-0305 EA 2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	51.98	17.59
For Work In Restricted Working Space, Add	10.55	
For Elevated Installation >10' To 15' Above Floor, Add	3.52	
For Elevated Installation >15' To 20' Above Floor, Add	7.04	
For Elevated Installation >20' To 25' Above Floor, Add	8.80	
For Elevated Installation >25' To 30' Above Floor, Add	12.31	
For Elevated Installation >30' To 35' Above Floor, Add	14.07	
For Elevated Installation >35' To 40' Above Floor, Add	17.59	
For Elevated Installation >40' Above Floor, Add	19.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-0306 EA 2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	74.03	21.36
For Work In Restricted Working Space, Add	12.82	
For Elevated Installation >10' To 15' Above Floor, Add	4.27	
For Elevated Installation >15' To 20' Above Floor, Add	8.54	
For Elevated Installation >20' To 25' Above Floor, Add	10.68	
For Elevated Installation >25' To 30' Above Floor, Add	14.95	
For Elevated Installation >30' To 35' Above Floor, Add	17.09	
For Elevated Installation >35' To 40' Above Floor, Add	21.36	
For Elevated Installation >40' Above Floor, Add	23.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.82	
26 05 33 13-0307 EA 3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	96.29	29.53
For Work In Restricted Working Space, Add	17.72	
For Elevated Installation >10' To 15' Above Floor, Add	5.91	
For Elevated Installation >15' To 20' Above Floor, Add	11.81	
For Elevated Installation >20' To 25' Above Floor, Add	14.76	
For Elevated Installation >25' To 30' Above Floor, Add	20.67	
For Elevated Installation >30' To 35' Above Floor, Add	23.62	
For Elevated Installation >35' To 40' Above Floor, Add	29.53	
For Elevated Installation >40' Above Floor, Add	32.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33 13-0308 EA 3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	109.15	33.29
For Work In Restricted Working Space, Add	19.98	
For Elevated Installation >10' To 15' Above Floor, Add	6.66	
For Elevated Installation >15' To 20' Above Floor, Add	13.32	
For Elevated Installation >20' To 25' Above Floor, Add	16.65	
For Elevated Installation >25' To 30' Above Floor, Add	23.31	
For Elevated Installation >30' To 35' Above Floor, Add	26.64	
For Elevated Installation >35' To 40' Above Floor, Add	33.30	
For Elevated Installation >40' Above Floor, Add	36.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0309	EA	4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	134.76	43.35
			For Work In Restricted Working Space, Add	26.01	
			For Elevated Installation >10' To 15' Above Floor, Add	8.67	
			For Elevated Installation >15' To 20' Above Floor, Add	17.34	
			For Elevated Installation >20' To 25' Above Floor, Add	21.67	
			For Elevated Installation >25' To 30' Above Floor, Add	30.34	
			For Elevated Installation >30' To 35' Above Floor, Add	34.68	
			For Elevated Installation >35' To 40' Above Floor, Add	43.35	
			For Elevated Installation >40' Above Floor, Add	47.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 05 33	13-0310	EA	5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	206.02	59.68
			For Work In Restricted Working Space, Add	35.81	
			For Elevated Installation >10' To 15' Above Floor, Add	11.94	
			For Elevated Installation >15' To 20' Above Floor, Add	23.87	
			For Elevated Installation >20' To 25' Above Floor, Add	29.84	
			For Elevated Installation >25' To 30' Above Floor, Add	41.78	
			For Elevated Installation >30' To 35' Above Floor, Add	47.75	
			For Elevated Installation >35' To 40' Above Floor, Add	59.69	
			For Elevated Installation >40' Above Floor, Add	65.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.81	
26 05 33	13-0311	EA	6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	260.73	76.52
			For Work In Restricted Working Space, Add	45.94	
			For Elevated Installation >10' To 15' Above Floor, Add	15.31	
			For Elevated Installation >15' To 20' Above Floor, Add	30.63	
			For Elevated Installation >20' To 25' Above Floor, Add	38.29	
			For Elevated Installation >25' To 30' Above Floor, Add	53.60	
			For Elevated Installation >30' To 35' Above Floor, Add	61.26	
			For Elevated Installation >35' To 40' Above Floor, Add	76.57	
			For Elevated Installation >40' Above Floor, Add	84.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.94	
26 05 33	13-0312	EA	1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	23.21	8.17
			For Work In Restricted Working Space, Add	4.90	
			For Elevated Installation >10' To 15' Above Floor, Add	1.63	
			For Elevated Installation >15' To 20' Above Floor, Add	3.27	
			For Elevated Installation >20' To 25' Above Floor, Add	4.09	
			For Elevated Installation >25' To 30' Above Floor, Add	5.72	
			For Elevated Installation >30' To 35' Above Floor, Add	6.54	
			For Elevated Installation >35' To 40' Above Floor, Add	8.17	
			For Elevated Installation >40' Above Floor, Add	8.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33	13-0313	EA	3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	26.82	9.42
			For Work In Restricted Working Space, Add	5.65	
			For Elevated Installation >10' To 15' Above Floor, Add	1.88	
			For Elevated Installation >15' To 20' Above Floor, Add	3.77	
			For Elevated Installation >20' To 25' Above Floor, Add	4.71	
			For Elevated Installation >25' To 30' Above Floor, Add	6.59	
			For Elevated Installation >30' To 35' Above Floor, Add	7.54	
			For Elevated Installation >35' To 40' Above Floor, Add	9.42	
			For Elevated Installation >40' Above Floor, Add	10.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33	13-0314	EA	1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	34.73	11.94
			For Work In Restricted Working Space, Add	7.16	
			For Elevated Installation >10' To 15' Above Floor, Add	2.39	
			For Elevated Installation >15' To 20' Above Floor, Add	4.77	
			For Elevated Installation >20' To 25' Above Floor, Add	5.97	
			For Elevated Installation >25' To 30' Above Floor, Add	8.35	
			For Elevated Installation >30' To 35' Above Floor, Add	9.55	
			For Elevated Installation >35' To 40' Above Floor, Add	11.94	
			For Elevated Installation >40' Above Floor, Add	13.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33	13-0315	EA	1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	41.82	13.82
			For Work In Restricted Working Space, Add	8.29	
			For Elevated Installation >10' To 15' Above Floor, Add	2.76	
			For Elevated Installation >15' To 20' Above Floor, Add	5.53	
			For Elevated Installation >20' To 25' Above Floor, Add	6.91	
			For Elevated Installation >25' To 30' Above Floor, Add	9.67	
			For Elevated Installation >30' To 35' Above Floor, Add	11.06	
			For Elevated Installation >35' To 40' Above Floor, Add	13.82	
			For Elevated Installation >40' Above Floor, Add	15.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33	13-0316	EA	1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	48.39	15.71
			For Work In Restricted Working Space, Add	9.42	
			For Elevated Installation >10' To 15' Above Floor, Add	3.14	
			For Elevated Installation >15' To 20' Above Floor, Add	6.28	
			For Elevated Installation >20' To 25' Above Floor, Add	7.85	
			For Elevated Installation >25' To 30' Above Floor, Add	10.99	
			For Elevated Installation >30' To 35' Above Floor, Add	12.56	
			For Elevated Installation >35' To 40' Above Floor, Add	15.71	
			For Elevated Installation >40' Above Floor, Add	17.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0317 EA 2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	55.30	17.59
For Work In Restricted Working Space, Add	10.55	
For Elevated Installation >10' To 15' Above Floor, Add	3.52	
For Elevated Installation >15' To 20' Above Floor, Add	7.04	
For Elevated Installation >20' To 25' Above Floor, Add	8.80	
For Elevated Installation >25' To 30' Above Floor, Add	12.31	
For Elevated Installation >30' To 35' Above Floor, Add	14.07	
For Elevated Installation >35' To 40' Above Floor, Add	17.59	
For Elevated Installation >40' Above Floor, Add	19.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-0318 EA 2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	79.08	21.36
For Work In Restricted Working Space, Add	12.82	
For Elevated Installation >10' To 15' Above Floor, Add	4.27	
For Elevated Installation >15' To 20' Above Floor, Add	8.54	
For Elevated Installation >20' To 25' Above Floor, Add	10.68	
For Elevated Installation >25' To 30' Above Floor, Add	14.95	
For Elevated Installation >30' To 35' Above Floor, Add	17.09	
For Elevated Installation >35' To 40' Above Floor, Add	21.36	
For Elevated Installation >40' Above Floor, Add	23.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.82	
26 05 33 13-0319 EA 3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	103.06	29.53
For Work In Restricted Working Space, Add	17.72	
For Elevated Installation >10' To 15' Above Floor, Add	5.91	
For Elevated Installation >15' To 20' Above Floor, Add	11.81	
For Elevated Installation >20' To 25' Above Floor, Add	14.76	
For Elevated Installation >25' To 30' Above Floor, Add	20.67	
For Elevated Installation >30' To 35' Above Floor, Add	23.62	
For Elevated Installation >35' To 40' Above Floor, Add	29.53	
For Elevated Installation >40' Above Floor, Add	32.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33 13-0320 EA 3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	118.07	33.29
For Work In Restricted Working Space, Add	19.98	
For Elevated Installation >10' To 15' Above Floor, Add	6.66	
For Elevated Installation >15' To 20' Above Floor, Add	13.32	
For Elevated Installation >20' To 25' Above Floor, Add	16.65	
For Elevated Installation >25' To 30' Above Floor, Add	23.31	
For Elevated Installation >30' To 35' Above Floor, Add	26.64	
For Elevated Installation >35' To 40' Above Floor, Add	33.30	
For Elevated Installation >40' Above Floor, Add	36.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.98	
26 05 33 13-0321 EA 4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	146.06	43.35
For Work In Restricted Working Space, Add	26.01	
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.34	
For Elevated Installation >20' To 25' Above Floor, Add	21.67	
For Elevated Installation >25' To 30' Above Floor, Add	30.34	
For Elevated Installation >30' To 35' Above Floor, Add	34.68	
For Elevated Installation >35' To 40' Above Floor, Add	43.35	
For Elevated Installation >40' Above Floor, Add	47.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 05 33 13-0322 EA 5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	220.96	59.68
For Work In Restricted Working Space, Add	35.81	
For Elevated Installation >10' To 15' Above Floor, Add	11.94	
For Elevated Installation >15' To 20' Above Floor, Add	23.87	
For Elevated Installation >20' To 25' Above Floor, Add	29.84	
For Elevated Installation >25' To 30' Above Floor, Add	41.78	
For Elevated Installation >30' To 35' Above Floor, Add	47.75	
For Elevated Installation >35' To 40' Above Floor, Add	59.69	
For Elevated Installation >40' Above Floor, Add	65.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.81	
26 05 33 13-0323 EA 6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	287.60	76.52
For Work In Restricted Working Space, Add	45.94	
For Elevated Installation >10' To 15' Above Floor, Add	15.31	
For Elevated Installation >15' To 20' Above Floor, Add	30.63	
For Elevated Installation >20' To 25' Above Floor, Add	38.29	
For Elevated Installation >25' To 30' Above Floor, Add	53.60	
For Elevated Installation >30' To 35' Above Floor, Add	61.26	
For Elevated Installation >35' To 40' Above Floor, Add	76.57	
For Elevated Installation >40' Above Floor, Add	84.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.94	
26 05 33 13-0324 EA 1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	24.26	8.17
For Work In Restricted Working Space, Add	4.90	
For Elevated Installation >10' To 15' Above Floor, Add	1.63	
For Elevated Installation >15' To 20' Above Floor, Add	3.27	
For Elevated Installation >20' To 25' Above Floor, Add	4.09	
For Elevated Installation >25' To 30' Above Floor, Add	5.72	
For Elevated Installation >30' To 35' Above Floor, Add	6.54	
For Elevated Installation >35' To 40' Above Floor, Add	8.17	
For Elevated Installation >40' Above Floor, Add	8.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0325	EA	3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	27.81	9.42
			For Work In Restricted Working Space, Add	5.65	
			For Elevated Installation >10' To 15' Above Floor, Add	1.88	
			For Elevated Installation >15' To 20' Above Floor, Add	3.77	
			For Elevated Installation >20' To 25' Above Floor, Add	4.71	
			For Elevated Installation >25' To 30' Above Floor, Add	6.59	
			For Elevated Installation >30' To 35' Above Floor, Add	7.54	
			For Elevated Installation >35' To 40' Above Floor, Add	9.42	
			For Elevated Installation >40' Above Floor, Add	10.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33	13-0326	EA	1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	36.21	11.94
			For Work In Restricted Working Space, Add	7.16	
			For Elevated Installation >10' To 15' Above Floor, Add	2.39	
			For Elevated Installation >15' To 20' Above Floor, Add	4.77	
			For Elevated Installation >20' To 25' Above Floor, Add	5.97	
			For Elevated Installation >25' To 30' Above Floor, Add	8.35	
			For Elevated Installation >30' To 35' Above Floor, Add	9.55	
			For Elevated Installation >35' To 40' Above Floor, Add	11.94	
			For Elevated Installation >40' Above Floor, Add	13.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33	13-0327	EA	1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	44.15	13.82
			For Work In Restricted Working Space, Add	8.29	
			For Elevated Installation >10' To 15' Above Floor, Add	2.76	
			For Elevated Installation >15' To 20' Above Floor, Add	5.53	
			For Elevated Installation >20' To 25' Above Floor, Add	6.91	
			For Elevated Installation >25' To 30' Above Floor, Add	9.67	
			For Elevated Installation >30' To 35' Above Floor, Add	11.06	
			For Elevated Installation >35' To 40' Above Floor, Add	13.82	
			For Elevated Installation >40' Above Floor, Add	15.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33	13-0328	EA	1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	49.83	15.71
			For Work In Restricted Working Space, Add	9.42	
			For Elevated Installation >10' To 15' Above Floor, Add	3.14	
			For Elevated Installation >15' To 20' Above Floor, Add	6.28	
			For Elevated Installation >20' To 25' Above Floor, Add	7.85	
			For Elevated Installation >25' To 30' Above Floor, Add	10.99	
			For Elevated Installation >30' To 35' Above Floor, Add	12.56	
			For Elevated Installation >35' To 40' Above Floor, Add	15.71	
			For Elevated Installation >40' Above Floor, Add	17.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33	13-0329	EA	2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	58.09	17.59
			For Work In Restricted Working Space, Add	10.55	
			For Elevated Installation >10' To 15' Above Floor, Add	3.52	
			For Elevated Installation >15' To 20' Above Floor, Add	7.04	
			For Elevated Installation >20' To 25' Above Floor, Add	8.80	
			For Elevated Installation >25' To 30' Above Floor, Add	12.31	
			For Elevated Installation >30' To 35' Above Floor, Add	14.07	
			For Elevated Installation >35' To 40' Above Floor, Add	17.59	
			For Elevated Installation >40' Above Floor, Add	19.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33	13-0330	EA	2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	85.01	21.36
			For Work In Restricted Working Space, Add	12.82	
			For Elevated Installation >10' To 15' Above Floor, Add	4.27	
			For Elevated Installation >15' To 20' Above Floor, Add	8.54	
			For Elevated Installation >20' To 25' Above Floor, Add	10.68	
			For Elevated Installation >25' To 30' Above Floor, Add	14.95	
			For Elevated Installation >30' To 35' Above Floor, Add	17.09	
			For Elevated Installation >35' To 40' Above Floor, Add	21.36	
			For Elevated Installation >40' Above Floor, Add	23.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.82	
26 05 33	13-0331	EA	3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	112.48	29.53
			For Work In Restricted Working Space, Add	17.72	
			For Elevated Installation >10' To 15' Above Floor, Add	5.91	
			For Elevated Installation >15' To 20' Above Floor, Add	11.81	
			For Elevated Installation >20' To 25' Above Floor, Add	14.76	
			For Elevated Installation >25' To 30' Above Floor, Add	20.67	
			For Elevated Installation >30' To 35' Above Floor, Add	23.62	
			For Elevated Installation >35' To 40' Above Floor, Add	29.53	
			For Elevated Installation >40' Above Floor, Add	32.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33	13-0332	EA	3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	126.76	33.29
			For Work In Restricted Working Space, Add	19.98	
			For Elevated Installation >10' To 15' Above Floor, Add	6.66	
			For Elevated Installation >15' To 20' Above Floor, Add	13.32	
			For Elevated Installation >20' To 25' Above Floor, Add	16.65	
			For Elevated Installation >25' To 30' Above Floor, Add	23.31	
			For Elevated Installation >30' To 35' Above Floor, Add	26.64	
			For Elevated Installation >35' To 40' Above Floor, Add	33.30	
			For Elevated Installation >40' Above Floor, Add	36.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.98	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0333 EA 4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	157.38	43.35
For Work In Restricted Working Space, Add	26.01	
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.34	
For Elevated Installation >20' To 25' Above Floor, Add	21.67	
For Elevated Installation >25' To 30' Above Floor, Add	30.34	
For Elevated Installation >30' To 35' Above Floor, Add	34.68	
For Elevated Installation >35' To 40' Above Floor, Add	43.35	
For Elevated Installation >40' Above Floor, Add	47.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 05 33 13-0334 EA 5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	242.43	59.68
For Work In Restricted Working Space, Add	35.81	
For Elevated Installation >10' To 15' Above Floor, Add	11.94	
For Elevated Installation >15' To 20' Above Floor, Add	23.87	
For Elevated Installation >20' To 25' Above Floor, Add	29.84	
For Elevated Installation >25' To 30' Above Floor, Add	41.78	
For Elevated Installation >30' To 35' Above Floor, Add	47.75	
For Elevated Installation >35' To 40' Above Floor, Add	59.69	
For Elevated Installation >40' Above Floor, Add	65.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.81	
26 05 33 13-0335 EA 6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	302.54	76.52
For Work In Restricted Working Space, Add	45.94	
For Elevated Installation >10' To 15' Above Floor, Add	15.31	
For Elevated Installation >15' To 20' Above Floor, Add	30.63	
For Elevated Installation >20' To 25' Above Floor, Add	38.29	
For Elevated Installation >25' To 30' Above Floor, Add	53.60	
For Elevated Installation >30' To 35' Above Floor, Add	61.26	
For Elevated Installation >35' To 40' Above Floor, Add	76.57	
For Elevated Installation >40' Above Floor, Add	84.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.94	
26 05 33 13-0336 Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0060)		
26 05 33 13-0337 EA 1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	18.65	6.53
For Work In Restricted Working Space, Add	4.94	
For Elevated Installation >10' To 15' Above Floor, Add	1.65	
For Elevated Installation >15' To 20' Above Floor, Add	3.29	
For Elevated Installation >20' To 25' Above Floor, Add	4.12	
For Elevated Installation >25' To 30' Above Floor, Add	5.76	
For Elevated Installation >30' To 35' Above Floor, Add	6.58	
For Elevated Installation >35' To 40' Above Floor, Add	8.23	
For Elevated Installation >40' Above Floor, Add	9.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	
26 05 33 13-0338 EA 3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	22.09	7.54
For Work In Restricted Working Space, Add	5.62	
For Elevated Installation >10' To 15' Above Floor, Add	1.87	
For Elevated Installation >15' To 20' Above Floor, Add	3.75	
For Elevated Installation >20' To 25' Above Floor, Add	4.69	
For Elevated Installation >25' To 30' Above Floor, Add	6.56	
For Elevated Installation >30' To 35' Above Floor, Add	7.50	
For Elevated Installation >35' To 40' Above Floor, Add	9.37	
For Elevated Installation >40' Above Floor, Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.62	
26 05 33 13-0339 EA 1" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	27.80	9.55
For Work In Restricted Working Space, Add	7.19	
For Elevated Installation >10' To 15' Above Floor, Add	2.40	
For Elevated Installation >15' To 20' Above Floor, Add	4.79	
For Elevated Installation >20' To 25' Above Floor, Add	5.99	
For Elevated Installation >25' To 30' Above Floor, Add	8.39	
For Elevated Installation >30' To 35' Above Floor, Add	9.59	
For Elevated Installation >35' To 40' Above Floor, Add	11.99	
For Elevated Installation >40' Above Floor, Add	13.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.19	
26 05 33 13-0340 EA 1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated.....	34.90	11.44
For Work In Restricted Working Space, Add	8.62	
For Elevated Installation >10' To 15' Above Floor, Add	2.87	
For Elevated Installation >15' To 20' Above Floor, Add	5.74	
For Elevated Installation >20' To 25' Above Floor, Add	7.18	
For Elevated Installation >25' To 30' Above Floor, Add	10.05	
For Elevated Installation >30' To 35' Above Floor, Add	11.49	
For Elevated Installation >35' To 40' Above Floor, Add	14.36	
For Elevated Installation >40' Above Floor, Add	15.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.62	
26 05 33 13-0341 EA 1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated.....	38.22	12.57
For Work In Restricted Working Space, Add	9.43	
For Elevated Installation >10' To 15' Above Floor, Add	3.14	
For Elevated Installation >15' To 20' Above Floor, Add	6.29	
For Elevated Installation >20' To 25' Above Floor, Add	7.86	
For Elevated Installation >25' To 30' Above Floor, Add	11.00	
For Elevated Installation >30' To 35' Above Floor, Add	12.58	
For Elevated Installation >35' To 40' Above Floor, Add	15.72	
For Elevated Installation >40' Above Floor, Add	17.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0342 EA 2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.50 11.62 3.87 7.75 9.68 13.56 15.49 19.37 21.30 11.62	15.45
26 05 33 13-0343 EA 2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.76 18.85 6.28 12.56 15.71 21.99 25.13 31.41 34.55 18.85	25.13
26 05 33 13-0344 EA 3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.45 26.01 8.67 17.34 21.68 30.35 34.68 43.35 47.69 26.01	34.68
26 05 33 13-0345 EA 3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.88 30.56 10.19 20.37 25.46 35.65 40.74 50.93 56.02 30.56	40.96
26 05 33 13-0346 EA 4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	187.36 35.44 11.81 23.63 29.53 41.35 47.25 59.07 64.97 35.44	47.25
26 05 33 13-0347 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (26 05 33 13-0060) Note: Erickson fittings.		
26 05 33 13-0348 EA 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.09 15.10 5.03 10.06 12.58 17.61 20.13 25.16 27.68 15.10	20.10
26 05 33 13-0349 EA 3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.71 16.85 5.62 11.23 14.04 19.66 22.46 28.08 30.89 16.85	22.49
26 05 33 13-0350 EA 1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.11 18.77 6.26 12.51 15.64 21.90 25.02 31.28 34.41 18.77	25.01

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0351 EA 1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	82.44	27.39
For Work In Restricted Working Space, Add	20.54	
For Elevated Installation >10' To 15' Above Floor, Add	6.85	
For Elevated Installation >15' To 20' Above Floor, Add	13.69	
For Elevated Installation >20' To 25' Above Floor, Add	17.12	
For Elevated Installation >25' To 30' Above Floor, Add	23.96	
For Elevated Installation >30' To 35' Above Floor, Add	27.38	
For Elevated Installation >35' To 40' Above Floor, Add	34.23	
For Elevated Installation >40' Above Floor, Add	37.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.54	
26 05 33 13-0352 EA 1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	91.65	29.91
For Work In Restricted Working Space, Add	22.47	
For Elevated Installation >10' To 15' Above Floor, Add	7.49	
For Elevated Installation >15' To 20' Above Floor, Add	14.98	
For Elevated Installation >20' To 25' Above Floor, Add	18.73	
For Elevated Installation >25' To 30' Above Floor, Add	26.22	
For Elevated Installation >30' To 35' Above Floor, Add	29.96	
For Elevated Installation >35' To 40' Above Floor, Add	37.45	
For Elevated Installation >40' Above Floor, Add	41.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.47	
26 05 33 13-0353 EA 2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	114.66	32.42
For Work In Restricted Working Space, Add	24.33	
For Elevated Installation >10' To 15' Above Floor, Add	8.11	
For Elevated Installation >15' To 20' Above Floor, Add	16.22	
For Elevated Installation >20' To 25' Above Floor, Add	20.28	
For Elevated Installation >25' To 30' Above Floor, Add	28.39	
For Elevated Installation >30' To 35' Above Floor, Add	32.44	
For Elevated Installation >35' To 40' Above Floor, Add	40.56	
For Elevated Installation >40' Above Floor, Add	44.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.33	
26 05 33 13-0354 EA 2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	178.23	40.21
For Work In Restricted Working Space, Add	30.16	
For Elevated Installation >10' To 15' Above Floor, Add	10.05	
For Elevated Installation >15' To 20' Above Floor, Add	20.10	
For Elevated Installation >20' To 25' Above Floor, Add	25.13	
For Elevated Installation >25' To 30' Above Floor, Add	35.18	
For Elevated Installation >30' To 35' Above Floor, Add	40.21	
For Elevated Installation >35' To 40' Above Floor, Add	50.26	
For Elevated Installation >40' Above Floor, Add	55.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.16	
26 05 33 13-0355 EA 3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	243.60	50.26
For Work In Restricted Working Space, Add	37.70	
For Elevated Installation >10' To 15' Above Floor, Add	12.57	
For Elevated Installation >15' To 20' Above Floor, Add	25.13	
For Elevated Installation >20' To 25' Above Floor, Add	31.41	
For Elevated Installation >25' To 30' Above Floor, Add	43.98	
For Elevated Installation >30' To 35' Above Floor, Add	50.26	
For Elevated Installation >35' To 40' Above Floor, Add	62.83	
For Elevated Installation >40' Above Floor, Add	69.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.70	
26 05 33 13-0356 EA 3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	347.30	60.32
For Work In Restricted Working Space, Add	45.25	
For Elevated Installation >10' To 15' Above Floor, Add	15.08	
For Elevated Installation >15' To 20' Above Floor, Add	30.17	
For Elevated Installation >20' To 25' Above Floor, Add	37.71	
For Elevated Installation >25' To 30' Above Floor, Add	52.79	
For Elevated Installation >30' To 35' Above Floor, Add	60.34	
For Elevated Installation >35' To 40' Above Floor, Add	75.42	
For Elevated Installation >40' Above Floor, Add	82.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.25	
26 05 33 13-0357 EA 4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	394.37	65.34
For Work In Restricted Working Space, Add	49.00	
For Elevated Installation >10' To 15' Above Floor, Add	16.33	
For Elevated Installation >15' To 20' Above Floor, Add	32.67	
For Elevated Installation >20' To 25' Above Floor, Add	40.84	
For Elevated Installation >25' To 30' Above Floor, Add	57.17	
For Elevated Installation >30' To 35' Above Floor, Add	65.34	
For Elevated Installation >35' To 40' Above Floor, Add	81.67	
For Elevated Installation >40' Above Floor, Add	89.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.00	
26 05 33 13-0358 EA 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	675.19	80.42
For Work In Restricted Working Space, Add	60.31	
For Elevated Installation >10' To 15' Above Floor, Add	20.10	
For Elevated Installation >15' To 20' Above Floor, Add	40.21	
For Elevated Installation >20' To 25' Above Floor, Add	50.26	
For Elevated Installation >25' To 30' Above Floor, Add	70.36	
For Elevated Installation >30' To 35' Above Floor, Add	80.41	
For Elevated Installation >35' To 40' Above Floor, Add	100.52	
For Elevated Installation >40' Above Floor, Add	110.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.31	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0359	EA		6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	864.46	92.99
			For Work In Restricted Working Space, Add	69.73	
			For Elevated Installation >10' To 15' Above Floor, Add	23.24	
			For Elevated Installation >15' To 20' Above Floor, Add	46.49	
			For Elevated Installation >20' To 25' Above Floor, Add	58.11	
			For Elevated Installation >25' To 30' Above Floor, Add	81.35	
			For Elevated Installation >30' To 35' Above Floor, Add	92.98	
			For Elevated Installation >35' To 40' Above Floor, Add	116.22	
			For Elevated Installation >40' Above Floor, Add	127.84	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.73	
26 05 33 13-0360			Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0060)		
26 05 33 13-0361	EA		1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	31.01	10.05
			For Work In Restricted Working Space, Add	7.54	
			For Elevated Installation >10' To 15' Above Floor, Add	2.51	
			For Elevated Installation >15' To 20' Above Floor, Add	5.03	
			For Elevated Installation >20' To 25' Above Floor, Add	6.28	
			For Elevated Installation >25' To 30' Above Floor, Add	8.80	
			For Elevated Installation >30' To 35' Above Floor, Add	10.05	
			For Elevated Installation >35' To 40' Above Floor, Add	12.57	
			For Elevated Installation >40' Above Floor, Add	13.82	
26 05 33 13-0362	EA		3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	34.59	11.05
			For Work In Restricted Working Space, Add	8.29	
			For Elevated Installation >10' To 15' Above Floor, Add	2.76	
			For Elevated Installation >15' To 20' Above Floor, Add	5.53	
			For Elevated Installation >20' To 25' Above Floor, Add	6.91	
			For Elevated Installation >25' To 30' Above Floor, Add	9.67	
			For Elevated Installation >30' To 35' Above Floor, Add	11.06	
			For Elevated Installation >35' To 40' Above Floor, Add	13.82	
			For Elevated Installation >40' Above Floor, Add	15.20	
26 05 33 13-0363	EA		1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	39.70	12.57
			For Work In Restricted Working Space, Add	9.43	
			For Elevated Installation >10' To 15' Above Floor, Add	3.14	
			For Elevated Installation >15' To 20' Above Floor, Add	6.28	
			For Elevated Installation >20' To 25' Above Floor, Add	7.86	
			For Elevated Installation >25' To 30' Above Floor, Add	11.00	
			For Elevated Installation >30' To 35' Above Floor, Add	12.57	
			For Elevated Installation >35' To 40' Above Floor, Add	15.71	
			For Elevated Installation >40' Above Floor, Add	17.28	
26 05 33 13-0364	EA		1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	44.86	13.57
			For Work In Restricted Working Space, Add	10.18	
			For Elevated Installation >10' To 15' Above Floor, Add	3.39	
			For Elevated Installation >15' To 20' Above Floor, Add	6.79	
			For Elevated Installation >20' To 25' Above Floor, Add	8.48	
			For Elevated Installation >25' To 30' Above Floor, Add	11.88	
			For Elevated Installation >30' To 35' Above Floor, Add	13.57	
			For Elevated Installation >35' To 40' Above Floor, Add	16.97	
			For Elevated Installation >40' Above Floor, Add	18.66	
26 05 33 13-0365	EA		1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	52.92	15.07
			For Work In Restricted Working Space, Add	11.31	
			For Elevated Installation >10' To 15' Above Floor, Add	3.77	
			For Elevated Installation >15' To 20' Above Floor, Add	7.54	
			For Elevated Installation >20' To 25' Above Floor, Add	9.42	
			For Elevated Installation >25' To 30' Above Floor, Add	13.19	
			For Elevated Installation >30' To 35' Above Floor, Add	15.08	
			For Elevated Installation >35' To 40' Above Floor, Add	18.85	
			For Elevated Installation >40' Above Floor, Add	20.73	
26 05 33 13-0366	EA		2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	63.99	16.59
			For Work In Restricted Working Space, Add	12.44	
			For Elevated Installation >10' To 15' Above Floor, Add	4.15	
			For Elevated Installation >15' To 20' Above Floor, Add	8.29	
			For Elevated Installation >20' To 25' Above Floor, Add	10.37	
			For Elevated Installation >25' To 30' Above Floor, Add	14.51	
			For Elevated Installation >30' To 35' Above Floor, Add	16.59	
			For Elevated Installation >35' To 40' Above Floor, Add	20.74	
			For Elevated Installation >40' Above Floor, Add	22.81	
26 05 33 13-0367	EA		2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	86.35	20.10
			For Work In Restricted Working Space, Add	15.08	
			For Elevated Installation >10' To 15' Above Floor, Add	5.03	
			For Elevated Installation >15' To 20' Above Floor, Add	10.05	
			For Elevated Installation >20' To 25' Above Floor, Add	12.57	
			For Elevated Installation >25' To 30' Above Floor, Add	17.59	
			For Elevated Installation >30' To 35' Above Floor, Add	20.10	
			For Elevated Installation >35' To 40' Above Floor, Add	25.13	
			For Elevated Installation >40' Above Floor, Add	27.64	
26 05 33 13-0368	EA		3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	106.87	25.13
			For Work In Restricted Working Space, Add	18.85	
			For Elevated Installation >10' To 15' Above Floor, Add	6.28	
			For Elevated Installation >15' To 20' Above Floor, Add	12.57	
			For Elevated Installation >20' To 25' Above Floor, Add	15.71	
			For Elevated Installation >25' To 30' Above Floor, Add	21.99	
			For Elevated Installation >30' To 35' Above Floor, Add	25.13	
			For Elevated Installation >35' To 40' Above Floor, Add	31.42	
			For Elevated Installation >40' Above Floor, Add	34.56	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0369 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector 128.37		30.16
For Work In Restricted Working Space, Add	22.62	
For Elevated Installation >10' To 15' Above Floor, Add	7.54	
For Elevated Installation >15' To 20' Above Floor, Add	15.08	
For Elevated Installation >20' To 25' Above Floor, Add	18.85	
For Elevated Installation >25' To 30' Above Floor, Add	26.39	
For Elevated Installation >30' To 35' Above Floor, Add	30.16	
For Elevated Installation >35' To 40' Above Floor, Add	37.70	
For Elevated Installation >40' Above Floor, Add	41.46	
26 05 33 13-0370 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector 144.59		32.67
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
26 05 33 13-0371 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0060)		
26 05 33 13-0372 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs 27.50		11.31
For Work In Restricted Working Space, Add	6.79	
For Elevated Installation >10' To 15' Above Floor, Add	2.26	
For Elevated Installation >15' To 20' Above Floor, Add	4.52	
For Elevated Installation >20' To 25' Above Floor, Add	5.66	
For Elevated Installation >25' To 30' Above Floor, Add	7.92	
For Elevated Installation >30' To 35' Above Floor, Add	9.05	
For Elevated Installation >35' To 40' Above Floor, Add	11.31	
For Elevated Installation >40' Above Floor, Add	12.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 33 13-0373 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs 30.64		12.57
For Work In Restricted Working Space, Add	7.54	
For Elevated Installation >10' To 15' Above Floor, Add	2.51	
For Elevated Installation >15' To 20' Above Floor, Add	5.03	
For Elevated Installation >20' To 25' Above Floor, Add	6.28	
For Elevated Installation >25' To 30' Above Floor, Add	8.80	
For Elevated Installation >30' To 35' Above Floor, Add	10.05	
For Elevated Installation >35' To 40' Above Floor, Add	12.57	
For Elevated Installation >40' Above Floor, Add	13.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.54	
26 05 33 13-0374 EA 1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs 37.87		15.71
For Work In Restricted Working Space, Add	9.42	
For Elevated Installation >10' To 15' Above Floor, Add	3.14	
For Elevated Installation >15' To 20' Above Floor, Add	6.28	
For Elevated Installation >20' To 25' Above Floor, Add	7.85	
For Elevated Installation >25' To 30' Above Floor, Add	10.99	
For Elevated Installation >30' To 35' Above Floor, Add	12.56	
For Elevated Installation >35' To 40' Above Floor, Add	15.71	
For Elevated Installation >40' Above Floor, Add	17.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-0375 EA 1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs 46.47		18.85
For Work In Restricted Working Space, Add	11.31	
For Elevated Installation >10' To 15' Above Floor, Add	3.77	
For Elevated Installation >15' To 20' Above Floor, Add	7.54	
For Elevated Installation >20' To 25' Above Floor, Add	9.42	
For Elevated Installation >25' To 30' Above Floor, Add	13.19	
For Elevated Installation >30' To 35' Above Floor, Add	15.08	
For Elevated Installation >35' To 40' Above Floor, Add	18.85	
For Elevated Installation >40' Above Floor, Add	20.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 05 33 13-0376 EA 1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs 59.91		25.13
For Work In Restricted Working Space, Add	15.08	
For Elevated Installation >10' To 15' Above Floor, Add	5.03	
For Elevated Installation >15' To 20' Above Floor, Add	10.05	
For Elevated Installation >20' To 25' Above Floor, Add	12.57	
For Elevated Installation >25' To 30' Above Floor, Add	17.59	
For Elevated Installation >30' To 35' Above Floor, Add	20.10	
For Elevated Installation >35' To 40' Above Floor, Add	25.13	
For Elevated Installation >40' Above Floor, Add	27.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-0377 EA 2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs 69.44		28.27
For Work In Restricted Working Space, Add	16.97	
For Elevated Installation >10' To 15' Above Floor, Add	5.66	
For Elevated Installation >15' To 20' Above Floor, Add	11.31	
For Elevated Installation >20' To 25' Above Floor, Add	14.14	
For Elevated Installation >25' To 30' Above Floor, Add	19.79	
For Elevated Installation >30' To 35' Above Floor, Add	22.62	
For Elevated Installation >35' To 40' Above Floor, Add	28.28	
For Elevated Installation >40' Above Floor, Add	31.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.97	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0378	EA	2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	84.72	31.41
			For Work In Restricted Working Space, Add	18.85	
			For Elevated Installation >10' To 15' Above Floor, Add	6.28	
			For Elevated Installation >15' To 20' Above Floor, Add	12.57	
			For Elevated Installation >20' To 25' Above Floor, Add	15.71	
			For Elevated Installation >25' To 30' Above Floor, Add	21.99	
			For Elevated Installation >30' To 35' Above Floor, Add	25.13	
			For Elevated Installation >35' To 40' Above Floor, Add	31.42	
			For Elevated Installation >40' Above Floor, Add	34.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85	
26 05 33	13-0379	EA	3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	113.49	39.58
			For Work In Restricted Working Space, Add	23.75	
			For Elevated Installation >10' To 15' Above Floor, Add	7.92	
			For Elevated Installation >15' To 20' Above Floor, Add	15.83	
			For Elevated Installation >20' To 25' Above Floor, Add	19.79	
			For Elevated Installation >25' To 30' Above Floor, Add	27.71	
			For Elevated Installation >30' To 35' Above Floor, Add	31.67	
			For Elevated Installation >35' To 40' Above Floor, Add	39.59	
			For Elevated Installation >40' Above Floor, Add	43.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.75	
26 05 33	13-0380	EA	3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	134.89	47.75
			For Work In Restricted Working Space, Add	28.65	
			For Elevated Installation >10' To 15' Above Floor, Add	9.55	
			For Elevated Installation >15' To 20' Above Floor, Add	19.10	
			For Elevated Installation >20' To 25' Above Floor, Add	23.87	
			For Elevated Installation >25' To 30' Above Floor, Add	33.42	
			For Elevated Installation >30' To 35' Above Floor, Add	38.20	
			For Elevated Installation >35' To 40' Above Floor, Add	47.75	
			For Elevated Installation >40' Above Floor, Add	52.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.65	
26 05 33	13-0381	EA	4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	165.04	56.55
			For Work In Restricted Working Space, Add	33.93	
			For Elevated Installation >10' To 15' Above Floor, Add	11.31	
			For Elevated Installation >15' To 20' Above Floor, Add	22.62	
			For Elevated Installation >20' To 25' Above Floor, Add	28.27	
			For Elevated Installation >25' To 30' Above Floor, Add	39.58	
			For Elevated Installation >30' To 35' Above Floor, Add	45.24	
			For Elevated Installation >35' To 40' Above Floor, Add	56.55	
			For Elevated Installation >40' Above Floor, Add	62.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.93	
26 05 33	13-0382		Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement ^(26 05 33 13-0060)		
			Note: Type AX		
26 05 33	13-0383	EA	1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	132.70	20.10
			For Work In Restricted Working Space, Add	15.08	
			For Elevated Installation >10' To 15' Above Floor, Add	5.03	
			For Elevated Installation >15' To 20' Above Floor, Add	10.05	
			For Elevated Installation >20' To 25' Above Floor, Add	12.57	
			For Elevated Installation >25' To 30' Above Floor, Add	17.59	
			For Elevated Installation >30' To 35' Above Floor, Add	20.11	
			For Elevated Installation >35' To 40' Above Floor, Add	25.14	
			For Elevated Installation >40' Above Floor, Add	27.65	
26 05 33	13-0384	EA	3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	150.65	22.62
			For Work In Restricted Working Space, Add	16.97	
			For Elevated Installation >10' To 15' Above Floor, Add	5.66	
			For Elevated Installation >15' To 20' Above Floor, Add	11.31	
			For Elevated Installation >20' To 25' Above Floor, Add	14.14	
			For Elevated Installation >25' To 30' Above Floor, Add	19.79	
			For Elevated Installation >30' To 35' Above Floor, Add	22.62	
			For Elevated Installation >35' To 40' Above Floor, Add	28.28	
			For Elevated Installation >40' Above Floor, Add	31.10	
26 05 33	13-0385	EA	1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	178.60	25.13
			For Work In Restricted Working Space, Add	18.85	
			For Elevated Installation >10' To 15' Above Floor, Add	6.28	
			For Elevated Installation >15' To 20' Above Floor, Add	12.57	
			For Elevated Installation >20' To 25' Above Floor, Add	15.71	
			For Elevated Installation >25' To 30' Above Floor, Add	21.99	
			For Elevated Installation >30' To 35' Above Floor, Add	25.13	
			For Elevated Installation >35' To 40' Above Floor, Add	31.42	
			For Elevated Installation >40' Above Floor, Add	34.56	
26 05 33	13-0386	EA	1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	219.07	27.64
			For Work In Restricted Working Space, Add	20.73	
			For Elevated Installation >10' To 15' Above Floor, Add	6.91	
			For Elevated Installation >15' To 20' Above Floor, Add	13.82	
			For Elevated Installation >20' To 25' Above Floor, Add	17.28	
			For Elevated Installation >25' To 30' Above Floor, Add	24.19	
			For Elevated Installation >30' To 35' Above Floor, Add	27.64	
			For Elevated Installation >35' To 40' Above Floor, Add	34.56	
			For Elevated Installation >40' Above Floor, Add	38.01	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0387 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	275.79	30.16
For Work In Restricted Working Space, Add	22.62	
For Elevated Installation >10' To 15' Above Floor, Add	7.54	
For Elevated Installation >15' To 20' Above Floor, Add	15.08	
For Elevated Installation >20' To 25' Above Floor, Add	18.85	
For Elevated Installation >25' To 30' Above Floor, Add	26.39	
For Elevated Installation >30' To 35' Above Floor, Add	30.16	
For Elevated Installation >35' To 40' Above Floor, Add	37.70	
For Elevated Installation >40' Above Floor, Add	41.46	
26 05 33 13-0388 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	382.26	32.67
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.66	
For Elevated Installation >35' To 40' Above Floor, Add	40.83	
For Elevated Installation >40' Above Floor, Add	44.91	
26 05 33 13-0389 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	586.46	40.21
For Work In Restricted Working Space, Add	30.16	
For Elevated Installation >10' To 15' Above Floor, Add	10.05	
For Elevated Installation >15' To 20' Above Floor, Add	20.10	
For Elevated Installation >20' To 25' Above Floor, Add	25.13	
For Elevated Installation >25' To 30' Above Floor, Add	35.18	
For Elevated Installation >30' To 35' Above Floor, Add	40.21	
For Elevated Installation >35' To 40' Above Floor, Add	50.26	
For Elevated Installation >40' Above Floor, Add	55.29	
26 05 33 13-0390 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	751.51	50.26
For Work In Restricted Working Space, Add	37.70	
For Elevated Installation >10' To 15' Above Floor, Add	12.57	
For Elevated Installation >15' To 20' Above Floor, Add	25.13	
For Elevated Installation >20' To 25' Above Floor, Add	31.41	
For Elevated Installation >25' To 30' Above Floor, Add	43.98	
For Elevated Installation >30' To 35' Above Floor, Add	50.26	
For Elevated Installation >35' To 40' Above Floor, Add	62.83	
For Elevated Installation >40' Above Floor, Add	69.11	
26 05 33 13-0391 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,098.57	60.32
For Work In Restricted Working Space, Add	45.24	
For Elevated Installation >10' To 15' Above Floor, Add	15.08	
For Elevated Installation >15' To 20' Above Floor, Add	30.16	
For Elevated Installation >20' To 25' Above Floor, Add	37.70	
For Elevated Installation >25' To 30' Above Floor, Add	52.78	
For Elevated Installation >30' To 35' Above Floor, Add	60.32	
For Elevated Installation >35' To 40' Above Floor, Add	75.40	
For Elevated Installation >40' Above Floor, Add	82.94	
26 05 33 13-0392 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,170.95	65.34
For Work In Restricted Working Space, Add	49.00	
For Elevated Installation >10' To 15' Above Floor, Add	16.33	
For Elevated Installation >15' To 20' Above Floor, Add	32.67	
For Elevated Installation >20' To 25' Above Floor, Add	40.84	
For Elevated Installation >25' To 30' Above Floor, Add	57.17	
For Elevated Installation >30' To 35' Above Floor, Add	65.34	
For Elevated Installation >35' To 40' Above Floor, Add	81.67	
For Elevated Installation >40' Above Floor, Add	89.84	
26 05 33 13-0393 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,795.74	80.42
For Work In Restricted Working Space, Add	60.32	
For Elevated Installation >10' To 15' Above Floor, Add	20.11	
For Elevated Installation >15' To 20' Above Floor, Add	40.21	
For Elevated Installation >20' To 25' Above Floor, Add	50.26	
For Elevated Installation >25' To 30' Above Floor, Add	70.37	
For Elevated Installation >30' To 35' Above Floor, Add	80.42	
For Elevated Installation >35' To 40' Above Floor, Add	100.53	
For Elevated Installation >40' Above Floor, Add	110.58	
26 05 33 13-0394 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	2,207.00	89.22
For Work In Restricted Working Space, Add	66.95	
For Elevated Installation >10' To 15' Above Floor, Add	22.32	
For Elevated Installation >15' To 20' Above Floor, Add	44.63	
For Elevated Installation >20' To 25' Above Floor, Add	55.79	
For Elevated Installation >25' To 30' Above Floor, Add	78.11	
For Elevated Installation >30' To 35' Above Floor, Add	89.26	
For Elevated Installation >35' To 40' Above Floor, Add	111.58	
For Elevated Installation >40' Above Floor, Add	122.74	
26 05 33 13-0395 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement (26 05		
33 13-0060)		
Note: Type AX-8		
26 05 33 13-0396 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	146.48	20.10
For Work In Restricted Working Space, Add	15.08	
For Elevated Installation >10' To 15' Above Floor, Add	5.03	
For Elevated Installation >15' To 20' Above Floor, Add	10.05	
For Elevated Installation >20' To 25' Above Floor, Add	12.57	
For Elevated Installation >25' To 30' Above Floor, Add	17.59	
For Elevated Installation >30' To 35' Above Floor, Add	20.11	
For Elevated Installation >35' To 40' Above Floor, Add	25.14	
For Elevated Installation >40' Above Floor, Add	27.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0397	EA		3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	162.86	22.62
			For Work In Restricted Working Space, Add	16.97	
			For Elevated Installation >10' To 15' Above Floor, Add	5.66	
			For Elevated Installation >15' To 20' Above Floor, Add	11.31	
			For Elevated Installation >20' To 25' Above Floor, Add	14.14	
			For Elevated Installation >25' To 30' Above Floor, Add	19.79	
			For Elevated Installation >30' To 35' Above Floor, Add	22.62	
			For Elevated Installation >35' To 40' Above Floor, Add	28.28	
			For Elevated Installation >40' Above Floor, Add	31.10	
26 05 33 13-0398	EA		1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	197.76	25.13
			For Work In Restricted Working Space, Add	18.85	
			For Elevated Installation >10' To 15' Above Floor, Add	6.28	
			For Elevated Installation >15' To 20' Above Floor, Add	12.57	
			For Elevated Installation >20' To 25' Above Floor, Add	15.71	
			For Elevated Installation >25' To 30' Above Floor, Add	21.99	
			For Elevated Installation >30' To 35' Above Floor, Add	25.13	
			For Elevated Installation >35' To 40' Above Floor, Add	31.42	
			For Elevated Installation >40' Above Floor, Add	34.56	
26 05 33 13-0399	EA		1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	249.24	27.64
			For Work In Restricted Working Space, Add	20.73	
			For Elevated Installation >10' To 15' Above Floor, Add	6.91	
			For Elevated Installation >15' To 20' Above Floor, Add	13.82	
			For Elevated Installation >20' To 25' Above Floor, Add	17.28	
			For Elevated Installation >25' To 30' Above Floor, Add	24.19	
			For Elevated Installation >30' To 35' Above Floor, Add	27.64	
			For Elevated Installation >35' To 40' Above Floor, Add	34.56	
			For Elevated Installation >40' Above Floor, Add	38.01	
26 05 33 13-0400	EA		1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	335.75	30.16
			For Work In Restricted Working Space, Add	22.62	
			For Elevated Installation >10' To 15' Above Floor, Add	7.54	
			For Elevated Installation >15' To 20' Above Floor, Add	15.08	
			For Elevated Installation >20' To 25' Above Floor, Add	18.85	
			For Elevated Installation >25' To 30' Above Floor, Add	26.39	
			For Elevated Installation >30' To 35' Above Floor, Add	30.16	
			For Elevated Installation >35' To 40' Above Floor, Add	37.70	
			For Elevated Installation >40' Above Floor, Add	41.46	
26 05 33 13-0401	EA		2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	410.91	32.67
			For Work In Restricted Working Space, Add	24.50	
			For Elevated Installation >10' To 15' Above Floor, Add	8.17	
			For Elevated Installation >15' To 20' Above Floor, Add	16.33	
			For Elevated Installation >20' To 25' Above Floor, Add	20.42	
			For Elevated Installation >25' To 30' Above Floor, Add	28.58	
			For Elevated Installation >30' To 35' Above Floor, Add	32.66	
			For Elevated Installation >35' To 40' Above Floor, Add	40.83	
			For Elevated Installation >40' Above Floor, Add	44.91	
26 05 33 13-0402	EA		2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	772.18	40.21
			For Work In Restricted Working Space, Add	30.16	
			For Elevated Installation >10' To 15' Above Floor, Add	10.05	
			For Elevated Installation >15' To 20' Above Floor, Add	20.10	
			For Elevated Installation >20' To 25' Above Floor, Add	25.13	
			For Elevated Installation >25' To 30' Above Floor, Add	35.18	
			For Elevated Installation >30' To 35' Above Floor, Add	40.21	
			For Elevated Installation >35' To 40' Above Floor, Add	50.26	
			For Elevated Installation >40' Above Floor, Add	55.29	
26 05 33 13-0403	EA		3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	878.34	50.26
			For Work In Restricted Working Space, Add	37.70	
			For Elevated Installation >10' To 15' Above Floor, Add	12.57	
			For Elevated Installation >15' To 20' Above Floor, Add	25.13	
			For Elevated Installation >20' To 25' Above Floor, Add	31.41	
			For Elevated Installation >25' To 30' Above Floor, Add	43.98	
			For Elevated Installation >30' To 35' Above Floor, Add	50.26	
			For Elevated Installation >35' To 40' Above Floor, Add	62.83	
			For Elevated Installation >40' Above Floor, Add	69.11	
26 05 33 13-0404	EA		3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,349.20	60.32
			For Work In Restricted Working Space, Add	45.24	
			For Elevated Installation >10' To 15' Above Floor, Add	15.08	
			For Elevated Installation >15' To 20' Above Floor, Add	30.16	
			For Elevated Installation >20' To 25' Above Floor, Add	37.70	
			For Elevated Installation >25' To 30' Above Floor, Add	52.78	
			For Elevated Installation >30' To 35' Above Floor, Add	60.32	
			For Elevated Installation >35' To 40' Above Floor, Add	75.40	
			For Elevated Installation >40' Above Floor, Add	82.94	
26 05 33 13-0405	EA		4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,460.63	65.34
			For Work In Restricted Working Space, Add	49.00	
			For Elevated Installation >10' To 15' Above Floor, Add	16.33	
			For Elevated Installation >15' To 20' Above Floor, Add	32.67	
			For Elevated Installation >20' To 25' Above Floor, Add	40.84	
			For Elevated Installation >25' To 30' Above Floor, Add	57.17	
			For Elevated Installation >30' To 35' Above Floor, Add	65.34	
			For Elevated Installation >35' To 40' Above Floor, Add	81.67	
			For Elevated Installation >40' Above Floor, Add	89.84	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0406 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	2,039.93	80.42
For Work In Restricted Working Space, Add	60.32	
For Elevated Installation >10' To 15' Above Floor, Add	20.11	
For Elevated Installation >15' To 20' Above Floor, Add	40.21	
For Elevated Installation >20' To 25' Above Floor, Add	50.26	
For Elevated Installation >25' To 30' Above Floor, Add	70.37	
For Elevated Installation >30' To 35' Above Floor, Add	80.42	
For Elevated Installation >35' To 40' Above Floor, Add	100.53	
For Elevated Installation >40' Above Floor, Add	110.58	
26 05 33 13-0407 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	2,521.16	89.22
For Work In Restricted Working Space, Add	66.95	
For Elevated Installation >10' To 15' Above Floor, Add	22.32	
For Elevated Installation >15' To 20' Above Floor, Add	44.63	
For Elevated Installation >20' To 25' Above Floor, Add	55.79	
For Elevated Installation >25' To 30' Above Floor, Add	78.11	
For Elevated Installation >30' To 35' Above Floor, Add	89.26	
For Elevated Installation >35' To 40' Above Floor, Add	111.58	
For Elevated Installation >40' Above Floor, Add	122.74	
26 05 33 13-0408 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement (26 05 33 13-0060)		
Note: Type EX		
26 05 33 13-0409 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	166.66	20.10
For Work In Restricted Working Space, Add	15.08	
For Elevated Installation >10' To 15' Above Floor, Add	5.03	
For Elevated Installation >15' To 20' Above Floor, Add	10.05	
For Elevated Installation >20' To 25' Above Floor, Add	12.57	
For Elevated Installation >25' To 30' Above Floor, Add	17.59	
For Elevated Installation >30' To 35' Above Floor, Add	20.11	
For Elevated Installation >35' To 40' Above Floor, Add	25.14	
For Elevated Installation >40' Above Floor, Add	27.65	
26 05 33 13-0410 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	210.42	22.62
For Work In Restricted Working Space, Add	16.97	
For Elevated Installation >10' To 15' Above Floor, Add	5.66	
For Elevated Installation >15' To 20' Above Floor, Add	11.31	
For Elevated Installation >20' To 25' Above Floor, Add	14.14	
For Elevated Installation >25' To 30' Above Floor, Add	19.79	
For Elevated Installation >30' To 35' Above Floor, Add	22.62	
For Elevated Installation >35' To 40' Above Floor, Add	28.28	
For Elevated Installation >40' Above Floor, Add	31.10	
26 05 33 13-0411 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	262.00	25.13
For Work In Restricted Working Space, Add	18.85	
For Elevated Installation >10' To 15' Above Floor, Add	6.28	
For Elevated Installation >15' To 20' Above Floor, Add	12.57	
For Elevated Installation >20' To 25' Above Floor, Add	15.71	
For Elevated Installation >25' To 30' Above Floor, Add	21.99	
For Elevated Installation >30' To 35' Above Floor, Add	25.13	
For Elevated Installation >35' To 40' Above Floor, Add	31.42	
For Elevated Installation >40' Above Floor, Add	34.56	
26 05 33 13-0412 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	318.80	27.64
For Work In Restricted Working Space, Add	20.73	
For Elevated Installation >10' To 15' Above Floor, Add	6.91	
For Elevated Installation >15' To 20' Above Floor, Add	13.82	
For Elevated Installation >20' To 25' Above Floor, Add	17.28	
For Elevated Installation >25' To 30' Above Floor, Add	24.19	
For Elevated Installation >30' To 35' Above Floor, Add	27.64	
For Elevated Installation >35' To 40' Above Floor, Add	34.56	
For Elevated Installation >40' Above Floor, Add	38.01	
26 05 33 13-0413 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	429.94	30.16
For Work In Restricted Working Space, Add	22.62	
For Elevated Installation >10' To 15' Above Floor, Add	7.54	
For Elevated Installation >15' To 20' Above Floor, Add	15.08	
For Elevated Installation >20' To 25' Above Floor, Add	18.85	
For Elevated Installation >25' To 30' Above Floor, Add	26.39	
For Elevated Installation >30' To 35' Above Floor, Add	30.16	
For Elevated Installation >35' To 40' Above Floor, Add	37.70	
For Elevated Installation >40' Above Floor, Add	41.46	
26 05 33 13-0414 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	592.93	32.67
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.66	
For Elevated Installation >35' To 40' Above Floor, Add	40.83	
For Elevated Installation >40' Above Floor, Add	44.91	
26 05 33 13-0415 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	922.04	40.21
For Work In Restricted Working Space, Add	30.16	
For Elevated Installation >10' To 15' Above Floor, Add	10.05	
For Elevated Installation >15' To 20' Above Floor, Add	20.10	
For Elevated Installation >20' To 25' Above Floor, Add	25.13	
For Elevated Installation >25' To 30' Above Floor, Add	35.18	
For Elevated Installation >30' To 35' Above Floor, Add	40.21	
For Elevated Installation >35' To 40' Above Floor, Add	50.26	
For Elevated Installation >40' Above Floor, Add	55.29	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0416	EA	3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,243.20	50.26
		For Work In Restricted Working Space, Add	37.70	
		For Elevated Installation >10' To 15' Above Floor, Add	12.57	
		For Elevated Installation >15' To 20' Above Floor, Add	25.13	
		For Elevated Installation >20' To 25' Above Floor, Add	31.41	
		For Elevated Installation >25' To 30' Above Floor, Add	43.98	
		For Elevated Installation >30' To 35' Above Floor, Add	50.26	
		For Elevated Installation >35' To 40' Above Floor, Add	62.83	
		For Elevated Installation >40' Above Floor, Add	69.11	
26 05 33 13-0417	EA	3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,868.15	60.32
		For Work In Restricted Working Space, Add	45.24	
		For Elevated Installation >10' To 15' Above Floor, Add	15.08	
		For Elevated Installation >15' To 20' Above Floor, Add	30.16	
		For Elevated Installation >20' To 25' Above Floor, Add	37.70	
		For Elevated Installation >25' To 30' Above Floor, Add	52.78	
		For Elevated Installation >30' To 35' Above Floor, Add	60.32	
		For Elevated Installation >35' To 40' Above Floor, Add	75.40	
		For Elevated Installation >40' Above Floor, Add	82.94	
26 05 33 13-0418	EA	4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,933.32	65.34
		For Work In Restricted Working Space, Add	49.00	
		For Elevated Installation >10' To 15' Above Floor, Add	16.33	
		For Elevated Installation >15' To 20' Above Floor, Add	32.67	
		For Elevated Installation >20' To 25' Above Floor, Add	40.84	
		For Elevated Installation >25' To 30' Above Floor, Add	57.17	
		For Elevated Installation >30' To 35' Above Floor, Add	65.34	
		For Elevated Installation >35' To 40' Above Floor, Add	81.67	
		For Elevated Installation >40' Above Floor, Add	89.84	
26 05 33 13-0419	EA	5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,911.24	80.42
		For Work In Restricted Working Space, Add	60.32	
		For Elevated Installation >10' To 15' Above Floor, Add	20.11	
		For Elevated Installation >15' To 20' Above Floor, Add	40.21	
		For Elevated Installation >20' To 25' Above Floor, Add	50.26	
		For Elevated Installation >25' To 30' Above Floor, Add	70.37	
		For Elevated Installation >30' To 35' Above Floor, Add	80.42	
		For Elevated Installation >35' To 40' Above Floor, Add	100.53	
		For Elevated Installation >40' Above Floor, Add	110.58	
26 05 33 13-0420	EA	6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	3,610.03	89.22
		For Work In Restricted Working Space, Add	66.95	
		For Elevated Installation >10' To 15' Above Floor, Add	22.32	
		For Elevated Installation >15' To 20' Above Floor, Add	44.63	
		For Elevated Installation >20' To 25' Above Floor, Add	55.79	
		For Elevated Installation >25' To 30' Above Floor, Add	78.11	
		For Elevated Installation >30' To 35' Above Floor, Add	89.26	
		For Elevated Installation >35' To 40' Above Floor, Add	111.58	
		For Elevated Installation >40' Above Floor, Add	122.74	
26 05 33 13-0421		Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings (26 05 33 13-0060)		
		Note: Type DX		
26 05 33 13-0422	EA	1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	291.03	20.10
		For Work In Restricted Working Space, Add	15.08	
		For Elevated Installation >10' To 15' Above Floor, Add	5.03	
		For Elevated Installation >15' To 20' Above Floor, Add	10.05	
		For Elevated Installation >20' To 25' Above Floor, Add	12.57	
		For Elevated Installation >25' To 30' Above Floor, Add	17.59	
		For Elevated Installation >30' To 35' Above Floor, Add	20.11	
		For Elevated Installation >35' To 40' Above Floor, Add	25.14	
		For Elevated Installation >40' Above Floor, Add	27.65	
26 05 33 13-0423	EA	3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	346.82	22.62
		For Work In Restricted Working Space, Add	16.97	
		For Elevated Installation >10' To 15' Above Floor, Add	5.66	
		For Elevated Installation >15' To 20' Above Floor, Add	11.31	
		For Elevated Installation >20' To 25' Above Floor, Add	14.14	
		For Elevated Installation >25' To 30' Above Floor, Add	19.79	
		For Elevated Installation >30' To 35' Above Floor, Add	22.62	
		For Elevated Installation >35' To 40' Above Floor, Add	28.28	
		For Elevated Installation >40' Above Floor, Add	31.10	
26 05 33 13-0424	EA	1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	419.41	25.13
		For Work In Restricted Working Space, Add	18.85	
		For Elevated Installation >10' To 15' Above Floor, Add	6.28	
		For Elevated Installation >15' To 20' Above Floor, Add	12.57	
		For Elevated Installation >20' To 25' Above Floor, Add	15.71	
		For Elevated Installation >25' To 30' Above Floor, Add	21.99	
		For Elevated Installation >30' To 35' Above Floor, Add	25.13	
		For Elevated Installation >35' To 40' Above Floor, Add	31.42	
		For Elevated Installation >40' Above Floor, Add	34.56	
26 05 33 13-0425	EA	1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	493.21	27.64
		For Work In Restricted Working Space, Add	20.73	
		For Elevated Installation >10' To 15' Above Floor, Add	6.91	
		For Elevated Installation >15' To 20' Above Floor, Add	13.82	
		For Elevated Installation >20' To 25' Above Floor, Add	17.28	
		For Elevated Installation >25' To 30' Above Floor, Add	24.19	
		For Elevated Installation >30' To 35' Above Floor, Add	27.64	
		For Elevated Installation >35' To 40' Above Floor, Add	34.56	
		For Elevated Installation >40' Above Floor, Add	38.01	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0426 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	545.45	30.16
For Work In Restricted Working Space, Add	22.62	
For Elevated Installation >10' To 15' Above Floor, Add	7.54	
For Elevated Installation >15' To 20' Above Floor, Add	15.08	
For Elevated Installation >20' To 25' Above Floor, Add	18.85	
For Elevated Installation >25' To 30' Above Floor, Add	26.39	
For Elevated Installation >30' To 35' Above Floor, Add	30.16	
For Elevated Installation >35' To 40' Above Floor, Add	37.70	
For Elevated Installation >40' Above Floor, Add	41.46	
26 05 33 13-0427 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	674.50	32.67
For Work In Restricted Working Space, Add	24.50	
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.66	
For Elevated Installation >35' To 40' Above Floor, Add	40.83	
For Elevated Installation >40' Above Floor, Add	44.91	
26 05 33 13-0428 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	891.75	40.21
For Work In Restricted Working Space, Add	30.16	
For Elevated Installation >10' To 15' Above Floor, Add	10.05	
For Elevated Installation >15' To 20' Above Floor, Add	20.10	
For Elevated Installation >20' To 25' Above Floor, Add	25.13	
For Elevated Installation >25' To 30' Above Floor, Add	35.18	
For Elevated Installation >30' To 35' Above Floor, Add	40.21	
For Elevated Installation >35' To 40' Above Floor, Add	50.26	
For Elevated Installation >40' Above Floor, Add	55.29	
26 05 33 13-0429 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,130.97	50.26
For Work In Restricted Working Space, Add	37.70	
For Elevated Installation >10' To 15' Above Floor, Add	12.57	
For Elevated Installation >15' To 20' Above Floor, Add	25.13	
For Elevated Installation >20' To 25' Above Floor, Add	31.41	
For Elevated Installation >25' To 30' Above Floor, Add	43.98	
For Elevated Installation >30' To 35' Above Floor, Add	50.26	
For Elevated Installation >35' To 40' Above Floor, Add	62.83	
For Elevated Installation >40' Above Floor, Add	69.11	
26 05 33 13-0430 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,272.26	60.32
For Work In Restricted Working Space, Add	45.24	
For Elevated Installation >10' To 15' Above Floor, Add	15.08	
For Elevated Installation >15' To 20' Above Floor, Add	30.16	
For Elevated Installation >20' To 25' Above Floor, Add	37.70	
For Elevated Installation >25' To 30' Above Floor, Add	52.78	
For Elevated Installation >30' To 35' Above Floor, Add	60.32	
For Elevated Installation >35' To 40' Above Floor, Add	75.40	
For Elevated Installation >40' Above Floor, Add	82.94	
26 05 33 13-0431 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,543.42	65.34
For Work In Restricted Working Space, Add	49.00	
For Elevated Installation >10' To 15' Above Floor, Add	16.33	
For Elevated Installation >15' To 20' Above Floor, Add	32.67	
For Elevated Installation >20' To 25' Above Floor, Add	40.84	
For Elevated Installation >25' To 30' Above Floor, Add	57.17	
For Elevated Installation >30' To 35' Above Floor, Add	65.34	
For Elevated Installation >35' To 40' Above Floor, Add	81.67	
For Elevated Installation >40' Above Floor, Add	89.84	
26 05 33 13-0432 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	2,642.38	80.42
For Work In Restricted Working Space, Add	60.32	
For Elevated Installation >10' To 15' Above Floor, Add	20.11	
For Elevated Installation >15' To 20' Above Floor, Add	40.21	
For Elevated Installation >20' To 25' Above Floor, Add	50.26	
For Elevated Installation >25' To 30' Above Floor, Add	70.37	
For Elevated Installation >30' To 35' Above Floor, Add	80.42	
For Elevated Installation >35' To 40' Above Floor, Add	100.53	
For Elevated Installation >40' Above Floor, Add	110.58	
26 05 33 13-0433 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	4,204.63	89.22
For Work In Restricted Working Space, Add	66.95	
For Elevated Installation >10' To 15' Above Floor, Add	22.32	
For Elevated Installation >15' To 20' Above Floor, Add	44.63	
For Elevated Installation >20' To 25' Above Floor, Add	55.79	
For Elevated Installation >25' To 30' Above Floor, Add	78.11	
For Elevated Installation >30' To 35' Above Floor, Add	89.26	
For Elevated Installation >35' To 40' Above Floor, Add	111.58	
For Elevated Installation >40' Above Floor, Add	122.74	
26 05 33 13-0434 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0060)		
26 05 33 13-0435 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper	74.78	10.05
For Work In Restricted Working Space, Add	7.54	
For Elevated Installation >10' To 15' Above Floor, Add	2.51	
For Elevated Installation >15' To 20' Above Floor, Add	5.03	
For Elevated Installation >20' To 25' Above Floor, Add	6.29	
For Elevated Installation >25' To 30' Above Floor, Add	8.80	
For Elevated Installation >30' To 35' Above Floor, Add	10.06	
For Elevated Installation >35' To 40' Above Floor, Add	12.57	
For Elevated Installation >40' Above Floor, Add	13.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0436 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper	86.07	12.57
For Work In Restricted Working Space, Add	9.43	
For Elevated Installation >10' To 15' Above Floor, Add	3.14	
For Elevated Installation >15' To 20' Above Floor, Add	6.28	
For Elevated Installation >20' To 25' Above Floor, Add	7.86	
For Elevated Installation >25' To 30' Above Floor, Add	11.00	
For Elevated Installation >30' To 35' Above Floor, Add	12.57	
For Elevated Installation >35' To 40' Above Floor, Add	15.71	
For Elevated Installation >40' Above Floor, Add	17.28	
26 05 33 13-0437 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper	106.14	15.07
For Work In Restricted Working Space, Add	11.31	
For Elevated Installation >10' To 15' Above Floor, Add	3.77	
For Elevated Installation >15' To 20' Above Floor, Add	7.54	
For Elevated Installation >20' To 25' Above Floor, Add	9.42	
For Elevated Installation >25' To 30' Above Floor, Add	13.19	
For Elevated Installation >30' To 35' Above Floor, Add	15.08	
For Elevated Installation >35' To 40' Above Floor, Add	18.85	
For Elevated Installation >40' Above Floor, Add	20.73	
26 05 33 13-0438 EA 2-1/2" To 3" Conduit, 14" Bonding Jumper	149.17	20.10
For Work In Restricted Working Space, Add	15.08	
For Elevated Installation >10' To 15' Above Floor, Add	5.03	
For Elevated Installation >15' To 20' Above Floor, Add	10.05	
For Elevated Installation >20' To 25' Above Floor, Add	12.57	
For Elevated Installation >25' To 30' Above Floor, Add	17.59	
For Elevated Installation >30' To 35' Above Floor, Add	20.10	
For Elevated Installation >35' To 40' Above Floor, Add	25.13	
For Elevated Installation >40' Above Floor, Add	27.64	
26 05 33 13-0439 EA 3-1/2" To 4" Conduit, 14" Bonding Jumper	226.03	30.16
For Work In Restricted Working Space, Add	22.62	
For Elevated Installation >10' To 15' Above Floor, Add	7.54	
For Elevated Installation >15' To 20' Above Floor, Add	15.08	
For Elevated Installation >20' To 25' Above Floor, Add	18.85	
For Elevated Installation >25' To 30' Above Floor, Add	26.39	
For Elevated Installation >30' To 35' Above Floor, Add	30.16	
For Elevated Installation >35' To 40' Above Floor, Add	37.70	
For Elevated Installation >40' Above Floor, Add	41.47	
26 05 33 13-0440 EA 5" To 6" Conduit, 14" Bonding Jumper	386.71	40.21
For Work In Restricted Working Space, Add	30.16	
For Elevated Installation >10' To 15' Above Floor, Add	10.05	
For Elevated Installation >15' To 20' Above Floor, Add	20.10	
For Elevated Installation >20' To 25' Above Floor, Add	25.13	
For Elevated Installation >25' To 30' Above Floor, Add	35.18	
For Elevated Installation >30' To 35' Above Floor, Add	40.21	
For Elevated Installation >35' To 40' Above Floor, Add	50.26	
For Elevated Installation >40' Above Floor, Add	55.29	
26 05 33 13-0441 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper	83.28	10.05
For Work In Restricted Working Space, Add	7.54	
For Elevated Installation >10' To 15' Above Floor, Add	2.51	
For Elevated Installation >15' To 20' Above Floor, Add	5.03	
For Elevated Installation >20' To 25' Above Floor, Add	6.29	
For Elevated Installation >25' To 30' Above Floor, Add	8.80	
For Elevated Installation >30' To 35' Above Floor, Add	10.06	
For Elevated Installation >35' To 40' Above Floor, Add	12.57	
For Elevated Installation >40' Above Floor, Add	13.83	
26 05 33 13-0442 EA 1" To 1-1/4" Conduit, 24" Bonding Jumper	96.82	12.57
For Work In Restricted Working Space, Add	9.43	
For Elevated Installation >10' To 15' Above Floor, Add	3.14	
For Elevated Installation >15' To 20' Above Floor, Add	6.28	
For Elevated Installation >20' To 25' Above Floor, Add	7.86	
For Elevated Installation >25' To 30' Above Floor, Add	11.00	
For Elevated Installation >30' To 35' Above Floor, Add	12.57	
For Elevated Installation >35' To 40' Above Floor, Add	15.71	
For Elevated Installation >40' Above Floor, Add	17.28	
26 05 33 13-0443 EA 1-1/2" To 2" Conduit, 24" Bonding Jumper	115.97	15.07
For Work In Restricted Working Space, Add	11.31	
For Elevated Installation >10' To 15' Above Floor, Add	3.77	
For Elevated Installation >15' To 20' Above Floor, Add	7.54	
For Elevated Installation >20' To 25' Above Floor, Add	9.42	
For Elevated Installation >25' To 30' Above Floor, Add	13.19	
For Elevated Installation >30' To 35' Above Floor, Add	15.08	
For Elevated Installation >35' To 40' Above Floor, Add	18.85	
For Elevated Installation >40' Above Floor, Add	20.73	
26 05 33 13-0444 EA 2-1/2" To 3" Conduit, 24" Bonding Jumper	162.23	20.10
For Work In Restricted Working Space, Add	15.08	
For Elevated Installation >10' To 15' Above Floor, Add	5.03	
For Elevated Installation >15' To 20' Above Floor, Add	10.05	
For Elevated Installation >20' To 25' Above Floor, Add	12.57	
For Elevated Installation >25' To 30' Above Floor, Add	17.59	
For Elevated Installation >30' To 35' Above Floor, Add	20.10	
For Elevated Installation >35' To 40' Above Floor, Add	25.13	
For Elevated Installation >40' Above Floor, Add	27.64	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0445 EA 3-1/2" To 4" Conduit, 24" Bonding Jumper	243.36	30.16
For Work In Restricted Working Space, Add	22.62	
For Elevated Installation >10' To 15' Above Floor, Add	7.54	
For Elevated Installation >15' To 20' Above Floor, Add	15.08	
For Elevated Installation >20' To 25' Above Floor, Add	18.85	
For Elevated Installation >25' To 30' Above Floor, Add	26.39	
For Elevated Installation >30' To 35' Above Floor, Add	30.16	
For Elevated Installation >35' To 40' Above Floor, Add	37.70	
For Elevated Installation >40' Above Floor, Add	41.47	
26 05 33 13-0446 EA 5" To 6" Conduit, 24" Bonding Jumper	442.60	40.21
For Work In Restricted Working Space, Add	30.16	
For Elevated Installation >10' To 15' Above Floor, Add	10.05	
For Elevated Installation >15' To 20' Above Floor, Add	20.10	
For Elevated Installation >20' To 25' Above Floor, Add	25.13	
For Elevated Installation >25' To 30' Above Floor, Add	35.18	
For Elevated Installation >30' To 35' Above Floor, Add	40.21	
For Elevated Installation >35' To 40' Above Floor, Add	50.26	
For Elevated Installation >40' Above Floor, Add	55.29	
26 05 33 13-0447 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0060)		
26 05 33 13-0448 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	103.60	31.41
For Work In Restricted Working Space, Add	18.85	
For Elevated Installation >10' To 15' Above Floor, Add	6.28	
For Elevated Installation >15' To 20' Above Floor, Add	12.57	
For Elevated Installation >20' To 25' Above Floor, Add	15.71	
For Elevated Installation >25' To 30' Above Floor, Add	21.99	
For Elevated Installation >30' To 35' Above Floor, Add	25.13	
For Elevated Installation >35' To 40' Above Floor, Add	31.42	
For Elevated Installation >40' Above Floor, Add	34.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85	
26 05 33 13-0449 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	123.28	37.69
For Work In Restricted Working Space, Add	22.62	
For Elevated Installation >10' To 15' Above Floor, Add	7.54	
For Elevated Installation >15' To 20' Above Floor, Add	15.08	
For Elevated Installation >20' To 25' Above Floor, Add	18.85	
For Elevated Installation >25' To 30' Above Floor, Add	26.39	
For Elevated Installation >30' To 35' Above Floor, Add	30.16	
For Elevated Installation >35' To 40' Above Floor, Add	37.70	
For Elevated Installation >40' Above Floor, Add	41.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.62	
26 05 33 13-0450 EA 1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	149.50	43.98
For Work In Restricted Working Space, Add	26.39	
For Elevated Installation >10' To 15' Above Floor, Add	8.80	
For Elevated Installation >15' To 20' Above Floor, Add	17.59	
For Elevated Installation >20' To 25' Above Floor, Add	21.99	
For Elevated Installation >25' To 30' Above Floor, Add	30.79	
For Elevated Installation >30' To 35' Above Floor, Add	35.18	
For Elevated Installation >35' To 40' Above Floor, Add	43.98	
For Elevated Installation >40' Above Floor, Add	48.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.39	
26 05 33 13-0451 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	175.26	50.26
For Work In Restricted Working Space, Add	30.16	
For Elevated Installation >10' To 15' Above Floor, Add	10.05	
For Elevated Installation >15' To 20' Above Floor, Add	20.10	
For Elevated Installation >20' To 25' Above Floor, Add	25.13	
For Elevated Installation >25' To 30' Above Floor, Add	35.18	
For Elevated Installation >30' To 35' Above Floor, Add	40.21	
For Elevated Installation >35' To 40' Above Floor, Add	50.26	
For Elevated Installation >40' Above Floor, Add	55.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.16	
26 05 33 13-0452 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	225.61	56.55
For Work In Restricted Working Space, Add	33.93	
For Elevated Installation >10' To 15' Above Floor, Add	11.31	
For Elevated Installation >15' To 20' Above Floor, Add	22.62	
For Elevated Installation >20' To 25' Above Floor, Add	28.27	
For Elevated Installation >25' To 30' Above Floor, Add	39.58	
For Elevated Installation >30' To 35' Above Floor, Add	45.24	
For Elevated Installation >35' To 40' Above Floor, Add	56.55	
For Elevated Installation >40' Above Floor, Add	62.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.93	
26 05 33 13-0453 EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	271.43	62.83
For Work In Restricted Working Space, Add	37.70	
For Elevated Installation >10' To 15' Above Floor, Add	12.57	
For Elevated Installation >15' To 20' Above Floor, Add	25.13	
For Elevated Installation >20' To 25' Above Floor, Add	31.41	
For Elevated Installation >25' To 30' Above Floor, Add	43.98	
For Elevated Installation >30' To 35' Above Floor, Add	50.26	
For Elevated Installation >35' To 40' Above Floor, Add	62.83	
For Elevated Installation >40' Above Floor, Add	69.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0454 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal	377.29	75.99
For Work In Restricted Working Space, Add	45.24	
For Elevated Installation >10' To 15' Above Floor, Add	15.08	
For Elevated Installation >15' To 20' Above Floor, Add	30.16	
For Elevated Installation >20' To 25' Above Floor, Add	37.70	
For Elevated Installation >25' To 30' Above Floor, Add	52.78	
For Elevated Installation >30' To 35' Above Floor, Add	60.32	
For Elevated Installation >35' To 40' Above Floor, Add	75.40	
For Elevated Installation >40' Above Floor, Add	82.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.24	
26 05 33 13-0455 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	452.59	87.96
For Work In Restricted Working Space, Add	52.77	
For Elevated Installation >10' To 15' Above Floor, Add	17.59	
For Elevated Installation >15' To 20' Above Floor, Add	35.18	
For Elevated Installation >20' To 25' Above Floor, Add	43.98	
For Elevated Installation >25' To 30' Above Floor, Add	61.57	
For Elevated Installation >30' To 35' Above Floor, Add	70.36	
For Elevated Installation >35' To 40' Above Floor, Add	87.96	
For Elevated Installation >40' Above Floor, Add	96.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.77	
26 05 33 13-0456 EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	999.02	100.52
For Work In Restricted Working Space, Add	60.32	
For Elevated Installation >10' To 15' Above Floor, Add	20.11	
For Elevated Installation >15' To 20' Above Floor, Add	40.21	
For Elevated Installation >20' To 25' Above Floor, Add	50.26	
For Elevated Installation >25' To 30' Above Floor, Add	70.37	
For Elevated Installation >30' To 35' Above Floor, Add	80.42	
For Elevated Installation >35' To 40' Above Floor, Add	100.53	
For Elevated Installation >40' Above Floor, Add	110.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.32	
26 05 33 13-0457 EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	1,149.71	113.09
For Work In Restricted Working Space, Add	67.85	
For Elevated Installation >10' To 15' Above Floor, Add	22.62	
For Elevated Installation >15' To 20' Above Floor, Add	45.24	
For Elevated Installation >20' To 25' Above Floor, Add	56.55	
For Elevated Installation >25' To 30' Above Floor, Add	79.16	
For Elevated Installation >30' To 35' Above Floor, Add	90.47	
For Elevated Installation >35' To 40' Above Floor, Add	113.09	
For Elevated Installation >40' Above Floor, Add	124.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.85	
26 05 33 13-0458 Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0060)		
26 05 33 13-0459 EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	16.52	7.54
For Work In Restricted Working Space, Add	4.52	
For Elevated Installation >10' To 15' Above Floor, Add	1.51	
For Elevated Installation >15' To 20' Above Floor, Add	3.01	
For Elevated Installation >20' To 25' Above Floor, Add	3.77	
For Elevated Installation >25' To 30' Above Floor, Add	5.27	
For Elevated Installation >30' To 35' Above Floor, Add	6.03	
For Elevated Installation >35' To 40' Above Floor, Add	7.54	
For Elevated Installation >40' Above Floor, Add	8.29	
26 05 33 13-0460 EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	23.18	10.68
For Work In Restricted Working Space, Add	6.41	
For Elevated Installation >10' To 15' Above Floor, Add	2.14	
For Elevated Installation >15' To 20' Above Floor, Add	4.27	
For Elevated Installation >20' To 25' Above Floor, Add	5.34	
For Elevated Installation >25' To 30' Above Floor, Add	7.48	
For Elevated Installation >30' To 35' Above Floor, Add	8.54	
For Elevated Installation >35' To 40' Above Floor, Add	10.68	
For Elevated Installation >40' Above Floor, Add	11.75	
26 05 33 13-0461 EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling.....	30.41	13.82
For Work In Restricted Working Space, Add	8.29	
For Elevated Installation >10' To 15' Above Floor, Add	2.76	
For Elevated Installation >15' To 20' Above Floor, Add	5.53	
For Elevated Installation >20' To 25' Above Floor, Add	6.91	
For Elevated Installation >25' To 30' Above Floor, Add	9.67	
For Elevated Installation >30' To 35' Above Floor, Add	11.06	
For Elevated Installation >35' To 40' Above Floor, Add	13.82	
For Elevated Installation >40' Above Floor, Add	15.20	
26 05 33 13-0462 EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	34.91	15.71
For Work In Restricted Working Space, Add	9.42	
For Elevated Installation >10' To 15' Above Floor, Add	3.14	
For Elevated Installation >15' To 20' Above Floor, Add	6.28	
For Elevated Installation >20' To 25' Above Floor, Add	7.85	
For Elevated Installation >25' To 30' Above Floor, Add	10.99	
For Elevated Installation >30' To 35' Above Floor, Add	12.56	
For Elevated Installation >35' To 40' Above Floor, Add	15.71	
For Elevated Installation >40' Above Floor, Add	17.28	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0463	EA	1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	42.07	18.85
		For Work In Restricted Working Space, Add	11.31	
		For Elevated Installation >10' To 15' Above Floor, Add	3.77	
		For Elevated Installation >15' To 20' Above Floor, Add	7.54	
		For Elevated Installation >20' To 25' Above Floor, Add	9.42	
		For Elevated Installation >25' To 30' Above Floor, Add	13.19	
		For Elevated Installation >30' To 35' Above Floor, Add	15.08	
		For Elevated Installation >35' To 40' Above Floor, Add	18.85	
		For Elevated Installation >40' Above Floor, Add	20.73	
26 05 33 13-0464	EA	2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	49.26	21.36
		For Work In Restricted Working Space, Add	12.82	
		For Elevated Installation >10' To 15' Above Floor, Add	4.27	
		For Elevated Installation >15' To 20' Above Floor, Add	8.55	
		For Elevated Installation >20' To 25' Above Floor, Add	10.68	
		For Elevated Installation >25' To 30' Above Floor, Add	14.96	
		For Elevated Installation >30' To 35' Above Floor, Add	17.09	
		For Elevated Installation >35' To 40' Above Floor, Add	21.37	
		For Elevated Installation >40' Above Floor, Add	23.50	
26 05 33 13-0465	EA	2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	62.41	23.87
		For Work In Restricted Working Space, Add	14.33	
		For Elevated Installation >10' To 15' Above Floor, Add	4.78	
		For Elevated Installation >15' To 20' Above Floor, Add	9.55	
		For Elevated Installation >20' To 25' Above Floor, Add	11.94	
		For Elevated Installation >25' To 30' Above Floor, Add	16.71	
		For Elevated Installation >30' To 35' Above Floor, Add	19.10	
		For Elevated Installation >35' To 40' Above Floor, Add	23.88	
		For Elevated Installation >40' Above Floor, Add	26.26	
26 05 33 13-0466	EA	3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	73.09	27.02
		For Work In Restricted Working Space, Add	16.21	
		For Elevated Installation >10' To 15' Above Floor, Add	5.40	
		For Elevated Installation >15' To 20' Above Floor, Add	10.81	
		For Elevated Installation >20' To 25' Above Floor, Add	13.51	
		For Elevated Installation >25' To 30' Above Floor, Add	18.91	
		For Elevated Installation >30' To 35' Above Floor, Add	21.61	
		For Elevated Installation >35' To 40' Above Floor, Add	27.02	
		For Elevated Installation >40' Above Floor, Add	29.72	
26 05 33 13-0467	EA	3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	84.81	29.53
		For Work In Restricted Working Space, Add	17.72	
		For Elevated Installation >10' To 15' Above Floor, Add	5.91	
		For Elevated Installation >15' To 20' Above Floor, Add	11.81	
		For Elevated Installation >20' To 25' Above Floor, Add	14.77	
		For Elevated Installation >25' To 30' Above Floor, Add	20.67	
		For Elevated Installation >30' To 35' Above Floor, Add	23.62	
		For Elevated Installation >35' To 40' Above Floor, Add	29.53	
		For Elevated Installation >40' Above Floor, Add	32.48	
26 05 33 13-0468	EA	4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	89.65	31.41
		For Work In Restricted Working Space, Add	18.85	
		For Elevated Installation >10' To 15' Above Floor, Add	6.28	
		For Elevated Installation >15' To 20' Above Floor, Add	12.57	
		For Elevated Installation >20' To 25' Above Floor, Add	15.71	
		For Elevated Installation >25' To 30' Above Floor, Add	21.99	
		For Elevated Installation >30' To 35' Above Floor, Add	25.13	
		For Elevated Installation >35' To 40' Above Floor, Add	31.42	
		For Elevated Installation >40' Above Floor, Add	34.56	
26 05 33 13-0469		Rigid Galvanized Steel (RGS) Sealing Locknut (26 05 33 13-0060)		
26 05 33 13-0470	EA	1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	3.80	1.25
26 05 33 13-0471	EA	3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	5.25	1.88
26 05 33 13-0472	EA	1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	8.72	3.14
26 05 33 13-0473	EA	1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	12.61	4.40
26 05 33 13-0474	EA	1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	15.08	5.02
26 05 33 13-0475	EA	2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	17.72	5.65
26 05 33 13-0476		Rigid Galvanized Steel (RGS) Fire Stop Fittings (26 05 33 13-0060)		
26 05 33 13-0477	EA	1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	200.57	15.25
		For Work In Restricted Working Space, Add	11.44	
		For Elevated Installation >10' To 15' Above Floor, Add	3.81	
		For Elevated Installation >15' To 20' Above Floor, Add	7.63	
		For Elevated Installation >20' To 25' Above Floor, Add	9.53	
		For Elevated Installation >25' To 30' Above Floor, Add	13.35	
		For Elevated Installation >30' To 35' Above Floor, Add	15.25	
		For Elevated Installation >35' To 40' Above Floor, Add	19.07	
		For Elevated Installation >40' Above Floor, Add	20.97	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.44	
26 05 33 13-0478	EA	3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	204.24	16.71
		For Work In Restricted Working Space, Add	12.54	
		For Elevated Installation >10' To 15' Above Floor, Add	4.18	
		For Elevated Installation >15' To 20' Above Floor, Add	8.36	
		For Elevated Installation >20' To 25' Above Floor, Add	10.45	
		For Elevated Installation >25' To 30' Above Floor, Add	14.63	
		For Elevated Installation >30' To 35' Above Floor, Add	16.72	
		For Elevated Installation >35' To 40' Above Floor, Add	20.90	
		For Elevated Installation >40' Above Floor, Add	22.99	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.54	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0479	EA	1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	244.59	18.34
		For Work In Restricted Working Space, Add	13.73	
		For Elevated Installation >10' To 15' Above Floor, Add	4.58	
		For Elevated Installation >15' To 20' Above Floor, Add	9.16	
		For Elevated Installation >20' To 25' Above Floor, Add	11.45	
		For Elevated Installation >25' To 30' Above Floor, Add	16.02	
		For Elevated Installation >30' To 35' Above Floor, Add	18.31	
		For Elevated Installation >35' To 40' Above Floor, Add	22.89	
		For Elevated Installation >40' Above Floor, Add	25.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.73	
26 05 33 13-0480	EA	1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	268.51	20.10
		For Work In Restricted Working Space, Add	15.09	
		For Elevated Installation >10' To 15' Above Floor, Add	5.03	
		For Elevated Installation >15' To 20' Above Floor, Add	10.06	
		For Elevated Installation >20' To 25' Above Floor, Add	12.58	
		For Elevated Installation >25' To 30' Above Floor, Add	17.61	
		For Elevated Installation >30' To 35' Above Floor, Add	20.12	
		For Elevated Installation >35' To 40' Above Floor, Add	25.15	
		For Elevated Installation >40' Above Floor, Add	27.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.09	
26 05 33 13-0481	EA	1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	306.28	22.62
		For Work In Restricted Working Space, Add	16.97	
		For Elevated Installation >10' To 15' Above Floor, Add	5.66	
		For Elevated Installation >15' To 20' Above Floor, Add	11.31	
		For Elevated Installation >20' To 25' Above Floor, Add	14.14	
		For Elevated Installation >25' To 30' Above Floor, Add	19.79	
		For Elevated Installation >30' To 35' Above Floor, Add	22.62	
		For Elevated Installation >35' To 40' Above Floor, Add	28.28	
		For Elevated Installation >40' Above Floor, Add	31.10	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.97	
26 05 33 13-0482	EA	2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	450.79	25.13
		For Work In Restricted Working Space, Add	18.86	
		For Elevated Installation >10' To 15' Above Floor, Add	6.29	
		For Elevated Installation >15' To 20' Above Floor, Add	12.57	
		For Elevated Installation >20' To 25' Above Floor, Add	15.72	
		For Elevated Installation >25' To 30' Above Floor, Add	22.00	
		For Elevated Installation >30' To 35' Above Floor, Add	25.14	
		For Elevated Installation >35' To 40' Above Floor, Add	31.43	
		For Elevated Installation >40' Above Floor, Add	34.57	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86	
26 05 33 13-0483	EA	2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	520.24	33.55
		For Work In Restricted Working Space, Add	25.15	
		For Elevated Installation >10' To 15' Above Floor, Add	8.38	
		For Elevated Installation >15' To 20' Above Floor, Add	16.76	
		For Elevated Installation >20' To 25' Above Floor, Add	20.96	
		For Elevated Installation >25' To 30' Above Floor, Add	29.34	
		For Elevated Installation >30' To 35' Above Floor, Add	33.53	
		For Elevated Installation >35' To 40' Above Floor, Add	41.91	
		For Elevated Installation >40' Above Floor, Add	46.10	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.15	
26 05 33 13-0484	EA	3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	577.02	36.81
		For Work In Restricted Working Space, Add	27.63	
		For Elevated Installation >10' To 15' Above Floor, Add	9.21	
		For Elevated Installation >15' To 20' Above Floor, Add	18.42	
		For Elevated Installation >20' To 25' Above Floor, Add	23.03	
		For Elevated Installation >25' To 30' Above Floor, Add	32.24	
		For Elevated Installation >30' To 35' Above Floor, Add	36.84	
		For Elevated Installation >35' To 40' Above Floor, Add	46.06	
		For Elevated Installation >40' Above Floor, Add	50.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.63	
26 05 33 13-0485	EA	3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	670.31	40.21
		For Work In Restricted Working Space, Add	30.16	
		For Elevated Installation >10' To 15' Above Floor, Add	10.05	
		For Elevated Installation >15' To 20' Above Floor, Add	20.11	
		For Elevated Installation >20' To 25' Above Floor, Add	25.14	
		For Elevated Installation >25' To 30' Above Floor, Add	35.19	
		For Elevated Installation >30' To 35' Above Floor, Add	40.22	
		For Elevated Installation >35' To 40' Above Floor, Add	50.27	
		For Elevated Installation >40' Above Floor, Add	55.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.16	
26 05 33 13-0486	EA	4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	755.59	45.23
		For Work In Restricted Working Space, Add	33.93	
		For Elevated Installation >10' To 15' Above Floor, Add	11.31	
		For Elevated Installation >15' To 20' Above Floor, Add	22.62	
		For Elevated Installation >20' To 25' Above Floor, Add	28.27	
		For Elevated Installation >25' To 30' Above Floor, Add	39.58	
		For Elevated Installation >30' To 35' Above Floor, Add	45.24	
		For Elevated Installation >35' To 40' Above Floor, Add	56.55	
		For Elevated Installation >40' Above Floor, Add	62.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.93	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0487	EA	5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,010.60	50.26
		For Work In Restricted Working Space, Add	37.70	
		For Elevated Installation >10' To 15' Above Floor, Add	12.57	
		For Elevated Installation >15' To 20' Above Floor, Add	25.13	
		For Elevated Installation >20' To 25' Above Floor, Add	31.41	
		For Elevated Installation >25' To 30' Above Floor, Add	43.98	
		For Elevated Installation >30' To 35' Above Floor, Add	50.26	
		For Elevated Installation >35' To 40' Above Floor, Add	62.83	
		For Elevated Installation >40' Above Floor, Add	69.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.70	
26 05 33 13-0488	EA	6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,254.76	55.79
		For Work In Restricted Working Space, Add	41.84	
		For Elevated Installation >10' To 15' Above Floor, Add	13.95	
		For Elevated Installation >15' To 20' Above Floor, Add	27.89	
		For Elevated Installation >20' To 25' Above Floor, Add	34.87	
		For Elevated Installation >25' To 30' Above Floor, Add	48.81	
		For Elevated Installation >30' To 35' Above Floor, Add	55.79	
		For Elevated Installation >35' To 40' Above Floor, Add	69.74	
		For Elevated Installation >40' Above Floor, Add	76.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.84	
26 05 33 13-0489 Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0060)				
26 05 33 13-0490	EA	3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	20.46	9.74
		For Work In Restricted Working Space, Add	5.84	
		For Elevated Installation >10' To 15' Above Floor, Add	1.95	
		For Elevated Installation >15' To 20' Above Floor, Add	3.89	
		For Elevated Installation >20' To 25' Above Floor, Add	4.87	
		For Elevated Installation >25' To 30' Above Floor, Add	6.81	
		For Elevated Installation >30' To 35' Above Floor, Add	7.79	
		For Elevated Installation >35' To 40' Above Floor, Add	9.74	
		For Elevated Installation >40' Above Floor, Add	10.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 05 33 13-0491	EA	1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	22.56	10.36
		For Work In Restricted Working Space, Add	6.22	
		For Elevated Installation >10' To 15' Above Floor, Add	2.07	
		For Elevated Installation >15' To 20' Above Floor, Add	4.15	
		For Elevated Installation >20' To 25' Above Floor, Add	5.19	
		For Elevated Installation >25' To 30' Above Floor, Add	7.26	
		For Elevated Installation >30' To 35' Above Floor, Add	8.30	
		For Elevated Installation >35' To 40' Above Floor, Add	10.37	
		For Elevated Installation >40' Above Floor, Add	11.41	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.22	
26 05 33 13-0492	EA	1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	23.18	10.68
		For Work In Restricted Working Space, Add	6.41	
		For Elevated Installation >10' To 15' Above Floor, Add	2.14	
		For Elevated Installation >15' To 20' Above Floor, Add	4.27	
		For Elevated Installation >20' To 25' Above Floor, Add	5.34	
		For Elevated Installation >25' To 30' Above Floor, Add	7.48	
		For Elevated Installation >30' To 35' Above Floor, Add	8.54	
		For Elevated Installation >35' To 40' Above Floor, Add	10.68	
		For Elevated Installation >40' Above Floor, Add	11.75	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-0493	EA	1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	26.71	10.99
		For Work In Restricted Working Space, Add	6.60	
		For Elevated Installation >10' To 15' Above Floor, Add	2.20	
		For Elevated Installation >15' To 20' Above Floor, Add	4.40	
		For Elevated Installation >20' To 25' Above Floor, Add	5.50	
		For Elevated Installation >25' To 30' Above Floor, Add	7.70	
		For Elevated Installation >30' To 35' Above Floor, Add	8.80	
		For Elevated Installation >35' To 40' Above Floor, Add	11.00	
		For Elevated Installation >40' Above Floor, Add	12.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 05 33 13-0494	EA	1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	27.34	11.31
		For Work In Restricted Working Space, Add	6.79	
		For Elevated Installation >10' To 15' Above Floor, Add	2.26	
		For Elevated Installation >15' To 20' Above Floor, Add	4.52	
		For Elevated Installation >20' To 25' Above Floor, Add	5.66	
		For Elevated Installation >25' To 30' Above Floor, Add	7.92	
		For Elevated Installation >30' To 35' Above Floor, Add	9.05	
		For Elevated Installation >35' To 40' Above Floor, Add	11.31	
		For Elevated Installation >40' Above Floor, Add	12.44	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 33 13-0495	EA	1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	28.59	11.94
		For Work In Restricted Working Space, Add	7.16	
		For Elevated Installation >10' To 15' Above Floor, Add	2.39	
		For Elevated Installation >15' To 20' Above Floor, Add	4.77	
		For Elevated Installation >20' To 25' Above Floor, Add	5.97	
		For Elevated Installation >25' To 30' Above Floor, Add	8.35	
		For Elevated Installation >30' To 35' Above Floor, Add	9.55	
		For Elevated Installation >35' To 40' Above Floor, Add	11.94	
		For Elevated Installation >40' Above Floor, Add	13.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0496 EA 1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	30.85	12.57
For Work In Restricted Working Space, Add	7.54	
For Elevated Installation >10' To 15' Above Floor, Add	2.51	
For Elevated Installation >15' To 20' Above Floor, Add	5.03	
For Elevated Installation >20' To 25' Above Floor, Add	6.28	
For Elevated Installation >25' To 30' Above Floor, Add	8.80	
For Elevated Installation >30' To 35' Above Floor, Add	10.05	
For Elevated Installation >35' To 40' Above Floor, Add	12.57	
For Elevated Installation >40' Above Floor, Add	13.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.54	
26 05 33 13-0497 EA 1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	31.48	12.88
For Work In Restricted Working Space, Add	7.73	
For Elevated Installation >10' To 15' Above Floor, Add	2.58	
For Elevated Installation >15' To 20' Above Floor, Add	5.15	
For Elevated Installation >20' To 25' Above Floor, Add	6.44	
For Elevated Installation >25' To 30' Above Floor, Add	9.02	
For Elevated Installation >30' To 35' Above Floor, Add	10.30	
For Elevated Installation >35' To 40' Above Floor, Add	12.88	
For Elevated Installation >40' Above Floor, Add	14.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.73	
26 05 33 13-0498 EA 1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	32.74	13.51
For Work In Restricted Working Space, Add	8.11	
For Elevated Installation >10' To 15' Above Floor, Add	2.70	
For Elevated Installation >15' To 20' Above Floor, Add	5.40	
For Elevated Installation >20' To 25' Above Floor, Add	6.76	
For Elevated Installation >25' To 30' Above Floor, Add	9.46	
For Elevated Installation >30' To 35' Above Floor, Add	10.81	
For Elevated Installation >35' To 40' Above Floor, Add	13.51	
For Elevated Installation >40' Above Floor, Add	14.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.11	
26 05 33 13-0499 EA 1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	33.99	14.13
For Work In Restricted Working Space, Add	8.48	
For Elevated Installation >10' To 15' Above Floor, Add	2.83	
For Elevated Installation >15' To 20' Above Floor, Add	5.65	
For Elevated Installation >20' To 25' Above Floor, Add	7.07	
For Elevated Installation >25' To 30' Above Floor, Add	9.89	
For Elevated Installation >30' To 35' Above Floor, Add	11.31	
For Elevated Installation >35' To 40' Above Floor, Add	14.14	
For Elevated Installation >40' Above Floor, Add	15.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.48	
26 05 33 13-0500 EA 2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	40.83	14.13
For Work In Restricted Working Space, Add	8.48	
For Elevated Installation >10' To 15' Above Floor, Add	2.83	
For Elevated Installation >15' To 20' Above Floor, Add	5.65	
For Elevated Installation >20' To 25' Above Floor, Add	7.07	
For Elevated Installation >25' To 30' Above Floor, Add	9.89	
For Elevated Installation >30' To 35' Above Floor, Add	11.31	
For Elevated Installation >35' To 40' Above Floor, Add	14.14	
For Elevated Installation >40' Above Floor, Add	15.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.48	
26 05 33 13-0501 EA 2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	41.46	14.45
For Work In Restricted Working Space, Add	8.67	
For Elevated Installation >10' To 15' Above Floor, Add	2.89	
For Elevated Installation >15' To 20' Above Floor, Add	5.78	
For Elevated Installation >20' To 25' Above Floor, Add	7.23	
For Elevated Installation >25' To 30' Above Floor, Add	10.12	
For Elevated Installation >30' To 35' Above Floor, Add	11.56	
For Elevated Installation >35' To 40' Above Floor, Add	14.45	
For Elevated Installation >40' Above Floor, Add	15.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.67	
26 05 33 13-0502 EA 2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	42.72	15.07
For Work In Restricted Working Space, Add	9.05	
For Elevated Installation >10' To 15' Above Floor, Add	3.02	
For Elevated Installation >15' To 20' Above Floor, Add	6.03	
For Elevated Installation >20' To 25' Above Floor, Add	7.54	
For Elevated Installation >25' To 30' Above Floor, Add	10.56	
For Elevated Installation >30' To 35' Above Floor, Add	12.06	
For Elevated Installation >35' To 40' Above Floor, Add	15.08	
For Elevated Installation >40' Above Floor, Add	16.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.05	
26 05 33 13-0503 EA 2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	43.97	15.71
For Work In Restricted Working Space, Add	9.42	
For Elevated Installation >10' To 15' Above Floor, Add	3.14	
For Elevated Installation >15' To 20' Above Floor, Add	6.28	
For Elevated Installation >20' To 25' Above Floor, Add	7.85	
For Elevated Installation >25' To 30' Above Floor, Add	10.99	
For Elevated Installation >30' To 35' Above Floor, Add	12.56	
For Elevated Installation >35' To 40' Above Floor, Add	15.71	
For Elevated Installation >40' Above Floor, Add	17.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0504 EA 2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	47.12	17.28
For Work In Restricted Working Space, Add	10.37	
For Elevated Installation >10' To 15' Above Floor, Add	3.46	
For Elevated Installation >15' To 20' Above Floor, Add	6.91	
For Elevated Installation >20' To 25' Above Floor, Add	8.64	
For Elevated Installation >25' To 30' Above Floor, Add	12.10	
For Elevated Installation >30' To 35' Above Floor, Add	13.82	
For Elevated Installation >35' To 40' Above Floor, Add	17.28	
For Elevated Installation >40' Above Floor, Add	19.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.37	
26 05 33 13-0505 EA 2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	59.45	20.42
For Work In Restricted Working Space, Add	12.25	
For Elevated Installation >10' To 15' Above Floor, Add	4.08	
For Elevated Installation >15' To 20' Above Floor, Add	8.17	
For Elevated Installation >20' To 25' Above Floor, Add	10.21	
For Elevated Installation >25' To 30' Above Floor, Add	14.29	
For Elevated Installation >30' To 35' Above Floor, Add	16.34	
For Elevated Installation >35' To 40' Above Floor, Add	20.42	
For Elevated Installation >40' Above Floor, Add	22.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 33 13-0506 Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0060)		
26 05 33 13-0507 EA 1/2" Rigid Galvanized Steel (RGS) Locknuts.....	2.61	1.25
For Work In Restricted Working Space, Add	0.76	
For Elevated Installation >10' To 15' Above Floor, Add	0.25	
For Elevated Installation >15' To 20' Above Floor, Add	0.50	
For Elevated Installation >20' To 25' Above Floor, Add	0.63	
For Elevated Installation >25' To 30' Above Floor, Add	0.88	
For Elevated Installation >30' To 35' Above Floor, Add	1.01	
For Elevated Installation >35' To 40' Above Floor, Add	1.26	
For Elevated Installation >40' Above Floor, Add	1.39	
26 05 33 13-0508 EA 3/4" Rigid Galvanized Steel (RGS) Locknuts.....	3.90	1.88
For Work In Restricted Working Space, Add	1.13	
For Elevated Installation >10' To 15' Above Floor, Add	0.38	
For Elevated Installation >15' To 20' Above Floor, Add	0.75	
For Elevated Installation >20' To 25' Above Floor, Add	0.94	
For Elevated Installation >25' To 30' Above Floor, Add	1.32	
For Elevated Installation >30' To 35' Above Floor, Add	1.51	
For Elevated Installation >35' To 40' Above Floor, Add	1.89	
For Elevated Installation >40' Above Floor, Add	2.07	
26 05 33 13-0509 EA 1" Rigid Galvanized Steel (RGS) Locknuts.....	6.49	3.14
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15' Above Floor, Add	0.63	
For Elevated Installation >15' To 20' Above Floor, Add	1.26	
For Elevated Installation >20' To 25' Above Floor, Add	1.57	
For Elevated Installation >25' To 30' Above Floor, Add	2.20	
For Elevated Installation >30' To 35' Above Floor, Add	2.51	
For Elevated Installation >35' To 40' Above Floor, Add	3.14	
For Elevated Installation >40' Above Floor, Add	3.45	
26 05 33 13-0510 EA 1-1/4" Rigid Galvanized Steel (RGS) Locknuts.....	9.15	4.40
For Work In Restricted Working Space, Add	2.64	
For Elevated Installation >10' To 15' Above Floor, Add	0.88	
For Elevated Installation >15' To 20' Above Floor, Add	1.76	
For Elevated Installation >20' To 25' Above Floor, Add	2.20	
For Elevated Installation >25' To 30' Above Floor, Add	3.08	
For Elevated Installation >30' To 35' Above Floor, Add	3.52	
For Elevated Installation >35' To 40' Above Floor, Add	4.40	
For Elevated Installation >40' Above Floor, Add	4.84	
26 05 33 13-0511 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	10.50	5.02
For Work In Restricted Working Space, Add	3.02	
For Elevated Installation >10' To 15' Above Floor, Add	1.01	
For Elevated Installation >15' To 20' Above Floor, Add	2.01	
For Elevated Installation >20' To 25' Above Floor, Add	2.51	
For Elevated Installation >25' To 30' Above Floor, Add	3.52	
For Elevated Installation >30' To 35' Above Floor, Add	4.02	
For Elevated Installation >35' To 40' Above Floor, Add	5.03	
For Elevated Installation >40' Above Floor, Add	5.53	
26 05 33 13-0512 EA 2" Rigid Galvanized Steel (RGS) Locknuts.....	11.87	5.65
For Work In Restricted Working Space, Add	3.39	
For Elevated Installation >10' To 15' Above Floor, Add	1.13	
For Elevated Installation >15' To 20' Above Floor, Add	2.26	
For Elevated Installation >20' To 25' Above Floor, Add	2.83	
For Elevated Installation >25' To 30' Above Floor, Add	3.96	
For Elevated Installation >30' To 35' Above Floor, Add	4.52	
For Elevated Installation >35' To 40' Above Floor, Add	5.66	
For Elevated Installation >40' Above Floor, Add	6.22	
26 05 33 13-0513 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	16.56	7.54
For Work In Restricted Working Space, Add	4.52	
For Elevated Installation >10' To 15' Above Floor, Add	1.51	
For Elevated Installation >15' To 20' Above Floor, Add	3.01	
For Elevated Installation >20' To 25' Above Floor, Add	3.77	
For Elevated Installation >25' To 30' Above Floor, Add	5.27	
For Elevated Installation >30' To 35' Above Floor, Add	6.03	
For Elevated Installation >35' To 40' Above Floor, Add	7.54	
For Elevated Installation >40' Above Floor, Add	8.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0514 EA 3" Rigid Galvanized Steel (RGS) Locknuts..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	20.49 5.66 1.89 3.77 4.71 6.60 7.54 9.43 10.37	9.42
26 05 33 13-0515 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	24.09 6.41 2.14 4.27 5.34 7.48 8.54 10.68 11.75	10.68
26 05 33 13-0516 EA 4" Rigid Galvanized Steel (RGS) Locknuts..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	27.01 7.16 2.39 4.77 5.97 8.35 9.55 11.94 13.13	11.94
26 05 33 13-0517 Rigid Galvanized Steel (RGS) Grounding Locknuts (26 05 33 13-0060)		
26 05 33 13-0518 EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	3.88 0.76 0.25 0.50 0.63 0.88 1.01 1.26 1.39	1.25
26 05 33 13-0519 EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	5.40 1.13 0.38 0.75 0.94 1.32 1.51 1.89 2.07	1.88
26 05 33 13-0520 EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	8.62 1.88 0.63 1.26 1.57 2.20 2.51 3.14 3.45	3.14
26 05 33 13-0521 EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	12.05 2.64 0.88 1.76 2.20 3.08 3.52 4.40 4.84	4.40
26 05 33 13-0522 EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	13.61 3.02 1.01 2.01 2.51 3.52 4.02 5.03 5.53	5.02
26 05 33 13-0523 EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	15.96 3.39 1.13 2.26 2.83 3.96 4.52 5.66 6.22	5.65

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0524	EA	2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	.....	23.70	7.54
		For Work In Restricted Working Space, Add		4.52	
		For Elevated Installation >10' To 15' Above Floor, Add		1.51	
		For Elevated Installation >15' To 20' Above Floor, Add		3.01	
		For Elevated Installation >20' To 25' Above Floor, Add		3.77	
		For Elevated Installation >25' To 30' Above Floor, Add		5.27	
		For Elevated Installation >30' To 35' Above Floor, Add		6.03	
		For Elevated Installation >35' To 40' Above Floor, Add		7.54	
		For Elevated Installation >40' Above Floor, Add		8.29	
26 05 33 13-0525	EA	3" Rigid Galvanized Steel (RGS) Grounding Locknuts	.....	29.81	9.42
		For Work In Restricted Working Space, Add		5.66	
		For Elevated Installation >10' To 15' Above Floor, Add		1.89	
		For Elevated Installation >15' To 20' Above Floor, Add		3.77	
		For Elevated Installation >20' To 25' Above Floor, Add		4.71	
		For Elevated Installation >25' To 30' Above Floor, Add		6.60	
		For Elevated Installation >30' To 35' Above Floor, Add		7.54	
		For Elevated Installation >35' To 40' Above Floor, Add		9.43	
		For Elevated Installation >40' Above Floor, Add		10.37	
26 05 33 13-0526	EA	3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	.....	39.15	10.68
		For Work In Restricted Working Space, Add		6.41	
		For Elevated Installation >10' To 15' Above Floor, Add		2.14	
		For Elevated Installation >15' To 20' Above Floor, Add		4.27	
		For Elevated Installation >20' To 25' Above Floor, Add		5.34	
		For Elevated Installation >25' To 30' Above Floor, Add		7.48	
		For Elevated Installation >30' To 35' Above Floor, Add		8.54	
		For Elevated Installation >35' To 40' Above Floor, Add		10.68	
		For Elevated Installation >40' Above Floor, Add		11.75	
26 05 33 13-0527	EA	4" Rigid Galvanized Steel (RGS) Grounding Locknuts	.....	46.82	11.94
		For Work In Restricted Working Space, Add		7.16	
		For Elevated Installation >10' To 15' Above Floor, Add		2.39	
		For Elevated Installation >15' To 20' Above Floor, Add		4.77	
		For Elevated Installation >20' To 25' Above Floor, Add		5.97	
		For Elevated Installation >25' To 30' Above Floor, Add		8.35	
		For Elevated Installation >30' To 35' Above Floor, Add		9.55	
		For Elevated Installation >35' To 40' Above Floor, Add		11.94	
		For Elevated Installation >40' Above Floor, Add		13.13	
26 05 33 13-0528 Rigid Galvanized Steel (RGS) Insulated Ground Bushing (26 05 33 13-0060)					
26 05 33 13-0529	EA	1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	.....	10.94	3.77
		For Work In Restricted Working Space, Add		2.26	
		For Elevated Installation >10' To 15' Above Floor, Add		0.75	
		For Elevated Installation >15' To 20' Above Floor, Add		1.51	
		For Elevated Installation >20' To 25' Above Floor, Add		1.89	
		For Elevated Installation >25' To 30' Above Floor, Add		2.64	
		For Elevated Installation >30' To 35' Above Floor, Add		3.02	
		For Elevated Installation >35' To 40' Above Floor, Add		3.77	
		For Elevated Installation >40' Above Floor, Add		4.15	
26 05 33 13-0530	EA	3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	.....	13.75	5.02
		For Work In Restricted Working Space, Add		3.02	
		For Elevated Installation >10' To 15' Above Floor, Add		1.01	
		For Elevated Installation >15' To 20' Above Floor, Add		2.01	
		For Elevated Installation >20' To 25' Above Floor, Add		2.51	
		For Elevated Installation >25' To 30' Above Floor, Add		3.52	
		For Elevated Installation >30' To 35' Above Floor, Add		4.02	
		For Elevated Installation >35' To 40' Above Floor, Add		5.03	
		For Elevated Installation >40' Above Floor, Add		5.53	
26 05 33 13-0531	EA	1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	.....	17.55	6.28
		For Work In Restricted Working Space, Add		3.77	
		For Elevated Installation >10' To 15' Above Floor, Add		1.26	
		For Elevated Installation >15' To 20' Above Floor, Add		2.51	
		For Elevated Installation >20' To 25' Above Floor, Add		3.14	
		For Elevated Installation >25' To 30' Above Floor, Add		4.40	
		For Elevated Installation >30' To 35' Above Floor, Add		5.03	
		For Elevated Installation >35' To 40' Above Floor, Add		6.29	
		For Elevated Installation >40' Above Floor, Add		6.91	
26 05 33 13-0532	EA	1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	.....	25.66	10.05
		For Work In Restricted Working Space, Add		6.03	
		For Elevated Installation >10' To 15' Above Floor, Add		2.01	
		For Elevated Installation >15' To 20' Above Floor, Add		4.02	
		For Elevated Installation >20' To 25' Above Floor, Add		5.03	
		For Elevated Installation >25' To 30' Above Floor, Add		7.04	
		For Elevated Installation >30' To 35' Above Floor, Add		8.04	
		For Elevated Installation >35' To 40' Above Floor, Add		10.05	
		For Elevated Installation >40' Above Floor, Add		11.06	
26 05 33 13-0533	EA	1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	.....	28.91	11.31
		For Work In Restricted Working Space, Add		6.79	
		For Elevated Installation >10' To 15' Above Floor, Add		2.26	
		For Elevated Installation >15' To 20' Above Floor, Add		4.52	
		For Elevated Installation >20' To 25' Above Floor, Add		5.66	
		For Elevated Installation >25' To 30' Above Floor, Add		7.92	
		For Elevated Installation >30' To 35' Above Floor, Add		9.05	
		For Elevated Installation >35' To 40' Above Floor, Add		11.31	
		For Elevated Installation >40' Above Floor, Add		12.44	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0534	EA	2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	32.84	12.57
			For Work In Restricted Working Space, Add	7.54	
			For Elevated Installation >10' To 15' Above Floor, Add	2.51	
			For Elevated Installation >15' To 20' Above Floor, Add	5.03	
			For Elevated Installation >20' To 25' Above Floor, Add	6.28	
			For Elevated Installation >25' To 30' Above Floor, Add	8.80	
			For Elevated Installation >30' To 35' Above Floor, Add	10.05	
			For Elevated Installation >35' To 40' Above Floor, Add	12.57	
			For Elevated Installation >40' Above Floor, Add	13.82	
26 05 33	13-0535	EA	2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	45.06	15.07
			For Work In Restricted Working Space, Add	9.05	
			For Elevated Installation >10' To 15' Above Floor, Add	3.02	
			For Elevated Installation >15' To 20' Above Floor, Add	6.03	
			For Elevated Installation >20' To 25' Above Floor, Add	7.54	
			For Elevated Installation >25' To 30' Above Floor, Add	10.56	
			For Elevated Installation >30' To 35' Above Floor, Add	12.06	
			For Elevated Installation >35' To 40' Above Floor, Add	15.08	
			For Elevated Installation >40' Above Floor, Add	16.59	
26 05 33	13-0536	EA	3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	54.76	18.85
			For Work In Restricted Working Space, Add	11.31	
			For Elevated Installation >10' To 15' Above Floor, Add	3.77	
			For Elevated Installation >15' To 20' Above Floor, Add	7.54	
			For Elevated Installation >20' To 25' Above Floor, Add	9.42	
			For Elevated Installation >25' To 30' Above Floor, Add	13.19	
			For Elevated Installation >30' To 35' Above Floor, Add	15.08	
			For Elevated Installation >35' To 40' Above Floor, Add	18.85	
			For Elevated Installation >40' Above Floor, Add	20.73	
26 05 33	13-0537	EA	3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	67.89	25.13
			For Work In Restricted Working Space, Add	15.08	
			For Elevated Installation >10' To 15' Above Floor, Add	5.03	
			For Elevated Installation >15' To 20' Above Floor, Add	10.05	
			For Elevated Installation >20' To 25' Above Floor, Add	12.57	
			For Elevated Installation >25' To 30' Above Floor, Add	17.59	
			For Elevated Installation >30' To 35' Above Floor, Add	20.10	
			For Elevated Installation >35' To 40' Above Floor, Add	25.13	
			For Elevated Installation >40' Above Floor, Add	27.64	
26 05 33	13-0538	EA	4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	82.76	31.41
			For Work In Restricted Working Space, Add	18.85	
			For Elevated Installation >10' To 15' Above Floor, Add	6.28	
			For Elevated Installation >15' To 20' Above Floor, Add	12.57	
			For Elevated Installation >20' To 25' Above Floor, Add	15.71	
			For Elevated Installation >25' To 30' Above Floor, Add	21.99	
			For Elevated Installation >30' To 35' Above Floor, Add	25.13	
			For Elevated Installation >35' To 40' Above Floor, Add	31.42	
			For Elevated Installation >40' Above Floor, Add	34.56	
26 05 33	13-0539		Rigid Galvanized Steel (RGS) Threadless Compression Connectors (26 05 33 13-0060)		
26 05 33	13-0540	EA	1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	26.59	11.31
			For Work In Restricted Working Space, Add	6.79	
			For Elevated Installation >10' To 15' Above Floor, Add	2.26	
			For Elevated Installation >15' To 20' Above Floor, Add	4.52	
			For Elevated Installation >20' To 25' Above Floor, Add	5.66	
			For Elevated Installation >25' To 30' Above Floor, Add	7.92	
			For Elevated Installation >30' To 35' Above Floor, Add	9.05	
			For Elevated Installation >35' To 40' Above Floor, Add	11.31	
			For Elevated Installation >40' Above Floor, Add	12.44	
26 05 33	13-0541	EA	3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	31.52	12.57
			For Work In Restricted Working Space, Add	7.54	
			For Elevated Installation >10' To 15' Above Floor, Add	2.51	
			For Elevated Installation >15' To 20' Above Floor, Add	5.03	
			For Elevated Installation >20' To 25' Above Floor, Add	6.28	
			For Elevated Installation >25' To 30' Above Floor, Add	8.80	
			For Elevated Installation >30' To 35' Above Floor, Add	10.05	
			For Elevated Installation >35' To 40' Above Floor, Add	12.57	
			For Elevated Installation >40' Above Floor, Add	13.82	
26 05 33	13-0542	EA	1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	41.40	15.71
			For Work In Restricted Working Space, Add	9.42	
			For Elevated Installation >10' To 15' Above Floor, Add	3.14	
			For Elevated Installation >15' To 20' Above Floor, Add	6.28	
			For Elevated Installation >20' To 25' Above Floor, Add	7.85	
			For Elevated Installation >25' To 30' Above Floor, Add	10.99	
			For Elevated Installation >30' To 35' Above Floor, Add	12.56	
			For Elevated Installation >35' To 40' Above Floor, Add	15.71	
			For Elevated Installation >40' Above Floor, Add	17.28	
26 05 33	13-0543	EA	1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	56.49	18.85
			For Work In Restricted Working Space, Add	11.31	
			For Elevated Installation >10' To 15' Above Floor, Add	3.77	
			For Elevated Installation >15' To 20' Above Floor, Add	7.54	
			For Elevated Installation >20' To 25' Above Floor, Add	9.42	
			For Elevated Installation >25' To 30' Above Floor, Add	13.19	
			For Elevated Installation >30' To 35' Above Floor, Add	15.08	
			For Elevated Installation >35' To 40' Above Floor, Add	18.85	
			For Elevated Installation >40' Above Floor, Add	20.73	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0544 EA 1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	76.29	25.13
For Work In Restricted Working Space, Add	15.08	
For Elevated Installation >10' To 15' Above Floor, Add	5.03	
For Elevated Installation >15' To 20' Above Floor, Add	10.05	
For Elevated Installation >20' To 25' Above Floor, Add	12.57	
For Elevated Installation >25' To 30' Above Floor, Add	17.59	
For Elevated Installation >30' To 35' Above Floor, Add	20.10	
For Elevated Installation >35' To 40' Above Floor, Add	25.13	
For Elevated Installation >40' Above Floor, Add	27.64	
26 05 33 13-0545 EA 2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	112.78	31.41
For Work In Restricted Working Space, Add	18.85	
For Elevated Installation >10' To 15' Above Floor, Add	6.28	
For Elevated Installation >15' To 20' Above Floor, Add	12.57	
For Elevated Installation >20' To 25' Above Floor, Add	15.71	
For Elevated Installation >25' To 30' Above Floor, Add	21.99	
For Elevated Installation >30' To 35' Above Floor, Add	25.13	
For Elevated Installation >35' To 40' Above Floor, Add	31.42	
For Elevated Installation >40' Above Floor, Add	34.56	
26 05 33 13-0546 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	190.61	37.69
For Work In Restricted Working Space, Add	22.62	
For Elevated Installation >10' To 15' Above Floor, Add	7.54	
For Elevated Installation >15' To 20' Above Floor, Add	15.08	
For Elevated Installation >20' To 25' Above Floor, Add	18.85	
For Elevated Installation >25' To 30' Above Floor, Add	26.39	
For Elevated Installation >30' To 35' Above Floor, Add	30.16	
For Elevated Installation >35' To 40' Above Floor, Add	37.70	
For Elevated Installation >40' Above Floor, Add	41.46	
26 05 33 13-0547 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	240.72	43.98
For Work In Restricted Working Space, Add	26.39	
For Elevated Installation >10' To 15' Above Floor, Add	8.80	
For Elevated Installation >15' To 20' Above Floor, Add	17.59	
For Elevated Installation >20' To 25' Above Floor, Add	21.99	
For Elevated Installation >25' To 30' Above Floor, Add	30.79	
For Elevated Installation >30' To 35' Above Floor, Add	35.18	
For Elevated Installation >35' To 40' Above Floor, Add	43.98	
For Elevated Installation >40' Above Floor, Add	48.38	
26 05 33 13-0548 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	306.43	53.40
For Work In Restricted Working Space, Add	32.04	
For Elevated Installation >10' To 15' Above Floor, Add	10.68	
For Elevated Installation >15' To 20' Above Floor, Add	21.36	
For Elevated Installation >20' To 25' Above Floor, Add	26.70	
For Elevated Installation >25' To 30' Above Floor, Add	37.38	
For Elevated Installation >30' To 35' Above Floor, Add	42.72	
For Elevated Installation >35' To 40' Above Floor, Add	53.41	
For Elevated Installation >40' Above Floor, Add	58.75	
26 05 33 13-0549 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	370.03	62.83
For Work In Restricted Working Space, Add	37.70	
For Elevated Installation >10' To 15' Above Floor, Add	12.57	
For Elevated Installation >15' To 20' Above Floor, Add	25.13	
For Elevated Installation >20' To 25' Above Floor, Add	31.41	
For Elevated Installation >25' To 30' Above Floor, Add	43.98	
For Elevated Installation >30' To 35' Above Floor, Add	50.26	
For Elevated Installation >35' To 40' Above Floor, Add	62.83	
For Elevated Installation >40' Above Floor, Add	69.11	
26 05 33 13-0550 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0060)		
26 05 33 13-0551 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling	37.82	15.71
For Work In Restricted Working Space, Add	9.42	
For Elevated Installation >10' To 15' Above Floor, Add	3.14	
For Elevated Installation >15' To 20' Above Floor, Add	6.28	
For Elevated Installation >20' To 25' Above Floor, Add	7.85	
For Elevated Installation >25' To 30' Above Floor, Add	10.99	
For Elevated Installation >30' To 35' Above Floor, Add	12.56	
For Elevated Installation >35' To 40' Above Floor, Add	15.71	
For Elevated Installation >40' Above Floor, Add	17.28	
26 05 33 13-0552 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling	47.97	18.85
For Work In Restricted Working Space, Add	11.31	
For Elevated Installation >10' To 15' Above Floor, Add	3.77	
For Elevated Installation >15' To 20' Above Floor, Add	7.54	
For Elevated Installation >20' To 25' Above Floor, Add	9.42	
For Elevated Installation >25' To 30' Above Floor, Add	13.19	
For Elevated Installation >30' To 35' Above Floor, Add	15.08	
For Elevated Installation >35' To 40' Above Floor, Add	18.85	
For Elevated Installation >40' Above Floor, Add	20.73	
26 05 33 13-0553 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling	68.18	25.13
For Work In Restricted Working Space, Add	15.08	
For Elevated Installation >10' To 15' Above Floor, Add	5.03	
For Elevated Installation >15' To 20' Above Floor, Add	10.05	
For Elevated Installation >20' To 25' Above Floor, Add	12.57	
For Elevated Installation >25' To 30' Above Floor, Add	17.59	
For Elevated Installation >30' To 35' Above Floor, Add	20.10	
For Elevated Installation >35' To 40' Above Floor, Add	25.13	
For Elevated Installation >40' Above Floor, Add	27.64	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0554	EA	1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling.....	89.36	31.41
		For Work In Restricted Working Space, Add	18.85	
		For Elevated Installation >10' To 15' Above Floor, Add	6.28	
		For Elevated Installation >15' To 20' Above Floor, Add	12.57	
		For Elevated Installation >20' To 25' Above Floor, Add	15.71	
		For Elevated Installation >25' To 30' Above Floor, Add	21.99	
		For Elevated Installation >30' To 35' Above Floor, Add	25.13	
		For Elevated Installation >35' To 40' Above Floor, Add	31.42	
		For Elevated Installation >40' Above Floor, Add	34.56	
26 05 33 13-0555	EA	1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	109.93	37.69
		For Work In Restricted Working Space, Add	22.62	
		For Elevated Installation >10' To 15' Above Floor, Add	7.54	
		For Elevated Installation >15' To 20' Above Floor, Add	15.08	
		For Elevated Installation >20' To 25' Above Floor, Add	18.85	
		For Elevated Installation >25' To 30' Above Floor, Add	26.39	
		For Elevated Installation >30' To 35' Above Floor, Add	30.16	
		For Elevated Installation >35' To 40' Above Floor, Add	37.70	
		For Elevated Installation >40' Above Floor, Add	41.46	
26 05 33 13-0556	EA	2" Rigid Galvanized Steel (RGS) Compression Coupling.....	163.50	43.98
		For Work In Restricted Working Space, Add	26.39	
		For Elevated Installation >10' To 15' Above Floor, Add	8.80	
		For Elevated Installation >15' To 20' Above Floor, Add	17.59	
		For Elevated Installation >20' To 25' Above Floor, Add	21.99	
		For Elevated Installation >25' To 30' Above Floor, Add	30.79	
		For Elevated Installation >30' To 35' Above Floor, Add	35.18	
		For Elevated Installation >35' To 40' Above Floor, Add	43.98	
		For Elevated Installation >40' Above Floor, Add	48.38	
26 05 33 13-0557	EA	2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	259.63	50.26
		For Work In Restricted Working Space, Add	30.16	
		For Elevated Installation >10' To 15' Above Floor, Add	10.05	
		For Elevated Installation >15' To 20' Above Floor, Add	20.10	
		For Elevated Installation >20' To 25' Above Floor, Add	25.13	
		For Elevated Installation >25' To 30' Above Floor, Add	35.18	
		For Elevated Installation >30' To 35' Above Floor, Add	40.21	
		For Elevated Installation >35' To 40' Above Floor, Add	50.26	
		For Elevated Installation >40' Above Floor, Add	55.29	
26 05 33 13-0558	EA	3" Rigid Galvanized Steel (RGS) Compression Coupling.....	297.50	43.35
		For Work In Restricted Working Space, Add	26.01	
		For Elevated Installation >10' To 15' Above Floor, Add	8.67	
		For Elevated Installation >15' To 20' Above Floor, Add	17.34	
		For Elevated Installation >20' To 25' Above Floor, Add	21.68	
		For Elevated Installation >25' To 30' Above Floor, Add	30.35	
		For Elevated Installation >30' To 35' Above Floor, Add	34.68	
		For Elevated Installation >35' To 40' Above Floor, Add	43.35	
		For Elevated Installation >40' Above Floor, Add	47.69	
26 05 33 13-0559	EA	3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	409.44	65.97
		For Work In Restricted Working Space, Add	39.58	
		For Elevated Installation >10' To 15' Above Floor, Add	13.19	
		For Elevated Installation >15' To 20' Above Floor, Add	26.39	
		For Elevated Installation >20' To 25' Above Floor, Add	32.99	
		For Elevated Installation >25' To 30' Above Floor, Add	46.18	
		For Elevated Installation >30' To 35' Above Floor, Add	52.78	
		For Elevated Installation >35' To 40' Above Floor, Add	65.97	
		For Elevated Installation >40' Above Floor, Add	72.57	
26 05 33 13-0560	EA	4" Rigid Galvanized Steel (RGS) Compression Coupling.....	505.87	75.39
		For Work In Restricted Working Space, Add	45.24	
		For Elevated Installation >10' To 15' Above Floor, Add	15.08	
		For Elevated Installation >15' To 20' Above Floor, Add	30.16	
		For Elevated Installation >20' To 25' Above Floor, Add	37.70	
		For Elevated Installation >25' To 30' Above Floor, Add	52.78	
		For Elevated Installation >30' To 35' Above Floor, Add	60.32	
		For Elevated Installation >35' To 40' Above Floor, Add	75.40	
		For Elevated Installation >40' Above Floor, Add	82.93	
26 05 33 13-0561		Zinc Plated Steel Snap-in Knock Out Seal (26 05 33 13-0060)		
26 05 33 13-0562	EA	1/2" Zinc Plated Steel Snap-in Knock Out Seal.....	6.57	3.14
		For Work In Restricted Working Space, Add	1.88	
		For Elevated Installation >10' To 15' Above Floor, Add	0.63	
		For Elevated Installation >15' To 20' Above Floor, Add	1.26	
		For Elevated Installation >20' To 25' Above Floor, Add	1.57	
		For Elevated Installation >25' To 30' Above Floor, Add	2.20	
		For Elevated Installation >30' To 35' Above Floor, Add	2.51	
		For Elevated Installation >35' To 40' Above Floor, Add	3.14	
		For Elevated Installation >40' Above Floor, Add	3.45	
26 05 33 13-0563	EA	3/4" Zinc Plated Steel Snap-in Knock Out Seal.....	7.92	3.77
		For Work In Restricted Working Space, Add	2.26	
		For Elevated Installation >10' To 15' Above Floor, Add	0.75	
		For Elevated Installation >15' To 20' Above Floor, Add	1.51	
		For Elevated Installation >20' To 25' Above Floor, Add	1.89	
		For Elevated Installation >25' To 30' Above Floor, Add	2.64	
		For Elevated Installation >30' To 35' Above Floor, Add	3.02	
		For Elevated Installation >35' To 40' Above Floor, Add	3.77	
		For Elevated Installation >40' Above Floor, Add	4.15	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 13-0564	EA	1" Zinc Plated Steel Snap-in Knock Out Seal	9.40		4.40
		For Work In Restricted Working Space, Add	2.64		
		For Elevated Installation >10' To 15' Above Floor, Add	0.88		
		For Elevated Installation >15' To 20' Above Floor, Add	1.76		
		For Elevated Installation >20' To 25' Above Floor, Add	2.20		
		For Elevated Installation >25' To 30' Above Floor, Add	3.08		
		For Elevated Installation >30' To 35' Above Floor, Add	3.52		
		For Elevated Installation >35' To 40' Above Floor, Add	4.40		
		For Elevated Installation >40' Above Floor, Add	4.84		
26 05 33 13-0565	EA	1-1/4" Zinc Plated Steel Snap-in Knock Out Seal	12.10		5.65
		For Work In Restricted Working Space, Add	3.39		
		For Elevated Installation >10' To 15' Above Floor, Add	1.13		
		For Elevated Installation >15' To 20' Above Floor, Add	2.26		
		For Elevated Installation >20' To 25' Above Floor, Add	2.83		
		For Elevated Installation >25' To 30' Above Floor, Add	3.96		
		For Elevated Installation >30' To 35' Above Floor, Add	4.52		
		For Elevated Installation >35' To 40' Above Floor, Add	5.66		
		For Elevated Installation >40' Above Floor, Add	6.22		
26 05 33 13-0566	EA	1-1/2" Zinc Plated Steel Snap-in Knock Out Seal	13.67		6.28
		For Work In Restricted Working Space, Add	3.77		
		For Elevated Installation >10' To 15' Above Floor, Add	1.26		
		For Elevated Installation >15' To 20' Above Floor, Add	2.51		
		For Elevated Installation >20' To 25' Above Floor, Add	3.14		
		For Elevated Installation >25' To 30' Above Floor, Add	4.40		
		For Elevated Installation >30' To 35' Above Floor, Add	5.03		
		For Elevated Installation >35' To 40' Above Floor, Add	6.29		
		For Elevated Installation >40' Above Floor, Add	6.91		
26 05 33 13-0567	EA	2" Zinc Plated Steel Snap-in Knock Out Seal	16.61		7.54
		For Work In Restricted Working Space, Add	4.52		
		For Elevated Installation >10' To 15' Above Floor, Add	1.51		
		For Elevated Installation >15' To 20' Above Floor, Add	3.01		
		For Elevated Installation >20' To 25' Above Floor, Add	3.77		
		For Elevated Installation >25' To 30' Above Floor, Add	5.27		
		For Elevated Installation >30' To 35' Above Floor, Add	6.03		
		For Elevated Installation >35' To 40' Above Floor, Add	7.54		
		For Elevated Installation >40' Above Floor, Add	8.29		
26 05 33 13-0568 Zinc Plated Steel 3-Piece Knock Out Seal (26 05 33 13-0560)					
26 05 33 13-0569	EA	1/2" Zinc Plated Steel 3-Piece Knock Out Seal	8.01		3.14
		For Work In Restricted Working Space, Add	1.88		
		For Elevated Installation >10' To 15' Above Floor, Add	0.63		
		For Elevated Installation >15' To 20' Above Floor, Add	1.26		
		For Elevated Installation >20' To 25' Above Floor, Add	1.57		
		For Elevated Installation >25' To 30' Above Floor, Add	2.20		
		For Elevated Installation >30' To 35' Above Floor, Add	2.51		
		For Elevated Installation >35' To 40' Above Floor, Add	3.14		
		For Elevated Installation >40' Above Floor, Add	3.45		
26 05 33 13-0570	EA	3/4" Zinc Plated Steel 3-Piece Knock Out Seal	9.55		3.77
		For Work In Restricted Working Space, Add	2.26		
		For Elevated Installation >10' To 15' Above Floor, Add	0.75		
		For Elevated Installation >15' To 20' Above Floor, Add	1.51		
		For Elevated Installation >20' To 25' Above Floor, Add	1.89		
		For Elevated Installation >25' To 30' Above Floor, Add	2.64		
		For Elevated Installation >30' To 35' Above Floor, Add	3.02		
		For Elevated Installation >35' To 40' Above Floor, Add	3.77		
		For Elevated Installation >40' Above Floor, Add	4.15		
26 05 33 13-0571	EA	1" Zinc Plated Steel 3-Piece Knock Out Seal	11.58		4.40
		For Work In Restricted Working Space, Add	2.64		
		For Elevated Installation >10' To 15' Above Floor, Add	0.88		
		For Elevated Installation >15' To 20' Above Floor, Add	1.76		
		For Elevated Installation >20' To 25' Above Floor, Add	2.20		
		For Elevated Installation >25' To 30' Above Floor, Add	3.08		
		For Elevated Installation >30' To 35' Above Floor, Add	3.52		
		For Elevated Installation >35' To 40' Above Floor, Add	4.40		
		For Elevated Installation >40' Above Floor, Add	4.84		
26 05 33 13-0572	EA	1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal	14.88		5.65
		For Work In Restricted Working Space, Add	3.39		
		For Elevated Installation >10' To 15' Above Floor, Add	1.13		
		For Elevated Installation >15' To 20' Above Floor, Add	2.26		
		For Elevated Installation >20' To 25' Above Floor, Add	2.83		
		For Elevated Installation >25' To 30' Above Floor, Add	3.96		
		For Elevated Installation >30' To 35' Above Floor, Add	4.52		
		For Elevated Installation >35' To 40' Above Floor, Add	5.66		
		For Elevated Installation >40' Above Floor, Add	6.22		
26 05 33 13-0573	EA	1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	18.27		6.28
		For Work In Restricted Working Space, Add	3.77		
		For Elevated Installation >10' To 15' Above Floor, Add	1.26		
		For Elevated Installation >15' To 20' Above Floor, Add	2.51		
		For Elevated Installation >20' To 25' Above Floor, Add	3.14		
		For Elevated Installation >25' To 30' Above Floor, Add	4.40		
		For Elevated Installation >30' To 35' Above Floor, Add	5.03		
		For Elevated Installation >35' To 40' Above Floor, Add	6.29		
		For Elevated Installation >40' Above Floor, Add	6.91		



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0574	EA	2" Zinc Plated Steel 3-Piece Knock Out Seal	22.08	7.54
		For Work In Restricted Working Space, Add	4.52	
		For Elevated Installation >10' To 15' Above Floor, Add	1.51	
		For Elevated Installation >15' To 20' Above Floor, Add	3.01	
		For Elevated Installation >20' To 25' Above Floor, Add	3.77	
		For Elevated Installation >25' To 30' Above Floor, Add	5.27	
		For Elevated Installation >30' To 35' Above Floor, Add	6.03	
		For Elevated Installation >35' To 40' Above Floor, Add	7.54	
		For Elevated Installation >40' Above Floor, Add	8.29	
26 05 33 13-0575	EA	2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	27.11	9.42
		For Work In Restricted Working Space, Add	5.66	
		For Elevated Installation >10' To 15' Above Floor, Add	1.89	
		For Elevated Installation >15' To 20' Above Floor, Add	3.77	
		For Elevated Installation >20' To 25' Above Floor, Add	4.71	
		For Elevated Installation >25' To 30' Above Floor, Add	6.60	
		For Elevated Installation >30' To 35' Above Floor, Add	7.54	
		For Elevated Installation >35' To 40' Above Floor, Add	9.43	
		For Elevated Installation >40' Above Floor, Add	10.37	
26 05 33 13-0576	EA	3" Zinc Plated Steel 3-Piece Knock Out Seal	31.67	10.68
		For Work In Restricted Working Space, Add	6.41	
		For Elevated Installation >10' To 15' Above Floor, Add	2.14	
		For Elevated Installation >15' To 20' Above Floor, Add	4.27	
		For Elevated Installation >20' To 25' Above Floor, Add	5.34	
		For Elevated Installation >25' To 30' Above Floor, Add	7.48	
		For Elevated Installation >30' To 35' Above Floor, Add	8.54	
		For Elevated Installation >35' To 40' Above Floor, Add	10.68	
		For Elevated Installation >40' Above Floor, Add	11.75	
26 05 33 13-0577	EA	3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	38.39	11.94
		For Work In Restricted Working Space, Add	7.16	
		For Elevated Installation >10' To 15' Above Floor, Add	2.39	
		For Elevated Installation >15' To 20' Above Floor, Add	4.77	
		For Elevated Installation >20' To 25' Above Floor, Add	5.97	
		For Elevated Installation >25' To 30' Above Floor, Add	8.35	
		For Elevated Installation >30' To 35' Above Floor, Add	9.55	
		For Elevated Installation >35' To 40' Above Floor, Add	11.94	
		For Elevated Installation >40' Above Floor, Add	13.13	
26 05 33 13-0578	EA	4" Zinc Plated Steel 3-Piece Knock Out Seal	45.02	13.19
		For Work In Restricted Working Space, Add	7.92	
		For Elevated Installation >10' To 15' Above Floor, Add	2.64	
		For Elevated Installation >15' To 20' Above Floor, Add	5.28	
		For Elevated Installation >20' To 25' Above Floor, Add	6.60	
		For Elevated Installation >25' To 30' Above Floor, Add	9.24	
		For Elevated Installation >30' To 35' Above Floor, Add	10.56	
		For Elevated Installation >35' To 40' Above Floor, Add	13.20	
		For Elevated Installation >40' Above Floor, Add	14.51	
26 05 33 13-0579		Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0060)		
26 05 33 13-0580	EA	1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	15.51	7.54
		For Work In Restricted Working Space, Add	4.52	
		For Elevated Installation >10' To 15' Above Floor, Add	1.51	
		For Elevated Installation >15' To 20' Above Floor, Add	3.01	
		For Elevated Installation >20' To 25' Above Floor, Add	3.77	
		For Elevated Installation >25' To 30' Above Floor, Add	5.27	
		For Elevated Installation >30' To 35' Above Floor, Add	6.03	
		For Elevated Installation >35' To 40' Above Floor, Add	7.54	
		For Elevated Installation >40' Above Floor, Add	8.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-0581	EA	3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	18.33	8.80
		For Work In Restricted Working Space, Add	5.28	
		For Elevated Installation >10' To 15' Above Floor, Add	1.76	
		For Elevated Installation >15' To 20' Above Floor, Add	3.52	
		For Elevated Installation >20' To 25' Above Floor, Add	4.40	
		For Elevated Installation >25' To 30' Above Floor, Add	6.16	
		For Elevated Installation >30' To 35' Above Floor, Add	7.04	
		For Elevated Installation >35' To 40' Above Floor, Add	8.80	
		For Elevated Installation >40' Above Floor, Add	9.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-0582	EA	1" Rigid Galvanized Steel (RGS) Chase Nipple.....	22.97	10.68
		For Work In Restricted Working Space, Add	6.41	
		For Elevated Installation >10' To 15' Above Floor, Add	2.14	
		For Elevated Installation >15' To 20' Above Floor, Add	4.27	
		For Elevated Installation >20' To 25' Above Floor, Add	5.34	
		For Elevated Installation >25' To 30' Above Floor, Add	7.48	
		For Elevated Installation >30' To 35' Above Floor, Add	8.54	
		For Elevated Installation >35' To 40' Above Floor, Add	10.68	
		For Elevated Installation >40' Above Floor, Add	11.75	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0583	EA	1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	27.93	12.57	
		For Work In Restricted Working Space, Add	7.54		
		For Elevated Installation >10' To 15' Above Floor, Add	2.51		
		For Elevated Installation >15' To 20' Above Floor, Add	5.03		
		For Elevated Installation >20' To 25' Above Floor, Add	6.28		
		For Elevated Installation >25' To 30' Above Floor, Add	8.80		
		For Elevated Installation >30' To 35' Above Floor, Add	10.05		
		For Elevated Installation >35' To 40' Above Floor, Add	12.57		
		For Elevated Installation >40' Above Floor, Add	13.82		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.54		
26 05 33 13-0584	EA	1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	35.01	15.71	
		For Work In Restricted Working Space, Add	9.42		
		For Elevated Installation >10' To 15' Above Floor, Add	3.14		
		For Elevated Installation >15' To 20' Above Floor, Add	6.28		
		For Elevated Installation >20' To 25' Above Floor, Add	7.85		
		For Elevated Installation >25' To 30' Above Floor, Add	10.99		
		For Elevated Installation >30' To 35' Above Floor, Add	12.56		
		For Elevated Installation >35' To 40' Above Floor, Add	15.71		
		For Elevated Installation >40' Above Floor, Add	17.28		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42		
26 05 33 13-0585	EA	2" Rigid Galvanized Steel (RGS) Chase Nipple.....	43.54	18.85	
		For Work In Restricted Working Space, Add	11.31		
		For Elevated Installation >10' To 15' Above Floor, Add	3.77		
		For Elevated Installation >15' To 20' Above Floor, Add	7.54		
		For Elevated Installation >20' To 25' Above Floor, Add	9.42		
		For Elevated Installation >25' To 30' Above Floor, Add	13.19		
		For Elevated Installation >30' To 35' Above Floor, Add	15.08		
		For Elevated Installation >35' To 40' Above Floor, Add	18.85		
		For Elevated Installation >40' Above Floor, Add	20.73		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31		
26 05 33 13-0586	EA	2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	55.10	21.99	
		For Work In Restricted Working Space, Add	13.19		
		For Elevated Installation >10' To 15' Above Floor, Add	4.40		
		For Elevated Installation >15' To 20' Above Floor, Add	8.80		
		For Elevated Installation >20' To 25' Above Floor, Add	11.00		
		For Elevated Installation >25' To 30' Above Floor, Add	15.39		
		For Elevated Installation >30' To 35' Above Floor, Add	17.59		
		For Elevated Installation >35' To 40' Above Floor, Add	21.99		
		For Elevated Installation >40' Above Floor, Add	24.19		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.19		
26 05 33 13-0587	EA	3" Rigid Galvanized Steel (RGS) Chase Nipple.....	61.67	25.13	
		For Work In Restricted Working Space, Add	15.08		
		For Elevated Installation >10' To 15' Above Floor, Add	5.03		
		For Elevated Installation >15' To 20' Above Floor, Add	10.05		
		For Elevated Installation >20' To 25' Above Floor, Add	12.57		
		For Elevated Installation >25' To 30' Above Floor, Add	17.59		
		For Elevated Installation >30' To 35' Above Floor, Add	20.10		
		For Elevated Installation >35' To 40' Above Floor, Add	25.13		
		For Elevated Installation >40' Above Floor, Add	27.64		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08		
26 05 33 13-0588	EA	3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	76.72	28.27	
		For Work In Restricted Working Space, Add	16.97		
		For Elevated Installation >10' To 15' Above Floor, Add	5.66		
		For Elevated Installation >15' To 20' Above Floor, Add	11.31		
		For Elevated Installation >20' To 25' Above Floor, Add	14.14		
		For Elevated Installation >25' To 30' Above Floor, Add	19.79		
		For Elevated Installation >30' To 35' Above Floor, Add	22.62		
		For Elevated Installation >35' To 40' Above Floor, Add	28.28		
		For Elevated Installation >40' Above Floor, Add	31.10		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.97		
26 05 33 13-0589	EA	4" Rigid Galvanized Steel (RGS) Chase Nipple.....	105.09	31.41	
		For Work In Restricted Working Space, Add	18.85		
		For Elevated Installation >10' To 15' Above Floor, Add	6.28		
		For Elevated Installation >15' To 20' Above Floor, Add	12.57		
		For Elevated Installation >20' To 25' Above Floor, Add	15.71		
		For Elevated Installation >25' To 30' Above Floor, Add	21.99		
		For Elevated Installation >30' To 35' Above Floor, Add	25.13		
		For Elevated Installation >35' To 40' Above Floor, Add	31.42		
		For Elevated Installation >40' Above Floor, Add	34.56		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85		
26 05 33 13-0590		Rigid Galvanized Steel (RGS) Pulling Elbow (26 05 33 13-0060)			
26 05 33 13-0591	EA	1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	30.29	11.31	
		For Work In Restricted Working Space, Add	6.79		
		For Elevated Installation >10' To 15' Above Floor, Add	2.26		
		For Elevated Installation >15' To 20' Above Floor, Add	4.52		
		For Elevated Installation >20' To 25' Above Floor, Add	5.66		
		For Elevated Installation >25' To 30' Above Floor, Add	7.92		
		For Elevated Installation >30' To 35' Above Floor, Add	9.05		
		For Elevated Installation >35' To 40' Above Floor, Add	11.31		
		For Elevated Installation >40' Above Floor, Add	12.44		



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Raceway and Boxes for Electrical Systems		26 05 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0592	EA	3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	35.19	13.19
		For Work In Restricted Working Space, Add	7.92	
		For Elevated Installation >10' To 15' Above Floor, Add	2.64	
		For Elevated Installation >15' To 20' Above Floor, Add	5.28	
		For Elevated Installation >20' To 25' Above Floor, Add	6.60	
		For Elevated Installation >25' To 30' Above Floor, Add	9.24	
		For Elevated Installation >30' To 35' Above Floor, Add	10.56	
		For Elevated Installation >35' To 40' Above Floor, Add	13.20	
		For Elevated Installation >40' Above Floor, Add	14.51	
26 05 33 13-0593	EA	1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	44.77	15.07
		For Work In Restricted Working Space, Add	9.05	
		For Elevated Installation >10' To 15' Above Floor, Add	3.02	
		For Elevated Installation >15' To 20' Above Floor, Add	6.03	
		For Elevated Installation >20' To 25' Above Floor, Add	7.54	
		For Elevated Installation >25' To 30' Above Floor, Add	10.56	
		For Elevated Installation >30' To 35' Above Floor, Add	12.06	
		For Elevated Installation >35' To 40' Above Floor, Add	15.08	
		For Elevated Installation >40' Above Floor, Add	16.59	
26 05 33 13-0594	EA	1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow	57.36	18.85
		For Work In Restricted Working Space, Add	11.31	
		For Elevated Installation >10' To 15' Above Floor, Add	3.77	
		For Elevated Installation >15' To 20' Above Floor, Add	7.54	
		For Elevated Installation >20' To 25' Above Floor, Add	9.42	
		For Elevated Installation >25' To 30' Above Floor, Add	13.19	
		For Elevated Installation >30' To 35' Above Floor, Add	15.08	
		For Elevated Installation >35' To 40' Above Floor, Add	18.85	
		For Elevated Installation >40' Above Floor, Add	20.73	
26 05 33 13-0595	EA	1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow	76.46	22.62
		For Work In Restricted Working Space, Add	13.57	
		For Elevated Installation >10' To 15' Above Floor, Add	4.52	
		For Elevated Installation >15' To 20' Above Floor, Add	9.05	
		For Elevated Installation >20' To 25' Above Floor, Add	11.31	
		For Elevated Installation >25' To 30' Above Floor, Add	15.83	
		For Elevated Installation >30' To 35' Above Floor, Add	18.09	
		For Elevated Installation >35' To 40' Above Floor, Add	22.62	
		For Elevated Installation >40' Above Floor, Add	24.88	
26 05 33 13-0596	EA	2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	102.21	26.39
		For Work In Restricted Working Space, Add	15.83	
		For Elevated Installation >10' To 15' Above Floor, Add	5.28	
		For Elevated Installation >15' To 20' Above Floor, Add	10.56	
		For Elevated Installation >20' To 25' Above Floor, Add	13.20	
		For Elevated Installation >25' To 30' Above Floor, Add	18.47	
		For Elevated Installation >30' To 35' Above Floor, Add	21.11	
		For Elevated Installation >35' To 40' Above Floor, Add	26.39	
		For Elevated Installation >40' Above Floor, Add	29.03	
26 05 33 13-0597	EA	2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow	141.92	30.16
		For Work In Restricted Working Space, Add	18.10	
		For Elevated Installation >10' To 15' Above Floor, Add	6.03	
		For Elevated Installation >15' To 20' Above Floor, Add	12.06	
		For Elevated Installation >20' To 25' Above Floor, Add	15.08	
		For Elevated Installation >25' To 30' Above Floor, Add	21.11	
		For Elevated Installation >30' To 35' Above Floor, Add	24.13	
		For Elevated Installation >35' To 40' Above Floor, Add	30.16	
		For Elevated Installation >40' Above Floor, Add	33.18	
26 05 33 13-0598	EA	3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	248.25	37.69
		For Work In Restricted Working Space, Add	22.62	
		For Elevated Installation >10' To 15' Above Floor, Add	7.54	
		For Elevated Installation >15' To 20' Above Floor, Add	15.08	
		For Elevated Installation >20' To 25' Above Floor, Add	18.85	
		For Elevated Installation >25' To 30' Above Floor, Add	26.39	
		For Elevated Installation >30' To 35' Above Floor, Add	30.16	
		For Elevated Installation >35' To 40' Above Floor, Add	37.70	
		For Elevated Installation >40' Above Floor, Add	41.46	
26 05 33 13-0599		Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0059)		
		Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0600		Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0599)		
		Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2319 for field bending >1".		
26 05 33 13-0601	LF	1/2" Electrical Metallic Tubing (EMT) Conduit.....	6.43	2.27
		For >250 To 500, Deduct	-0.04	
		For >500 To 1,000, Deduct	-0.34	
		For >1,000, Deduct	-0.50	
		For Installation In Metal Stud Wall, Add	0.57	
		For Installation In Wood Stud Wall (Includes Drilling), Add	1.41	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.85	
		For Work In Restricted Working Space, Add	1.70	
		For Elevated Installation >10' To 15' Above Floor, Add	0.57	
		For Elevated Installation >15' To 20' Above Floor, Add	1.13	
		For Elevated Installation >20' To 25' Above Floor, Add	1.41	
		For Elevated Installation >25' To 30' Above Floor, Add	1.98	
		For Elevated Installation >30' To 35' Above Floor, Add	2.26	
		For Elevated Installation >35' To 40' Above Floor, Add	2.83	
		For Elevated Installation >40' Above Floor, Add	3.11	
		For Factory Applied Color Coating, Add	0.23	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0602	LF		3/4" Electrical Metallic Tubing (EMT) Conduit.....	7.50	2.52
			For >250 To 500, Deduct	-0.06	
			For >500 To 1,000, Deduct	-0.41	
			For >1,000, Deduct	-0.59	
			For Installation In Metal Stud Wall, Add	0.63	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.57	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.94	
			For Work In Restricted Working Space, Add	1.88	
			For Elevated Installation >10' To 15' Above Floor, Add	0.63	
			For Elevated Installation >15' To 20' Above Floor, Add	1.26	
			For Elevated Installation >20' To 25' Above Floor, Add	1.57	
			For Elevated Installation >25' To 30' Above Floor, Add	2.20	
			For Elevated Installation >30' To 35' Above Floor, Add	2.51	
			For Elevated Installation >35' To 40' Above Floor, Add	3.14	
			For Elevated Installation >40' Above Floor, Add	3.45	
			For Factory Applied Color Coating, Add	0.37	
26 05 33 13-0603	LF		1" Electrical Metallic Tubing (EMT) Conduit.....	8.95	2.77
			For >250 To 500, Deduct	-0.10	
			For >500 To 1,000, Deduct	-0.50	
			For >1,000, Deduct	-0.72	
			For Installation In Metal Stud Wall, Add	0.69	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.73	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.04	
			For Work In Restricted Working Space, Add	2.08	
			For Elevated Installation >10' To 15' Above Floor, Add	0.69	
			For Elevated Installation >15' To 20' Above Floor, Add	1.38	
			For Elevated Installation >20' To 25' Above Floor, Add	1.73	
			For Elevated Installation >25' To 30' Above Floor, Add	2.42	
			For Elevated Installation >30' To 35' Above Floor, Add	2.77	
			For Elevated Installation >35' To 40' Above Floor, Add	3.46	
			For Elevated Installation >40' Above Floor, Add	3.81	
			For Factory Applied Color Coating, Add	0.61	
26 05 33 13-0604	LF		1-1/4" Electrical Metallic Tubing (EMT) Conduit.....	11.00	3.12
			For >250 To 500, Deduct	-0.16	
			For >500 To 1,000, Deduct	-0.63	
			For >1,000, Deduct	-0.91	
			For Installation In Metal Stud Wall, Add	0.78	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.95	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.17	
			For Work In Restricted Working Space, Add	2.34	
			For Elevated Installation >10' To 15' Above Floor, Add	0.78	
			For Elevated Installation >15' To 20' Above Floor, Add	1.56	
			For Elevated Installation >20' To 25' Above Floor, Add	1.95	
			For Elevated Installation >25' To 30' Above Floor, Add	2.73	
			For Elevated Installation >30' To 35' Above Floor, Add	3.12	
			For Elevated Installation >35' To 40' Above Floor, Add	3.90	
			For Elevated Installation >40' Above Floor, Add	4.28	
			For Factory Applied Color Coating, Add	0.96	
26 05 33 13-0605	LF		1-1/2" Electrical Metallic Tubing (EMT) Conduit.....	12.79	3.52
			For >250 To 500, Deduct	-0.20	
			For >500 To 1,000, Deduct	-0.74	
			For >1,000, Deduct	-1.06	
			For Installation In Metal Stud Wall, Add	0.88	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.20	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.32	
			For Work In Restricted Working Space, Add	2.64	
			For Elevated Installation >10' To 15' Above Floor, Add	0.88	
			For Elevated Installation >15' To 20' Above Floor, Add	1.76	
			For Elevated Installation >20' To 25' Above Floor, Add	2.20	
			For Elevated Installation >25' To 30' Above Floor, Add	3.08	
			For Elevated Installation >30' To 35' Above Floor, Add	3.52	
			For Elevated Installation >35' To 40' Above Floor, Add	4.40	
			For Elevated Installation >40' Above Floor, Add	4.84	
			For Factory Applied Color Coating, Add	1.20	
26 05 33 13-0606	LF		2" Electrical Metallic Tubing (EMT) Conduit.....	14.79	4.02
			For >250 To 500, Deduct	-0.24	
			For >500 To 1,000, Deduct	-0.86	
			For >1,000, Deduct	-1.23	
			For Installation In Metal Stud Wall, Add	1.01	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.51	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.51	
			For Work In Restricted Working Space, Add	3.02	
			For Elevated Installation >10' To 15' Above Floor, Add	1.01	
			For Elevated Installation >15' To 20' Above Floor, Add	2.01	
			For Elevated Installation >20' To 25' Above Floor, Add	2.51	
			For Elevated Installation >25' To 30' Above Floor, Add	3.52	
			For Elevated Installation >30' To 35' Above Floor, Add	4.02	
			For Elevated Installation >35' To 40' Above Floor, Add	5.03	
			For Elevated Installation >40' Above Floor, Add	5.53	
			For Factory Applied Color Coating, Add	1.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0607	LF	2-1/2"	Electrical Metallic Tubing (EMT) Conduit For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Factory Applied Color Coating, Add	18.96 -0.35 -1.12 -1.60 1.19 2.99 1.79 3.58 1.19 2.39 2.99 4.18 4.78 5.97 6.57 2.11	4.77
26 05 33 13-0608	LF	3"	Electrical Metallic Tubing (EMT) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Factory Applied Color Coating, Add	22.61 -0.44 -1.35 -1.92 1.38 3.46 2.07 4.15 1.38 2.76 3.46 4.84 5.53 6.91 7.60 2.64	5.53
26 05 33 13-0609	LF	3-1/2"	Electrical Metallic Tubing (EMT) Conduit For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Factory Applied Color Coating, Add	28.08 -0.59 -1.70 -2.40 1.63 4.09 2.45 4.90 1.63 3.27 4.09 5.72 6.54 8.17 8.99 3.52	6.53
26 05 33 13-0610	LF	4"	Electrical Metallic Tubing (EMT) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Factory Applied Color Coating, Add	37.12 -0.66 -2.19 -3.11 2.39 5.97 3.58 7.17 2.39 4.78 5.97 8.36 9.56 11.95 13.14 3.97	9.55
26 05 33 13-0611			Electrical Metallic Tubing (EMT) 90 Degree Elbows (26 05 33 13-0599) See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0612	EA	1/2"	Electrical Metallic Tubing (EMT) 90 Degree Elbow..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	16.07 4.15 1.38 2.76 3.46 4.84 5.53 6.91 7.60	5.53
26 05 33 13-0613	EA	3/4"	Electrical Metallic Tubing (EMT) 90 Degree Elbow..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	17.07 4.52 1.51 3.02 3.77 5.28 6.03 7.54 8.29	6.03

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0614 EA 1" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	20.72	7.04
For Work In Restricted Working Space, Add	5.28	
For Elevated Installation >10' To 15' Above Floor, Add	1.76	
For Elevated Installation >15' To 20' Above Floor, Add	3.52	
For Elevated Installation >20' To 25' Above Floor, Add	4.40	
For Elevated Installation >25' To 30' Above Floor, Add	6.16	
For Elevated Installation >30' To 35' Above Floor, Add	7.04	
For Elevated Installation >35' To 40' Above Floor, Add	8.80	
For Elevated Installation >40' Above Floor, Add	9.67	
26 05 33 13-0615 EA 1-1/4" Electrical Metallic Tubing (EMT) 90 Degree Elbow	22.75	7.54
For Work In Restricted Working Space, Add	5.66	
For Elevated Installation >10' To 15' Above Floor, Add	1.89	
For Elevated Installation >15' To 20' Above Floor, Add	3.77	
For Elevated Installation >20' To 25' Above Floor, Add	4.71	
For Elevated Installation >25' To 30' Above Floor, Add	6.60	
For Elevated Installation >30' To 35' Above Floor, Add	7.54	
For Elevated Installation >35' To 40' Above Floor, Add	9.43	
For Elevated Installation >40' Above Floor, Add	10.37	
26 05 33 13-0616 EA 1-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow	27.00	9.05
For Work In Restricted Working Space, Add	6.79	
For Elevated Installation >10' To 15' Above Floor, Add	2.26	
For Elevated Installation >15' To 20' Above Floor, Add	4.52	
For Elevated Installation >20' To 25' Above Floor, Add	5.66	
For Elevated Installation >25' To 30' Above Floor, Add	7.92	
For Elevated Installation >30' To 35' Above Floor, Add	9.05	
For Elevated Installation >35' To 40' Above Floor, Add	11.31	
For Elevated Installation >40' Above Floor, Add	12.44	
26 05 33 13-0617 EA 2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	35.37	11.56
For Work In Restricted Working Space, Add	8.67	
For Elevated Installation >10' To 15' Above Floor, Add	2.89	
For Elevated Installation >15' To 20' Above Floor, Add	5.78	
For Elevated Installation >20' To 25' Above Floor, Add	7.23	
For Elevated Installation >25' To 30' Above Floor, Add	10.12	
For Elevated Installation >30' To 35' Above Floor, Add	11.56	
For Elevated Installation >35' To 40' Above Floor, Add	14.45	
For Elevated Installation >40' Above Floor, Add	15.90	
26 05 33 13-0618 EA 2-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow	46.97	13.07
For Work In Restricted Working Space, Add	9.80	
For Elevated Installation >10' To 15' Above Floor, Add	3.27	
For Elevated Installation >15' To 20' Above Floor, Add	6.53	
For Elevated Installation >20' To 25' Above Floor, Add	8.17	
For Elevated Installation >25' To 30' Above Floor, Add	11.43	
For Elevated Installation >30' To 35' Above Floor, Add	13.06	
For Elevated Installation >35' To 40' Above Floor, Add	16.33	
For Elevated Installation >40' Above Floor, Add	17.96	
26 05 33 13-0619 EA 3" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	59.54	14.57
For Work In Restricted Working Space, Add	10.93	
For Elevated Installation >10' To 15' Above Floor, Add	3.64	
For Elevated Installation >15' To 20' Above Floor, Add	7.29	
For Elevated Installation >20' To 25' Above Floor, Add	9.11	
For Elevated Installation >25' To 30' Above Floor, Add	12.75	
For Elevated Installation >30' To 35' Above Floor, Add	14.58	
For Elevated Installation >35' To 40' Above Floor, Add	18.22	
For Elevated Installation >40' Above Floor, Add	20.04	
26 05 33 13-0620 EA 3-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow	67.54	16.09
For Work In Restricted Working Space, Add	12.06	
For Elevated Installation >10' To 15' Above Floor, Add	4.02	
For Elevated Installation >15' To 20' Above Floor, Add	8.04	
For Elevated Installation >20' To 25' Above Floor, Add	10.05	
For Elevated Installation >25' To 30' Above Floor, Add	14.07	
For Elevated Installation >30' To 35' Above Floor, Add	16.08	
For Elevated Installation >35' To 40' Above Floor, Add	20.11	
For Elevated Installation >40' Above Floor, Add	22.12	
26 05 33 13-0621 EA 4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	141.67	41.81
For Work In Restricted Working Space, Add	31.36	
For Elevated Installation >10' To 15' Above Floor, Add	10.45	
For Elevated Installation >15' To 20' Above Floor, Add	20.90	
For Elevated Installation >20' To 25' Above Floor, Add	26.13	
For Elevated Installation >25' To 30' Above Floor, Add	36.58	
For Elevated Installation >30' To 35' Above Floor, Add	41.81	
For Elevated Installation >35' To 40' Above Floor, Add	52.26	
For Elevated Installation >40' Above Floor, Add	57.49	
26 05 33 13-0622 Electrical Metallic Tubing (EMT) 45 Degree Elbows (26 05 33 13-0599)		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0623 EA 1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	15.82	5.53
For Work In Restricted Working Space, Add	4.15	
For Elevated Installation >10' To 15' Above Floor, Add	1.38	
For Elevated Installation >15' To 20' Above Floor, Add	2.76	
For Elevated Installation >20' To 25' Above Floor, Add	3.46	
For Elevated Installation >25' To 30' Above Floor, Add	4.84	
For Elevated Installation >30' To 35' Above Floor, Add	5.53	
For Elevated Installation >35' To 40' Above Floor, Add	6.91	
For Elevated Installation >40' Above Floor, Add	7.60	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0624	EA		3/4" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	17.22	6.03
			For Work In Restricted Working Space, Add	4.52	
			For Elevated Installation >10' To 15' Above Floor, Add	1.51	
			For Elevated Installation >15' To 20' Above Floor, Add	3.02	
			For Elevated Installation >20' To 25' Above Floor, Add	3.77	
			For Elevated Installation >25' To 30' Above Floor, Add	5.28	
			For Elevated Installation >30' To 35' Above Floor, Add	6.03	
			For Elevated Installation >35' To 40' Above Floor, Add	7.54	
			For Elevated Installation >40' Above Floor, Add	8.29	
26 05 33 13-0625	EA		1" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	21.04	7.04
			For Work In Restricted Working Space, Add	5.28	
			For Elevated Installation >10' To 15' Above Floor, Add	1.76	
			For Elevated Installation >15' To 20' Above Floor, Add	3.52	
			For Elevated Installation >20' To 25' Above Floor, Add	4.40	
			For Elevated Installation >25' To 30' Above Floor, Add	6.16	
			For Elevated Installation >30' To 35' Above Floor, Add	7.04	
			For Elevated Installation >35' To 40' Above Floor, Add	8.80	
			For Elevated Installation >40' Above Floor, Add	9.67	
26 05 33 13-0626	EA		1-1/4" Electrical Metallic Tubing (EMT) 45 Degree Elbow	23.34	7.54
			For Work In Restricted Working Space, Add	5.66	
			For Elevated Installation >10' To 15' Above Floor, Add	1.89	
			For Elevated Installation >15' To 20' Above Floor, Add	3.77	
			For Elevated Installation >20' To 25' Above Floor, Add	4.71	
			For Elevated Installation >25' To 30' Above Floor, Add	6.60	
			For Elevated Installation >30' To 35' Above Floor, Add	7.54	
			For Elevated Installation >35' To 40' Above Floor, Add	9.43	
			For Elevated Installation >40' Above Floor, Add	10.37	
26 05 33 13-0627	EA		1-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow	27.76	9.05
			For Work In Restricted Working Space, Add	6.79	
			For Elevated Installation >10' To 15' Above Floor, Add	2.26	
			For Elevated Installation >15' To 20' Above Floor, Add	4.52	
			For Elevated Installation >20' To 25' Above Floor, Add	5.66	
			For Elevated Installation >25' To 30' Above Floor, Add	7.92	
			For Elevated Installation >30' To 35' Above Floor, Add	9.05	
			For Elevated Installation >35' To 40' Above Floor, Add	11.31	
			For Elevated Installation >40' Above Floor, Add	12.44	
26 05 33 13-0628	EA		2" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	35.13	11.56
			For Work In Restricted Working Space, Add	8.67	
			For Elevated Installation >10' To 15' Above Floor, Add	2.89	
			For Elevated Installation >15' To 20' Above Floor, Add	5.78	
			For Elevated Installation >20' To 25' Above Floor, Add	7.23	
			For Elevated Installation >25' To 30' Above Floor, Add	10.12	
			For Elevated Installation >30' To 35' Above Floor, Add	11.56	
			For Elevated Installation >35' To 40' Above Floor, Add	14.45	
			For Elevated Installation >40' Above Floor, Add	15.90	
26 05 33 13-0629	EA		2-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow	49.16	13.07
			For Work In Restricted Working Space, Add	9.80	
			For Elevated Installation >10' To 15' Above Floor, Add	3.27	
			For Elevated Installation >15' To 20' Above Floor, Add	6.53	
			For Elevated Installation >20' To 25' Above Floor, Add	8.17	
			For Elevated Installation >25' To 30' Above Floor, Add	11.43	
			For Elevated Installation >30' To 35' Above Floor, Add	13.06	
			For Elevated Installation >35' To 40' Above Floor, Add	16.33	
			For Elevated Installation >40' Above Floor, Add	17.96	
26 05 33 13-0630	EA		3" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	61.28	14.57
			For Work In Restricted Working Space, Add	10.93	
			For Elevated Installation >10' To 15' Above Floor, Add	3.64	
			For Elevated Installation >15' To 20' Above Floor, Add	7.29	
			For Elevated Installation >20' To 25' Above Floor, Add	9.11	
			For Elevated Installation >25' To 30' Above Floor, Add	12.75	
			For Elevated Installation >30' To 35' Above Floor, Add	14.58	
			For Elevated Installation >35' To 40' Above Floor, Add	18.22	
			For Elevated Installation >40' Above Floor, Add	20.04	
26 05 33 13-0631	EA		3-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow	72.26	16.09
			For Work In Restricted Working Space, Add	12.06	
			For Elevated Installation >10' To 15' Above Floor, Add	4.02	
			For Elevated Installation >15' To 20' Above Floor, Add	8.04	
			For Elevated Installation >20' To 25' Above Floor, Add	10.05	
			For Elevated Installation >25' To 30' Above Floor, Add	14.07	
			For Elevated Installation >30' To 35' Above Floor, Add	16.08	
			For Elevated Installation >35' To 40' Above Floor, Add	20.11	
			For Elevated Installation >40' Above Floor, Add	22.12	
26 05 33 13-0632	EA		4" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	138.36	41.81
			For Work In Restricted Working Space, Add	31.36	
			For Elevated Installation >10' To 15' Above Floor, Add	10.45	
			For Elevated Installation >15' To 20' Above Floor, Add	20.90	
			For Elevated Installation >20' To 25' Above Floor, Add	26.13	
			For Elevated Installation >25' To 30' Above Floor, Add	36.58	
			For Elevated Installation >30' To 35' Above Floor, Add	41.81	
			For Elevated Installation >35' To 40' Above Floor, Add	52.26	
			For Elevated Installation >40' Above Floor, Add	57.49	

26 05 33 13-0633 Electrical Metallic Tubing (EMT) Set Screw Couplings (26 05 33 13-0599)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0634	EA	1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	6.54	3.02	
		For Work In Restricted Working Space, Add	1.88		
		For Elevated Installation >10' To 15' Above Floor, Add	0.63		
		For Elevated Installation >15' To 20' Above Floor, Add	1.26		
		For Elevated Installation >20' To 25' Above Floor, Add	1.57		
		For Elevated Installation >25' To 30' Above Floor, Add	2.20		
		For Elevated Installation >30' To 35' Above Floor, Add	2.51		
		For Elevated Installation >35' To 40' Above Floor, Add	3.14		
		For Elevated Installation >40' Above Floor, Add	3.45		
26 05 33 13-0635	EA	3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	7.92	3.02	
		For Work In Restricted Working Space, Add	2.26		
		For Elevated Installation >10' To 15' Above Floor, Add	0.75		
		For Elevated Installation >15' To 20' Above Floor, Add	1.51		
		For Elevated Installation >20' To 25' Above Floor, Add	1.89		
		For Elevated Installation >25' To 30' Above Floor, Add	2.64		
		For Elevated Installation >30' To 35' Above Floor, Add	3.02		
		For Elevated Installation >35' To 40' Above Floor, Add	3.77		
		For Elevated Installation >40' Above Floor, Add	4.15		
26 05 33 13-0636	EA	1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	9.37	3.52	
		For Work In Restricted Working Space, Add	2.64		
		For Elevated Installation >10' To 15' Above Floor, Add	0.88		
		For Elevated Installation >15' To 20' Above Floor, Add	1.76		
		For Elevated Installation >20' To 25' Above Floor, Add	2.20		
		For Elevated Installation >25' To 30' Above Floor, Add	3.08		
		For Elevated Installation >30' To 35' Above Floor, Add	3.52		
		For Elevated Installation >35' To 40' Above Floor, Add	4.40		
		For Elevated Installation >40' Above Floor, Add	4.83		
26 05 33 13-0637	EA	1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling	12.57	4.52	
		For Work In Restricted Working Space, Add	3.39		
		For Elevated Installation >10' To 15' Above Floor, Add	1.13		
		For Elevated Installation >15' To 20' Above Floor, Add	2.26		
		For Elevated Installation >20' To 25' Above Floor, Add	2.83		
		For Elevated Installation >25' To 30' Above Floor, Add	3.96		
		For Elevated Installation >30' To 35' Above Floor, Add	4.52		
		For Elevated Installation >35' To 40' Above Floor, Add	5.66		
		For Elevated Installation >40' Above Floor, Add	6.22		
26 05 33 13-0638	EA	1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	15.50	5.53	
		For Work In Restricted Working Space, Add	4.15		
		For Elevated Installation >10' To 15' Above Floor, Add	1.38		
		For Elevated Installation >15' To 20' Above Floor, Add	2.77		
		For Elevated Installation >20' To 25' Above Floor, Add	3.46		
		For Elevated Installation >25' To 30' Above Floor, Add	4.84		
		For Elevated Installation >30' To 35' Above Floor, Add	5.53		
		For Elevated Installation >35' To 40' Above Floor, Add	6.92		
		For Elevated Installation >40' Above Floor, Add	7.61		
26 05 33 13-0639	EA	2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	21.06	7.54	
		For Work In Restricted Working Space, Add	5.65		
		For Elevated Installation >10' To 15' Above Floor, Add	1.88		
		For Elevated Installation >15' To 20' Above Floor, Add	3.77		
		For Elevated Installation >20' To 25' Above Floor, Add	4.71		
		For Elevated Installation >25' To 30' Above Floor, Add	6.59		
		For Elevated Installation >30' To 35' Above Floor, Add	7.54		
		For Elevated Installation >35' To 40' Above Floor, Add	9.42		
		For Elevated Installation >40' Above Floor, Add	10.36		
26 05 33 13-0640	EA	2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	29.03	10.05	
		For Work In Restricted Working Space, Add	7.54		
		For Elevated Installation >10' To 15' Above Floor, Add	2.51		
		For Elevated Installation >15' To 20' Above Floor, Add	5.03		
		For Elevated Installation >20' To 25' Above Floor, Add	6.29		
		For Elevated Installation >25' To 30' Above Floor, Add	8.80		
		For Elevated Installation >30' To 35' Above Floor, Add	10.06		
		For Elevated Installation >35' To 40' Above Floor, Add	12.57		
		For Elevated Installation >40' Above Floor, Add	13.83		
26 05 33 13-0641	EA	3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	37.45	11.56	
		For Work In Restricted Working Space, Add	9.42		
		For Elevated Installation >10' To 15' Above Floor, Add	3.14		
		For Elevated Installation >15' To 20' Above Floor, Add	6.28		
		For Elevated Installation >20' To 25' Above Floor, Add	7.85		
		For Elevated Installation >25' To 30' Above Floor, Add	10.99		
		For Elevated Installation >30' To 35' Above Floor, Add	12.56		
		For Elevated Installation >35' To 40' Above Floor, Add	15.71		
		For Elevated Installation >40' Above Floor, Add	17.28		
26 05 33 13-0642	EA	3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	42.48	12.57	
		For Work In Restricted Working Space, Add	11.31		
		For Elevated Installation >10' To 15' Above Floor, Add	3.77		
		For Elevated Installation >15' To 20' Above Floor, Add	7.54		
		For Elevated Installation >20' To 25' Above Floor, Add	9.42		
		For Elevated Installation >25' To 30' Above Floor, Add	13.19		
		For Elevated Installation >30' To 35' Above Floor, Add	15.08		
		For Elevated Installation >35' To 40' Above Floor, Add	18.85		
		For Elevated Installation >40' Above Floor, Add	20.73		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0643	EA	4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	120.66	34.65
		For Work In Restricted Working Space, Add	33.64	
		For Elevated Installation >10' To 15' Above Floor, Add	11.21	
		For Elevated Installation >15' To 20' Above Floor, Add	22.43	
		For Elevated Installation >20' To 25' Above Floor, Add	28.03	
		For Elevated Installation >25' To 30' Above Floor, Add	39.25	
		For Elevated Installation >30' To 35' Above Floor, Add	44.85	
		For Elevated Installation >35' To 40' Above Floor, Add	56.07	
		For Elevated Installation >40' Above Floor, Add	61.67	
26 05 33 13-0644		Electrical Metallic Tubing (EMT) Compression Couplings (26 05 33 13-0599)		
26 05 33 13-0645	EA	1/2 Electrical Metallic Tubing (EMT) Compression Coupling.....	8.18	3.02
		For Work In Restricted Working Space, Add	2.26	
		For Elevated Installation >10' To 15' Above Floor, Add	0.75	
		For Elevated Installation >15' To 20' Above Floor, Add	1.51	
		For Elevated Installation >20' To 25' Above Floor, Add	1.89	
		For Elevated Installation >25' To 30' Above Floor, Add	2.64	
		For Elevated Installation >30' To 35' Above Floor, Add	3.02	
		For Elevated Installation >35' To 40' Above Floor, Add	3.77	
		For Elevated Installation >40' Above Floor, Add	4.15	
26 05 33 13-0646	EA	3/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	9.50	3.52
		For Work In Restricted Working Space, Add	2.64	
		For Elevated Installation >10' To 15' Above Floor, Add	0.88	
		For Elevated Installation >15' To 20' Above Floor, Add	1.76	
		For Elevated Installation >20' To 25' Above Floor, Add	2.20	
		For Elevated Installation >25' To 30' Above Floor, Add	3.08	
		For Elevated Installation >30' To 35' Above Floor, Add	3.52	
		For Elevated Installation >35' To 40' Above Floor, Add	4.40	
		For Elevated Installation >40' Above Floor, Add	4.84	
26 05 33 13-0647	EA	1" Electrical Metallic Tubing (EMT) Compression Coupling.....	13.55	5.02
		For Work In Restricted Working Space, Add	3.77	
		For Elevated Installation >10' To 15' Above Floor, Add	1.26	
		For Elevated Installation >15' To 20' Above Floor, Add	2.51	
		For Elevated Installation >20' To 25' Above Floor, Add	3.14	
		For Elevated Installation >25' To 30' Above Floor, Add	4.40	
		For Elevated Installation >30' To 35' Above Floor, Add	5.03	
		For Elevated Installation >35' To 40' Above Floor, Add	6.29	
		For Elevated Installation >40' Above Floor, Add	6.91	
26 05 33 13-0648	EA	1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	17.11	6.03
		For Work In Restricted Working Space, Add	4.52	
		For Elevated Installation >10' To 15' Above Floor, Add	1.51	
		For Elevated Installation >15' To 20' Above Floor, Add	3.01	
		For Elevated Installation >20' To 25' Above Floor, Add	3.77	
		For Elevated Installation >25' To 30' Above Floor, Add	5.27	
		For Elevated Installation >30' To 35' Above Floor, Add	6.03	
		For Elevated Installation >35' To 40' Above Floor, Add	7.54	
		For Elevated Installation >40' Above Floor, Add	8.29	
26 05 33 13-0649	EA	1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	20.46	7.04
		For Work In Restricted Working Space, Add	5.28	
		For Elevated Installation >10' To 15' Above Floor, Add	1.76	
		For Elevated Installation >15' To 20' Above Floor, Add	3.52	
		For Elevated Installation >20' To 25' Above Floor, Add	4.40	
		For Elevated Installation >25' To 30' Above Floor, Add	6.16	
		For Elevated Installation >30' To 35' Above Floor, Add	7.04	
		For Elevated Installation >35' To 40' Above Floor, Add	8.80	
		For Elevated Installation >40' Above Floor, Add	9.67	
26 05 33 13-0650	EA	2" Electrical Metallic Tubing (EMT) Compression Coupling.....	27.14	9.05
		For Work In Restricted Working Space, Add	6.79	
		For Elevated Installation >10' To 15' Above Floor, Add	2.26	
		For Elevated Installation >15' To 20' Above Floor, Add	4.52	
		For Elevated Installation >20' To 25' Above Floor, Add	5.66	
		For Elevated Installation >25' To 30' Above Floor, Add	7.92	
		For Elevated Installation >30' To 35' Above Floor, Add	9.05	
		For Elevated Installation >35' To 40' Above Floor, Add	11.31	
		For Elevated Installation >40' Above Floor, Add	12.44	
26 05 33 13-0651	EA	2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	41.97	12.07
		For Work In Restricted Working Space, Add	9.05	
		For Elevated Installation >10' To 15' Above Floor, Add	3.02	
		For Elevated Installation >15' To 20' Above Floor, Add	6.03	
		For Elevated Installation >20' To 25' Above Floor, Add	7.54	
		For Elevated Installation >25' To 30' Above Floor, Add	10.56	
		For Elevated Installation >30' To 35' Above Floor, Add	12.06	
		For Elevated Installation >35' To 40' Above Floor, Add	15.08	
		For Elevated Installation >40' Above Floor, Add	16.59	
26 05 33 13-0652	EA	3" Electrical Metallic Tubing (EMT) Compression Coupling.....	48.60	14.07
		For Work In Restricted Working Space, Add	10.55	
		For Elevated Installation >10' To 15' Above Floor, Add	3.52	
		For Elevated Installation >15' To 20' Above Floor, Add	7.04	
		For Elevated Installation >20' To 25' Above Floor, Add	8.80	
		For Elevated Installation >25' To 30' Above Floor, Add	12.31	
		For Elevated Installation >30' To 35' Above Floor, Add	14.07	
		For Elevated Installation >35' To 40' Above Floor, Add	17.59	
		For Elevated Installation >40' Above Floor, Add	19.35	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0653 EA 3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	60.77	17.59
For Work In Restricted Working Space, Add	13.19	
For Elevated Installation >10' To 15' Above Floor, Add	4.40	
For Elevated Installation >15' To 20' Above Floor, Add	8.80	
For Elevated Installation >20' To 25' Above Floor, Add	11.00	
For Elevated Installation >25' To 30' Above Floor, Add	15.39	
For Elevated Installation >30' To 35' Above Floor, Add	17.59	
For Elevated Installation >35' To 40' Above Floor, Add	21.99	
For Elevated Installation >40' Above Floor, Add	24.19	
26 05 33 13-0654 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling.....	77.96	22.62
For Work In Restricted Working Space, Add	16.97	
For Elevated Installation >10' To 15' Above Floor, Add	5.66	
For Elevated Installation >15' To 20' Above Floor, Add	11.31	
For Elevated Installation >20' To 25' Above Floor, Add	14.14	
For Elevated Installation >25' To 30' Above Floor, Add	19.79	
For Elevated Installation >30' To 35' Above Floor, Add	22.62	
For Elevated Installation >35' To 40' Above Floor, Add	28.28	
For Elevated Installation >40' Above Floor, Add	31.10	
26 05 33 13-0655 Electrical Metallic Tubing (EMT) Raintight Compression Couplings (26 05 33 13-0599)		
26 05 33 13-0656 EA 1/2 Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	9.10	3.02
For Work In Restricted Working Space, Add	2.26	
For Elevated Installation >10' To 15' Above Floor, Add	0.75	
For Elevated Installation >15' To 20' Above Floor, Add	1.51	
For Elevated Installation >20' To 25' Above Floor, Add	1.89	
For Elevated Installation >25' To 30' Above Floor, Add	2.64	
For Elevated Installation >30' To 35' Above Floor, Add	3.02	
For Elevated Installation >35' To 40' Above Floor, Add	3.77	
For Elevated Installation >40' Above Floor, Add	4.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.26	
26 05 33 13-0657 EA 3/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	10.51	3.52
For Work In Restricted Working Space, Add	2.64	
For Elevated Installation >10' To 15' Above Floor, Add	0.88	
For Elevated Installation >15' To 20' Above Floor, Add	1.76	
For Elevated Installation >20' To 25' Above Floor, Add	2.20	
For Elevated Installation >25' To 30' Above Floor, Add	3.08	
For Elevated Installation >30' To 35' Above Floor, Add	3.52	
For Elevated Installation >35' To 40' Above Floor, Add	4.40	
For Elevated Installation >40' Above Floor, Add	4.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.64	
26 05 33 13-0658 EA 1" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	15.46	5.02
For Work In Restricted Working Space, Add	3.77	
For Elevated Installation >10' To 15' Above Floor, Add	1.26	
For Elevated Installation >15' To 20' Above Floor, Add	2.51	
For Elevated Installation >20' To 25' Above Floor, Add	3.14	
For Elevated Installation >25' To 30' Above Floor, Add	4.40	
For Elevated Installation >30' To 35' Above Floor, Add	5.03	
For Elevated Installation >35' To 40' Above Floor, Add	6.29	
For Elevated Installation >40' Above Floor, Add	6.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-0659 EA 1-1/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	19.43	6.03
For Work In Restricted Working Space, Add	4.52	
For Elevated Installation >10' To 15' Above Floor, Add	1.51	
For Elevated Installation >15' To 20' Above Floor, Add	3.01	
For Elevated Installation >20' To 25' Above Floor, Add	3.77	
For Elevated Installation >25' To 30' Above Floor, Add	5.27	
For Elevated Installation >30' To 35' Above Floor, Add	6.03	
For Elevated Installation >35' To 40' Above Floor, Add	7.54	
For Elevated Installation >40' Above Floor, Add	8.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-0660 EA 1-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	24.59	7.04
For Work In Restricted Working Space, Add	5.28	
For Elevated Installation >10' To 15' Above Floor, Add	1.76	
For Elevated Installation >15' To 20' Above Floor, Add	3.52	
For Elevated Installation >20' To 25' Above Floor, Add	4.40	
For Elevated Installation >25' To 30' Above Floor, Add	6.16	
For Elevated Installation >30' To 35' Above Floor, Add	7.04	
For Elevated Installation >35' To 40' Above Floor, Add	8.80	
For Elevated Installation >40' Above Floor, Add	9.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-0661 EA 2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	29.96	8.55
For Work In Restricted Working Space, Add	6.41	
For Elevated Installation >10' To 15' Above Floor, Add	2.14	
For Elevated Installation >15' To 20' Above Floor, Add	4.27	
For Elevated Installation >20' To 25' Above Floor, Add	5.34	
For Elevated Installation >25' To 30' Above Floor, Add	7.48	
For Elevated Installation >30' To 35' Above Floor, Add	8.54	
For Elevated Installation >35' To 40' Above Floor, Add	10.68	
For Elevated Installation >40' Above Floor, Add	11.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0662	EA		2-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	40.34	11.56
			For Work In Restricted Working Space, Add	8.67	
			For Elevated Installation >10' To 15' Above Floor, Add	2.89	
			For Elevated Installation >15' To 20' Above Floor, Add	5.78	
			For Elevated Installation >20' To 25' Above Floor, Add	7.23	
			For Elevated Installation >25' To 30' Above Floor, Add	10.12	
			For Elevated Installation >30' To 35' Above Floor, Add	11.56	
			For Elevated Installation >35' To 40' Above Floor, Add	14.45	
			For Elevated Installation >40' Above Floor, Add	15.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.67	
26 05 33 13-0663	EA		3" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	50.72	14.07
			For Work In Restricted Working Space, Add	10.55	
			For Elevated Installation >10' To 15' Above Floor, Add	3.52	
			For Elevated Installation >15' To 20' Above Floor, Add	7.04	
			For Elevated Installation >20' To 25' Above Floor, Add	8.80	
			For Elevated Installation >25' To 30' Above Floor, Add	12.31	
			For Elevated Installation >30' To 35' Above Floor, Add	14.07	
			For Elevated Installation >35' To 40' Above Floor, Add	17.59	
			For Elevated Installation >40' Above Floor, Add	19.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-0664	EA		3-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	66.46	17.59
			For Work In Restricted Working Space, Add	13.19	
			For Elevated Installation >10' To 15' Above Floor, Add	4.40	
			For Elevated Installation >15' To 20' Above Floor, Add	8.80	
			For Elevated Installation >20' To 25' Above Floor, Add	11.00	
			For Elevated Installation >25' To 30' Above Floor, Add	15.39	
			For Elevated Installation >30' To 35' Above Floor, Add	17.59	
			For Elevated Installation >35' To 40' Above Floor, Add	21.99	
			For Elevated Installation >40' Above Floor, Add	24.19	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.19	
26 05 33 13-0665	EA		4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	81.68	22.62
			For Work In Restricted Working Space, Add	16.97	
			For Elevated Installation >10' To 15' Above Floor, Add	5.66	
			For Elevated Installation >15' To 20' Above Floor, Add	11.31	
			For Elevated Installation >20' To 25' Above Floor, Add	14.14	
			For Elevated Installation >25' To 30' Above Floor, Add	19.79	
			For Elevated Installation >30' To 35' Above Floor, Add	22.62	
			For Elevated Installation >35' To 40' Above Floor, Add	28.28	
			For Elevated Installation >40' Above Floor, Add	31.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.97	
26 05 33 13-0666			Electrical Metallic Tubing (EMT) Insulated Bushing (26 05 33 13-0599)		
26 05 33 13-0667	EA		1/2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	8.51	3.40
			For Work In Restricted Working Space, Add	2.53	
			For Elevated Installation >10' To 15' Above Floor, Add	0.84	
			For Elevated Installation >15' To 20' Above Floor, Add	1.68	
			For Elevated Installation >20' To 25' Above Floor, Add	2.11	
			For Elevated Installation >25' To 30' Above Floor, Add	2.95	
			For Elevated Installation >30' To 35' Above Floor, Add	3.37	
			For Elevated Installation >35' To 40' Above Floor, Add	4.21	
			For Elevated Installation >40' Above Floor, Add	4.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.53	
26 05 33 13-0668	EA		3/4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	9.31	3.65
			For Work In Restricted Working Space, Add	2.75	
			For Elevated Installation >10' To 15' Above Floor, Add	0.92	
			For Elevated Installation >15' To 20' Above Floor, Add	1.83	
			For Elevated Installation >20' To 25' Above Floor, Add	2.29	
			For Elevated Installation >25' To 30' Above Floor, Add	3.21	
			For Elevated Installation >30' To 35' Above Floor, Add	3.67	
			For Elevated Installation >35' To 40' Above Floor, Add	4.59	
			For Elevated Installation >40' Above Floor, Add	5.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 05 33 13-0669	EA		1" Electrical Metallic Tubing (EMT) Insulated Bushing.....	11.61	4.52
			For Work In Restricted Working Space, Add	3.35	
			For Elevated Installation >10' To 15' Above Floor, Add	1.12	
			For Elevated Installation >15' To 20' Above Floor, Add	2.24	
			For Elevated Installation >20' To 25' Above Floor, Add	2.80	
			For Elevated Installation >25' To 30' Above Floor, Add	3.91	
			For Elevated Installation >30' To 35' Above Floor, Add	4.47	
			For Elevated Installation >35' To 40' Above Floor, Add	5.59	
			For Elevated Installation >40' Above Floor, Add	6.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.35	
26 05 33 13-0670	EA		1-1/4" Electrical Metallic Tubing (EMT) Insulated Bushing	14.85	5.78
			For Work In Restricted Working Space, Add	4.30	
			For Elevated Installation >10' To 15' Above Floor, Add	1.43	
			For Elevated Installation >15' To 20' Above Floor, Add	2.86	
			For Elevated Installation >20' To 25' Above Floor, Add	3.58	
			For Elevated Installation >25' To 30' Above Floor, Add	5.01	
			For Elevated Installation >30' To 35' Above Floor, Add	5.73	
			For Elevated Installation >35' To 40' Above Floor, Add	7.16	
			For Elevated Installation >40' Above Floor, Add	7.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.30	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0671 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	17.56	6.65
For Work In Restricted Working Space, Add	5.02	
For Elevated Installation >10' To 15' Above Floor, Add	1.67	
For Elevated Installation >15' To 20' Above Floor, Add	3.34	
For Elevated Installation >20' To 25' Above Floor, Add	4.18	
For Elevated Installation >25' To 30' Above Floor, Add	5.85	
For Elevated Installation >30' To 35' Above Floor, Add	6.69	
For Elevated Installation >35' To 40' Above Floor, Add	8.36	
For Elevated Installation >40' Above Floor, Add	9.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-0672 EA 2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	21.50	8.04
For Work In Restricted Working Space, Add	6.03	
For Elevated Installation >10' To 15' Above Floor, Add	2.01	
For Elevated Installation >15' To 20' Above Floor, Add	4.02	
For Elevated Installation >20' To 25' Above Floor, Add	5.03	
For Elevated Installation >25' To 30' Above Floor, Add	7.04	
For Elevated Installation >30' To 35' Above Floor, Add	8.04	
For Elevated Installation >35' To 40' Above Floor, Add	10.05	
For Elevated Installation >40' Above Floor, Add	11.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.03	
26 05 33 13-0673 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	30.92	11.18
For Work In Restricted Working Space, Add	8.37	
For Elevated Installation >10' To 15' Above Floor, Add	2.79	
For Elevated Installation >15' To 20' Above Floor, Add	5.58	
For Elevated Installation >20' To 25' Above Floor, Add	6.97	
For Elevated Installation >25' To 30' Above Floor, Add	9.76	
For Elevated Installation >30' To 35' Above Floor, Add	11.16	
For Elevated Installation >35' To 40' Above Floor, Add	13.95	
For Elevated Installation >40' Above Floor, Add	15.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.37	
26 05 33 13-0674 EA 3" Electrical Metallic Tubing (EMT) Insulated Bushing.....	41.05	14.82
For Work In Restricted Working Space, Add	11.16	
For Elevated Installation >10' To 15' Above Floor, Add	3.72	
For Elevated Installation >15' To 20' Above Floor, Add	7.44	
For Elevated Installation >20' To 25' Above Floor, Add	9.30	
For Elevated Installation >25' To 30' Above Floor, Add	13.02	
For Elevated Installation >30' To 35' Above Floor, Add	14.88	
For Elevated Installation >35' To 40' Above Floor, Add	18.60	
For Elevated Installation >40' Above Floor, Add	20.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.16	
26 05 33 13-0675 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	52.64	19.10
For Work In Restricted Working Space, Add	14.36	
For Elevated Installation >10' To 15' Above Floor, Add	4.79	
For Elevated Installation >15' To 20' Above Floor, Add	9.58	
For Elevated Installation >20' To 25' Above Floor, Add	11.97	
For Elevated Installation >25' To 30' Above Floor, Add	16.76	
For Elevated Installation >30' To 35' Above Floor, Add	19.15	
For Elevated Installation >35' To 40' Above Floor, Add	23.94	
For Elevated Installation >40' Above Floor, Add	26.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.36	
26 05 33 13-0676 EA 4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	68.13	25.13
For Work In Restricted Working Space, Add	18.85	
For Elevated Installation >10' To 15' Above Floor, Add	6.28	
For Elevated Installation >15' To 20' Above Floor, Add	12.57	
For Elevated Installation >20' To 25' Above Floor, Add	15.71	
For Elevated Installation >25' To 30' Above Floor, Add	21.99	
For Elevated Installation >30' To 35' Above Floor, Add	25.13	
For Elevated Installation >35' To 40' Above Floor, Add	31.42	
For Elevated Installation >40' Above Floor, Add	34.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85	
26 05 33 13-0677 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw⁽²⁶⁾		
(05 33 13-0599)		
26 05 33 13-0678 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	6.49	2.52
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15' Above Floor, Add	0.63	
For Elevated Installation >15' To 20' Above Floor, Add	1.26	
For Elevated Installation >20' To 25' Above Floor, Add	1.57	
For Elevated Installation >25' To 30' Above Floor, Add	2.20	
For Elevated Installation >30' To 35' Above Floor, Add	2.51	
For Elevated Installation >35' To 40' Above Floor, Add	3.14	
For Elevated Installation >40' Above Floor, Add	3.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.88	
26 05 33 13-0679 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	7.87	3.02
For Work In Restricted Working Space, Add	2.26	
For Elevated Installation >10' To 15' Above Floor, Add	0.75	
For Elevated Installation >15' To 20' Above Floor, Add	1.51	
For Elevated Installation >20' To 25' Above Floor, Add	1.89	
For Elevated Installation >25' To 30' Above Floor, Add	2.64	
For Elevated Installation >30' To 35' Above Floor, Add	3.02	
For Elevated Installation >35' To 40' Above Floor, Add	3.77	
For Elevated Installation >40' Above Floor, Add	4.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0680	EA	1"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	9.38	3.52
			For Work In Restricted Working Space, Add	2.64	
			For Elevated Installation >10' To 15' Above Floor, Add	0.88	
			For Elevated Installation >15' To 20' Above Floor, Add	1.76	
			For Elevated Installation >20' To 25' Above Floor, Add	2.20	
			For Elevated Installation >25' To 30' Above Floor, Add	3.08	
			For Elevated Installation >30' To 35' Above Floor, Add	3.52	
			For Elevated Installation >35' To 40' Above Floor, Add	4.40	
			For Elevated Installation >40' Above Floor, Add	4.84	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.64	
26 05 33 13-0681	EA	1-1/4"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	13.63	5.02
			For Work In Restricted Working Space, Add	3.77	
			For Elevated Installation >10' To 15' Above Floor, Add	1.26	
			For Elevated Installation >15' To 20' Above Floor, Add	2.51	
			For Elevated Installation >20' To 25' Above Floor, Add	3.14	
			For Elevated Installation >25' To 30' Above Floor, Add	4.40	
			For Elevated Installation >30' To 35' Above Floor, Add	5.03	
			For Elevated Installation >35' To 40' Above Floor, Add	6.29	
			For Elevated Installation >40' Above Floor, Add	6.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-0682	EA	1-1/2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	16.62	6.03
			For Work In Restricted Working Space, Add	4.52	
			For Elevated Installation >10' To 15' Above Floor, Add	1.51	
			For Elevated Installation >15' To 20' Above Floor, Add	3.01	
			For Elevated Installation >20' To 25' Above Floor, Add	3.77	
			For Elevated Installation >25' To 30' Above Floor, Add	5.27	
			For Elevated Installation >30' To 35' Above Floor, Add	6.03	
			For Elevated Installation >35' To 40' Above Floor, Add	7.54	
			For Elevated Installation >40' Above Floor, Add	8.29	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-0683	EA	2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	21.14	7.54
			For Work In Restricted Working Space, Add	5.66	
			For Elevated Installation >10' To 15' Above Floor, Add	1.89	
			For Elevated Installation >15' To 20' Above Floor, Add	3.77	
			For Elevated Installation >20' To 25' Above Floor, Add	4.71	
			For Elevated Installation >25' To 30' Above Floor, Add	6.60	
			For Elevated Installation >30' To 35' Above Floor, Add	7.54	
			For Elevated Installation >35' To 40' Above Floor, Add	9.43	
			For Elevated Installation >40' Above Floor, Add	10.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.66	
26 05 33 13-0684	EA	2-1/2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	31.51	10.05
			For Work In Restricted Working Space, Add	7.54	
			For Elevated Installation >10' To 15' Above Floor, Add	2.51	
			For Elevated Installation >15' To 20' Above Floor, Add	5.03	
			For Elevated Installation >20' To 25' Above Floor, Add	6.28	
			For Elevated Installation >25' To 30' Above Floor, Add	8.80	
			For Elevated Installation >30' To 35' Above Floor, Add	10.05	
			For Elevated Installation >35' To 40' Above Floor, Add	12.57	
			For Elevated Installation >40' Above Floor, Add	13.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.54	
26 05 33 13-0685	EA	3"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	39.21	12.57
			For Work In Restricted Working Space, Add	9.42	
			For Elevated Installation >10' To 15' Above Floor, Add	3.14	
			For Elevated Installation >15' To 20' Above Floor, Add	6.28	
			For Elevated Installation >20' To 25' Above Floor, Add	7.85	
			For Elevated Installation >25' To 30' Above Floor, Add	10.99	
			For Elevated Installation >30' To 35' Above Floor, Add	12.56	
			For Elevated Installation >35' To 40' Above Floor, Add	15.71	
			For Elevated Installation >40' Above Floor, Add	17.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-0686	EA	3-1/2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	46.46	15.07
			For Work In Restricted Working Space, Add	11.31	
			For Elevated Installation >10' To 15' Above Floor, Add	3.77	
			For Elevated Installation >15' To 20' Above Floor, Add	7.54	
			For Elevated Installation >20' To 25' Above Floor, Add	9.42	
			For Elevated Installation >25' To 30' Above Floor, Add	13.19	
			For Elevated Installation >30' To 35' Above Floor, Add	15.08	
			For Elevated Installation >35' To 40' Above Floor, Add	18.85	
			For Elevated Installation >40' Above Floor, Add	20.73	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 05 33 13-0687	EA	4"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	54.13	17.59
			For Work In Restricted Working Space, Add	13.19	
			For Elevated Installation >10' To 15' Above Floor, Add	4.40	
			For Elevated Installation >15' To 20' Above Floor, Add	8.80	
			For Elevated Installation >20' To 25' Above Floor, Add	11.00	
			For Elevated Installation >25' To 30' Above Floor, Add	15.39	
			For Elevated Installation >30' To 35' Above Floor, Add	17.59	
			For Elevated Installation >35' To 40' Above Floor, Add	21.99	
			For Elevated Installation >40' Above Floor, Add	24.19	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.19	

26 05 33 13-0688 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw (26 05 33 13-0599)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0689 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	8.76	3.40
For Work In Restricted Working Space, Add	2.53	
For Elevated Installation >10' To 15' Above Floor, Add	0.84	
For Elevated Installation >15' To 20' Above Floor, Add	1.68	
For Elevated Installation >20' To 25' Above Floor, Add	2.11	
For Elevated Installation >25' To 30' Above Floor, Add	2.95	
For Elevated Installation >30' To 35' Above Floor, Add	3.37	
For Elevated Installation >35' To 40' Above Floor, Add	4.21	
For Elevated Installation >40' Above Floor, Add	4.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.53	
26 05 33 13-0690 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	9.72	3.65
For Work In Restricted Working Space, Add	2.75	
For Elevated Installation >10' To 15' Above Floor, Add	0.92	
For Elevated Installation >15' To 20' Above Floor, Add	1.83	
For Elevated Installation >20' To 25' Above Floor, Add	2.29	
For Elevated Installation >25' To 30' Above Floor, Add	3.21	
For Elevated Installation >30' To 35' Above Floor, Add	3.67	
For Elevated Installation >35' To 40' Above Floor, Add	4.59	
For Elevated Installation >40' Above Floor, Add	5.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.75	
26 05 33 13-0691 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	12.15	4.52
For Work In Restricted Working Space, Add	3.35	
For Elevated Installation >10' To 15' Above Floor, Add	1.12	
For Elevated Installation >15' To 20' Above Floor, Add	2.24	
For Elevated Installation >20' To 25' Above Floor, Add	2.80	
For Elevated Installation >25' To 30' Above Floor, Add	3.91	
For Elevated Installation >30' To 35' Above Floor, Add	4.47	
For Elevated Installation >35' To 40' Above Floor, Add	5.59	
For Elevated Installation >40' Above Floor, Add	6.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.35	
26 05 33 13-0692 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	15.93	5.78
For Work In Restricted Working Space, Add	4.30	
For Elevated Installation >10' To 15' Above Floor, Add	1.43	
For Elevated Installation >15' To 20' Above Floor, Add	2.86	
For Elevated Installation >20' To 25' Above Floor, Add	3.58	
For Elevated Installation >25' To 30' Above Floor, Add	5.01	
For Elevated Installation >30' To 35' Above Floor, Add	5.73	
For Elevated Installation >35' To 40' Above Floor, Add	7.16	
For Elevated Installation >40' Above Floor, Add	7.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.30	
26 05 33 13-0693 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	18.87	6.65
For Work In Restricted Working Space, Add	5.02	
For Elevated Installation >10' To 15' Above Floor, Add	1.67	
For Elevated Installation >15' To 20' Above Floor, Add	3.34	
For Elevated Installation >20' To 25' Above Floor, Add	4.18	
For Elevated Installation >25' To 30' Above Floor, Add	5.85	
For Elevated Installation >30' To 35' Above Floor, Add	6.69	
For Elevated Installation >35' To 40' Above Floor, Add	8.36	
For Elevated Installation >40' Above Floor, Add	9.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-0694 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	23.05	8.04
For Work In Restricted Working Space, Add	6.03	
For Elevated Installation >10' To 15' Above Floor, Add	2.01	
For Elevated Installation >15' To 20' Above Floor, Add	4.02	
For Elevated Installation >20' To 25' Above Floor, Add	5.03	
For Elevated Installation >25' To 30' Above Floor, Add	7.04	
For Elevated Installation >30' To 35' Above Floor, Add	8.04	
For Elevated Installation >35' To 40' Above Floor, Add	10.05	
For Elevated Installation >40' Above Floor, Add	11.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.03	
26 05 33 13-0695 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	37.55	11.18
For Work In Restricted Working Space, Add	8.37	
For Elevated Installation >10' To 15' Above Floor, Add	2.79	
For Elevated Installation >15' To 20' Above Floor, Add	5.58	
For Elevated Installation >20' To 25' Above Floor, Add	6.97	
For Elevated Installation >25' To 30' Above Floor, Add	9.76	
For Elevated Installation >30' To 35' Above Floor, Add	11.16	
For Elevated Installation >35' To 40' Above Floor, Add	13.95	
For Elevated Installation >40' Above Floor, Add	15.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.37	
26 05 33 13-0696 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	48.75	14.82
For Work In Restricted Working Space, Add	11.16	
For Elevated Installation >10' To 15' Above Floor, Add	3.72	
For Elevated Installation >15' To 20' Above Floor, Add	7.44	
For Elevated Installation >20' To 25' Above Floor, Add	9.30	
For Elevated Installation >25' To 30' Above Floor, Add	13.02	
For Elevated Installation >30' To 35' Above Floor, Add	14.88	
For Elevated Installation >35' To 40' Above Floor, Add	18.60	
For Elevated Installation >40' Above Floor, Add	20.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0697	EA		3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	62.33	19.10
			For Work In Restricted Working Space, Add	14.36	
			For Elevated Installation >10' To 15' Above Floor, Add	4.79	
			For Elevated Installation >15' To 20' Above Floor, Add	9.58	
			For Elevated Installation >20' To 25' Above Floor, Add	11.97	
			For Elevated Installation >25' To 30' Above Floor, Add	16.76	
			For Elevated Installation >30' To 35' Above Floor, Add	19.15	
			For Elevated Installation >35' To 40' Above Floor, Add	23.94	
			For Elevated Installation >40' Above Floor, Add	26.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.36	
26 05 33 13-0698	EA		4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	78.73	25.13
			For Work In Restricted Working Space, Add	18.85	
			For Elevated Installation >10' To 15' Above Floor, Add	6.28	
			For Elevated Installation >15' To 20' Above Floor, Add	12.57	
			For Elevated Installation >20' To 25' Above Floor, Add	15.71	
			For Elevated Installation >25' To 30' Above Floor, Add	21.99	
			For Elevated Installation >30' To 35' Above Floor, Add	25.13	
			For Elevated Installation >35' To 40' Above Floor, Add	31.42	
			For Elevated Installation >40' Above Floor, Add	34.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85	
26 05 33 13-0699 Electrical Metallic Tubing (EMT) Straight Box Compression Connectors (26 05 33 13-0599)					
26 05 33 13-0700	EA		1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	7.87	3.02
			For Work In Restricted Working Space, Add	2.26	
			For Elevated Installation >10' To 15' Above Floor, Add	0.75	
			For Elevated Installation >15' To 20' Above Floor, Add	1.51	
			For Elevated Installation >20' To 25' Above Floor, Add	1.89	
			For Elevated Installation >25' To 30' Above Floor, Add	2.64	
			For Elevated Installation >30' To 35' Above Floor, Add	3.02	
			For Elevated Installation >35' To 40' Above Floor, Add	3.77	
			For Elevated Installation >40' Above Floor, Add	4.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.26	
26 05 33 13-0701	EA		3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	9.30	3.52
			For Work In Restricted Working Space, Add	2.64	
			For Elevated Installation >10' To 15' Above Floor, Add	0.88	
			For Elevated Installation >15' To 20' Above Floor, Add	1.76	
			For Elevated Installation >20' To 25' Above Floor, Add	2.20	
			For Elevated Installation >25' To 30' Above Floor, Add	3.08	
			For Elevated Installation >30' To 35' Above Floor, Add	3.52	
			For Elevated Installation >35' To 40' Above Floor, Add	4.40	
			For Elevated Installation >40' Above Floor, Add	4.84	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.64	
26 05 33 13-0702	EA		1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	13.28	5.02
			For Work In Restricted Working Space, Add	3.77	
			For Elevated Installation >10' To 15' Above Floor, Add	1.26	
			For Elevated Installation >15' To 20' Above Floor, Add	2.51	
			For Elevated Installation >20' To 25' Above Floor, Add	3.14	
			For Elevated Installation >25' To 30' Above Floor, Add	4.40	
			For Elevated Installation >30' To 35' Above Floor, Add	5.03	
			For Elevated Installation >35' To 40' Above Floor, Add	6.29	
			For Elevated Installation >40' Above Floor, Add	6.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 33 13-0703	EA		1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	16.41	6.03
			For Work In Restricted Working Space, Add	4.52	
			For Elevated Installation >10' To 15' Above Floor, Add	1.51	
			For Elevated Installation >15' To 20' Above Floor, Add	3.01	
			For Elevated Installation >20' To 25' Above Floor, Add	3.77	
			For Elevated Installation >25' To 30' Above Floor, Add	5.27	
			For Elevated Installation >30' To 35' Above Floor, Add	6.03	
			For Elevated Installation >35' To 40' Above Floor, Add	7.54	
			For Elevated Installation >40' Above Floor, Add	8.29	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-0704	EA		1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	19.48	7.04
			For Work In Restricted Working Space, Add	5.28	
			For Elevated Installation >10' To 15' Above Floor, Add	1.76	
			For Elevated Installation >15' To 20' Above Floor, Add	3.52	
			For Elevated Installation >20' To 25' Above Floor, Add	4.40	
			For Elevated Installation >25' To 30' Above Floor, Add	6.16	
			For Elevated Installation >30' To 35' Above Floor, Add	7.04	
			For Elevated Installation >35' To 40' Above Floor, Add	8.80	
			For Elevated Installation >40' Above Floor, Add	9.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-0705	EA		2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	25.36	9.05
			For Work In Restricted Working Space, Add	6.79	
			For Elevated Installation >10' To 15' Above Floor, Add	2.26	
			For Elevated Installation >15' To 20' Above Floor, Add	4.52	
			For Elevated Installation >20' To 25' Above Floor, Add	5.66	
			For Elevated Installation >25' To 30' Above Floor, Add	7.92	
			For Elevated Installation >30' To 35' Above Floor, Add	9.05	
			For Elevated Installation >35' To 40' Above Floor, Add	11.31	
			For Elevated Installation >40' Above Floor, Add	12.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0706	EA	2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	.....	38.42	12.07
		For Work In Restricted Working Space, Add		9.05	
		For Elevated Installation >10' To 15' Above Floor, Add		3.02	
		For Elevated Installation >15' To 20' Above Floor, Add		6.03	
		For Elevated Installation >20' To 25' Above Floor, Add		7.54	
		For Elevated Installation >25' To 30' Above Floor, Add		10.56	
		For Elevated Installation >30' To 35' Above Floor, Add		12.06	
		For Elevated Installation >35' To 40' Above Floor, Add		15.08	
		For Elevated Installation >40' Above Floor, Add		16.59	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.05	
26 05 33 13-0707	EA	3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	.....	48.49	15.07
		For Work In Restricted Working Space, Add		11.31	
		For Elevated Installation >10' To 15' Above Floor, Add		3.77	
		For Elevated Installation >15' To 20' Above Floor, Add		7.54	
		For Elevated Installation >20' To 25' Above Floor, Add		9.42	
		For Elevated Installation >25' To 30' Above Floor, Add		13.19	
		For Elevated Installation >30' To 35' Above Floor, Add		15.08	
		For Elevated Installation >35' To 40' Above Floor, Add		18.85	
		For Elevated Installation >40' Above Floor, Add		20.73	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		11.31	
26 05 33 13-0708	EA	3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	.....	60.63	17.59
		For Work In Restricted Working Space, Add		13.19	
		For Elevated Installation >10' To 15' Above Floor, Add		4.40	
		For Elevated Installation >15' To 20' Above Floor, Add		8.80	
		For Elevated Installation >20' To 25' Above Floor, Add		11.00	
		For Elevated Installation >25' To 30' Above Floor, Add		15.39	
		For Elevated Installation >30' To 35' Above Floor, Add		17.59	
		For Elevated Installation >35' To 40' Above Floor, Add		21.99	
		For Elevated Installation >40' Above Floor, Add		24.19	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.19	
26 05 33 13-0709	EA	4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	.....	68.32	20.10
		For Work In Restricted Working Space, Add		15.08	
		For Elevated Installation >10' To 15' Above Floor, Add		5.03	
		For Elevated Installation >15' To 20' Above Floor, Add		10.05	
		For Elevated Installation >20' To 25' Above Floor, Add		12.57	
		For Elevated Installation >25' To 30' Above Floor, Add		17.59	
		For Elevated Installation >30' To 35' Above Floor, Add		20.10	
		For Elevated Installation >35' To 40' Above Floor, Add		25.13	
		For Elevated Installation >40' Above Floor, Add		27.64	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		15.08	
26 05 33 13-0710 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors (26 05 33 13-0599)					
26 05 33 13-0711	EA	1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	.....	8.99	3.40
		For Work In Restricted Working Space, Add		2.53	
		For Elevated Installation >10' To 15' Above Floor, Add		0.84	
		For Elevated Installation >15' To 20' Above Floor, Add		1.68	
		For Elevated Installation >20' To 25' Above Floor, Add		2.11	
		For Elevated Installation >25' To 30' Above Floor, Add		2.95	
		For Elevated Installation >30' To 35' Above Floor, Add		3.37	
		For Elevated Installation >35' To 40' Above Floor, Add		4.21	
		For Elevated Installation >40' Above Floor, Add		4.63	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		2.53	
26 05 33 13-0712	EA	3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	.....	9.95	3.65
		For Work In Restricted Working Space, Add		2.75	
		For Elevated Installation >10' To 15' Above Floor, Add		0.92	
		For Elevated Installation >15' To 20' Above Floor, Add		1.83	
		For Elevated Installation >20' To 25' Above Floor, Add		2.29	
		For Elevated Installation >25' To 30' Above Floor, Add		3.21	
		For Elevated Installation >30' To 35' Above Floor, Add		3.67	
		For Elevated Installation >35' To 40' Above Floor, Add		4.59	
		For Elevated Installation >40' Above Floor, Add		5.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		2.75	
26 05 33 13-0713	EA	1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	.....	12.35	4.52
		For Work In Restricted Working Space, Add		3.35	
		For Elevated Installation >10' To 15' Above Floor, Add		1.12	
		For Elevated Installation >15' To 20' Above Floor, Add		2.24	
		For Elevated Installation >20' To 25' Above Floor, Add		2.80	
		For Elevated Installation >25' To 30' Above Floor, Add		3.91	
		For Elevated Installation >30' To 35' Above Floor, Add		4.47	
		For Elevated Installation >35' To 40' Above Floor, Add		5.59	
		For Elevated Installation >40' Above Floor, Add		6.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.35	
26 05 33 13-0714	EA	1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	.....	16.50	5.78
		For Work In Restricted Working Space, Add		4.30	
		For Elevated Installation >10' To 15' Above Floor, Add		1.43	
		For Elevated Installation >15' To 20' Above Floor, Add		2.86	
		For Elevated Installation >20' To 25' Above Floor, Add		3.58	
		For Elevated Installation >25' To 30' Above Floor, Add		5.01	
		For Elevated Installation >30' To 35' Above Floor, Add		5.73	
		For Elevated Installation >35' To 40' Above Floor, Add		7.16	
		For Elevated Installation >40' Above Floor, Add		7.88	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.30	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0715	EA	1-1/2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.81 5.02 1.67 3.34 4.18 5.85 6.69 8.36 9.20 5.02	6.65
26 05 33 13-0716	EA	2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.42 6.03 2.01 4.02 5.03 7.04 8.04 10.05 11.06 6.03	8.04
26 05 33 13-0717	EA	2-1/2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.53 8.37 2.79 5.58 6.97 9.76 11.16 13.95 15.34 8.37	11.18
26 05 33 13-0718	EA	3"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.11 11.16 3.72 7.44 9.30 13.02 14.88 18.60 20.45 11.16	14.82
26 05 33 13-0719	EA	3-1/2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.00 14.36 4.79 9.58 11.97 16.76 19.15 23.94 26.33 14.36	19.10
26 05 33 13-0720	EA	4"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.89 18.85 6.28 12.57 15.71 21.99 25.13 31.42 34.56 18.85	25.13
26 05 33 13-0721			Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0599) Note: Excludes jumper.		
26 05 33 13-0722	EA	1/2"	Electrical Metallic Tubing (EMT) Expansion Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	64.92 12.55 4.18 8.36 10.46 14.64 16.73 20.91 23.00	16.71
26 05 33 13-0723	EA	3/4"	Electrical Metallic Tubing (EMT) Expansion Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	78.24 15.21 5.07 10.14 12.67 17.74 20.28 25.35 27.88	20.24

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0724 EA 1" Electrical Metallic Tubing (EMT) Expansion Coupling	96.25	25.39
For Work In Restricted Working Space, Add	19.01	
For Elevated Installation >10' To 15' Above Floor, Add	6.34	
For Elevated Installation >15' To 20' Above Floor, Add	12.67	
For Elevated Installation >20' To 25' Above Floor, Add	15.84	
For Elevated Installation >25' To 30' Above Floor, Add	22.18	
For Elevated Installation >30' To 35' Above Floor, Add	25.34	
For Elevated Installation >35' To 40' Above Floor, Add	31.68	
For Elevated Installation >40' Above Floor, Add	34.85	
26 05 33 13-0725 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling	124.03	31.16
For Work In Restricted Working Space, Add	23.39	
For Elevated Installation >10' To 15' Above Floor, Add	7.80	
For Elevated Installation >15' To 20' Above Floor, Add	15.59	
For Elevated Installation >20' To 25' Above Floor, Add	19.49	
For Elevated Installation >25' To 30' Above Floor, Add	27.28	
For Elevated Installation >30' To 35' Above Floor, Add	31.18	
For Elevated Installation >35' To 40' Above Floor, Add	38.98	
For Elevated Installation >40' Above Floor, Add	42.87	
26 05 33 13-0726 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	153.51	36.56
For Work In Restricted Working Space, Add	27.42	
For Elevated Installation >10' To 15' Above Floor, Add	9.14	
For Elevated Installation >15' To 20' Above Floor, Add	18.28	
For Elevated Installation >20' To 25' Above Floor, Add	22.85	
For Elevated Installation >25' To 30' Above Floor, Add	31.99	
For Elevated Installation >30' To 35' Above Floor, Add	36.56	
For Elevated Installation >35' To 40' Above Floor, Add	45.71	
For Elevated Installation >40' Above Floor, Add	50.28	
26 05 33 13-0727 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling	192.08	44.48
For Work In Restricted Working Space, Add	33.40	
For Elevated Installation >10' To 15' Above Floor, Add	11.13	
For Elevated Installation >15' To 20' Above Floor, Add	22.26	
For Elevated Installation >20' To 25' Above Floor, Add	27.83	
For Elevated Installation >25' To 30' Above Floor, Add	38.96	
For Elevated Installation >30' To 35' Above Floor, Add	44.53	
For Elevated Installation >35' To 40' Above Floor, Add	55.66	
For Elevated Installation >40' Above Floor, Add	61.23	
26 05 33 13-0728 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	359.14	57.17
For Work In Restricted Working Space, Add	42.89	
For Elevated Installation >10' To 15' Above Floor, Add	14.30	
For Elevated Installation >15' To 20' Above Floor, Add	28.59	
For Elevated Installation >20' To 25' Above Floor, Add	35.74	
For Elevated Installation >25' To 30' Above Floor, Add	50.04	
For Elevated Installation >30' To 35' Above Floor, Add	57.19	
For Elevated Installation >35' To 40' Above Floor, Add	71.49	
For Elevated Installation >40' Above Floor, Add	78.63	
26 05 33 13-0729 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling	438.42	66.85
For Work In Restricted Working Space, Add	50.15	
For Elevated Installation >10' To 15' Above Floor, Add	16.72	
For Elevated Installation >15' To 20' Above Floor, Add	33.43	
For Elevated Installation >20' To 25' Above Floor, Add	41.79	
For Elevated Installation >25' To 30' Above Floor, Add	58.51	
For Elevated Installation >30' To 35' Above Floor, Add	66.87	
For Elevated Installation >35' To 40' Above Floor, Add	83.59	
For Elevated Installation >40' Above Floor, Add	91.94	
26 05 33 13-0730 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	535.96	72.88
For Work In Restricted Working Space, Add	54.68	
For Elevated Installation >10' To 15' Above Floor, Add	18.23	
For Elevated Installation >15' To 20' Above Floor, Add	36.45	
For Elevated Installation >20' To 25' Above Floor, Add	45.57	
For Elevated Installation >25' To 30' Above Floor, Add	63.79	
For Elevated Installation >30' To 35' Above Floor, Add	72.90	
For Elevated Installation >35' To 40' Above Floor, Add	91.13	
For Elevated Installation >40' Above Floor, Add	100.24	
26 05 33 13-0731 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling	580.51	80.42
For Work In Restricted Working Space, Add	60.33	
For Elevated Installation >10' To 15' Above Floor, Add	20.11	
For Elevated Installation >15' To 20' Above Floor, Add	40.22	
For Elevated Installation >20' To 25' Above Floor, Add	50.28	
For Elevated Installation >25' To 30' Above Floor, Add	70.39	
For Elevated Installation >30' To 35' Above Floor, Add	80.44	
For Elevated Installation >35' To 40' Above Floor, Add	100.56	
For Elevated Installation >40' Above Floor, Add	110.61	
26 05 33 13-0732 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters		
(26 05 33 13-0599)		
26 05 33 13-0733 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	12.54	4.52
For Work In Restricted Working Space, Add	3.35	
For Elevated Installation >10' To 15' Above Floor, Add	1.12	
For Elevated Installation >15' To 20' Above Floor, Add	2.23	
For Elevated Installation >20' To 25' Above Floor, Add	2.79	
For Elevated Installation >25' To 30' Above Floor, Add	3.90	
For Elevated Installation >30' To 35' Above Floor, Add	4.46	
For Elevated Installation >35' To 40' Above Floor, Add	5.58	
For Elevated Installation >40' Above Floor, Add	6.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.35	



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Common Work Results for Electrical		26 05
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0734 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	13.30	4.52
For Work In Restricted Working Space, Add	3.35	
For Elevated Installation >10' To 15' Above Floor, Add	1.12	
For Elevated Installation >15' To 20' Above Floor, Add	2.23	
For Elevated Installation >20' To 25' Above Floor, Add	2.79	
For Elevated Installation >25' To 30' Above Floor, Add	3.90	
For Elevated Installation >30' To 35' Above Floor, Add	4.46	
For Elevated Installation >35' To 40' Above Floor, Add	5.58	
For Elevated Installation >40' Above Floor, Add	6.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.35	
26 05 33 13-0735 EA 3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	14.87	4.90
For Work In Restricted Working Space, Add	3.72	
For Elevated Installation >10' To 15' Above Floor, Add	1.24	
For Elevated Installation >15' To 20' Above Floor, Add	2.48	
For Elevated Installation >20' To 25' Above Floor, Add	3.10	
For Elevated Installation >25' To 30' Above Floor, Add	4.34	
For Elevated Installation >30' To 35' Above Floor, Add	4.96	
For Elevated Installation >35' To 40' Above Floor, Add	6.20	
For Elevated Installation >40' Above Floor, Add	6.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.72	
26 05 33 13-0736 EA 1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	17.27	5.65
For Work In Restricted Working Space, Add	4.23	
For Elevated Installation >10' To 15' Above Floor, Add	1.41	
For Elevated Installation >15' To 20' Above Floor, Add	2.82	
For Elevated Installation >20' To 25' Above Floor, Add	3.53	
For Elevated Installation >25' To 30' Above Floor, Add	4.94	
For Elevated Installation >30' To 35' Above Floor, Add	5.64	
For Elevated Installation >35' To 40' Above Floor, Add	7.06	
For Elevated Installation >40' Above Floor, Add	7.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.23	
26 05 33 13-0737 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	24.23	6.79
For Work In Restricted Working Space, Add	5.12	
For Elevated Installation >10' To 15' Above Floor, Add	1.71	
For Elevated Installation >15' To 20' Above Floor, Add	3.41	
For Elevated Installation >20' To 25' Above Floor, Add	4.27	
For Elevated Installation >25' To 30' Above Floor, Add	5.97	
For Elevated Installation >30' To 35' Above Floor, Add	6.82	
For Elevated Installation >35' To 40' Above Floor, Add	8.53	
For Elevated Installation >40' Above Floor, Add	9.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12	
26 05 33 13-0738 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	29.48	7.79
For Work In Restricted Working Space, Add	5.85	
For Elevated Installation >10' To 15' Above Floor, Add	1.95	
For Elevated Installation >15' To 20' Above Floor, Add	3.90	
For Elevated Installation >20' To 25' Above Floor, Add	4.88	
For Elevated Installation >25' To 30' Above Floor, Add	6.83	
For Elevated Installation >30' To 35' Above Floor, Add	7.80	
For Elevated Installation >35' To 40' Above Floor, Add	9.75	
For Elevated Installation >40' Above Floor, Add	10.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.85	
26 05 33 13-0739 EA 2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	38.28	9.80
For Work In Restricted Working Space, Add	7.31	
For Elevated Installation >10' To 15' Above Floor, Add	2.44	
For Elevated Installation >15' To 20' Above Floor, Add	4.87	
For Elevated Installation >20' To 25' Above Floor, Add	6.09	
For Elevated Installation >25' To 30' Above Floor, Add	8.53	
For Elevated Installation >30' To 35' Above Floor, Add	9.75	
For Elevated Installation >35' To 40' Above Floor, Add	12.19	
For Elevated Installation >40' Above Floor, Add	13.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-0740 Electrical Metallic Tubing (EMT) Pulling Elbows (26 05 33 13-0599)		
26 05 33 13-0741 EA 1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	26.24	11.31
For Work In Restricted Working Space, Add	6.79	
For Elevated Installation >15' To 20' Above Floor, Add	4.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 33 13-0742 EA 3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	30.59	13.19
For Work In Restricted Working Space, Add	7.92	
For Elevated Installation >15' To 20' Above Floor, Add	5.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	
26 05 33 13-0743 EA 1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	37.66	15.07
For Work In Restricted Working Space, Add	9.05	
For Elevated Installation >15' To 20' Above Floor, Add	6.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.05	
26 05 33 13-0744 EA 1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	48.01	18.85
For Work In Restricted Working Space, Add	11.31	
For Elevated Installation >15' To 20' Above Floor, Add	7.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 05 33 13-0745 Intermediate Metal Conduit (IMC) (26 05 33 13-0059)		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0746 Intermediate Metal Conduit (IMC) Conduit (26 05 33 13-0745)		
Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2319 for field bending >1".		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0747 LF 1/2" Intermediate Metal Conduit (IMC) Conduit	9.14	2.52
For >250 To 500, Deduct	-0.13	
For >500 To 1,000, Deduct	-0.20	
For >1,000, Deduct	-0.26	
For Installation In Metal Stud Wall, Add	0.65	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.63	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.98	
For Work In Restricted Working Space, Add	1.96	
For Elevated Installation >10' To 15' Above Floor, Add	0.65	
For Elevated Installation >15' To 20' Above Floor, Add	1.31	
For Elevated Installation >20' To 25' Above Floor, Add	1.63	
For Elevated Installation >25' To 30' Above Floor, Add	2.29	
For Elevated Installation >30' To 35' Above Floor, Add	2.61	
For Elevated Installation >35' To 40' Above Floor, Add	3.27	
For Elevated Installation >40' Above Floor, Add	3.59	
26 05 33 13-0748 LF 3/4" Intermediate Metal Conduit (IMC) Conduit	10.90	2.77
For >250 To 500, Deduct	-0.16	
For >500 To 1,000, Deduct	-0.23	
For >1,000, Deduct	-0.31	
For Installation In Metal Stud Wall, Add	0.78	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.95	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.17	
For Work In Restricted Working Space, Add	2.34	
For Elevated Installation >10' To 15' Above Floor, Add	0.78	
For Elevated Installation >15' To 20' Above Floor, Add	1.56	
For Elevated Installation >20' To 25' Above Floor, Add	1.95	
For Elevated Installation >25' To 30' Above Floor, Add	2.73	
For Elevated Installation >30' To 35' Above Floor, Add	3.12	
For Elevated Installation >35' To 40' Above Floor, Add	3.90	
For Elevated Installation >40' Above Floor, Add	4.28	
26 05 33 13-0749 LF 1" Intermediate Metal Conduit (IMC) Conduit	14.61	3.02
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.36	
For >1,000, Deduct	-0.48	
For Installation In Metal Stud Wall, Add	0.98	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.45	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.47	
For Work In Restricted Working Space, Add	2.94	
For Elevated Installation >10' To 15' Above Floor, Add	0.98	
For Elevated Installation >15' To 20' Above Floor, Add	1.96	
For Elevated Installation >20' To 25' Above Floor, Add	2.45	
For Elevated Installation >25' To 30' Above Floor, Add	3.43	
For Elevated Installation >30' To 35' Above Floor, Add	3.92	
For Elevated Installation >35' To 40' Above Floor, Add	4.90	
For Elevated Installation >40' Above Floor, Add	5.39	
26 05 33 13-0750 LF 1-1/4" Intermediate Metal Conduit (IMC) Conduit	16.89	6.03
For >250 To 500, Deduct	-0.30	
For >500 To 1,000, Deduct	-0.46	
For >1,000, Deduct	-0.61	
For Installation In Metal Stud Wall, Add	1.08	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.70	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.62	
For Work In Restricted Working Space, Add	3.24	
For Elevated Installation >10' To 15' Above Floor, Add	1.08	
For Elevated Installation >15' To 20' Above Floor, Add	2.16	
For Elevated Installation >20' To 25' Above Floor, Add	2.70	
For Elevated Installation >25' To 30' Above Floor, Add	3.78	
For Elevated Installation >30' To 35' Above Floor, Add	4.32	
For Elevated Installation >35' To 40' Above Floor, Add	5.40	
For Elevated Installation >40' Above Floor, Add	5.94	
26 05 33 13-0751 LF 1-1/2" Intermediate Metal Conduit (IMC) Conduit	19.01	4.02
For >250 To 500, Deduct	-0.36	
For >500 To 1,000, Deduct	-0.54	
For >1,000, Deduct	-0.72	
For Installation In Metal Stud Wall, Add	1.18	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.96	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.77	
For Work In Restricted Working Space, Add	3.55	
For Elevated Installation >10' To 15' Above Floor, Add	1.18	
For Elevated Installation >15' To 20' Above Floor, Add	2.36	
For Elevated Installation >20' To 25' Above Floor, Add	2.96	
For Elevated Installation >25' To 30' Above Floor, Add	4.14	
For Elevated Installation >30' To 35' Above Floor, Add	4.73	
For Elevated Installation >35' To 40' Above Floor, Add	5.91	
For Elevated Installation >40' Above Floor, Add	6.50	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0752 LF 2" Intermediate Metal Conduit (IMC) Conduit	24.07	4.52
For >250 To 500, Deduct	-0.49	
For >500 To 1,000, Deduct	-0.73	
For >1,000, Deduct	-0.98	
For Installation In Metal Stud Wall, Add	1.43	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.58	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.15	
For Work In Restricted Working Space, Add	4.30	
For Elevated Installation >10' To 15' Above Floor, Add	1.43	
For Elevated Installation >15' To 20' Above Floor, Add	2.86	
For Elevated Installation >20' To 25' Above Floor, Add	3.58	
For Elevated Installation >25' To 30' Above Floor, Add	5.01	
For Elevated Installation >30' To 35' Above Floor, Add	5.73	
For Elevated Installation >35' To 40' Above Floor, Add	7.16	
For Elevated Installation >40' Above Floor, Add	7.88	
26 05 33 13-0753 LF 2-1/2" Intermediate Metal Conduit (IMC) Conduit	40.58	6.03
For >250 To 500, Deduct	-1.08	
For >500 To 1,000, Deduct	-1.62	
For >1,000, Deduct	-2.16	
For Installation In Metal Stud Wall, Add	1.90	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.74	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.85	
For Work In Restricted Working Space, Add	5.69	
For Elevated Installation >10' To 15' Above Floor, Add	1.90	
For Elevated Installation >15' To 20' Above Floor, Add	3.79	
For Elevated Installation >20' To 25' Above Floor, Add	4.74	
For Elevated Installation >25' To 30' Above Floor, Add	6.64	
For Elevated Installation >30' To 35' Above Floor, Add	7.59	
For Elevated Installation >35' To 40' Above Floor, Add	9.49	
For Elevated Installation >40' Above Floor, Add	10.43	
26 05 33 13-0754 LF 3" Intermediate Metal Conduit (IMC) Conduit	51.73	7.54
For >250 To 500, Deduct	-1.33	
For >500 To 1,000, Deduct	-2.00	
For >1,000, Deduct	-2.66	
For Installation In Metal Stud Wall, Add	2.51	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.28	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	3.77	
For Work In Restricted Working Space, Add	7.54	
For Elevated Installation >10' To 15' Above Floor, Add	2.51	
For Elevated Installation >15' To 20' Above Floor, Add	5.03	
For Elevated Installation >20' To 25' Above Floor, Add	6.28	
For Elevated Installation >25' To 30' Above Floor, Add	8.80	
For Elevated Installation >30' To 35' Above Floor, Add	10.05	
For Elevated Installation >35' To 40' Above Floor, Add	12.57	
For Elevated Installation >40' Above Floor, Add	13.82	
26 05 33 13-0755 LF 3-1/2" Intermediate Metal Conduit (IMC) Conduit	59.58	9.05
For >250 To 500, Deduct	-1.54	
For >500 To 1,000, Deduct	-2.31	
For >1,000, Deduct	-3.08	
For Installation In Metal Stud Wall, Add	2.88	
For Installation In Wood Stud Wall (Includes Drilling), Add	7.19	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	4.32	
For Work In Restricted Working Space, Add	8.63	
For Elevated Installation >10' To 15' Above Floor, Add	2.88	
For Elevated Installation >15' To 20' Above Floor, Add	5.75	
For Elevated Installation >20' To 25' Above Floor, Add	7.19	
For Elevated Installation >25' To 30' Above Floor, Add	10.07	
For Elevated Installation >30' To 35' Above Floor, Add	11.51	
For Elevated Installation >35' To 40' Above Floor, Add	14.39	
For Elevated Installation >40' Above Floor, Add	15.82	
26 05 33 13-0756 LF 4" Intermediate Metal Conduit (IMC) Conduit	69.81	10.55
For >250 To 500, Deduct	-1.81	
For >500 To 1,000, Deduct	-2.72	
For >1,000, Deduct	-3.63	
For Installation In Metal Stud Wall, Add	3.36	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.39	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	5.03	
For Work In Restricted Working Space, Add	10.07	
For Elevated Installation >10' To 15' Above Floor, Add	3.36	
For Elevated Installation >15' To 20' Above Floor, Add	6.71	
For Elevated Installation >20' To 25' Above Floor, Add	8.39	
For Elevated Installation >25' To 30' Above Floor, Add	11.74	
For Elevated Installation >30' To 35' Above Floor, Add	13.42	
For Elevated Installation >35' To 40' Above Floor, Add	16.78	
For Elevated Installation >40' Above Floor, Add	18.45	

26 05 33 13-0757 Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0745)
See CSI section 26 05 33 13-2319 for conduit field bending.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0758 EA 1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	42.61	12.44
For Work In Restricted Working Space, Add	9.36	
For Elevated Installation >10' To 15' Above Floor, Add	3.12	
For Elevated Installation >15' To 20' Above Floor, Add	6.24	
For Elevated Installation >20' To 25' Above Floor, Add	7.80	
For Elevated Installation >25' To 30' Above Floor, Add	10.92	
For Elevated Installation >30' To 35' Above Floor, Add	12.48	
For Elevated Installation >35' To 40' Above Floor, Add	15.60	
For Elevated Installation >40' Above Floor, Add	17.16	
26 05 33 13-0759 EA 3/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	51.60	15.45
For Work In Restricted Working Space, Add	11.64	
For Elevated Installation >10' To 15' Above Floor, Add	3.88	
For Elevated Installation >15' To 20' Above Floor, Add	7.76	
For Elevated Installation >20' To 25' Above Floor, Add	9.70	
For Elevated Installation >25' To 30' Above Floor, Add	13.58	
For Elevated Installation >30' To 35' Above Floor, Add	15.52	
For Elevated Installation >35' To 40' Above Floor, Add	19.40	
For Elevated Installation >40' Above Floor, Add	21.33	
26 05 33 13-0760 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow	65.51	18.97
For Work In Restricted Working Space, Add	14.19	
For Elevated Installation >10' To 15' Above Floor, Add	4.73	
For Elevated Installation >15' To 20' Above Floor, Add	9.46	
For Elevated Installation >20' To 25' Above Floor, Add	11.83	
For Elevated Installation >25' To 30' Above Floor, Add	16.56	
For Elevated Installation >30' To 35' Above Floor, Add	18.92	
For Elevated Installation >35' To 40' Above Floor, Add	23.66	
For Elevated Installation >40' Above Floor, Add	26.02	
26 05 33 13-0761 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	80.45	21.99
For Work In Restricted Working Space, Add	16.48	
For Elevated Installation >10' To 15' Above Floor, Add	5.49	
For Elevated Installation >15' To 20' Above Floor, Add	10.99	
For Elevated Installation >20' To 25' Above Floor, Add	13.73	
For Elevated Installation >25' To 30' Above Floor, Add	19.23	
For Elevated Installation >30' To 35' Above Floor, Add	21.97	
For Elevated Installation >35' To 40' Above Floor, Add	27.47	
For Elevated Installation >40' Above Floor, Add	30.21	
26 05 33 13-0762 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	95.32	25.26
For Work In Restricted Working Space, Add	18.91	
For Elevated Installation >10' To 15' Above Floor, Add	6.30	
For Elevated Installation >15' To 20' Above Floor, Add	12.61	
For Elevated Installation >20' To 25' Above Floor, Add	15.76	
For Elevated Installation >25' To 30' Above Floor, Add	22.06	
For Elevated Installation >30' To 35' Above Floor, Add	25.22	
For Elevated Installation >35' To 40' Above Floor, Add	31.52	
For Elevated Installation >40' Above Floor, Add	34.67	
26 05 33 13-0763 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	115.82	27.77
For Work In Restricted Working Space, Add	20.81	
For Elevated Installation >10' To 15' Above Floor, Add	6.94	
For Elevated Installation >15' To 20' Above Floor, Add	13.87	
For Elevated Installation >20' To 25' Above Floor, Add	17.34	
For Elevated Installation >25' To 30' Above Floor, Add	24.27	
For Elevated Installation >30' To 35' Above Floor, Add	27.74	
For Elevated Installation >35' To 40' Above Floor, Add	34.68	
For Elevated Installation >40' Above Floor, Add	38.14	
26 05 33 13-0764 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	165.59	34.68
For Work In Restricted Working Space, Add	26.01	
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.34	
For Elevated Installation >20' To 25' Above Floor, Add	21.67	
For Elevated Installation >25' To 30' Above Floor, Add	30.34	
For Elevated Installation >30' To 35' Above Floor, Add	34.68	
For Elevated Installation >35' To 40' Above Floor, Add	43.35	
For Elevated Installation >40' Above Floor, Add	47.68	
26 05 33 13-0765 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow	238.89	47.25
For Work In Restricted Working Space, Add	35.43	
For Elevated Installation >10' To 15' Above Floor, Add	11.81	
For Elevated Installation >15' To 20' Above Floor, Add	23.62	
For Elevated Installation >20' To 25' Above Floor, Add	29.53	
For Elevated Installation >25' To 30' Above Floor, Add	41.34	
For Elevated Installation >30' To 35' Above Floor, Add	47.24	
For Elevated Installation >35' To 40' Above Floor, Add	59.05	
For Elevated Installation >40' Above Floor, Add	64.96	
26 05 33 13-0766 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	346.45	53.28
For Work In Restricted Working Space, Add	39.96	
For Elevated Installation >10' To 15' Above Floor, Add	13.32	
For Elevated Installation >15' To 20' Above Floor, Add	26.64	
For Elevated Installation >20' To 25' Above Floor, Add	33.30	
For Elevated Installation >25' To 30' Above Floor, Add	46.62	
For Elevated Installation >30' To 35' Above Floor, Add	53.28	
For Elevated Installation >35' To 40' Above Floor, Add	66.61	
For Elevated Installation >40' Above Floor, Add	73.27	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0767	EA		4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	420.73	69.37
			For Work In Restricted Working Space, Add	52.01	
			For Elevated Installation >10' To 15' Above Floor, Add	17.34	
			For Elevated Installation >15' To 20' Above Floor, Add	34.67	
			For Elevated Installation >20' To 25' Above Floor, Add	43.34	
			For Elevated Installation >25' To 30' Above Floor, Add	60.68	
			For Elevated Installation >30' To 35' Above Floor, Add	69.35	
			For Elevated Installation >35' To 40' Above Floor, Add	86.69	
			For Elevated Installation >40' Above Floor, Add	95.35	
26 05 33 13-0768			Intermediate Metal Conduit (IMC) Bushing Sets With Locknut (26 05 33 13-0745)		
26 05 33 13-0769	EA		1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	17.13	6.53
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33 13-0770	EA		3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	20.19	0.75
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33 13-0771	EA		1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	26.12	9.55
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-0772	EA		1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	31.90	11.56
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.67	
26 05 33 13-0773	EA		1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	35.69	12.57
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-0774	EA		2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	46.01	15.58
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.69	
26 05 33 13-0775	EA		2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	84.83	25.13
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85	
26 05 33 13-0776	EA		3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	105.01	34.18
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.64	
26 05 33 13-0777	EA		3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	137.15	40.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.54	
26 05 33 13-0778	EA		4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	161.84	47.25
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.43	
26 05 33 13-0779			Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings (26 05 33 13-0745)		
			Note: 3-Piece coupling.		
26 05 33 13-0780	EA		1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	56.44	20.10
			For Work In Restricted Working Space, Add	15.10	
			For Elevated Installation >10' To 15' Above Floor, Add	5.03	
			For Elevated Installation >15' To 20' Above Floor, Add	10.06	
			For Elevated Installation >20' To 25' Above Floor, Add	12.58	
			For Elevated Installation >25' To 30' Above Floor, Add	17.61	
			For Elevated Installation >30' To 35' Above Floor, Add	20.13	
			For Elevated Installation >35' To 40' Above Floor, Add	25.16	
			For Elevated Installation >40' Above Floor, Add	27.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.10	
26 05 33 13-0781	EA		3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	64.04	22.49
			For Work In Restricted Working Space, Add	16.85	
			For Elevated Installation >10' To 15' Above Floor, Add	5.62	
			For Elevated Installation >15' To 20' Above Floor, Add	11.23	
			For Elevated Installation >20' To 25' Above Floor, Add	14.04	
			For Elevated Installation >25' To 30' Above Floor, Add	19.66	
			For Elevated Installation >30' To 35' Above Floor, Add	22.46	
			For Elevated Installation >35' To 40' Above Floor, Add	28.08	
			For Elevated Installation >40' Above Floor, Add	30.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.85	
26 05 33 13-0782	EA		1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	77.76	25.01
			For Work In Restricted Working Space, Add	18.77	
			For Elevated Installation >10' To 15' Above Floor, Add	6.26	
			For Elevated Installation >15' To 20' Above Floor, Add	12.51	
			For Elevated Installation >20' To 25' Above Floor, Add	15.64	
			For Elevated Installation >25' To 30' Above Floor, Add	21.90	
			For Elevated Installation >30' To 35' Above Floor, Add	25.02	
			For Elevated Installation >35' To 40' Above Floor, Add	31.28	
			For Elevated Installation >40' Above Floor, Add	34.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.77	
26 05 33 13-0783	EA		1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	96.42	27.39
			For Work In Restricted Working Space, Add	20.54	
			For Elevated Installation >10' To 15' Above Floor, Add	6.85	
			For Elevated Installation >15' To 20' Above Floor, Add	13.69	
			For Elevated Installation >20' To 25' Above Floor, Add	17.12	
			For Elevated Installation >25' To 30' Above Floor, Add	23.96	
			For Elevated Installation >30' To 35' Above Floor, Add	27.38	
			For Elevated Installation >35' To 40' Above Floor, Add	34.23	
			For Elevated Installation >40' Above Floor, Add	37.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.54	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0784 EA 1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	110.00	29.91
For Work In Restricted Working Space, Add	22.47	
For Elevated Installation >10' To 15' Above Floor, Add	7.49	
For Elevated Installation >15' To 20' Above Floor, Add	14.98	
For Elevated Installation >20' To 25' Above Floor, Add	18.73	
For Elevated Installation >25' To 30' Above Floor, Add	26.22	
For Elevated Installation >30' To 35' Above Floor, Add	29.96	
For Elevated Installation >35' To 40' Above Floor, Add	37.45	
For Elevated Installation >40' Above Floor, Add	41.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.47	
26 05 33 13-0785 EA 2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	151.30	32.42
For Work In Restricted Working Space, Add	24.33	
For Elevated Installation >10' To 15' Above Floor, Add	8.11	
For Elevated Installation >15' To 20' Above Floor, Add	16.22	
For Elevated Installation >20' To 25' Above Floor, Add	20.28	
For Elevated Installation >25' To 30' Above Floor, Add	28.39	
For Elevated Installation >30' To 35' Above Floor, Add	32.44	
For Elevated Installation >35' To 40' Above Floor, Add	40.56	
For Elevated Installation >40' Above Floor, Add	44.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.33	
26 05 33 13-0786 EA 2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	250.66	40.21
For Work In Restricted Working Space, Add	30.16	
For Elevated Installation >10' To 15' Above Floor, Add	10.05	
For Elevated Installation >15' To 20' Above Floor, Add	20.10	
For Elevated Installation >20' To 25' Above Floor, Add	25.13	
For Elevated Installation >25' To 30' Above Floor, Add	35.18	
For Elevated Installation >30' To 35' Above Floor, Add	40.21	
For Elevated Installation >35' To 40' Above Floor, Add	50.26	
For Elevated Installation >40' Above Floor, Add	55.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.16	
26 05 33 13-0787 EA 3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	354.61	50.26
For Work In Restricted Working Space, Add	37.70	
For Elevated Installation >10' To 15' Above Floor, Add	12.57	
For Elevated Installation >15' To 20' Above Floor, Add	25.13	
For Elevated Installation >20' To 25' Above Floor, Add	31.41	
For Elevated Installation >25' To 30' Above Floor, Add	43.98	
For Elevated Installation >30' To 35' Above Floor, Add	50.26	
For Elevated Installation >35' To 40' Above Floor, Add	62.83	
For Elevated Installation >40' Above Floor, Add	69.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.70	
26 05 33 13-0788 EA 3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	518.68	60.32
For Work In Restricted Working Space, Add	45.25	
For Elevated Installation >10' To 15' Above Floor, Add	15.08	
For Elevated Installation >15' To 20' Above Floor, Add	30.17	
For Elevated Installation >20' To 25' Above Floor, Add	37.71	
For Elevated Installation >25' To 30' Above Floor, Add	52.79	
For Elevated Installation >30' To 35' Above Floor, Add	60.34	
For Elevated Installation >35' To 40' Above Floor, Add	75.42	
For Elevated Installation >40' Above Floor, Add	82.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.25	
26 05 33 13-0789 EA 4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	598.75	65.34
For Work In Restricted Working Space, Add	49.00	
For Elevated Installation >10' To 15' Above Floor, Add	16.33	
For Elevated Installation >15' To 20' Above Floor, Add	32.67	
For Elevated Installation >20' To 25' Above Floor, Add	40.84	
For Elevated Installation >25' To 30' Above Floor, Add	57.17	
For Elevated Installation >30' To 35' Above Floor, Add	65.34	
For Elevated Installation >35' To 40' Above Floor, Add	81.67	
For Elevated Installation >40' Above Floor, Add	89.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.00	
26 05 33 13-0790 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0745)		
26 05 33 13-0791 EA 1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	31.79	10.05
For Work In Restricted Working Space, Add	7.54	
For Elevated Installation >10' To 15' Above Floor, Add	2.51	
For Elevated Installation >15' To 20' Above Floor, Add	5.03	
For Elevated Installation >20' To 25' Above Floor, Add	6.28	
For Elevated Installation >25' To 30' Above Floor, Add	8.80	
For Elevated Installation >30' To 35' Above Floor, Add	10.05	
For Elevated Installation >35' To 40' Above Floor, Add	12.57	
For Elevated Installation >40' Above Floor, Add	13.82	
26 05 33 13-0792 EA 3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	35.52	11.05
For Work In Restricted Working Space, Add	8.29	
For Elevated Installation >10' To 15' Above Floor, Add	2.76	
For Elevated Installation >15' To 20' Above Floor, Add	5.53	
For Elevated Installation >20' To 25' Above Floor, Add	6.91	
For Elevated Installation >25' To 30' Above Floor, Add	9.67	
For Elevated Installation >30' To 35' Above Floor, Add	11.06	
For Elevated Installation >35' To 40' Above Floor, Add	13.82	
For Elevated Installation >40' Above Floor, Add	15.20	



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0793	EA 1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	40.80		12.57
	For Work In Restricted Working Space, Add	9.43		
	For Elevated Installation >10' To 15' Above Floor, Add	3.14		
	For Elevated Installation >15' To 20' Above Floor, Add	6.28		
	For Elevated Installation >20' To 25' Above Floor, Add	7.86		
	For Elevated Installation >25' To 30' Above Floor, Add	11.00		
	For Elevated Installation >30' To 35' Above Floor, Add	12.57		
	For Elevated Installation >35' To 40' Above Floor, Add	15.71		
	For Elevated Installation >40' Above Floor, Add	17.28		
26 05 33 13-0794	EA 1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	46.32		13.57
	For Work In Restricted Working Space, Add	10.18		
	For Elevated Installation >10' To 15' Above Floor, Add	3.39		
	For Elevated Installation >15' To 20' Above Floor, Add	6.79		
	For Elevated Installation >20' To 25' Above Floor, Add	8.48		
	For Elevated Installation >25' To 30' Above Floor, Add	11.88		
	For Elevated Installation >30' To 35' Above Floor, Add	13.57		
	For Elevated Installation >35' To 40' Above Floor, Add	16.97		
	For Elevated Installation >40' Above Floor, Add	18.66		
26 05 33 13-0795	EA 1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	54.96		15.07
	For Work In Restricted Working Space, Add	11.31		
	For Elevated Installation >10' To 15' Above Floor, Add	3.77		
	For Elevated Installation >15' To 20' Above Floor, Add	7.54		
	For Elevated Installation >20' To 25' Above Floor, Add	9.42		
	For Elevated Installation >25' To 30' Above Floor, Add	13.19		
	For Elevated Installation >30' To 35' Above Floor, Add	15.08		
	For Elevated Installation >35' To 40' Above Floor, Add	18.85		
	For Elevated Installation >40' Above Floor, Add	20.73		
26 05 33 13-0796	EA 2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	66.99		16.59
	For Work In Restricted Working Space, Add	12.44		
	For Elevated Installation >10' To 15' Above Floor, Add	4.15		
	For Elevated Installation >15' To 20' Above Floor, Add	8.29		
	For Elevated Installation >20' To 25' Above Floor, Add	10.37		
	For Elevated Installation >25' To 30' Above Floor, Add	14.51		
	For Elevated Installation >30' To 35' Above Floor, Add	16.59		
	For Elevated Installation >35' To 40' Above Floor, Add	20.74		
	For Elevated Installation >40' Above Floor, Add	22.81		
26 05 33 13-0797	EA 2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	91.17		20.10
	For Work In Restricted Working Space, Add	15.08		
	For Elevated Installation >10' To 15' Above Floor, Add	5.03		
	For Elevated Installation >15' To 20' Above Floor, Add	10.05		
	For Elevated Installation >20' To 25' Above Floor, Add	12.57		
	For Elevated Installation >25' To 30' Above Floor, Add	17.59		
	For Elevated Installation >30' To 35' Above Floor, Add	20.10		
	For Elevated Installation >35' To 40' Above Floor, Add	25.13		
	For Elevated Installation >40' Above Floor, Add	27.64		
26 05 33 13-0798	EA 3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	112.75		25.13
	For Work In Restricted Working Space, Add	18.85		
	For Elevated Installation >10' To 15' Above Floor, Add	6.28		
	For Elevated Installation >15' To 20' Above Floor, Add	12.57		
	For Elevated Installation >20' To 25' Above Floor, Add	15.71		
	For Elevated Installation >25' To 30' Above Floor, Add	21.99		
	For Elevated Installation >30' To 35' Above Floor, Add	25.13		
	For Elevated Installation >35' To 40' Above Floor, Add	31.42		
	For Elevated Installation >40' Above Floor, Add	34.56		
26 05 33 13-0799	EA 3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	135.45		30.16
	For Work In Restricted Working Space, Add	22.62		
	For Elevated Installation >10' To 15' Above Floor, Add	7.54		
	For Elevated Installation >15' To 20' Above Floor, Add	15.08		
	For Elevated Installation >20' To 25' Above Floor, Add	18.85		
	For Elevated Installation >25' To 30' Above Floor, Add	26.39		
	For Elevated Installation >30' To 35' Above Floor, Add	30.16		
	For Elevated Installation >35' To 40' Above Floor, Add	37.70		
	For Elevated Installation >40' Above Floor, Add	41.46		
26 05 33 13-0800	EA 4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	152.99		32.67
	For Work In Restricted Working Space, Add	24.50		
	For Elevated Installation >10' To 15' Above Floor, Add	8.17		
	For Elevated Installation >15' To 20' Above Floor, Add	16.33		
	For Elevated Installation >20' To 25' Above Floor, Add	20.42		
	For Elevated Installation >25' To 30' Above Floor, Add	28.58		
	For Elevated Installation >30' To 35' Above Floor, Add	32.67		
	For Elevated Installation >35' To 40' Above Floor, Add	40.84		
	For Elevated Installation >40' Above Floor, Add	44.92		

26 05 33 13-0801 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs (26 05 33 13-0745)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0802 EA 1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	27.92	10.05
For Work In Restricted Working Space, Add	7.54	
For Elevated Installation >10' To 15' Above Floor, Add	2.51	
For Elevated Installation >15' To 20' Above Floor, Add	5.03	
For Elevated Installation >20' To 25' Above Floor, Add	6.29	
For Elevated Installation >25' To 30' Above Floor, Add	8.80	
For Elevated Installation >30' To 35' Above Floor, Add	10.06	
For Elevated Installation >35' To 40' Above Floor, Add	12.57	
For Elevated Installation >40' Above Floor, Add	13.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.54	
26 05 33 13-0803 EA 3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	35.58	12.57
For Work In Restricted Working Space, Add	9.42	
For Elevated Installation >10' To 15' Above Floor, Add	3.14	
For Elevated Installation >15' To 20' Above Floor, Add	6.28	
For Elevated Installation >20' To 25' Above Floor, Add	7.85	
For Elevated Installation >25' To 30' Above Floor, Add	10.99	
For Elevated Installation >30' To 35' Above Floor, Add	12.56	
For Elevated Installation >35' To 40' Above Floor, Add	15.71	
For Elevated Installation >40' Above Floor, Add	17.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-0804 EA 1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	43.86	15.07
For Work In Restricted Working Space, Add	11.31	
For Elevated Installation >10' To 15' Above Floor, Add	3.77	
For Elevated Installation >15' To 20' Above Floor, Add	7.54	
For Elevated Installation >20' To 25' Above Floor, Add	9.43	
For Elevated Installation >25' To 30' Above Floor, Add	13.20	
For Elevated Installation >30' To 35' Above Floor, Add	15.08	
For Elevated Installation >35' To 40' Above Floor, Add	18.85	
For Elevated Installation >40' Above Floor, Add	20.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 05 33 13-0805 EA 1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	52.69	17.59
For Work In Restricted Working Space, Add	13.19	
For Elevated Installation >10' To 15' Above Floor, Add	4.40	
For Elevated Installation >15' To 20' Above Floor, Add	8.80	
For Elevated Installation >20' To 25' Above Floor, Add	11.00	
For Elevated Installation >25' To 30' Above Floor, Add	15.39	
For Elevated Installation >30' To 35' Above Floor, Add	17.59	
For Elevated Installation >35' To 40' Above Floor, Add	21.99	
For Elevated Installation >40' Above Floor, Add	24.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.19	
26 05 33 13-0806 EA 1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	61.48	20.10
For Work In Restricted Working Space, Add	15.08	
For Elevated Installation >10' To 15' Above Floor, Add	5.03	
For Elevated Installation >15' To 20' Above Floor, Add	10.05	
For Elevated Installation >20' To 25' Above Floor, Add	12.57	
For Elevated Installation >25' To 30' Above Floor, Add	17.59	
For Elevated Installation >30' To 35' Above Floor, Add	20.10	
For Elevated Installation >35' To 40' Above Floor, Add	25.13	
For Elevated Installation >40' Above Floor, Add	27.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-0807 EA 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	72.76	22.62
For Work In Restricted Working Space, Add	16.96	
For Elevated Installation >10' To 15' Above Floor, Add	5.65	
For Elevated Installation >15' To 20' Above Floor, Add	11.31	
For Elevated Installation >20' To 25' Above Floor, Add	14.14	
For Elevated Installation >25' To 30' Above Floor, Add	19.79	
For Elevated Installation >30' To 35' Above Floor, Add	22.62	
For Elevated Installation >35' To 40' Above Floor, Add	28.27	
For Elevated Installation >40' Above Floor, Add	31.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.96	
26 05 33 13-0808 EA 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	90.01	25.13
For Work In Restricted Working Space, Add	18.85	
For Elevated Installation >10' To 15' Above Floor, Add	6.28	
For Elevated Installation >15' To 20' Above Floor, Add	12.57	
For Elevated Installation >20' To 25' Above Floor, Add	15.71	
For Elevated Installation >25' To 30' Above Floor, Add	21.99	
For Elevated Installation >30' To 35' Above Floor, Add	25.13	
For Elevated Installation >35' To 40' Above Floor, Add	31.42	
For Elevated Installation >40' Above Floor, Add	34.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85	
26 05 33 13-0809 EA 3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	105.70	27.64
For Work In Restricted Working Space, Add	20.73	
For Elevated Installation >10' To 15' Above Floor, Add	6.91	
For Elevated Installation >15' To 20' Above Floor, Add	13.82	
For Elevated Installation >20' To 25' Above Floor, Add	17.28	
For Elevated Installation >25' To 30' Above Floor, Add	24.19	
For Elevated Installation >30' To 35' Above Floor, Add	27.64	
For Elevated Installation >35' To 40' Above Floor, Add	34.55	
For Elevated Installation >40' Above Floor, Add	38.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.73	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0810 EA 3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	129.12 24.50 8.17 16.34 20.42 28.59 32.67 40.84 44.92 24.50	32.67
26 05 33 13-0811 EA 4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.82 26.39 8.80 17.59 21.99 30.78 35.18 43.98 48.37 26.39	35.18
26 05 33 13-0812 Intermediate Metal Conduit (IMC) Expansion Fittings (26 05 33 13-0745)		
26 05 33 13-0813 EA 1/2" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	170.38 15.08 5.03 10.05 12.57 17.59 20.11 25.14 27.65	20.10
26 05 33 13-0814 EA 3/4" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	188.67 16.97 5.66 11.31 14.14 19.79 22.62 28.28 31.10	22.62
26 05 33 13-0815 EA 1" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	209.67 18.85 6.28 12.57 15.71 21.99 25.13 31.42 34.56	25.13
26 05 33 13-0816 EA 1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	252.28 20.73 6.91 13.82 17.28 24.19 27.64 34.56 38.01	27.64
26 05 33 13-0817 EA 1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	307.73 22.62 7.54 15.08 18.85 26.39 30.16 37.70 41.46	30.16
26 05 33 13-0818 EA 2" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	402.06 24.50 8.17 16.33 20.42 28.58 32.66 40.83 44.91	32.67
26 05 33 13-0819 EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	603.79 30.16 10.05 20.10 25.13 35.18 40.21 50.26 55.29	40.21

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0820 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting	726.59	50.26
For Work In Restricted Working Space, Add	37.70	
For Elevated Installation >10' To 15' Above Floor, Add	12.57	
For Elevated Installation >15' To 20' Above Floor, Add	25.13	
For Elevated Installation >20' To 25' Above Floor, Add	31.41	
For Elevated Installation >25' To 30' Above Floor, Add	43.98	
For Elevated Installation >30' To 35' Above Floor, Add	50.26	
For Elevated Installation >35' To 40' Above Floor, Add	62.83	
For Elevated Installation >40' Above Floor, Add	69.11	
26 05 33 13-0821 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	1,009.31	60.32
For Work In Restricted Working Space, Add	45.24	
For Elevated Installation >10' To 15' Above Floor, Add	15.08	
For Elevated Installation >15' To 20' Above Floor, Add	30.16	
For Elevated Installation >20' To 25' Above Floor, Add	37.70	
For Elevated Installation >25' To 30' Above Floor, Add	52.78	
For Elevated Installation >30' To 35' Above Floor, Add	60.32	
For Elevated Installation >35' To 40' Above Floor, Add	75.40	
For Elevated Installation >40' Above Floor, Add	82.94	
26 05 33 13-0822 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting	1,165.68	65.34
For Work In Restricted Working Space, Add	49.00	
For Elevated Installation >10' To 15' Above Floor, Add	16.33	
For Elevated Installation >15' To 20' Above Floor, Add	32.67	
For Elevated Installation >20' To 25' Above Floor, Add	40.84	
For Elevated Installation >25' To 30' Above Floor, Add	57.17	
For Elevated Installation >30' To 35' Above Floor, Add	65.34	
For Elevated Installation >35' To 40' Above Floor, Add	81.67	
For Elevated Installation >40' Above Floor, Add	89.84	
26 05 33 13-0823 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0745)		
26 05 33 13-0824 EA 1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	109.05	31.41
For Work In Restricted Working Space, Add	18.85	
For Elevated Installation >10' To 15' Above Floor, Add	6.28	
For Elevated Installation >15' To 20' Above Floor, Add	12.57	
For Elevated Installation >20' To 25' Above Floor, Add	15.71	
For Elevated Installation >25' To 30' Above Floor, Add	21.99	
For Elevated Installation >30' To 35' Above Floor, Add	25.13	
For Elevated Installation >35' To 40' Above Floor, Add	31.42	
For Elevated Installation >40' Above Floor, Add	34.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85	
26 05 33 13-0825 EA 3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	129.67	37.69
For Work In Restricted Working Space, Add	22.62	
For Elevated Installation >10' To 15' Above Floor, Add	7.54	
For Elevated Installation >15' To 20' Above Floor, Add	15.08	
For Elevated Installation >20' To 25' Above Floor, Add	18.85	
For Elevated Installation >25' To 30' Above Floor, Add	26.39	
For Elevated Installation >30' To 35' Above Floor, Add	30.16	
For Elevated Installation >35' To 40' Above Floor, Add	37.70	
For Elevated Installation >40' Above Floor, Add	41.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.62	
26 05 33 13-0826 EA 1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	157.72	43.98
For Work In Restricted Working Space, Add	26.39	
For Elevated Installation >10' To 15' Above Floor, Add	8.80	
For Elevated Installation >15' To 20' Above Floor, Add	17.59	
For Elevated Installation >20' To 25' Above Floor, Add	21.99	
For Elevated Installation >25' To 30' Above Floor, Add	30.79	
For Elevated Installation >30' To 35' Above Floor, Add	35.18	
For Elevated Installation >35' To 40' Above Floor, Add	43.98	
For Elevated Installation >40' Above Floor, Add	48.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.39	
26 05 33 13-0827 EA 1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	185.24	50.26
For Work In Restricted Working Space, Add	30.16	
For Elevated Installation >10' To 15' Above Floor, Add	10.05	
For Elevated Installation >15' To 20' Above Floor, Add	20.10	
For Elevated Installation >20' To 25' Above Floor, Add	25.13	
For Elevated Installation >25' To 30' Above Floor, Add	35.18	
For Elevated Installation >30' To 35' Above Floor, Add	40.21	
For Elevated Installation >35' To 40' Above Floor, Add	50.26	
For Elevated Installation >40' Above Floor, Add	55.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.16	
26 05 33 13-0828 EA 1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	240.64	56.55
For Work In Restricted Working Space, Add	33.93	
For Elevated Installation >10' To 15' Above Floor, Add	11.31	
For Elevated Installation >15' To 20' Above Floor, Add	22.62	
For Elevated Installation >20' To 25' Above Floor, Add	28.27	
For Elevated Installation >25' To 30' Above Floor, Add	39.58	
For Elevated Installation >30' To 35' Above Floor, Add	45.24	
For Elevated Installation >35' To 40' Above Floor, Add	56.55	
For Elevated Installation >40' Above Floor, Add	62.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.93	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0829	EA		2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	290.90 37.70 12.57 25.13 31.41 43.98 50.26 62.83 69.11 37.70	62.83
26 05 33 13-0830	EA		2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	407.54 45.24 15.08 30.16 37.70 52.78 60.32 75.40 82.93 45.24	75.39
26 05 33 13-0831	EA		3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	489.54 52.77 17.59 35.18 43.98 61.57 70.36 87.96 96.75 52.77	87.96
26 05 33 13-0832	EA		3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,105.59 60.32 20.11 40.21 50.26 70.37 80.42 100.53 110.58 60.32	100.52
26 05 33 13-0833	EA		4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,273.05 67.85 22.62 45.24 56.55 79.16 90.47 113.09 124.40 67.85	113.09
26 05 33 13-0834 Intermediate Metal Conduit (IMC) Threaded Couplings (26 05 33 13-0745)					
26 05 33 13-0835	EA		1/2" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	16.65 4.52 1.51 3.01 3.77 5.27 6.03 7.54 8.29	6.03
26 05 33 13-0836	EA		3/4" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	23.28 6.41 2.14 4.27 5.34 7.48 8.55 10.69 11.75	8.55
26 05 33 13-0837	EA		1" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	30.47 8.29 2.76 5.52 6.91 9.67 11.05 13.81 15.19	11.05

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0838 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling	34.99	12.57
For Work In Restricted Working Space, Add	9.43	
For Elevated Installation >10' To 15' Above Floor, Add	3.14	
For Elevated Installation >15' To 20' Above Floor, Add	6.28	
For Elevated Installation >20' To 25' Above Floor, Add	7.86	
For Elevated Installation >25' To 30' Above Floor, Add	11.00	
For Elevated Installation >30' To 35' Above Floor, Add	12.57	
For Elevated Installation >35' To 40' Above Floor, Add	15.71	
For Elevated Installation >40' Above Floor, Add	17.28	
26 05 33 13-0839 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	42.17	15.07
For Work In Restricted Working Space, Add	11.30	
For Elevated Installation >10' To 15' Above Floor, Add	3.77	
For Elevated Installation >15' To 20' Above Floor, Add	7.53	
For Elevated Installation >20' To 25' Above Floor, Add	9.42	
For Elevated Installation >25' To 30' Above Floor, Add	13.18	
For Elevated Installation >30' To 35' Above Floor, Add	15.07	
For Elevated Installation >35' To 40' Above Floor, Add	18.84	
For Elevated Installation >40' Above Floor, Add	20.72	
26 05 33 13-0840 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling	48.67	17.09
For Work In Restricted Working Space, Add	12.82	
For Elevated Installation >10' To 15' Above Floor, Add	4.27	
For Elevated Installation >15' To 20' Above Floor, Add	8.55	
For Elevated Installation >20' To 25' Above Floor, Add	10.69	
For Elevated Installation >25' To 30' Above Floor, Add	14.96	
For Elevated Installation >30' To 35' Above Floor, Add	17.10	
For Elevated Installation >35' To 40' Above Floor, Add	21.37	
For Elevated Installation >40' Above Floor, Add	23.51	
26 05 33 13-0841 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	60.88	19.10
For Work In Restricted Working Space, Add	14.32	
For Elevated Installation >10' To 15' Above Floor, Add	4.77	
For Elevated Installation >15' To 20' Above Floor, Add	9.55	
For Elevated Installation >20' To 25' Above Floor, Add	11.94	
For Elevated Installation >25' To 30' Above Floor, Add	16.71	
For Elevated Installation >30' To 35' Above Floor, Add	19.10	
For Elevated Installation >35' To 40' Above Floor, Add	23.87	
For Elevated Installation >40' Above Floor, Add	26.26	
26 05 33 13-0842 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling	71.98	21.61
For Work In Restricted Working Space, Add	16.21	
For Elevated Installation >10' To 15' Above Floor, Add	5.40	
For Elevated Installation >15' To 20' Above Floor, Add	10.81	
For Elevated Installation >20' To 25' Above Floor, Add	13.51	
For Elevated Installation >25' To 30' Above Floor, Add	18.91	
For Elevated Installation >30' To 35' Above Floor, Add	21.62	
For Elevated Installation >35' To 40' Above Floor, Add	27.02	
For Elevated Installation >40' Above Floor, Add	29.72	
26 05 33 13-0843 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	83.05	23.62
For Work In Restricted Working Space, Add	17.72	
For Elevated Installation >10' To 15' Above Floor, Add	5.91	
For Elevated Installation >15' To 20' Above Floor, Add	11.81	
For Elevated Installation >20' To 25' Above Floor, Add	14.77	
For Elevated Installation >25' To 30' Above Floor, Add	20.67	
For Elevated Installation >30' To 35' Above Floor, Add	23.63	
For Elevated Installation >35' To 40' Above Floor, Add	29.54	
For Elevated Installation >40' Above Floor, Add	32.49	
26 05 33 13-0844 EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling	86.98	25.13
For Work In Restricted Working Space, Add	18.84	
For Elevated Installation >10' To 15' Above Floor, Add	6.28	
For Elevated Installation >15' To 20' Above Floor, Add	12.56	
For Elevated Installation >20' To 25' Above Floor, Add	15.70	
For Elevated Installation >25' To 30' Above Floor, Add	21.98	
For Elevated Installation >30' To 35' Above Floor, Add	25.12	
For Elevated Installation >35' To 40' Above Floor, Add	31.41	
For Elevated Installation >40' Above Floor, Add	34.55	
26 05 33 13-0845 Intermediate Metal Conduit (IMC) Reducer Bushings (26 05 33 13-0745)		
26 05 33 13-0846 EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing	8.04	2.52
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15' Above Floor, Add	0.63	
For Elevated Installation >15' To 20' Above Floor, Add	1.26	
For Elevated Installation >20' To 25' Above Floor, Add	1.57	
For Elevated Installation >25' To 30' Above Floor, Add	2.20	
For Elevated Installation >30' To 35' Above Floor, Add	2.51	
For Elevated Installation >35' To 40' Above Floor, Add	3.14	
For Elevated Installation >40' Above Floor, Add	3.45	
26 05 33 13-0847 EA 3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing	9.06	2.52
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15' Above Floor, Add	0.63	
For Elevated Installation >15' To 20' Above Floor, Add	1.26	
For Elevated Installation >20' To 25' Above Floor, Add	1.57	
For Elevated Installation >25' To 30' Above Floor, Add	2.20	
For Elevated Installation >30' To 35' Above Floor, Add	2.51	
For Elevated Installation >35' To 40' Above Floor, Add	3.14	
For Elevated Installation >40' Above Floor, Add	3.45	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0848		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0059) Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0849		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0848) Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2319 for field bending >1".		
26 05 33 13-0850	LF	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	14.68 -0.51 -0.88 -1.25 0.88 1.76 2.20 3.08 3.52 4.40 4.84 2.64	3.52
26 05 33 13-0851	LF	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	16.86 -0.59 -1.01 -1.43 1.01 2.01 2.51 3.52 4.02 5.03 5.53 3.02	4.02
26 05 33 13-0852	LF	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	21.38 -0.75 -1.29 -1.82 1.26 2.51 3.14 4.40 5.03 6.29 6.91 3.77	5.02
26 05 33 13-0853	LF	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	26.25 -0.94 -1.59 -2.25 1.51 3.01 3.77 5.27 6.03 7.54 8.29 4.52	6.03
26 05 33 13-0854	LF	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	32.44 -1.15 -1.96 -2.77 1.89 3.77 4.71 6.60 7.54 9.43 10.37 5.66	7.54
26 05 33 13-0855	LF	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	40.32 -1.45 -2.46 -3.47 2.26 4.52 5.66 7.92 9.05 11.31 12.44 6.79	9.05

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0856 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	53.24	10.55
For >250 To 500, Deduct	-2.00	
For >500 To 1,000, Deduct	-3.33	
For >1,000, Deduct	-4.66	
For Elevated Installation >10' To 15' Above Floor, Add	2.64	
For Elevated Installation >15' To 20' Above Floor, Add	5.28	
For Elevated Installation >20' To 25' Above Floor, Add	6.60	
For Elevated Installation >25' To 30' Above Floor, Add	9.24	
For Elevated Installation >30' To 35' Above Floor, Add	10.56	
For Elevated Installation >35' To 40' Above Floor, Add	13.20	
For Elevated Installation >40' Above Floor, Add	14.51	
For Work In Restricted Working Space, Add	7.92	
26 05 33 13-0857 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	66.52	13.07
For >250 To 500, Deduct	-2.51	
For >500 To 1,000, Deduct	-4.17	
For >1,000, Deduct	-5.84	
For Elevated Installation >10' To 15' Above Floor, Add	3.27	
For Elevated Installation >15' To 20' Above Floor, Add	6.53	
For Elevated Installation >20' To 25' Above Floor, Add	8.17	
For Elevated Installation >25' To 30' Above Floor, Add	11.43	
For Elevated Installation >30' To 35' Above Floor, Add	13.07	
For Elevated Installation >35' To 40' Above Floor, Add	16.34	
For Elevated Installation >40' Above Floor, Add	17.97	
For Work In Restricted Working Space, Add	9.80	
26 05 33 13-0858 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	81.62	16.09
For >250 To 500, Deduct	-3.08	
For >500 To 1,000, Deduct	-5.12	
For >1,000, Deduct	-7.16	
For Elevated Installation >10' To 15' Above Floor, Add	4.02	
For Elevated Installation >15' To 20' Above Floor, Add	8.04	
For Elevated Installation >20' To 25' Above Floor, Add	10.05	
For Elevated Installation >25' To 30' Above Floor, Add	14.07	
For Elevated Installation >30' To 35' Above Floor, Add	16.08	
For Elevated Installation >35' To 40' Above Floor, Add	20.11	
For Elevated Installation >40' Above Floor, Add	22.12	
For Work In Restricted Working Space, Add	12.06	
26 05 33 13-0859 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	96.57	19.10
For >250 To 500, Deduct	-3.63	
For >500 To 1,000, Deduct	-6.05	
For >1,000, Deduct	-8.46	
For Elevated Installation >10' To 15' Above Floor, Add	4.78	
For Elevated Installation >15' To 20' Above Floor, Add	9.55	
For Elevated Installation >20' To 25' Above Floor, Add	11.94	
For Elevated Installation >25' To 30' Above Floor, Add	16.71	
For Elevated Installation >30' To 35' Above Floor, Add	19.10	
For Elevated Installation >35' To 40' Above Floor, Add	23.88	
For Elevated Installation >40' Above Floor, Add	26.26	
For Work In Restricted Working Space, Add	14.33	
26 05 33 13-0860 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	143.06	22.62
For >250 To 500, Deduct	-5.74	
For >500 To 1,000, Deduct	-9.32	
For >1,000, Deduct	-12.89	
For Elevated Installation >10' To 15' Above Floor, Add	5.66	
For Elevated Installation >15' To 20' Above Floor, Add	11.31	
For Elevated Installation >20' To 25' Above Floor, Add	14.14	
For Elevated Installation >25' To 30' Above Floor, Add	19.79	
For Elevated Installation >30' To 35' Above Floor, Add	22.62	
For Elevated Installation >35' To 40' Above Floor, Add	28.28	
For Elevated Installation >40' Above Floor, Add	31.10	
For Work In Restricted Working Space, Add	16.97	
26 05 33 13-0861 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	193.95	30.16
For >250 To 500, Deduct	-7.81	
For >500 To 1,000, Deduct	-12.66	
For >1,000, Deduct	-17.51	
For Elevated Installation >10' To 15' Above Floor, Add	7.54	
For Elevated Installation >15' To 20' Above Floor, Add	15.08	
For Elevated Installation >20' To 25' Above Floor, Add	18.85	
For Elevated Installation >25' To 30' Above Floor, Add	26.39	
For Elevated Installation >30' To 35' Above Floor, Add	30.16	
For Elevated Installation >35' To 40' Above Floor, Add	37.70	
For Elevated Installation >40' Above Floor, Add	41.46	
For Work In Restricted Working Space, Add	22.62	
26 05 33 13-0862 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings (26 05 33 13-0848)		
26 05 33 13-0863 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	21.27	7.54
For Elevated Installation >10' To 15' Above Floor, Add	1.51	
For Elevated Installation >15' To 20' Above Floor, Add	3.01	
For Elevated Installation >20' To 25' Above Floor, Add	3.77	
For Elevated Installation >25' To 30' Above Floor, Add	5.27	
For Elevated Installation >30' To 35' Above Floor, Add	6.03	
For Elevated Installation >35' To 40' Above Floor, Add	7.54	
For Elevated Installation >40' Above Floor, Add	8.29	
For Work In Restricted Working Space, Add	4.52	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0864	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	27.86	10.68
		For Elevated Installation >10' To 15' Above Floor, Add	2.14	
		For Elevated Installation >15' To 20' Above Floor, Add	4.27	
		For Elevated Installation >20' To 25' Above Floor, Add	5.34	
		For Elevated Installation >25' To 30' Above Floor, Add	7.48	
		For Elevated Installation >30' To 35' Above Floor, Add	8.54	
		For Elevated Installation >35' To 40' Above Floor, Add	10.68	
		For Elevated Installation >40' Above Floor, Add	11.75	
		For Work In Restricted Working Space, Add	6.41	
26 05 33 13-0865	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	36.08	13.82
		For Elevated Installation >10' To 15' Above Floor, Add	2.76	
		For Elevated Installation >15' To 20' Above Floor, Add	5.53	
		For Elevated Installation >20' To 25' Above Floor, Add	6.91	
		For Elevated Installation >25' To 30' Above Floor, Add	9.67	
		For Elevated Installation >30' To 35' Above Floor, Add	11.06	
		For Elevated Installation >35' To 40' Above Floor, Add	13.82	
		For Elevated Installation >40' Above Floor, Add	15.20	
		For Work In Restricted Working Space, Add	8.29	
26 05 33 13-0866	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	41.25	15.71
		For Elevated Installation >10' To 15' Above Floor, Add	3.14	
		For Elevated Installation >15' To 20' Above Floor, Add	6.28	
		For Elevated Installation >20' To 25' Above Floor, Add	7.85	
		For Elevated Installation >25' To 30' Above Floor, Add	10.99	
		For Elevated Installation >30' To 35' Above Floor, Add	12.56	
		For Elevated Installation >35' To 40' Above Floor, Add	15.71	
		For Elevated Installation >40' Above Floor, Add	17.28	
		For Work In Restricted Working Space, Add	9.42	
26 05 33 13-0867	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	49.39	18.85
		For Elevated Installation >10' To 15' Above Floor, Add	3.77	
		For Elevated Installation >15' To 20' Above Floor, Add	7.54	
		For Elevated Installation >20' To 25' Above Floor, Add	9.42	
		For Elevated Installation >25' To 30' Above Floor, Add	13.19	
		For Elevated Installation >30' To 35' Above Floor, Add	15.08	
		For Elevated Installation >35' To 40' Above Floor, Add	18.85	
		For Elevated Installation >40' Above Floor, Add	20.73	
		For Work In Restricted Working Space, Add	11.31	
26 05 33 13-0868	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	59.86	21.36
		For Elevated Installation >10' To 15' Above Floor, Add	4.27	
		For Elevated Installation >15' To 20' Above Floor, Add	8.55	
		For Elevated Installation >20' To 25' Above Floor, Add	10.68	
		For Elevated Installation >25' To 30' Above Floor, Add	14.96	
		For Elevated Installation >30' To 35' Above Floor, Add	17.09	
		For Elevated Installation >35' To 40' Above Floor, Add	21.37	
		For Elevated Installation >40' Above Floor, Add	23.50	
		For Work In Restricted Working Space, Add	12.82	
26 05 33 13-0869	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	90.14	21.36
		For Elevated Installation >10' To 15' Above Floor, Add	4.78	
		For Elevated Installation >15' To 20' Above Floor, Add	9.55	
		For Elevated Installation >20' To 25' Above Floor, Add	11.94	
		For Elevated Installation >25' To 30' Above Floor, Add	16.71	
		For Elevated Installation >30' To 35' Above Floor, Add	19.10	
		For Elevated Installation >35' To 40' Above Floor, Add	23.88	
		For Elevated Installation >40' Above Floor, Add	26.26	
		For Work In Restricted Working Space, Add	14.33	
26 05 33 13-0870	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	105.51	29.53
		For Elevated Installation >10' To 15' Above Floor, Add	5.40	
		For Elevated Installation >15' To 20' Above Floor, Add	10.81	
		For Elevated Installation >20' To 25' Above Floor, Add	13.51	
		For Elevated Installation >25' To 30' Above Floor, Add	18.91	
		For Elevated Installation >30' To 35' Above Floor, Add	21.61	
		For Elevated Installation >35' To 40' Above Floor, Add	27.02	
		For Elevated Installation >40' Above Floor, Add	29.72	
		For Work In Restricted Working Space, Add	16.21	
26 05 33 13-0871	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	125.11	29.53
		For Elevated Installation >10' To 15' Above Floor, Add	5.91	
		For Elevated Installation >15' To 20' Above Floor, Add	11.81	
		For Elevated Installation >20' To 25' Above Floor, Add	14.77	
		For Elevated Installation >25' To 30' Above Floor, Add	20.67	
		For Elevated Installation >30' To 35' Above Floor, Add	23.62	
		For Elevated Installation >35' To 40' Above Floor, Add	29.53	
		For Elevated Installation >40' Above Floor, Add	32.48	
		For Work In Restricted Working Space, Add	17.72	
26 05 33 13-0872	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	140.05	31.41
		For Elevated Installation >10' To 15' Above Floor, Add	6.28	
		For Elevated Installation >15' To 20' Above Floor, Add	12.57	
		For Elevated Installation >20' To 25' Above Floor, Add	15.71	
		For Elevated Installation >25' To 30' Above Floor, Add	21.99	
		For Elevated Installation >30' To 35' Above Floor, Add	25.13	
		For Elevated Installation >35' To 40' Above Floor, Add	31.42	
		For Elevated Installation >40' Above Floor, Add	34.56	
		For Work In Restricted Working Space, Add	18.85	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0873 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	327.02	37.69
For Elevated Installation >10' To 15' Above Floor, Add	7.54	
For Elevated Installation >15' To 20' Above Floor, Add	15.08	
For Elevated Installation >20' To 25' Above Floor, Add	18.85	
For Elevated Installation >25' To 30' Above Floor, Add	26.39	
For Elevated Installation >30' To 35' Above Floor, Add	30.16	
For Elevated Installation >35' To 40' Above Floor, Add	37.70	
For Elevated Installation >40' Above Floor, Add	41.46	
For Work In Restricted Working Space, Add	22.62	
26 05 33 13-0874 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	369.05	43.98
For Elevated Installation >10' To 15' Above Floor, Add	8.80	
For Elevated Installation >15' To 20' Above Floor, Add	17.59	
For Elevated Installation >20' To 25' Above Floor, Add	21.99	
For Elevated Installation >25' To 30' Above Floor, Add	30.79	
For Elevated Installation >30' To 35' Above Floor, Add	35.18	
For Elevated Installation >35' To 40' Above Floor, Add	43.98	
For Elevated Installation >40' Above Floor, Add	48.38	
For Work In Restricted Working Space, Add	26.39	
26 05 33 13-0875 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel		
(RGS) Standard Radius Elbows (26 05 33 13-0848)		
Note: 90, 45, or 30-degree.		
26 05 33 13-0876 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	62.59	20.42
For Elevated Installation >10' To 15' Above Floor, Add	4.08	
For Elevated Installation >15' To 20' Above Floor, Add	8.17	
For Elevated Installation >20' To 25' Above Floor, Add	10.21	
For Elevated Installation >25' To 30' Above Floor, Add	14.29	
For Elevated Installation >30' To 35' Above Floor, Add	16.34	
For Elevated Installation >35' To 40' Above Floor, Add	20.42	
For Elevated Installation >40' Above Floor, Add	22.46	
For Work In Restricted Working Space, Add	12.25	
26 05 33 13-0877 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	73.22	25.32
For Elevated Installation >10' To 15' Above Floor, Add	5.06	
For Elevated Installation >15' To 20' Above Floor, Add	10.13	
For Elevated Installation >20' To 25' Above Floor, Add	12.66	
For Elevated Installation >25' To 30' Above Floor, Add	17.72	
For Elevated Installation >30' To 35' Above Floor, Add	20.26	
For Elevated Installation >35' To 40' Above Floor, Add	25.32	
For Elevated Installation >40' Above Floor, Add	27.85	
For Work In Restricted Working Space, Add	15.19	
26 05 33 13-0878 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	87.96	31.04
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.41	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.72	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
For Work In Restricted Working Space, Add	18.62	
26 05 33 13-0879 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	103.69	35.94
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
For Work In Restricted Working Space, Add	21.56	
26 05 33 13-0880 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	120.77	40.84
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
For Work In Restricted Working Space, Add	24.50	
26 05 33 13-0881 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	144.41	44.92
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	
For Work In Restricted Working Space, Add	26.95	
26 05 33 13-0882 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	215.52	56.36
For Elevated Installation >10' To 15' Above Floor, Add	11.27	
For Elevated Installation >15' To 20' Above Floor, Add	22.54	
For Elevated Installation >20' To 25' Above Floor, Add	28.18	
For Elevated Installation >25' To 30' Above Floor, Add	39.45	
For Elevated Installation >30' To 35' Above Floor, Add	45.08	
For Elevated Installation >35' To 40' Above Floor, Add	56.36	
For Elevated Installation >40' Above Floor, Add	61.99	
For Work In Restricted Working Space, Add	33.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0883 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	317.84	76.77
For Elevated Installation >10' To 15' Above Floor, Add	15.36	
For Elevated Installation >15' To 20' Above Floor, Add	30.71	
For Elevated Installation >20' To 25' Above Floor, Add	38.39	
For Elevated Installation >25' To 30' Above Floor, Add	53.74	
For Elevated Installation >30' To 35' Above Floor, Add	61.42	
For Elevated Installation >35' To 40' Above Floor, Add	76.78	
For Elevated Installation >40' Above Floor, Add	84.45	
For Work In Restricted Working Space, Add	46.07	
26 05 33 13-0884 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	388.73	86.57
For Elevated Installation >10' To 15' Above Floor, Add	17.32	
For Elevated Installation >15' To 20' Above Floor, Add	34.63	
For Elevated Installation >20' To 25' Above Floor, Add	43.29	
For Elevated Installation >25' To 30' Above Floor, Add	60.61	
For Elevated Installation >30' To 35' Above Floor, Add	69.26	
For Elevated Installation >35' To 40' Above Floor, Add	86.58	
For Elevated Installation >40' Above Floor, Add	95.24	
For Work In Restricted Working Space, Add	51.95	
26 05 33 13-0885 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	453.30	112.71
For Elevated Installation >10' To 15' Above Floor, Add	22.54	
For Elevated Installation >15' To 20' Above Floor, Add	45.08	
For Elevated Installation >20' To 25' Above Floor, Add	56.36	
For Elevated Installation >25' To 30' Above Floor, Add	78.90	
For Elevated Installation >30' To 35' Above Floor, Add	90.17	
For Elevated Installation >35' To 40' Above Floor, Add	112.71	
For Elevated Installation >40' Above Floor, Add	123.98	
For Work In Restricted Working Space, Add	67.63	
26 05 33 13-0886 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	916.69	183.77
For Elevated Installation >10' To 15' Above Floor, Add	36.75	
For Elevated Installation >15' To 20' Above Floor, Add	73.51	
For Elevated Installation >20' To 25' Above Floor, Add	91.89	
For Elevated Installation >25' To 30' Above Floor, Add	128.64	
For Elevated Installation >30' To 35' Above Floor, Add	147.02	
For Elevated Installation >35' To 40' Above Floor, Add	183.77	
For Elevated Installation >40' Above Floor, Add	202.15	
For Work In Restricted Working Space, Add	110.26	
26 05 33 13-0887 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	1,434.83	276.07
For Elevated Installation >10' To 15' Above Floor, Add	55.21	
For Elevated Installation >15' To 20' Above Floor, Add	110.43	
For Elevated Installation >20' To 25' Above Floor, Add	138.03	
For Elevated Installation >25' To 30' Above Floor, Add	193.25	
For Elevated Installation >30' To 35' Above Floor, Add	220.85	
For Elevated Installation >35' To 40' Above Floor, Add	276.07	
For Elevated Installation >40' Above Floor, Add	303.67	
For Work In Restricted Working Space, Add	165.64	
26 05 33 13-0888 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows (26 05 33 13-0848)		
26 05 33 13-0889 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	139.22	31.04
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.41	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.72	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
For Work In Restricted Working Space, Add	18.62	
26 05 33 13-0890 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	157.20	35.94
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
For Work In Restricted Working Space, Add	21.56	
26 05 33 13-0891 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	179.36	40.84
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
For Work In Restricted Working Space, Add	24.50	
26 05 33 13-0892 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	212.02	44.92
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	
For Work In Restricted Working Space, Add	26.95	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0893	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	292.04 11.27 22.54 28.18 39.45 45.08 56.36 61.99 33.81	56.36
26 05 33 13-0894 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows (26 05 33 13-0848)				
26 05 33 13-0895	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	153.08 6.21 12.41 15.52 21.72 24.83 31.04 34.14 18.62	31.04
26 05 33 13-0896	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.11 7.19 14.37 17.97 25.15 28.75 35.94 39.53 21.56	35.94
26 05 33 13-0897	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	195.78 8.17 16.33 20.42 28.58 32.67 40.84 44.92 24.50	40.84
26 05 33 13-0898	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.83 8.98 17.97 22.46 31.44 35.94 44.92 49.41 26.95	44.92
26 05 33 13-0899	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	326.57 11.27 22.54 28.18 39.45 45.08 56.36 61.99 33.81	56.36
26 05 33 13-0900	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	420.25 15.36 30.71 38.39 53.74 61.42 76.78 84.45 46.07	76.77
26 05 33 13-0901 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows (26 05 33 13-0848)				
26 05 33 13-0902	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	169.65 6.21 12.41 15.52 21.72 24.83 31.04 34.14 18.62	31.04



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0903	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	192.04	35.94
		For Elevated Installation >10' To 15' Above Floor, Add	7.19	
		For Elevated Installation >15' To 20' Above Floor, Add	14.37	
		For Elevated Installation >20' To 25' Above Floor, Add	17.97	
		For Elevated Installation >25' To 30' Above Floor, Add	25.15	
		For Elevated Installation >30' To 35' Above Floor, Add	28.75	
		For Elevated Installation >35' To 40' Above Floor, Add	35.94	
		For Elevated Installation >40' Above Floor, Add	39.53	
		For Work In Restricted Working Space, Add	21.56	
26 05 33 13-0904	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	216.85	40.84
		For Elevated Installation >10' To 15' Above Floor, Add	8.17	
		For Elevated Installation >15' To 20' Above Floor, Add	16.33	
		For Elevated Installation >20' To 25' Above Floor, Add	20.42	
		For Elevated Installation >25' To 30' Above Floor, Add	28.58	
		For Elevated Installation >30' To 35' Above Floor, Add	32.67	
		For Elevated Installation >35' To 40' Above Floor, Add	40.84	
		For Elevated Installation >40' Above Floor, Add	44.92	
		For Work In Restricted Working Space, Add	24.50	
26 05 33 13-0905	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	259.70	44.92
		For Elevated Installation >10' To 15' Above Floor, Add	8.98	
		For Elevated Installation >15' To 20' Above Floor, Add	17.97	
		For Elevated Installation >20' To 25' Above Floor, Add	22.46	
		For Elevated Installation >25' To 30' Above Floor, Add	31.44	
		For Elevated Installation >30' To 35' Above Floor, Add	35.94	
		For Elevated Installation >35' To 40' Above Floor, Add	44.92	
		For Elevated Installation >40' Above Floor, Add	49.41	
		For Work In Restricted Working Space, Add	26.95	
26 05 33 13-0906	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	366.25	56.36
		For Elevated Installation >10' To 15' Above Floor, Add	11.27	
		For Elevated Installation >15' To 20' Above Floor, Add	22.54	
		For Elevated Installation >20' To 25' Above Floor, Add	28.18	
		For Elevated Installation >25' To 30' Above Floor, Add	39.45	
		For Elevated Installation >30' To 35' Above Floor, Add	45.08	
		For Elevated Installation >35' To 40' Above Floor, Add	56.36	
		For Elevated Installation >40' Above Floor, Add	61.99	
		For Work In Restricted Working Space, Add	33.81	
26 05 33 13-0907	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	466.84	76.77
		For Elevated Installation >10' To 15' Above Floor, Add	15.36	
		For Elevated Installation >15' To 20' Above Floor, Add	30.71	
		For Elevated Installation >20' To 25' Above Floor, Add	38.39	
		For Elevated Installation >25' To 30' Above Floor, Add	53.74	
		For Elevated Installation >30' To 35' Above Floor, Add	61.42	
		For Elevated Installation >35' To 40' Above Floor, Add	76.78	
		For Elevated Installation >40' Above Floor, Add	84.45	
		For Work In Restricted Working Space, Add	46.07	
26 05 33 13-0908	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	583.83	86.57
		For Elevated Installation >10' To 15' Above Floor, Add	17.32	
		For Elevated Installation >15' To 20' Above Floor, Add	34.63	
		For Elevated Installation >20' To 25' Above Floor, Add	43.29	
		For Elevated Installation >25' To 30' Above Floor, Add	60.61	
		For Elevated Installation >30' To 35' Above Floor, Add	69.26	
		For Elevated Installation >35' To 40' Above Floor, Add	86.58	
		For Elevated Installation >40' Above Floor, Add	95.24	
		For Work In Restricted Working Space, Add	51.95	
26 05 33 13-0909	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	665.85	112.71
		For Elevated Installation >10' To 15' Above Floor, Add	22.54	
		For Elevated Installation >15' To 20' Above Floor, Add	45.08	
		For Elevated Installation >20' To 25' Above Floor, Add	56.36	
		For Elevated Installation >25' To 30' Above Floor, Add	78.90	
		For Elevated Installation >30' To 35' Above Floor, Add	90.17	
		For Elevated Installation >35' To 40' Above Floor, Add	112.71	
		For Elevated Installation >40' Above Floor, Add	123.98	
		For Work In Restricted Working Space, Add	67.63	
26 05 33 13-0910		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows (26 05 33 13-0848)		
26 05 33 13-0911	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	198.28	31.04
		For Elevated Installation >10' To 15' Above Floor, Add	6.21	
		For Elevated Installation >15' To 20' Above Floor, Add	12.41	
		For Elevated Installation >20' To 25' Above Floor, Add	15.52	
		For Elevated Installation >25' To 30' Above Floor, Add	21.72	
		For Elevated Installation >30' To 35' Above Floor, Add	24.83	
		For Elevated Installation >35' To 40' Above Floor, Add	31.04	
		For Elevated Installation >40' Above Floor, Add	34.14	
		For Work In Restricted Working Space, Add	18.62	
26 05 33 13-0912	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	220.04	35.94
		For Elevated Installation >10' To 15' Above Floor, Add	7.19	
		For Elevated Installation >15' To 20' Above Floor, Add	14.37	
		For Elevated Installation >20' To 25' Above Floor, Add	17.97	
		For Elevated Installation >25' To 30' Above Floor, Add	25.15	
		For Elevated Installation >30' To 35' Above Floor, Add	28.75	
		For Elevated Installation >35' To 40' Above Floor, Add	35.94	
		For Elevated Installation >40' Above Floor, Add	39.53	
		For Work In Restricted Working Space, Add	21.56	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0913 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 248.65		40.84
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
For Work In Restricted Working Space, Add	24.50	
26 05 33 13-0914 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 305.49		44.92
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	
For Work In Restricted Working Space, Add	26.95	
26 05 33 13-0915 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 437.27		56.36
For Elevated Installation >10' To 15' Above Floor, Add	11.27	
For Elevated Installation >15' To 20' Above Floor, Add	22.54	
For Elevated Installation >20' To 25' Above Floor, Add	28.18	
For Elevated Installation >25' To 30' Above Floor, Add	39.45	
For Elevated Installation >30' To 35' Above Floor, Add	45.08	
For Elevated Installation >35' To 40' Above Floor, Add	56.36	
For Elevated Installation >40' Above Floor, Add	61.99	
For Work In Restricted Working Space, Add	33.81	
26 05 33 13-0916 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 545.77		76.77
For Elevated Installation >10' To 15' Above Floor, Add	15.36	
For Elevated Installation >15' To 20' Above Floor, Add	30.71	
For Elevated Installation >20' To 25' Above Floor, Add	38.39	
For Elevated Installation >25' To 30' Above Floor, Add	53.74	
For Elevated Installation >30' To 35' Above Floor, Add	61.42	
For Elevated Installation >35' To 40' Above Floor, Add	76.78	
For Elevated Installation >40' Above Floor, Add	84.45	
For Work In Restricted Working Space, Add	46.07	
26 05 33 13-0917 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 632.03		86.57
For Elevated Installation >10' To 15' Above Floor, Add	17.32	
For Elevated Installation >15' To 20' Above Floor, Add	34.63	
For Elevated Installation >20' To 25' Above Floor, Add	43.29	
For Elevated Installation >25' To 30' Above Floor, Add	60.61	
For Elevated Installation >30' To 35' Above Floor, Add	69.26	
For Elevated Installation >35' To 40' Above Floor, Add	86.58	
For Elevated Installation >40' Above Floor, Add	95.24	
For Work In Restricted Working Space, Add	51.95	
26 05 33 13-0918 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 754.33		112.71
For Elevated Installation >10' To 15' Above Floor, Add	22.54	
For Elevated Installation >15' To 20' Above Floor, Add	45.08	
For Elevated Installation >20' To 25' Above Floor, Add	56.36	
For Elevated Installation >25' To 30' Above Floor, Add	78.90	
For Elevated Installation >30' To 35' Above Floor, Add	90.17	
For Elevated Installation >35' To 40' Above Floor, Add	112.71	
For Elevated Installation >40' Above Floor, Add	123.98	
For Work In Restricted Working Space, Add	67.63	
26 05 33 13-0919 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows (26 05 33 13-0848)		
26 05 33 13-0920 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow 220.57		31.04
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.42	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.73	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
For Work In Restricted Working Space, Add	18.62	
26 05 33 13-0921 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow 246.10		35.94
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
For Work In Restricted Working Space, Add	21.56	
26 05 33 13-0922 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow 279.94		40.84
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
For Work In Restricted Working Space, Add	24.50	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0923	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	345.34 8.98 17.97 22.46 31.44 35.94 44.92 49.41 26.95	44.92
26 05 33 13-0924	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	476.02 11.27 22.54 28.18 39.45 45.08 56.36 61.99 33.81	56.36
26 05 33 13-0925	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	608.90 15.36 30.71 38.39 53.74 61.42 76.78 84.45 46.07	76.77
26 05 33 13-0926	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	749.20 17.32 34.63 43.29 60.61 69.26 86.58 95.24 51.95	86.57
26 05 33 13-0927	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	835.54 22.54 45.08 56.36 78.90 90.17 112.71 123.98 67.63	112.71
26 05 33 13-0928	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,390.82 36.75 73.51 91.89 128.64 147.02 183.77 202.15 110.26	183.77
26 05 33 13-0929		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows (26 05 33 13-0848)		
26 05 33 13-0930	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	249.69 6.21 12.41 15.52 21.72 24.83 31.04 34.14 18.62	31.04
26 05 33 13-0931	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	277.60 7.19 14.37 17.97 25.15 28.75 35.94 39.53 21.56	35.94
26 05 33 13-0932	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	314.24 8.17 16.33 20.42 28.58 32.67 40.84 44.92 24.50	40.84

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0933 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	389.54 8.98 17.97 22.46 31.44 35.94 44.92 49.41 26.95	44.92
26 05 33 13-0934 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	540.59 11.27 22.54 28.18 39.45 45.08 56.36 61.99 33.81	56.36
26 05 33 13-0935 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	689.34 15.36 30.71 38.39 53.74 61.42 76.78 84.45 46.07	76.77
26 05 33 13-0936 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	807.92 17.32 34.63 43.29 60.61 69.26 86.58 95.24 51.95	86.57
26 05 33 13-0937 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	940.39 22.54 45.08 56.36 78.90 90.17 112.71 123.98 67.63	112.71
26 05 33 13-0938 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	1,464.30 36.75 73.51 91.89 128.64 147.02 183.77 202.15 110.26	183.77
26 05 33 13-0939 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	2,015.45 55.21 110.43 138.03 193.25 220.85 276.07 303.67 165.64	276.07
26 05 33 13-0940 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows (26 05 33 13-0848)		
26 05 33 13-0941 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	290.26 6.21 12.42 15.52 21.73 24.83 31.04 34.14 18.62	31.04
26 05 33 13-0942 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	305.67 7.19 14.37 17.97 25.15 28.75 35.94 39.53 21.56	35.94



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0943	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	360.15	40.84
		For Elevated Installation >10' To 15' Above Floor, Add	8.17	
		For Elevated Installation >15' To 20' Above Floor, Add	16.33	
		For Elevated Installation >20' To 25' Above Floor, Add	20.42	
		For Elevated Installation >25' To 30' Above Floor, Add	28.58	
		For Elevated Installation >30' To 35' Above Floor, Add	32.67	
		For Elevated Installation >35' To 40' Above Floor, Add	40.84	
		For Elevated Installation >40' Above Floor, Add	44.92	
		For Work In Restricted Working Space, Add	24.50	
26 05 33 13-0944	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	451.07	44.92
		For Elevated Installation >10' To 15' Above Floor, Add	8.98	
		For Elevated Installation >15' To 20' Above Floor, Add	17.97	
		For Elevated Installation >20' To 25' Above Floor, Add	22.46	
		For Elevated Installation >25' To 30' Above Floor, Add	31.44	
		For Elevated Installation >30' To 35' Above Floor, Add	35.94	
		For Elevated Installation >35' To 40' Above Floor, Add	44.92	
		For Elevated Installation >40' Above Floor, Add	49.41	
		For Work In Restricted Working Space, Add	26.95	
26 05 33 13-0945	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	627.65	56.36
		For Elevated Installation >10' To 15' Above Floor, Add	11.27	
		For Elevated Installation >15' To 20' Above Floor, Add	22.54	
		For Elevated Installation >20' To 25' Above Floor, Add	28.18	
		For Elevated Installation >25' To 30' Above Floor, Add	39.45	
		For Elevated Installation >30' To 35' Above Floor, Add	45.08	
		For Elevated Installation >35' To 40' Above Floor, Add	56.36	
		For Elevated Installation >40' Above Floor, Add	61.99	
		For Work In Restricted Working Space, Add	33.81	
26 05 33 13-0946	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	797.78	76.77
		For Elevated Installation >10' To 15' Above Floor, Add	15.36	
		For Elevated Installation >15' To 20' Above Floor, Add	30.71	
		For Elevated Installation >20' To 25' Above Floor, Add	38.39	
		For Elevated Installation >25' To 30' Above Floor, Add	53.74	
		For Elevated Installation >30' To 35' Above Floor, Add	61.42	
		For Elevated Installation >35' To 40' Above Floor, Add	76.78	
		For Elevated Installation >40' Above Floor, Add	84.45	
		For Work In Restricted Working Space, Add	46.07	
26 05 33 13-0947	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	971.15	86.57
		For Elevated Installation >10' To 15' Above Floor, Add	17.32	
		For Elevated Installation >15' To 20' Above Floor, Add	34.63	
		For Elevated Installation >20' To 25' Above Floor, Add	43.29	
		For Elevated Installation >25' To 30' Above Floor, Add	60.61	
		For Elevated Installation >30' To 35' Above Floor, Add	69.26	
		For Elevated Installation >35' To 40' Above Floor, Add	86.58	
		For Elevated Installation >40' Above Floor, Add	95.24	
		For Work In Restricted Working Space, Add	51.95	
26 05 33 13-0948	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,144.36	112.71
		For Elevated Installation >10' To 15' Above Floor, Add	22.54	
		For Elevated Installation >15' To 20' Above Floor, Add	45.08	
		For Elevated Installation >20' To 25' Above Floor, Add	56.36	
		For Elevated Installation >25' To 30' Above Floor, Add	78.90	
		For Elevated Installation >30' To 35' Above Floor, Add	90.17	
		For Elevated Installation >35' To 40' Above Floor, Add	112.71	
		For Elevated Installation >40' Above Floor, Add	123.98	
		For Work In Restricted Working Space, Add	67.63	
26 05 33 13-0949	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,703.98	183.77
		For Elevated Installation >10' To 15' Above Floor, Add	36.75	
		For Elevated Installation >15' To 20' Above Floor, Add	73.51	
		For Elevated Installation >20' To 25' Above Floor, Add	91.89	
		For Elevated Installation >25' To 30' Above Floor, Add	128.64	
		For Elevated Installation >30' To 35' Above Floor, Add	147.02	
		For Elevated Installation >35' To 40' Above Floor, Add	183.77	
		For Work In Restricted Working Space, Add	202.15	
			110.26	
26 05 33 13-0950	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	2,125.47	276.07
		For Elevated Installation >10' To 15' Above Floor, Add	55.21	
		For Elevated Installation >15' To 20' Above Floor, Add	110.43	
		For Elevated Installation >20' To 25' Above Floor, Add	138.03	
		For Elevated Installation >25' To 30' Above Floor, Add	193.25	
		For Elevated Installation >30' To 35' Above Floor, Add	220.85	
		For Elevated Installation >35' To 40' Above Floor, Add	276.07	
		For Elevated Installation >40' Above Floor, Add	303.67	
		For Work In Restricted Working Space, Add	165.64	
26 05 33 13-0951		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows (26 05 33 13-0848)		
26 05 33 13-0952	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	300.03	31.04
		For Elevated Installation >10' To 15' Above Floor, Add	6.21	
		For Elevated Installation >15' To 20' Above Floor, Add	12.42	
		For Elevated Installation >20' To 25' Above Floor, Add	15.52	
		For Elevated Installation >25' To 30' Above Floor, Add	21.73	
		For Elevated Installation >30' To 35' Above Floor, Add	24.83	
		For Elevated Installation >35' To 40' Above Floor, Add	31.04	
		For Elevated Installation >40' Above Floor, Add	34.14	
		For Work In Restricted Working Space, Add	18.62	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0953 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	353.16	35.94
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
For Work In Restricted Working Space, Add	21.56	
26 05 33 13-0954 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	399.85	40.84
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
For Work In Restricted Working Space, Add	24.50	
26 05 33 13-0955 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	469.58	44.92
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	
For Work In Restricted Working Space, Add	26.95	
26 05 33 13-0956 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	649.40	56.36
For Elevated Installation >10' To 15' Above Floor, Add	11.27	
For Elevated Installation >15' To 20' Above Floor, Add	22.54	
For Elevated Installation >20' To 25' Above Floor, Add	28.18	
For Elevated Installation >25' To 30' Above Floor, Add	39.45	
For Elevated Installation >30' To 35' Above Floor, Add	45.08	
For Elevated Installation >35' To 40' Above Floor, Add	56.36	
For Elevated Installation >40' Above Floor, Add	61.99	
For Work In Restricted Working Space, Add	33.81	
26 05 33 13-0957 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	831.13	76.77
For Elevated Installation >10' To 15' Above Floor, Add	15.36	
For Elevated Installation >15' To 20' Above Floor, Add	30.71	
For Elevated Installation >20' To 25' Above Floor, Add	38.39	
For Elevated Installation >25' To 30' Above Floor, Add	53.74	
For Elevated Installation >30' To 35' Above Floor, Add	61.42	
For Elevated Installation >35' To 40' Above Floor, Add	76.78	
For Elevated Installation >40' Above Floor, Add	84.45	
For Work In Restricted Working Space, Add	46.07	
26 05 33 13-0958 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,060.05	86.57
For Elevated Installation >10' To 15' Above Floor, Add	17.32	
For Elevated Installation >15' To 20' Above Floor, Add	34.63	
For Elevated Installation >20' To 25' Above Floor, Add	43.29	
For Elevated Installation >25' To 30' Above Floor, Add	60.61	
For Elevated Installation >30' To 35' Above Floor, Add	69.26	
For Elevated Installation >35' To 40' Above Floor, Add	86.58	
For Elevated Installation >40' Above Floor, Add	95.24	
For Work In Restricted Working Space, Add	51.95	
26 05 33 13-0959 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,190.62	112.71
For Elevated Installation >10' To 15' Above Floor, Add	22.54	
For Elevated Installation >15' To 20' Above Floor, Add	45.08	
For Elevated Installation >20' To 25' Above Floor, Add	56.36	
For Elevated Installation >25' To 30' Above Floor, Add	78.90	
For Elevated Installation >30' To 35' Above Floor, Add	90.17	
For Elevated Installation >35' To 40' Above Floor, Add	112.71	
For Work In Restricted Working Space, Add	123.98	
26 05 33 13-0960 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,768.37	183.77
For Elevated Installation >10' To 15' Above Floor, Add	36.75	
For Elevated Installation >15' To 20' Above Floor, Add	73.51	
For Elevated Installation >20' To 25' Above Floor, Add	91.89	
For Elevated Installation >25' To 30' Above Floor, Add	128.64	
For Elevated Installation >30' To 35' Above Floor, Add	147.02	
For Elevated Installation >35' To 40' Above Floor, Add	183.77	
For Elevated Installation >40' Above Floor, Add	202.15	
For Work In Restricted Working Space, Add	110.26	
26 05 33 13-0961 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	2,181.37	276.07
For Elevated Installation >10' To 15' Above Floor, Add	55.21	
For Elevated Installation >15' To 20' Above Floor, Add	110.43	
For Elevated Installation >20' To 25' Above Floor, Add	138.03	
For Elevated Installation >25' To 30' Above Floor, Add	193.25	
For Elevated Installation >30' To 35' Above Floor, Add	220.85	
For Elevated Installation >35' To 40' Above Floor, Add	276.07	
For Elevated Installation >40' Above Floor, Add	303.67	
For Work In Restricted Working Space, Add	165.64	

26 05 33 13-0962 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel
(RGS) 45 Degree Sealtight Fittings (26 05 33 13-0848)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0963	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	113.97	20.42
			For Elevated Installation >10' To 15' Above Floor, Add	4.08	
			For Elevated Installation >15' To 20' Above Floor, Add	8.17	
			For Elevated Installation >20' To 25' Above Floor, Add	10.21	
			For Elevated Installation >25' To 30' Above Floor, Add	14.29	
			For Elevated Installation >30' To 35' Above Floor, Add	16.34	
			For Elevated Installation >35' To 40' Above Floor, Add	20.42	
			For Elevated Installation >40' Above Floor, Add	22.46	
			For Work In Restricted Working Space, Add	12.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 33 13-0964	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	140.15	26.95
			For Elevated Installation >10' To 15' Above Floor, Add	5.39	
			For Elevated Installation >15' To 20' Above Floor, Add	10.78	
			For Elevated Installation >20' To 25' Above Floor, Add	13.48	
			For Elevated Installation >25' To 30' Above Floor, Add	18.87	
			For Elevated Installation >30' To 35' Above Floor, Add	21.56	
			For Elevated Installation >35' To 40' Above Floor, Add	26.96	
			For Elevated Installation >40' Above Floor, Add	29.65	
			For Work In Restricted Working Space, Add	16.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.17	
26 05 33 13-0965	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	185.23	31.04
			For Elevated Installation >10' To 15' Above Floor, Add	6.21	
			For Elevated Installation >15' To 20' Above Floor, Add	12.42	
			For Elevated Installation >20' To 25' Above Floor, Add	15.52	
			For Elevated Installation >25' To 30' Above Floor, Add	21.73	
			For Elevated Installation >30' To 35' Above Floor, Add	24.83	
			For Elevated Installation >35' To 40' Above Floor, Add	31.04	
			For Elevated Installation >40' Above Floor, Add	34.14	
			For Work In Restricted Working Space, Add	18.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.62	
26 05 33 13-0966	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	299.27	35.94
			For Elevated Installation >10' To 15' Above Floor, Add	7.19	
			For Elevated Installation >15' To 20' Above Floor, Add	14.37	
			For Elevated Installation >20' To 25' Above Floor, Add	17.97	
			For Elevated Installation >25' To 30' Above Floor, Add	25.15	
			For Elevated Installation >30' To 35' Above Floor, Add	28.75	
			For Elevated Installation >35' To 40' Above Floor, Add	35.94	
			For Elevated Installation >40' Above Floor, Add	39.53	
			For Work In Restricted Working Space, Add	21.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.56	
26 05 33 13-0967	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	330.82	40.84
			For Elevated Installation >10' To 15' Above Floor, Add	8.17	
			For Elevated Installation >15' To 20' Above Floor, Add	16.33	
			For Elevated Installation >20' To 25' Above Floor, Add	20.42	
			For Elevated Installation >25' To 30' Above Floor, Add	28.58	
			For Elevated Installation >30' To 35' Above Floor, Add	32.67	
			For Elevated Installation >35' To 40' Above Floor, Add	40.84	
			For Elevated Installation >40' Above Floor, Add	44.92	
			For Work In Restricted Working Space, Add	24.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.50	
26 05 33 13-0968	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	415.81	44.92
			For Elevated Installation >10' To 15' Above Floor, Add	8.98	
			For Elevated Installation >15' To 20' Above Floor, Add	17.97	
			For Elevated Installation >20' To 25' Above Floor, Add	22.46	
			For Elevated Installation >25' To 30' Above Floor, Add	31.44	
			For Elevated Installation >30' To 35' Above Floor, Add	35.94	
			For Elevated Installation >35' To 40' Above Floor, Add	44.92	
			For Elevated Installation >40' Above Floor, Add	49.41	
			For Work In Restricted Working Space, Add	26.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95	
26 05 33 13-0969	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,111.22	56.36
			For Elevated Installation >10' To 15' Above Floor, Add	11.27	
			For Elevated Installation >15' To 20' Above Floor, Add	22.54	
			For Elevated Installation >20' To 25' Above Floor, Add	28.18	
			For Elevated Installation >25' To 30' Above Floor, Add	39.45	
			For Elevated Installation >30' To 35' Above Floor, Add	45.08	
			For Elevated Installation >35' To 40' Above Floor, Add	56.35	
			For Elevated Installation >40' Above Floor, Add	61.99	
			For Work In Restricted Working Space, Add	33.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.81	
26 05 33 13-0970	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,329.43	76.77
			For Elevated Installation >10' To 15' Above Floor, Add	15.36	
			For Elevated Installation >15' To 20' Above Floor, Add	30.71	
			For Elevated Installation >20' To 25' Above Floor, Add	38.39	
			For Elevated Installation >25' To 30' Above Floor, Add	53.75	
			For Elevated Installation >30' To 35' Above Floor, Add	61.42	
			For Elevated Installation >35' To 40' Above Floor, Add	76.78	
			For Elevated Installation >40' Above Floor, Add	84.46	
			For Work In Restricted Working Space, Add	46.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.07	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0971 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,769.92	112.71
For Elevated Installation >10' To 15' Above Floor, Add	22.54	
For Elevated Installation >15' To 20' Above Floor, Add	45.08	
For Elevated Installation >20' To 25' Above Floor, Add	56.35	
For Elevated Installation >25' To 30' Above Floor, Add	78.89	
For Elevated Installation >30' To 35' Above Floor, Add	90.16	
For Elevated Installation >35' To 40' Above Floor, Add	112.71	
For Elevated Installation >40' Above Floor, Add	123.98	
For Work In Restricted Working Space, Add	67.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.62	
26 05 33 13-0972 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fittings (26 05 33 13-0848)		
26 05 33 13-0973 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	109.52	20.42
For Elevated Installation >10' To 15' Above Floor, Add	4.08	
For Elevated Installation >15' To 20' Above Floor, Add	8.17	
For Elevated Installation >20' To 25' Above Floor, Add	10.21	
For Elevated Installation >25' To 30' Above Floor, Add	14.29	
For Elevated Installation >30' To 35' Above Floor, Add	16.34	
For Elevated Installation >35' To 40' Above Floor, Add	20.42	
For Elevated Installation >40' Above Floor, Add	22.46	
For Work In Restricted Working Space, Add	12.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 33 13-0974 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	135.13	26.95
For Elevated Installation >10' To 15' Above Floor, Add	5.39	
For Elevated Installation >15' To 20' Above Floor, Add	10.78	
For Elevated Installation >20' To 25' Above Floor, Add	13.48	
For Elevated Installation >25' To 30' Above Floor, Add	18.87	
For Elevated Installation >30' To 35' Above Floor, Add	21.56	
For Elevated Installation >35' To 40' Above Floor, Add	26.96	
For Elevated Installation >40' Above Floor, Add	29.65	
For Work In Restricted Working Space, Add	16.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.17	
26 05 33 13-0975 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	185.23	31.04
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.42	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.73	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
For Work In Restricted Working Space, Add	18.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.62	
26 05 33 13-0976 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	296.68	35.94
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
For Work In Restricted Working Space, Add	21.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.56	
26 05 33 13-0977 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	320.40	40.84
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
For Work In Restricted Working Space, Add	24.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.50	
26 05 33 13-0978 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	415.93	44.92
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	
For Work In Restricted Working Space, Add	26.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95	
26 05 33 13-0979 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,066.75	56.36
For Elevated Installation >10' To 15' Above Floor, Add	11.27	
For Elevated Installation >15' To 20' Above Floor, Add	22.54	
For Elevated Installation >20' To 25' Above Floor, Add	28.18	
For Elevated Installation >25' To 30' Above Floor, Add	39.45	
For Elevated Installation >30' To 35' Above Floor, Add	45.08	
For Elevated Installation >35' To 40' Above Floor, Add	56.35	
For Elevated Installation >40' Above Floor, Add	61.99	
For Work In Restricted Working Space, Add	33.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.81	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0980	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	1,296.98	76.77
		For Elevated Installation >10' To 15' Above Floor, Add	15.36	
		For Elevated Installation >15' To 20' Above Floor, Add	30.71	
		For Elevated Installation >20' To 25' Above Floor, Add	38.39	
		For Elevated Installation >25' To 30' Above Floor, Add	53.75	
		For Elevated Installation >30' To 35' Above Floor, Add	61.42	
		For Elevated Installation >35' To 40' Above Floor, Add	76.78	
		For Elevated Installation >40' Above Floor, Add	84.46	
		For Work In Restricted Working Space, Add	46.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.07	
26 05 33 13-0981	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	1,769.84	112.71
		For Elevated Installation >10' To 15' Above Floor, Add	22.54	
		For Elevated Installation >15' To 20' Above Floor, Add	45.08	
		For Elevated Installation >20' To 25' Above Floor, Add	56.35	
		For Elevated Installation >25' To 30' Above Floor, Add	78.89	
		For Elevated Installation >30' To 35' Above Floor, Add	90.16	
		For Elevated Installation >35' To 40' Above Floor, Add	112.71	
		For Elevated Installation >40' Above Floor, Add	123.98	
		For Work In Restricted Working Space, Add	67.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.62	
26 05 33 13-0982 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fittings				
		(26 05 33 13-0848)		
26 05 33 13-0983	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting	99.68	20.42
		For Elevated Installation >10' To 15' Above Floor, Add	4.08	
		For Elevated Installation >15' To 20' Above Floor, Add	8.17	
		For Elevated Installation >20' To 25' Above Floor, Add	10.21	
		For Elevated Installation >25' To 30' Above Floor, Add	14.29	
		For Elevated Installation >30' To 35' Above Floor, Add	16.34	
		For Elevated Installation >35' To 40' Above Floor, Add	20.42	
		For Elevated Installation >40' Above Floor, Add	22.46	
		For Work In Restricted Working Space, Add	12.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 33 13-0984	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting	120.18	26.95
		For Elevated Installation >10' To 15' Above Floor, Add	5.39	
		For Elevated Installation >15' To 20' Above Floor, Add	10.78	
		For Elevated Installation >20' To 25' Above Floor, Add	13.48	
		For Elevated Installation >25' To 30' Above Floor, Add	18.87	
		For Elevated Installation >30' To 35' Above Floor, Add	21.56	
		For Elevated Installation >35' To 40' Above Floor, Add	26.96	
		For Elevated Installation >40' Above Floor, Add	29.65	
		For Work In Restricted Working Space, Add	16.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.17	
26 05 33 13-0985	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting	141.56	31.04
		For Elevated Installation >10' To 15' Above Floor, Add	6.21	
		For Elevated Installation >15' To 20' Above Floor, Add	12.42	
		For Elevated Installation >20' To 25' Above Floor, Add	15.52	
		For Elevated Installation >25' To 30' Above Floor, Add	21.73	
		For Elevated Installation >30' To 35' Above Floor, Add	24.83	
		For Elevated Installation >35' To 40' Above Floor, Add	31.04	
		For Elevated Installation >40' Above Floor, Add	34.14	
		For Work In Restricted Working Space, Add	18.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.62	
26 05 33 13-0986	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting	198.41	35.94
		For Elevated Installation >10' To 15' Above Floor, Add	7.19	
		For Elevated Installation >15' To 20' Above Floor, Add	14.37	
		For Elevated Installation >20' To 25' Above Floor, Add	17.97	
		For Elevated Installation >25' To 30' Above Floor, Add	25.15	
		For Elevated Installation >30' To 35' Above Floor, Add	28.75	
		For Elevated Installation >35' To 40' Above Floor, Add	35.94	
		For Elevated Installation >40' Above Floor, Add	39.53	
		For Work In Restricted Working Space, Add	21.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.56	
26 05 33 13-0987	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting	231.39	40.84
		For Elevated Installation >10' To 15' Above Floor, Add	8.17	
		For Elevated Installation >15' To 20' Above Floor, Add	16.33	
		For Elevated Installation >20' To 25' Above Floor, Add	20.42	
		For Elevated Installation >25' To 30' Above Floor, Add	28.58	
		For Elevated Installation >30' To 35' Above Floor, Add	32.67	
		For Elevated Installation >35' To 40' Above Floor, Add	40.84	
		For Elevated Installation >40' Above Floor, Add	44.92	
		For Work In Restricted Working Space, Add	24.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.50	
26 05 33 13-0988	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting	351.62	44.92
		For Elevated Installation >10' To 15' Above Floor, Add	8.98	
		For Elevated Installation >15' To 20' Above Floor, Add	17.97	
		For Elevated Installation >20' To 25' Above Floor, Add	22.46	
		For Elevated Installation >25' To 30' Above Floor, Add	31.44	
		For Elevated Installation >30' To 35' Above Floor, Add	35.94	
		For Elevated Installation >35' To 40' Above Floor, Add	44.92	
		For Elevated Installation >40' Above Floor, Add	49.41	
		For Work In Restricted Working Space, Add	26.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0989	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	942.89 11.27 22.54 28.18 39.45 45.08 56.35 61.99 33.81 33.81	56.36
26 05 33 13-0990	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,065.64 15.36 30.71 38.39 53.75 61.42 76.78 84.46 46.07 46.07	76.77
26 05 33 13-0991	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,365.62 22.54 45.08 56.35 78.89 90.16 112.71 123.98 67.62 67.62	112.71
26 05 33 13-0992 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings (26 05 33 13-0948)				
26 05 33 13-0993	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	165.53 4.08 8.17 10.21 14.29 16.34 20.42 22.46 12.25 12.25	20.42
26 05 33 13-0994	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	248.24 5.39 10.78 13.48 18.87 21.56 26.96 29.65 16.17 16.17	26.95
26 05 33 13-0995	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	311.15 6.21 12.42 15.52 21.73 24.83 31.04 34.14 18.62 18.62	31.04
26 05 33 13-0996	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	359.19 7.19 14.37 17.97 25.15 28.75 35.94 39.53 21.56 21.56	35.94



Electrical		26	26
Common Work Results for Electrical		26 05	
Raceway and Boxes for Electrical Systems		26 05 33	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0997	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	407.94	40.84
		For Elevated Installation >10' To 15' Above Floor, Add	8.17	
		For Elevated Installation >15' To 20' Above Floor, Add	16.33	
		For Elevated Installation >20' To 25' Above Floor, Add	20.42	
		For Elevated Installation >25' To 30' Above Floor, Add	28.58	
		For Elevated Installation >30' To 35' Above Floor, Add	32.67	
		For Elevated Installation >35' To 40' Above Floor, Add	40.84	
		For Elevated Installation >40' Above Floor, Add	44.92	
		For Work In Restricted Working Space, Add	24.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.50	
26 05 33 13-0998	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	533.99	44.92
		For Elevated Installation >10' To 15' Above Floor, Add	8.98	
		For Elevated Installation >15' To 20' Above Floor, Add	17.97	
		For Elevated Installation >20' To 25' Above Floor, Add	22.46	
		For Elevated Installation >25' To 30' Above Floor, Add	31.44	
		For Elevated Installation >30' To 35' Above Floor, Add	35.94	
		For Elevated Installation >35' To 40' Above Floor, Add	44.92	
		For Elevated Installation >40' Above Floor, Add	49.41	
		For Work In Restricted Working Space, Add	26.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95	
26 05 33 13-0999	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,652.61	56.36
		For Elevated Installation >10' To 15' Above Floor, Add	11.27	
		For Elevated Installation >15' To 20' Above Floor, Add	22.54	
		For Elevated Installation >20' To 25' Above Floor, Add	28.18	
		For Elevated Installation >25' To 30' Above Floor, Add	39.45	
		For Elevated Installation >30' To 35' Above Floor, Add	45.08	
		For Elevated Installation >35' To 40' Above Floor, Add	56.35	
		For Elevated Installation >40' Above Floor, Add	61.99	
		For Work In Restricted Working Space, Add	33.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.81	
26 05 33 13-1000	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,933.23	76.77
		For Elevated Installation >10' To 15' Above Floor, Add	15.36	
		For Elevated Installation >15' To 20' Above Floor, Add	30.71	
		For Elevated Installation >20' To 25' Above Floor, Add	38.39	
		For Elevated Installation >25' To 30' Above Floor, Add	53.75	
		For Elevated Installation >30' To 35' Above Floor, Add	61.42	
		For Elevated Installation >35' To 40' Above Floor, Add	76.78	
		For Elevated Installation >40' Above Floor, Add	84.46	
		For Work In Restricted Working Space, Add	46.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.07	
26 05 33 13-1001	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	2,382.90	112.71
		For Elevated Installation >10' To 15' Above Floor, Add	22.54	
		For Elevated Installation >15' To 20' Above Floor, Add	45.08	
		For Elevated Installation >20' To 25' Above Floor, Add	56.35	
		For Elevated Installation >25' To 30' Above Floor, Add	78.89	
		For Elevated Installation >30' To 35' Above Floor, Add	90.16	
		For Elevated Installation >35' To 40' Above Floor, Add	112.71	
		For Elevated Installation >40' Above Floor, Add	123.98	
		For Work In Restricted Working Space, Add	67.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.62	
26 05 33 13-1002		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings (26 05 33 13-0848)		
26 05 33 13-1003	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	183.01	20.42
		For Elevated Installation >10' To 15' Above Floor, Add	4.08	
		For Elevated Installation >15' To 20' Above Floor, Add	8.17	
		For Elevated Installation >20' To 25' Above Floor, Add	10.21	
		For Elevated Installation >25' To 30' Above Floor, Add	14.29	
		For Elevated Installation >30' To 35' Above Floor, Add	16.34	
		For Elevated Installation >35' To 40' Above Floor, Add	20.42	
		For Elevated Installation >40' Above Floor, Add	22.46	
		For Work In Restricted Working Space, Add	12.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 33 13-1004	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	264.73	26.95
		For Elevated Installation >10' To 15' Above Floor, Add	5.39	
		For Elevated Installation >15' To 20' Above Floor, Add	10.78	
		For Elevated Installation >20' To 25' Above Floor, Add	13.48	
		For Elevated Installation >25' To 30' Above Floor, Add	18.87	
		For Elevated Installation >30' To 35' Above Floor, Add	21.56	
		For Elevated Installation >35' To 40' Above Floor, Add	26.96	
		For Elevated Installation >40' Above Floor, Add	29.65	
		For Work In Restricted Working Space, Add	16.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.17	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1005	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....		314.29	31.04
		For Elevated Installation >10' To 15' Above Floor, Add		6.21	
		For Elevated Installation >15' To 20' Above Floor, Add		12.42	
		For Elevated Installation >20' To 25' Above Floor, Add		15.52	
		For Elevated Installation >25' To 30' Above Floor, Add		21.73	
		For Elevated Installation >30' To 35' Above Floor, Add		24.83	
		For Elevated Installation >35' To 40' Above Floor, Add		31.04	
		For Elevated Installation >40' Above Floor, Add		34.14	
		For Work In Restricted Working Space, Add		18.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		18.62	
26 05 33 13-1006	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....		364.36	35.94
		For Elevated Installation >10' To 15' Above Floor, Add		7.19	
		For Elevated Installation >15' To 20' Above Floor, Add		14.37	
		For Elevated Installation >20' To 25' Above Floor, Add		17.97	
		For Elevated Installation >25' To 30' Above Floor, Add		25.15	
		For Elevated Installation >30' To 35' Above Floor, Add		28.75	
		For Elevated Installation >35' To 40' Above Floor, Add		35.94	
		For Elevated Installation >40' Above Floor, Add		39.53	
		For Work In Restricted Working Space, Add		21.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		21.56	
26 05 33 13-1007	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....		422.13	40.84
		For Elevated Installation >10' To 15' Above Floor, Add		8.17	
		For Elevated Installation >15' To 20' Above Floor, Add		16.33	
		For Elevated Installation >20' To 25' Above Floor, Add		20.42	
		For Elevated Installation >25' To 30' Above Floor, Add		28.58	
		For Elevated Installation >30' To 35' Above Floor, Add		32.67	
		For Elevated Installation >35' To 40' Above Floor, Add		40.84	
		For Elevated Installation >40' Above Floor, Add		44.92	
		For Work In Restricted Working Space, Add		24.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		24.50	
26 05 33 13-1008	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....		658.70	44.92
		For Elevated Installation >10' To 15' Above Floor, Add		8.98	
		For Elevated Installation >15' To 20' Above Floor, Add		17.97	
		For Elevated Installation >20' To 25' Above Floor, Add		22.46	
		For Elevated Installation >25' To 30' Above Floor, Add		31.44	
		For Elevated Installation >30' To 35' Above Floor, Add		35.94	
		For Elevated Installation >35' To 40' Above Floor, Add		44.92	
		For Elevated Installation >40' Above Floor, Add		49.41	
		For Work In Restricted Working Space, Add		26.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		26.95	
26 05 33 13-1009	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....		1,840.78	56.36
		For Elevated Installation >10' To 15' Above Floor, Add		11.27	
		For Elevated Installation >15' To 20' Above Floor, Add		22.54	
		For Elevated Installation >20' To 25' Above Floor, Add		28.18	
		For Elevated Installation >25' To 30' Above Floor, Add		39.45	
		For Elevated Installation >30' To 35' Above Floor, Add		45.08	
		For Elevated Installation >35' To 40' Above Floor, Add		56.35	
		For Elevated Installation >40' Above Floor, Add		61.99	
		For Work In Restricted Working Space, Add		33.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		33.81	
26 05 33 13-1010	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....		2,590.18	76.77
		For Elevated Installation >10' To 15' Above Floor, Add		15.36	
		For Elevated Installation >15' To 20' Above Floor, Add		30.71	
		For Elevated Installation >20' To 25' Above Floor, Add		38.39	
		For Elevated Installation >25' To 30' Above Floor, Add		53.75	
		For Elevated Installation >30' To 35' Above Floor, Add		61.42	
		For Elevated Installation >35' To 40' Above Floor, Add		76.78	
		For Elevated Installation >40' Above Floor, Add		84.46	
		For Work In Restricted Working Space, Add		46.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		46.07	
26 05 33 13-1011	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....		2,715.47	112.71
		For Elevated Installation >10' To 15' Above Floor, Add		22.54	
		For Elevated Installation >15' To 20' Above Floor, Add		45.08	
		For Elevated Installation >20' To 25' Above Floor, Add		56.35	
		For Elevated Installation >25' To 30' Above Floor, Add		78.89	
		For Elevated Installation >30' To 35' Above Floor, Add		90.16	
		For Elevated Installation >35' To 40' Above Floor, Add		112.71	
		For Elevated Installation >40' Above Floor, Add		123.98	
		For Work In Restricted Working Space, Add		67.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		67.62	
26 05 33 13-1012		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings (26 05 33 13-0848)			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1013	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	146.26	20.42
			For Elevated Installation >10' To 15' Above Floor, Add	4.08	
			For Elevated Installation >15' To 20' Above Floor, Add	8.17	
			For Elevated Installation >20' To 25' Above Floor, Add	10.21	
			For Elevated Installation >25' To 30' Above Floor, Add	14.29	
			For Elevated Installation >30' To 35' Above Floor, Add	16.34	
			For Elevated Installation >35' To 40' Above Floor, Add	20.42	
			For Elevated Installation >40' Above Floor, Add	22.46	
			For Work In Restricted Working Space, Add	12.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 33 13-1014	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	184.95	26.95
			For Elevated Installation >10' To 15' Above Floor, Add	5.39	
			For Elevated Installation >15' To 20' Above Floor, Add	10.78	
			For Elevated Installation >20' To 25' Above Floor, Add	13.48	
			For Elevated Installation >25' To 30' Above Floor, Add	18.87	
			For Elevated Installation >30' To 35' Above Floor, Add	21.56	
			For Elevated Installation >35' To 40' Above Floor, Add	26.96	
			For Elevated Installation >40' Above Floor, Add	29.65	
			For Work In Restricted Working Space, Add	16.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.17	
26 05 33 13-1015	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	221.17	31.04
			For Elevated Installation >10' To 15' Above Floor, Add	6.21	
			For Elevated Installation >15' To 20' Above Floor, Add	12.42	
			For Elevated Installation >20' To 25' Above Floor, Add	15.52	
			For Elevated Installation >25' To 30' Above Floor, Add	21.73	
			For Elevated Installation >30' To 35' Above Floor, Add	24.83	
			For Elevated Installation >35' To 40' Above Floor, Add	31.04	
			For Elevated Installation >40' Above Floor, Add	34.14	
			For Work In Restricted Working Space, Add	18.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.62	
26 05 33 13-1016	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	245.58	35.94
			For Elevated Installation >10' To 15' Above Floor, Add	7.19	
			For Elevated Installation >15' To 20' Above Floor, Add	14.37	
			For Elevated Installation >20' To 25' Above Floor, Add	17.97	
			For Elevated Installation >25' To 30' Above Floor, Add	25.15	
			For Elevated Installation >30' To 35' Above Floor, Add	28.75	
			For Elevated Installation >35' To 40' Above Floor, Add	35.94	
			For Elevated Installation >40' Above Floor, Add	39.53	
			For Work In Restricted Working Space, Add	21.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.56	
26 05 33 13-1017	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	328.21	40.84
			For Elevated Installation >10' To 15' Above Floor, Add	8.17	
			For Elevated Installation >15' To 20' Above Floor, Add	16.33	
			For Elevated Installation >20' To 25' Above Floor, Add	20.42	
			For Elevated Installation >25' To 30' Above Floor, Add	28.58	
			For Elevated Installation >30' To 35' Above Floor, Add	32.67	
			For Elevated Installation >35' To 40' Above Floor, Add	40.84	
			For Elevated Installation >40' Above Floor, Add	44.92	
			For Work In Restricted Working Space, Add	24.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.50	
26 05 33 13-1018	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	459.66	44.92
			For Elevated Installation >10' To 15' Above Floor, Add	8.98	
			For Elevated Installation >15' To 20' Above Floor, Add	17.97	
			For Elevated Installation >20' To 25' Above Floor, Add	22.46	
			For Elevated Installation >25' To 30' Above Floor, Add	31.44	
			For Elevated Installation >30' To 35' Above Floor, Add	35.94	
			For Elevated Installation >35' To 40' Above Floor, Add	44.92	
			For Elevated Installation >40' Above Floor, Add	49.41	
			For Work In Restricted Working Space, Add	26.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95	
26 05 33 13-1019	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,496.76	56.36
			For Elevated Installation >10' To 15' Above Floor, Add	11.27	
			For Elevated Installation >15' To 20' Above Floor, Add	22.54	
			For Elevated Installation >20' To 25' Above Floor, Add	28.18	
			For Elevated Installation >25' To 30' Above Floor, Add	39.45	
			For Elevated Installation >30' To 35' Above Floor, Add	45.08	
			For Elevated Installation >35' To 40' Above Floor, Add	56.35	
			For Elevated Installation >40' Above Floor, Add	61.99	
			For Work In Restricted Working Space, Add	33.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.81	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1020	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	1,689.53	76.77	
		For Elevated Installation >10' To 15' Above Floor, Add	15.36		
		For Elevated Installation >15' To 20' Above Floor, Add	30.71		
		For Elevated Installation >20' To 25' Above Floor, Add	38.39		
		For Elevated Installation >25' To 30' Above Floor, Add	53.75		
		For Elevated Installation >30' To 35' Above Floor, Add	61.42		
		For Elevated Installation >35' To 40' Above Floor, Add	76.78		
		For Elevated Installation >40' Above Floor, Add	84.46		
		For Work In Restricted Working Space, Add	46.07		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.07		
26 05 33 13-1021	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	2,014.94	112.71	
		For Elevated Installation >10' To 15' Above Floor, Add	22.54		
		For Elevated Installation >15' To 20' Above Floor, Add	45.08		
		For Elevated Installation >20' To 25' Above Floor, Add	56.35		
		For Elevated Installation >25' To 30' Above Floor, Add	78.89		
		For Elevated Installation >30' To 35' Above Floor, Add	90.16		
		For Elevated Installation >35' To 40' Above Floor, Add	112.71		
		For Elevated Installation >40' Above Floor, Add	123.98		
		For Work In Restricted Working Space, Add	67.62		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.62		
26 05 33 13-1022		Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0848)			
		Note: Suitable for use in hazardous locations. Class I, Div 2.			
26 05 33 13-1023	EA	1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	139.32	39.21	
		For Elevated Installation >10' To 15' Above Floor, Add	7.84		
		For Elevated Installation >15' To 20' Above Floor, Add	15.68		
		For Elevated Installation >20' To 25' Above Floor, Add	19.61		
		For Elevated Installation >25' To 30' Above Floor, Add	27.45		
		For Elevated Installation >30' To 35' Above Floor, Add	31.37		
		For Elevated Installation >35' To 40' Above Floor, Add	39.21		
		For Elevated Installation >40' Above Floor, Add	43.13		
		For Work In Restricted Working Space, Add	23.53		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.53		
26 05 33 13-1024	EA	3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	157.37	44.92	
		For Elevated Installation >10' To 15' Above Floor, Add	8.98		
		For Elevated Installation >15' To 20' Above Floor, Add	17.97		
		For Elevated Installation >20' To 25' Above Floor, Add	22.46		
		For Elevated Installation >25' To 30' Above Floor, Add	31.44		
		For Elevated Installation >30' To 35' Above Floor, Add	35.94		
		For Elevated Installation >35' To 40' Above Floor, Add	44.92		
		For Elevated Installation >40' Above Floor, Add	49.41		
		For Work In Restricted Working Space, Add	26.95		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95		
26 05 33 13-1025	EA	1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	193.27	51.46	
		For Elevated Installation >10' To 15' Above Floor, Add	10.29		
		For Elevated Installation >15' To 20' Above Floor, Add	20.58		
		For Elevated Installation >20' To 25' Above Floor, Add	25.73		
		For Elevated Installation >25' To 30' Above Floor, Add	36.02		
		For Elevated Installation >30' To 35' Above Floor, Add	41.16		
		For Elevated Installation >35' To 40' Above Floor, Add	51.46		
		For Elevated Installation >40' Above Floor, Add	56.60		
		For Work In Restricted Working Space, Add	30.87		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.87		
26 05 33 13-1026	EA	1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	250.42	59.62	
		For Elevated Installation >10' To 15' Above Floor, Add	11.93		
		For Elevated Installation >15' To 20' Above Floor, Add	23.85		
		For Elevated Installation >20' To 25' Above Floor, Add	29.81		
		For Elevated Installation >25' To 30' Above Floor, Add	41.74		
		For Elevated Installation >30' To 35' Above Floor, Add	47.70		
		For Elevated Installation >35' To 40' Above Floor, Add	59.63		
		For Elevated Installation >40' Above Floor, Add	65.59		
		For Work In Restricted Working Space, Add	35.78		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.78		
26 05 33 13-1027	EA	1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	290.85	65.34	
		For Elevated Installation >10' To 15' Above Floor, Add	13.07		
		For Elevated Installation >15' To 20' Above Floor, Add	26.14		
		For Elevated Installation >20' To 25' Above Floor, Add	32.67		
		For Elevated Installation >25' To 30' Above Floor, Add	45.74		
		For Elevated Installation >30' To 35' Above Floor, Add	52.27		
		For Elevated Installation >35' To 40' Above Floor, Add	65.34		
		For Elevated Installation >40' Above Floor, Add	71.87		
		For Work In Restricted Working Space, Add	39.20		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.20		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1028	EA		2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	392.96	78.41
			For Elevated Installation >10' To 15' Above Floor, Add	15.68	
			For Elevated Installation >15' To 20' Above Floor, Add	31.36	
			For Elevated Installation >20' To 25' Above Floor, Add	39.21	
			For Elevated Installation >25' To 30' Above Floor, Add	54.89	
			For Elevated Installation >30' To 35' Above Floor, Add	62.73	
			For Elevated Installation >35' To 40' Above Floor, Add	78.41	
			For Elevated Installation >40' Above Floor, Add	86.25	
			For Work In Restricted Working Space, Add	47.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.05	
26 05 33 13-1029	EA		2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	653.88	110.27
			For Elevated Installation >10' To 15' Above Floor, Add	22.05	
			For Elevated Installation >15' To 20' Above Floor, Add	44.11	
			For Elevated Installation >20' To 25' Above Floor, Add	55.13	
			For Elevated Installation >25' To 30' Above Floor, Add	77.19	
			For Elevated Installation >30' To 35' Above Floor, Add	88.21	
			For Elevated Installation >35' To 40' Above Floor, Add	110.27	
			For Elevated Installation >40' Above Floor, Add	121.29	
			For Work In Restricted Working Space, Add	66.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.16	
26 05 33 13-1030	EA		3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	839.17	147.02
			For Elevated Installation >10' To 15' Above Floor, Add	29.40	
			For Elevated Installation >15' To 20' Above Floor, Add	58.81	
			For Elevated Installation >20' To 25' Above Floor, Add	73.51	
			For Elevated Installation >25' To 30' Above Floor, Add	102.91	
			For Elevated Installation >30' To 35' Above Floor, Add	117.62	
			For Elevated Installation >35' To 40' Above Floor, Add	147.02	
			For Elevated Installation >40' Above Floor, Add	161.72	
			For Work In Restricted Working Space, Add	88.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.21	
26 05 33 13-1031	EA		3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,159.56	183.77
			For Elevated Installation >10' To 15' Above Floor, Add	36.75	
			For Elevated Installation >15' To 20' Above Floor, Add	73.51	
			For Elevated Installation >20' To 25' Above Floor, Add	91.89	
			For Elevated Installation >25' To 30' Above Floor, Add	128.64	
			For Elevated Installation >30' To 35' Above Floor, Add	147.02	
			For Elevated Installation >35' To 40' Above Floor, Add	183.77	
			For Elevated Installation >40' Above Floor, Add	202.15	
			For Work In Restricted Working Space, Add	110.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.26	
26 05 33 13-1032	EA		4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,335.39	223.79
			For Elevated Installation >10' To 15' Above Floor, Add	44.76	
			For Elevated Installation >15' To 20' Above Floor, Add	89.52	
			For Elevated Installation >20' To 25' Above Floor, Add	111.90	
			For Elevated Installation >25' To 30' Above Floor, Add	156.66	
			For Elevated Installation >30' To 35' Above Floor, Add	179.04	
			For Elevated Installation >35' To 40' Above Floor, Add	223.80	
			For Elevated Installation >40' Above Floor, Add	246.17	
			For Work In Restricted Working Space, Add	134.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.28	
26 05 33 13-1033			Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0848)		
			Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1034	EA		1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	182.09	51.46
			For Elevated Installation >10' To 15' Above Floor, Add	10.29	
			For Elevated Installation >15' To 20' Above Floor, Add	20.58	
			For Elevated Installation >20' To 25' Above Floor, Add	25.73	
			For Elevated Installation >25' To 30' Above Floor, Add	36.02	
			For Elevated Installation >30' To 35' Above Floor, Add	41.16	
			For Elevated Installation >35' To 40' Above Floor, Add	51.46	
			For Elevated Installation >40' Above Floor, Add	56.60	
			For Work In Restricted Working Space, Add	30.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.87	
26 05 33 13-1035	EA		3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	207.07	57.17
			For Elevated Installation >10' To 15' Above Floor, Add	11.44	
			For Elevated Installation >15' To 20' Above Floor, Add	22.87	
			For Elevated Installation >20' To 25' Above Floor, Add	28.59	
			For Elevated Installation >25' To 30' Above Floor, Add	40.02	
			For Elevated Installation >30' To 35' Above Floor, Add	45.74	
			For Elevated Installation >35' To 40' Above Floor, Add	57.18	
			For Elevated Installation >40' Above Floor, Add	62.89	
			For Work In Restricted Working Space, Add	34.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.31	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1036 EA 1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 250.67		62.89
For Elevated Installation >10' To 15' Above Floor, Add	12.58	
For Elevated Installation >15' To 20' Above Floor, Add	25.16	
For Elevated Installation >20' To 25' Above Floor, Add	31.45	
For Elevated Installation >25' To 30' Above Floor, Add	44.02	
For Elevated Installation >30' To 35' Above Floor, Add	50.31	
For Elevated Installation >35' To 40' Above Floor, Add	62.89	
For Elevated Installation >40' Above Floor, Add	69.18	
For Work In Restricted Working Space, Add	37.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.73	
26 05 33 13-1037 EA 1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 332.97		71.87
For Elevated Installation >10' To 15' Above Floor, Add	14.37	
For Elevated Installation >15' To 20' Above Floor, Add	28.75	
For Elevated Installation >20' To 25' Above Floor, Add	35.94	
For Elevated Installation >25' To 30' Above Floor, Add	50.31	
For Elevated Installation >30' To 35' Above Floor, Add	57.50	
For Elevated Installation >35' To 40' Above Floor, Add	71.87	
For Elevated Installation >40' Above Floor, Add	79.06	
For Work In Restricted Working Space, Add	43.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.12	
26 05 33 13-1038 EA 1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 391.38		78.41
For Elevated Installation >10' To 15' Above Floor, Add	15.68	
For Elevated Installation >15' To 20' Above Floor, Add	31.36	
For Elevated Installation >20' To 25' Above Floor, Add	39.21	
For Elevated Installation >25' To 30' Above Floor, Add	54.89	
For Elevated Installation >30' To 35' Above Floor, Add	62.73	
For Elevated Installation >35' To 40' Above Floor, Add	78.41	
For Elevated Installation >40' Above Floor, Add	86.25	
For Work In Restricted Working Space, Add	47.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.05	
26 05 33 13-1039 EA 2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 529.68		96.38
For Elevated Installation >10' To 15' Above Floor, Add	19.28	
For Elevated Installation >15' To 20' Above Floor, Add	38.55	
For Elevated Installation >20' To 25' Above Floor, Add	48.19	
For Elevated Installation >25' To 30' Above Floor, Add	67.47	
For Elevated Installation >30' To 35' Above Floor, Add	77.10	
For Elevated Installation >35' To 40' Above Floor, Add	96.38	
For Elevated Installation >40' Above Floor, Add	106.02	
For Work In Restricted Working Space, Add	57.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.83	
26 05 33 13-1040 Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0848)		
Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1041 EA 1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 160.14		44.92
For Elevated Installation >10' To 15' Above Floor, Add	8.99	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.45	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.93	
For Elevated Installation >40' Above Floor, Add	49.42	
For Work In Restricted Working Space, Add	26.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.96	
26 05 33 13-1042 EA 3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 183.04		52.28
For Elevated Installation >10' To 15' Above Floor, Add	10.45	
For Elevated Installation >15' To 20' Above Floor, Add	20.91	
For Elevated Installation >20' To 25' Above Floor, Add	26.14	
For Elevated Installation >25' To 30' Above Floor, Add	36.59	
For Elevated Installation >30' To 35' Above Floor, Add	41.82	
For Elevated Installation >35' To 40' Above Floor, Add	52.27	
For Elevated Installation >40' Above Floor, Add	57.50	
For Work In Restricted Working Space, Add	31.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.36	
26 05 33 13-1043 EA 1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 219.52		57.17
For Elevated Installation >10' To 15' Above Floor, Add	11.44	
For Elevated Installation >15' To 20' Above Floor, Add	22.87	
For Elevated Installation >20' To 25' Above Floor, Add	28.59	
For Elevated Installation >25' To 30' Above Floor, Add	40.02	
For Elevated Installation >30' To 35' Above Floor, Add	45.74	
For Elevated Installation >35' To 40' Above Floor, Add	57.18	
For Elevated Installation >40' Above Floor, Add	62.89	
For Work In Restricted Working Space, Add	34.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.31	
26 05 33 13-1044 EA 1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 278.75		65.34
For Elevated Installation >10' To 15' Above Floor, Add	13.07	
For Elevated Installation >15' To 20' Above Floor, Add	26.14	
For Elevated Installation >20' To 25' Above Floor, Add	32.67	
For Elevated Installation >25' To 30' Above Floor, Add	45.74	
For Elevated Installation >30' To 35' Above Floor, Add	52.27	
For Elevated Installation >35' To 40' Above Floor, Add	65.34	
For Elevated Installation >40' Above Floor, Add	71.87	
For Work In Restricted Working Space, Add	39.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.20	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1045	EA	1-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	328.66	71.87
			For Elevated Installation >10' To 15' Above Floor, Add	14.38	
			For Elevated Installation >15' To 20' Above Floor, Add	28.75	
			For Elevated Installation >20' To 25' Above Floor, Add	35.94	
			For Elevated Installation >25' To 30' Above Floor, Add	50.31	
			For Elevated Installation >30' To 35' Above Floor, Add	57.50	
			For Elevated Installation >35' To 40' Above Floor, Add	71.88	
			For Elevated Installation >40' Above Floor, Add	79.06	
			For Work In Restricted Working Space, Add	43.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.13	
26 05 33 13-1046	EA	2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	436.76	84.13
			For Elevated Installation >10' To 15' Above Floor, Add	16.83	
			For Elevated Installation >15' To 20' Above Floor, Add	33.65	
			For Elevated Installation >20' To 25' Above Floor, Add	42.06	
			For Elevated Installation >25' To 30' Above Floor, Add	58.89	
			For Elevated Installation >30' To 35' Above Floor, Add	67.30	
			For Elevated Installation >35' To 40' Above Floor, Add	84.13	
			For Elevated Installation >40' Above Floor, Add	92.54	
			For Work In Restricted Working Space, Add	50.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.48	
26 05 33 13-1047	EA	2-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	698.60	122.51
			For Elevated Installation >10' To 15' Above Floor, Add	24.50	
			For Elevated Installation >15' To 20' Above Floor, Add	49.01	
			For Elevated Installation >20' To 25' Above Floor, Add	61.26	
			For Elevated Installation >25' To 30' Above Floor, Add	85.76	
			For Elevated Installation >30' To 35' Above Floor, Add	98.01	
			For Elevated Installation >35' To 40' Above Floor, Add	122.52	
			For Elevated Installation >40' Above Floor, Add	134.77	
			For Work In Restricted Working Space, Add	73.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.51	
26 05 33 13-1048	EA	3"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	923.77	159.27
			For Elevated Installation >10' To 15' Above Floor, Add	31.85	
			For Elevated Installation >15' To 20' Above Floor, Add	63.70	
			For Elevated Installation >20' To 25' Above Floor, Add	79.63	
			For Elevated Installation >25' To 30' Above Floor, Add	111.48	
			For Elevated Installation >30' To 35' Above Floor, Add	127.41	
			For Elevated Installation >35' To 40' Above Floor, Add	159.26	
			For Elevated Installation >40' Above Floor, Add	175.19	
			For Work In Restricted Working Space, Add	95.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.56	
26 05 33 13-1049	EA	3-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,261.98	196.02
			For Elevated Installation >10' To 15' Above Floor, Add	39.20	
			For Elevated Installation >15' To 20' Above Floor, Add	78.41	
			For Elevated Installation >20' To 25' Above Floor, Add	98.01	
			For Elevated Installation >25' To 30' Above Floor, Add	137.21	
			For Elevated Installation >30' To 35' Above Floor, Add	156.82	
			For Elevated Installation >35' To 40' Above Floor, Add	196.02	
			For Elevated Installation >40' Above Floor, Add	215.62	
			For Work In Restricted Working Space, Add	117.61	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.61	
26 05 33 13-1050	EA	4"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,415.89	236.04
			For Elevated Installation >10' To 15' Above Floor, Add	47.21	
			For Elevated Installation >15' To 20' Above Floor, Add	94.42	
			For Elevated Installation >20' To 25' Above Floor, Add	118.03	
			For Elevated Installation >25' To 30' Above Floor, Add	165.24	
			For Elevated Installation >30' To 35' Above Floor, Add	188.84	
			For Elevated Installation >35' To 40' Above Floor, Add	236.06	
			For Elevated Installation >40' Above Floor, Add	259.66	
			For Work In Restricted Working Space, Add	141.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	141.63	
26 05 33 13-1051			Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined (26 05 33 13-0848)		
26 05 33 13-1052	EA	1/2"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	31.40	4.90
			For Elevated Installation >10' To 15' Above Floor, Add	0.98	
			For Elevated Installation >15' To 20' Above Floor, Add	1.96	
			For Elevated Installation >20' To 25' Above Floor, Add	2.45	
			For Elevated Installation >25' To 30' Above Floor, Add	3.43	
			For Elevated Installation >30' To 35' Above Floor, Add	3.92	
			For Elevated Installation >35' To 40' Above Floor, Add	4.90	
			For Elevated Installation >40' Above Floor, Add	5.39	
			For Work In Restricted Working Space, Add	2.94	
26 05 33 13-1053	EA	3/4"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	35.30	5.71
			For Elevated Installation >10' To 15' Above Floor, Add	1.14	
			For Elevated Installation >15' To 20' Above Floor, Add	2.29	
			For Elevated Installation >20' To 25' Above Floor, Add	2.86	
			For Elevated Installation >25' To 30' Above Floor, Add	4.00	
			For Elevated Installation >30' To 35' Above Floor, Add	4.58	
			For Elevated Installation >35' To 40' Above Floor, Add	5.72	
			For Elevated Installation >40' Above Floor, Add	6.29	
			For Work In Restricted Working Space, Add	3.43	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1054 EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	45.99	7.35
For Elevated Installation >10' To 15' Above Floor, Add	1.47	
For Elevated Installation >15' To 20' Above Floor, Add	2.94	
For Elevated Installation >20' To 25' Above Floor, Add	3.68	
For Elevated Installation >25' To 30' Above Floor, Add	5.15	
For Elevated Installation >30' To 35' Above Floor, Add	5.88	
For Elevated Installation >35' To 40' Above Floor, Add	7.35	
For Elevated Installation >40' Above Floor, Add	8.09	
For Work In Restricted Working Space, Add	4.41	
26 05 33 13-1055 EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	59.00	8.98
For Elevated Installation >10' To 15' Above Floor, Add	1.80	
For Elevated Installation >15' To 20' Above Floor, Add	3.59	
For Elevated Installation >20' To 25' Above Floor, Add	4.49	
For Elevated Installation >25' To 30' Above Floor, Add	6.29	
For Elevated Installation >30' To 35' Above Floor, Add	7.19	
For Elevated Installation >35' To 40' Above Floor, Add	8.99	
For Elevated Installation >40' Above Floor, Add	9.88	
For Work In Restricted Working Space, Add	5.39	
26 05 33 13-1056 EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	66.24	10.61
For Elevated Installation >10' To 15' Above Floor, Add	2.12	
For Elevated Installation >15' To 20' Above Floor, Add	4.25	
For Elevated Installation >20' To 25' Above Floor, Add	5.31	
For Elevated Installation >25' To 30' Above Floor, Add	7.43	
For Elevated Installation >30' To 35' Above Floor, Add	8.50	
For Elevated Installation >35' To 40' Above Floor, Add	10.62	
For Elevated Installation >40' Above Floor, Add	11.68	
For Work In Restricted Working Space, Add	6.37	
26 05 33 13-1057 EA 2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	81.71	12.25
For Elevated Installation >10' To 15' Above Floor, Add	2.45	
For Elevated Installation >15' To 20' Above Floor, Add	4.90	
For Elevated Installation >20' To 25' Above Floor, Add	6.13	
For Elevated Installation >25' To 30' Above Floor, Add	8.58	
For Elevated Installation >30' To 35' Above Floor, Add	9.80	
For Elevated Installation >35' To 40' Above Floor, Add	12.25	
For Elevated Installation >40' Above Floor, Add	13.48	
For Work In Restricted Working Space, Add	7.35	
26 05 33 13-1058 EA 2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	105.12	13.88
For Elevated Installation >10' To 15' Above Floor, Add	2.78	
For Elevated Installation >15' To 20' Above Floor, Add	5.55	
For Elevated Installation >20' To 25' Above Floor, Add	6.94	
For Elevated Installation >25' To 30' Above Floor, Add	9.72	
For Elevated Installation >30' To 35' Above Floor, Add	11.11	
For Elevated Installation >35' To 40' Above Floor, Add	13.89	
For Elevated Installation >40' Above Floor, Add	15.27	
For Work In Restricted Working Space, Add	8.33	
26 05 33 13-1059 EA 3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	116.56	19.60
For Elevated Installation >10' To 15' Above Floor, Add	3.92	
For Elevated Installation >15' To 20' Above Floor, Add	7.84	
For Elevated Installation >20' To 25' Above Floor, Add	9.80	
For Elevated Installation >25' To 30' Above Floor, Add	13.72	
For Elevated Installation >30' To 35' Above Floor, Add	15.68	
For Elevated Installation >35' To 40' Above Floor, Add	19.61	
For Elevated Installation >40' Above Floor, Add	21.57	
For Work In Restricted Working Space, Add	11.76	
26 05 33 13-1060 EA 3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	141.10	22.05
For Elevated Installation >10' To 15' Above Floor, Add	4.41	
For Elevated Installation >15' To 20' Above Floor, Add	8.82	
For Elevated Installation >20' To 25' Above Floor, Add	11.03	
For Elevated Installation >25' To 30' Above Floor, Add	15.44	
For Elevated Installation >30' To 35' Above Floor, Add	17.64	
For Elevated Installation >35' To 40' Above Floor, Add	22.06	
For Elevated Installation >40' Above Floor, Add	24.26	
For Work In Restricted Working Space, Add	13.23	
26 05 33 13-1061 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	152.53	27.77
For Elevated Installation >10' To 15' Above Floor, Add	5.55	
For Elevated Installation >15' To 20' Above Floor, Add	11.11	
For Elevated Installation >20' To 25' Above Floor, Add	13.89	
For Elevated Installation >25' To 30' Above Floor, Add	19.44	
For Elevated Installation >30' To 35' Above Floor, Add	22.22	
For Elevated Installation >35' To 40' Above Floor, Add	27.77	
For Elevated Installation >40' Above Floor, Add	30.55	
For Work In Restricted Working Space, Add	16.66	
26 05 33 13-1062 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies (26 05 33 13-0848)		
26 05 33 13-1063 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	155.68	39.21
For Elevated Installation >10' To 15' Above Floor, Add	7.84	
For Elevated Installation >15' To 20' Above Floor, Add	15.68	
For Elevated Installation >20' To 25' Above Floor, Add	19.60	
For Elevated Installation >25' To 30' Above Floor, Add	27.44	
For Elevated Installation >30' To 35' Above Floor, Add	31.36	
For Elevated Installation >35' To 40' Above Floor, Add	39.21	
For Elevated Installation >40' Above Floor, Add	43.13	
For Work In Restricted Working Space, Add	23.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1064	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	172.94	44.92
			For Elevated Installation >10' To 15' Above Floor, Add	8.98	
			For Elevated Installation >15' To 20' Above Floor, Add	17.97	
			For Elevated Installation >20' To 25' Above Floor, Add	22.46	
			For Elevated Installation >25' To 30' Above Floor, Add	31.44	
			For Elevated Installation >30' To 35' Above Floor, Add	35.94	
			For Elevated Installation >35' To 40' Above Floor, Add	44.92	
			For Elevated Installation >40' Above Floor, Add	49.41	
			For Work In Restricted Working Space, Add	26.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95	
26 05 33 13-1065	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	201.63	51.46
			For Elevated Installation >10' To 15' Above Floor, Add	10.29	
			For Elevated Installation >15' To 20' Above Floor, Add	20.58	
			For Elevated Installation >20' To 25' Above Floor, Add	25.73	
			For Elevated Installation >25' To 30' Above Floor, Add	36.02	
			For Elevated Installation >30' To 35' Above Floor, Add	41.16	
			For Elevated Installation >35' To 40' Above Floor, Add	51.46	
			For Elevated Installation >40' Above Floor, Add	56.60	
			For Work In Restricted Working Space, Add	30.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.87	
26 05 33 13-1066	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	238.81	59.62
			For Elevated Installation >10' To 15' Above Floor, Add	11.93	
			For Elevated Installation >15' To 20' Above Floor, Add	23.85	
			For Elevated Installation >20' To 25' Above Floor, Add	29.81	
			For Elevated Installation >25' To 30' Above Floor, Add	41.74	
			For Elevated Installation >30' To 35' Above Floor, Add	47.70	
			For Elevated Installation >35' To 40' Above Floor, Add	59.63	
			For Elevated Installation >40' Above Floor, Add	65.59	
			For Work In Restricted Working Space, Add	35.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.78	
26 05 33 13-1067	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	294.12	65.34
			For Elevated Installation >10' To 15' Above Floor, Add	13.07	
			For Elevated Installation >15' To 20' Above Floor, Add	26.14	
			For Elevated Installation >20' To 25' Above Floor, Add	32.67	
			For Elevated Installation >25' To 30' Above Floor, Add	45.74	
			For Elevated Installation >30' To 35' Above Floor, Add	52.27	
			For Elevated Installation >35' To 40' Above Floor, Add	65.34	
			For Elevated Installation >40' Above Floor, Add	71.87	
			For Work In Restricted Working Space, Add	39.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.20	
26 05 33 13-1068	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	356.17	78.41
			For Elevated Installation >10' To 15' Above Floor, Add	15.68	
			For Elevated Installation >15' To 20' Above Floor, Add	31.36	
			For Elevated Installation >20' To 25' Above Floor, Add	39.21	
			For Elevated Installation >25' To 30' Above Floor, Add	54.69	
			For Elevated Installation >30' To 35' Above Floor, Add	62.73	
			For Elevated Installation >35' To 40' Above Floor, Add	78.41	
			For Elevated Installation >40' Above Floor, Add	86.25	
			For Work In Restricted Working Space, Add	47.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.05	
26 05 33 13-1069	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	514.62	110.27
			For Elevated Installation >10' To 15' Above Floor, Add	22.05	
			For Elevated Installation >15' To 20' Above Floor, Add	44.10	
			For Elevated Installation >20' To 25' Above Floor, Add	55.13	
			For Elevated Installation >25' To 30' Above Floor, Add	77.18	
			For Elevated Installation >30' To 35' Above Floor, Add	88.21	
			For Elevated Installation >35' To 40' Above Floor, Add	110.26	
			For Elevated Installation >40' Above Floor, Add	121.29	
			For Work In Restricted Working Space, Add	66.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.16	
26 05 33 13-1070	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	661.86	147.02
			For Elevated Installation >10' To 15' Above Floor, Add	29.40	
			For Elevated Installation >15' To 20' Above Floor, Add	58.81	
			For Elevated Installation >20' To 25' Above Floor, Add	73.51	
			For Elevated Installation >25' To 30' Above Floor, Add	102.91	
			For Elevated Installation >30' To 35' Above Floor, Add	117.61	
			For Elevated Installation >35' To 40' Above Floor, Add	147.02	
			For Elevated Installation >40' Above Floor, Add	161.72	
			For Work In Restricted Working Space, Add	88.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.21	
26 05 33 13-1071	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	1,285.12	183.77
			For Elevated Installation >10' To 15' Above Floor, Add	36.75	
			For Elevated Installation >15' To 20' Above Floor, Add	73.51	
			For Elevated Installation >20' To 25' Above Floor, Add	91.89	
			For Elevated Installation >25' To 30' Above Floor, Add	128.64	
			For Elevated Installation >30' To 35' Above Floor, Add	147.02	
			For Elevated Installation >35' To 40' Above Floor, Add	183.77	
			For Elevated Installation >40' Above Floor, Add	202.15	
			For Work In Restricted Working Space, Add	110.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.26	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1072 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,865.98	223.79
For Elevated Installation >10' To 15' Above Floor, Add	44.76	
For Elevated Installation >15' To 20' Above Floor, Add	89.52	
For Elevated Installation >20' To 25' Above Floor, Add	111.90	
For Elevated Installation >25' To 30' Above Floor, Add	156.66	
For Elevated Installation >30' To 35' Above Floor, Add	179.04	
For Elevated Installation >35' To 40' Above Floor, Add	223.80	
For Elevated Installation >40' Above Floor, Add	246.17	
For Work In Restricted Working Space, Add	134.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.28	
26 05 33 13-1073 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies (26 05 33 13-0848)		
26 05 33 13-1074 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	256.26	39.21
For Elevated Installation >10' To 15' Above Floor, Add	7.84	
For Elevated Installation >15' To 20' Above Floor, Add	15.68	
For Elevated Installation >20' To 25' Above Floor, Add	19.60	
For Elevated Installation >25' To 30' Above Floor, Add	27.44	
For Elevated Installation >30' To 35' Above Floor, Add	31.36	
For Elevated Installation >35' To 40' Above Floor, Add	39.21	
For Elevated Installation >40' Above Floor, Add	43.13	
For Work In Restricted Working Space, Add	23.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.52	
26 05 33 13-1075 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	276.93	44.92
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	
For Work In Restricted Working Space, Add	26.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95	
26 05 33 13-1076 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	316.30	51.46
For Elevated Installation >10' To 15' Above Floor, Add	10.29	
For Elevated Installation >15' To 20' Above Floor, Add	20.58	
For Elevated Installation >20' To 25' Above Floor, Add	25.73	
For Elevated Installation >25' To 30' Above Floor, Add	36.02	
For Elevated Installation >30' To 35' Above Floor, Add	41.16	
For Elevated Installation >35' To 40' Above Floor, Add	51.46	
For Elevated Installation >40' Above Floor, Add	56.60	
For Work In Restricted Working Space, Add	30.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.87	
26 05 33 13-1077 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	354.79	59.62
For Elevated Installation >10' To 15' Above Floor, Add	11.93	
For Elevated Installation >15' To 20' Above Floor, Add	23.85	
For Elevated Installation >20' To 25' Above Floor, Add	29.81	
For Elevated Installation >25' To 30' Above Floor, Add	41.74	
For Elevated Installation >30' To 35' Above Floor, Add	47.70	
For Elevated Installation >35' To 40' Above Floor, Add	59.63	
For Elevated Installation >40' Above Floor, Add	65.59	
For Work In Restricted Working Space, Add	35.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.78	
26 05 33 13-1078 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	427.62	65.34
For Elevated Installation >10' To 15' Above Floor, Add	13.07	
For Elevated Installation >15' To 20' Above Floor, Add	26.14	
For Elevated Installation >20' To 25' Above Floor, Add	32.67	
For Elevated Installation >25' To 30' Above Floor, Add	45.74	
For Elevated Installation >30' To 35' Above Floor, Add	52.27	
For Elevated Installation >35' To 40' Above Floor, Add	65.34	
For Elevated Installation >40' Above Floor, Add	71.87	
For Work In Restricted Working Space, Add	39.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.20	
26 05 33 13-1079 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	483.16	78.41
For Elevated Installation >10' To 15' Above Floor, Add	15.68	
For Elevated Installation >15' To 20' Above Floor, Add	31.36	
For Elevated Installation >20' To 25' Above Floor, Add	39.21	
For Elevated Installation >25' To 30' Above Floor, Add	54.89	
For Elevated Installation >30' To 35' Above Floor, Add	62.73	
For Elevated Installation >35' To 40' Above Floor, Add	78.41	
For Elevated Installation >40' Above Floor, Add	86.25	
For Work In Restricted Working Space, Add	47.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.05	
26 05 33 13-1080 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	679.74	110.27
For Elevated Installation >10' To 15' Above Floor, Add	22.05	
For Elevated Installation >15' To 20' Above Floor, Add	44.10	
For Elevated Installation >20' To 25' Above Floor, Add	55.13	
For Elevated Installation >25' To 30' Above Floor, Add	77.18	
For Elevated Installation >30' To 35' Above Floor, Add	88.21	
For Elevated Installation >35' To 40' Above Floor, Add	110.26	
For Elevated Installation >40' Above Floor, Add	121.29	
For Work In Restricted Working Space, Add	66.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1081	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	944.64 29.40 58.81 73.51 102.91 117.61 147.02 161.72 88.21 88.21	147.02
26 05 33 13-1082	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,367.24 36.75 73.51 91.89 128.64 147.02 183.77 202.15 110.26 110.26	183.77
26 05 33 13-1083	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,973.44 44.76 89.52 111.90 156.66 179.04 223.80 246.17 134.28 134.28	223.79
26 05 33 13-1084			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies (26 05 33 13-0848)		
26 05 33 13-1085	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	207.84 7.84 15.68 19.60 27.44 31.36 39.21 43.13 23.52 23.52	39.21
26 05 33 13-1086	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.71 8.98 17.97 22.46 31.44 35.94 44.92 49.41 26.95 26.95	44.92
26 05 33 13-1087	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	255.82 10.29 20.58 25.73 36.02 41.16 51.46 56.60 30.87 30.87	51.46
26 05 33 13-1088	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	286.20 11.93 23.85 29.81 41.74 47.70 59.63 65.59 35.78 35.78	59.62
26 05 33 13-1089	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	387.69 13.07 26.14 32.67 45.74 52.27 65.34 71.87 39.20 39.20	65.34

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1090	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	485.58	78.41
		For Elevated Installation >10' To 15' Above Floor, Add	15.68	
		For Elevated Installation >15' To 20' Above Floor, Add	31.36	
		For Elevated Installation >20' To 25' Above Floor, Add	39.21	
		For Elevated Installation >25' To 30' Above Floor, Add	54.89	
		For Elevated Installation >30' To 35' Above Floor, Add	62.73	
		For Elevated Installation >35' To 40' Above Floor, Add	78.41	
		For Elevated Installation >40' Above Floor, Add	86.25	
		For Work In Restricted Working Space, Add	47.05	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.05	
26 05 33 13-1091	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	749.95	110.27
		For Elevated Installation >10' To 15' Above Floor, Add	22.05	
		For Elevated Installation >15' To 20' Above Floor, Add	44.10	
		For Elevated Installation >20' To 25' Above Floor, Add	55.13	
		For Elevated Installation >25' To 30' Above Floor, Add	77.18	
		For Elevated Installation >30' To 35' Above Floor, Add	88.21	
		For Elevated Installation >35' To 40' Above Floor, Add	110.26	
		For Elevated Installation >40' Above Floor, Add	121.29	
		For Work In Restricted Working Space, Add	66.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.16	
26 05 33 13-1092	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,087.50	147.02
		For Elevated Installation >10' To 15' Above Floor, Add	29.40	
		For Elevated Installation >15' To 20' Above Floor, Add	58.81	
		For Elevated Installation >20' To 25' Above Floor, Add	73.51	
		For Elevated Installation >25' To 30' Above Floor, Add	102.91	
		For Elevated Installation >30' To 35' Above Floor, Add	117.61	
		For Elevated Installation >35' To 40' Above Floor, Add	147.02	
		For Elevated Installation >40' Above Floor, Add	161.72	
		For Work In Restricted Working Space, Add	88.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.21	
26 05 33 13-1093	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,367.24	183.77
		For Elevated Installation >10' To 15' Above Floor, Add	36.75	
		For Elevated Installation >15' To 20' Above Floor, Add	73.51	
		For Elevated Installation >20' To 25' Above Floor, Add	91.89	
		For Elevated Installation >25' To 30' Above Floor, Add	128.64	
		For Elevated Installation >30' To 35' Above Floor, Add	147.02	
		For Elevated Installation >35' To 40' Above Floor, Add	183.77	
		For Elevated Installation >40' Above Floor, Add	202.15	
		For Work In Restricted Working Space, Add	110.26	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.26	
26 05 33 13-1094 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZZ Sealing Conduit Bodies (26 05 33 13-0848)				
26 05 33 13-1095	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	270.48	39.21
		For Elevated Installation >10' To 15' Above Floor, Add	7.84	
		For Elevated Installation >15' To 20' Above Floor, Add	15.68	
		For Elevated Installation >20' To 25' Above Floor, Add	19.60	
		For Elevated Installation >25' To 30' Above Floor, Add	27.44	
		For Elevated Installation >30' To 35' Above Floor, Add	31.36	
		For Elevated Installation >35' To 40' Above Floor, Add	39.21	
		For Elevated Installation >40' Above Floor, Add	43.13	
		For Work In Restricted Working Space, Add	23.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.52	
26 05 33 13-1096	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	300.64	44.92
		For Elevated Installation >10' To 15' Above Floor, Add	8.98	
		For Elevated Installation >15' To 20' Above Floor, Add	17.97	
		For Elevated Installation >20' To 25' Above Floor, Add	22.46	
		For Elevated Installation >25' To 30' Above Floor, Add	31.44	
		For Elevated Installation >30' To 35' Above Floor, Add	35.94	
		For Elevated Installation >35' To 40' Above Floor, Add	44.92	
		For Elevated Installation >40' Above Floor, Add	49.41	
		For Work In Restricted Working Space, Add	26.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95	
26 05 33 13-1097	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	371.14	51.46
		For Elevated Installation >10' To 15' Above Floor, Add	10.29	
		For Elevated Installation >15' To 20' Above Floor, Add	20.58	
		For Elevated Installation >20' To 25' Above Floor, Add	25.73	
		For Elevated Installation >25' To 30' Above Floor, Add	36.02	
		For Elevated Installation >30' To 35' Above Floor, Add	41.16	
		For Elevated Installation >35' To 40' Above Floor, Add	51.46	
		For Elevated Installation >40' Above Floor, Add	56.60	
		For Work In Restricted Working Space, Add	30.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.87	
26 05 33 13-1098	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	456.22	59.62
		For Elevated Installation >10' To 15' Above Floor, Add	11.93	
		For Elevated Installation >15' To 20' Above Floor, Add	23.85	
		For Elevated Installation >20' To 25' Above Floor, Add	29.81	
		For Elevated Installation >25' To 30' Above Floor, Add	41.74	
		For Elevated Installation >30' To 35' Above Floor, Add	47.70	
		For Elevated Installation >35' To 40' Above Floor, Add	59.63	
		For Elevated Installation >40' Above Floor, Add	65.59	
		For Work In Restricted Working Space, Add	35.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1099	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	627.89 13.07 26.14 32.67 45.74 52.27 65.34 71.87 39.20 39.20	65.34
26 05 33 13-1100	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	752.55 15.68 31.36 39.21 54.89 62.73 78.41 86.25 47.05 47.05	78.41
26 05 33 13-1101			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings (26 05 33 13-0848)		
26 05 33 13-1102	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	54.94 3.14 6.28 7.85 10.99 12.56 15.71 17.28 9.42	15.71
26 05 33 13-1103	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	72.17 3.77 7.54 9.42 13.19 15.08 18.85 20.73 11.31	18.85
26 05 33 13-1104	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	92.12 5.03 10.05 12.57 17.59 20.10 25.13 27.64 15.08	25.13
26 05 33 13-1105	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	125.66 6.28 12.57 15.71 21.99 25.13 31.42 34.56 18.85	31.41
26 05 33 13-1106	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	163.66 7.54 15.08 18.85 26.39 30.16 37.70 41.46 22.62	37.69
26 05 33 13-1107	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	274.60 8.80 17.59 21.99 30.79 35.18 43.98 48.38 26.39	43.98

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1108 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	394.37	50.26
For Elevated Installation >10' To 15' Above Floor, Add	10.05	
For Elevated Installation >15' To 20' Above Floor, Add	20.10	
For Elevated Installation >20' To 25' Above Floor, Add	25.13	
For Elevated Installation >25' To 30' Above Floor, Add	35.18	
For Elevated Installation >30' To 35' Above Floor, Add	40.21	
For Elevated Installation >35' To 40' Above Floor, Add	50.26	
For Elevated Installation >40' Above Floor, Add	55.29	
For Work In Restricted Working Space, Add	30.16	
26 05 33 13-1109 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	489.91	56.55
For Elevated Installation >10' To 15' Above Floor, Add	11.31	
For Elevated Installation >15' To 20' Above Floor, Add	22.62	
For Elevated Installation >20' To 25' Above Floor, Add	28.27	
For Elevated Installation >25' To 30' Above Floor, Add	39.58	
For Elevated Installation >30' To 35' Above Floor, Add	45.24	
For Elevated Installation >35' To 40' Above Floor, Add	56.55	
For Elevated Installation >40' Above Floor, Add	62.20	
For Work In Restricted Working Space, Add	33.93	
26 05 33 13-1110 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	677.57	65.97
For Elevated Installation >10' To 15' Above Floor, Add	13.19	
For Elevated Installation >15' To 20' Above Floor, Add	26.39	
For Elevated Installation >20' To 25' Above Floor, Add	32.99	
For Elevated Installation >25' To 30' Above Floor, Add	46.18	
For Elevated Installation >30' To 35' Above Floor, Add	52.78	
For Elevated Installation >35' To 40' Above Floor, Add	65.97	
For Elevated Installation >40' Above Floor, Add	72.57	
For Work In Restricted Working Space, Add	39.58	
26 05 33 13-1111 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	821.08	75.39
For Elevated Installation >10' To 15' Above Floor, Add	15.08	
For Elevated Installation >15' To 20' Above Floor, Add	30.16	
For Elevated Installation >20' To 25' Above Floor, Add	37.70	
For Elevated Installation >25' To 30' Above Floor, Add	52.78	
For Elevated Installation >30' To 35' Above Floor, Add	60.32	
For Elevated Installation >35' To 40' Above Floor, Add	75.40	
For Elevated Installation >40' Above Floor, Add	82.93	
For Work In Restricted Working Space, Add	45.24	
26 05 33 13-1112 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,313.71	119.37
For Elevated Installation >10' To 15' Above Floor, Add	23.87	
For Elevated Installation >15' To 20' Above Floor, Add	47.75	
For Elevated Installation >20' To 25' Above Floor, Add	59.69	
For Elevated Installation >25' To 30' Above Floor, Add	83.56	
For Elevated Installation >30' To 35' Above Floor, Add	95.50	
For Elevated Installation >35' To 40' Above Floor, Add	119.37	
For Elevated Installation >40' Above Floor, Add	131.31	
For Work In Restricted Working Space, Add	71.62	
26 05 33 13-1113 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,802.33	182.20
For Elevated Installation >10' To 15' Above Floor, Add	36.44	
For Elevated Installation >15' To 20' Above Floor, Add	72.88	
For Elevated Installation >20' To 25' Above Floor, Add	91.10	
For Elevated Installation >25' To 30' Above Floor, Add	127.54	
For Elevated Installation >30' To 35' Above Floor, Add	145.76	
For Elevated Installation >35' To 40' Above Floor, Add	182.20	
For Elevated Installation >40' Above Floor, Add	200.42	
For Work In Restricted Working Space, Add	109.32	
26 05 33 13-1114 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows (26 05 33 13-0848)		
26 05 33 13-1115 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	196.79	39.21
For Elevated Installation >10' To 15' Above Floor, Add	7.84	
For Elevated Installation >15' To 20' Above Floor, Add	15.68	
For Elevated Installation >20' To 25' Above Floor, Add	19.60	
For Elevated Installation >25' To 30' Above Floor, Add	27.44	
For Elevated Installation >30' To 35' Above Floor, Add	31.36	
For Elevated Installation >35' To 40' Above Floor, Add	39.21	
For Elevated Installation >40' Above Floor, Add	43.13	
For Work In Restricted Working Space, Add	23.52	
26 05 33 13-1116 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	231.60	43.29
For Elevated Installation >10' To 15' Above Floor, Add	8.66	
For Elevated Installation >15' To 20' Above Floor, Add	17.31	
For Elevated Installation >20' To 25' Above Floor, Add	21.64	
For Elevated Installation >25' To 30' Above Floor, Add	30.30	
For Elevated Installation >30' To 35' Above Floor, Add	34.63	
For Elevated Installation >35' To 40' Above Floor, Add	43.29	
For Elevated Installation >40' Above Floor, Add	47.61	
For Work In Restricted Working Space, Add	25.97	
26 05 33 13-1117 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	256.83	51.46
For Elevated Installation >10' To 15' Above Floor, Add	10.29	
For Elevated Installation >15' To 20' Above Floor, Add	20.58	
For Elevated Installation >20' To 25' Above Floor, Add	25.73	
For Elevated Installation >25' To 30' Above Floor, Add	36.02	
For Elevated Installation >30' To 35' Above Floor, Add	41.16	
For Elevated Installation >35' To 40' Above Floor, Add	51.46	
For Elevated Installation >40' Above Floor, Add	56.60	
For Work In Restricted Working Space, Add	30.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1118	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	364.18 11.93 23.85 29.81 41.74 47.70 59.63 65.59 35.78	59.62
26 05 33 13-1119	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	475.81 13.07 26.14 32.67 45.74 52.27 65.34 71.87 39.20	65.34
26 05 33 13-1120	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow..... <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	516.29 15.68 31.36 39.21 54.89 62.73 78.41 86.25 47.05	78.41
26 05 33 13-1121	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,193.21 21.73 43.45 54.32 76.04 86.90 108.63 119.49 65.18	108.63
26 05 33 13-1122	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow..... <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,270.21 29.40 58.81 73.51 102.91 117.62 147.02 161.72 88.21	147.02
26 05 33 13-1123	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,058.45 36.76 73.51 91.89 128.65 147.02 183.78 202.16 110.27	183.77
26 05 33 13-1124	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow..... <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,154.91 44.76 89.52 111.91 156.67 179.05 223.81 246.19 134.29	223.79
26 05 33 13-1125			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows (26 05 33 13-0848)		
26 05 33 13-1126	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	281.05 7.84 15.68 19.60 27.44 31.36 39.21 43.13 23.52	39.21

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1127	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations			
		Pulling Elbow		320.25	44.92
		For Elevated Installation >10' To 15' Above Floor, Add		8.98	
		For Elevated Installation >15' To 20' Above Floor, Add		17.97	
		For Elevated Installation >20' To 25' Above Floor, Add		22.46	
		For Elevated Installation >25' To 30' Above Floor, Add		31.44	
		For Elevated Installation >30' To 35' Above Floor, Add		35.94	
		For Elevated Installation >35' To 40' Above Floor, Add		44.92	
		For Elevated Installation >40' Above Floor, Add		49.41	
		For Work In Restricted Working Space, Add		26.95	
26 05 33 13-1128	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling			
		Elbow		619.29	51.46
		For Elevated Installation >10' To 15' Above Floor, Add		10.29	
		For Elevated Installation >15' To 20' Above Floor, Add		20.58	
		For Elevated Installation >20' To 25' Above Floor, Add		25.73	
		For Elevated Installation >25' To 30' Above Floor, Add		36.02	
		For Elevated Installation >30' To 35' Above Floor, Add		41.16	
		For Elevated Installation >35' To 40' Above Floor, Add		51.46	
		For Elevated Installation >40' Above Floor, Add		56.60	
		For Work In Restricted Working Space, Add		30.87	
26 05 33 13-1129	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations			
		Pulling Elbow		651.57	59.62
		For Elevated Installation >10' To 15' Above Floor, Add		11.93	
		For Elevated Installation >15' To 20' Above Floor, Add		23.85	
		For Elevated Installation >20' To 25' Above Floor, Add		29.81	
		For Elevated Installation >25' To 30' Above Floor, Add		41.74	
		For Elevated Installation >30' To 35' Above Floor, Add		47.70	
		For Elevated Installation >35' To 40' Above Floor, Add		59.63	
		For Elevated Installation >40' Above Floor, Add		65.59	
		For Work In Restricted Working Space, Add		35.78	
26 05 33 13-1130	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations			
		Pulling Elbow		885.20	65.34
		For Elevated Installation >10' To 15' Above Floor, Add		13.07	
		For Elevated Installation >15' To 20' Above Floor, Add		26.14	
		For Elevated Installation >20' To 25' Above Floor, Add		32.67	
		For Elevated Installation >25' To 30' Above Floor, Add		45.74	
		For Elevated Installation >30' To 35' Above Floor, Add		52.27	
		For Elevated Installation >35' To 40' Above Floor, Add		65.34	
		For Elevated Installation >40' Above Floor, Add		71.87	
		For Work In Restricted Working Space, Add		39.20	
26 05 33 13-1131	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling			
		Elbow		947.13	78.41
		For Elevated Installation >10' To 15' Above Floor, Add		15.68	
		For Elevated Installation >15' To 20' Above Floor, Add		31.36	
		For Elevated Installation >20' To 25' Above Floor, Add		39.21	
		For Elevated Installation >25' To 30' Above Floor, Add		54.89	
		For Elevated Installation >30' To 35' Above Floor, Add		62.73	
		For Elevated Installation >35' To 40' Above Floor, Add		78.41	
		For Elevated Installation >40' Above Floor, Add		86.25	
		For Work In Restricted Working Space, Add		47.05	
26 05 33 13-1132	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations			
		Pulling Elbow		1,807.44	110.27
		For Elevated Installation >10' To 15' Above Floor, Add		22.05	
		For Elevated Installation >15' To 20' Above Floor, Add		44.10	
		For Elevated Installation >20' To 25' Above Floor, Add		55.13	
		For Elevated Installation >25' To 30' Above Floor, Add		77.18	
		For Elevated Installation >30' To 35' Above Floor, Add		88.21	
		For Elevated Installation >35' To 40' Above Floor, Add		110.26	
		For Elevated Installation >40' Above Floor, Add		121.29	
		For Work In Restricted Working Space, Add		66.16	
26 05 33 13-1133	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling			
		Elbow		1,912.32	147.02
		For Elevated Installation >10' To 15' Above Floor, Add		29.40	
		For Elevated Installation >15' To 20' Above Floor, Add		58.81	
		For Elevated Installation >20' To 25' Above Floor, Add		73.51	
		For Elevated Installation >25' To 30' Above Floor, Add		102.91	
		For Elevated Installation >30' To 35' Above Floor, Add		117.61	
		For Elevated Installation >35' To 40' Above Floor, Add		147.02	
		For Elevated Installation >40' Above Floor, Add		161.72	
		For Work In Restricted Working Space, Add		88.21	
26 05 33 13-1134	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations			
		Pulling Elbow		2,790.88	183.77
		For Elevated Installation >10' To 15' Above Floor, Add		36.75	
		For Elevated Installation >15' To 20' Above Floor, Add		73.51	
		For Elevated Installation >20' To 25' Above Floor, Add		91.89	
		For Elevated Installation >25' To 30' Above Floor, Add		128.64	
		For Elevated Installation >30' To 35' Above Floor, Add		147.02	
		For Elevated Installation >35' To 40' Above Floor, Add		183.77	
		For Elevated Installation >40' Above Floor, Add		202.15	
		For Work In Restricted Working Space, Add		110.26	



		Electrical	26
		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1135	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	3,165.51	223.79
		For Elevated Installation >10' To 15' Above Floor, Add	44.76	
		For Elevated Installation >15' To 20' Above Floor, Add	89.52	
		For Elevated Installation >20' To 25' Above Floor, Add	111.90	
		For Elevated Installation >25' To 30' Above Floor, Add	156.66	
		For Elevated Installation >30' To 35' Above Floor, Add	179.04	
		For Elevated Installation >35' To 40' Above Floor, Add	223.80	
		For Elevated Installation >40' Above Floor, Add	246.17	
		For Work In Restricted Working Space, Add	134.28	
26 05 33 13-1136 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows (26 05 33 13-0848)				
26 05 33 13-1137	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	109.62	20.42
		For Elevated Installation >10' To 15' Above Floor, Add	4.08	
		For Elevated Installation >15' To 20' Above Floor, Add	8.17	
		For Elevated Installation >20' To 25' Above Floor, Add	10.21	
		For Elevated Installation >25' To 30' Above Floor, Add	14.29	
		For Elevated Installation >30' To 35' Above Floor, Add	16.34	
		For Elevated Installation >35' To 40' Above Floor, Add	20.42	
		For Elevated Installation >40' Above Floor, Add	22.46	
		For Work In Restricted Working Space, Add	12.25	
26 05 33 13-1138	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	128.09	25.32
		For Elevated Installation >10' To 15' Above Floor, Add	5.06	
		For Elevated Installation >15' To 20' Above Floor, Add	10.13	
		For Elevated Installation >20' To 25' Above Floor, Add	12.66	
		For Elevated Installation >25' To 30' Above Floor, Add	17.72	
		For Elevated Installation >30' To 35' Above Floor, Add	20.26	
		For Elevated Installation >35' To 40' Above Floor, Add	25.32	
		For Elevated Installation >40' Above Floor, Add	27.85	
		For Work In Restricted Working Space, Add	15.19	
26 05 33 13-1139	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	152.88	31.04
		For Elevated Installation >10' To 15' Above Floor, Add	6.21	
		For Elevated Installation >15' To 20' Above Floor, Add	12.41	
		For Elevated Installation >20' To 25' Above Floor, Add	15.52	
		For Elevated Installation >25' To 30' Above Floor, Add	21.72	
		For Elevated Installation >30' To 35' Above Floor, Add	24.83	
		For Elevated Installation >35' To 40' Above Floor, Add	31.04	
		For Elevated Installation >40' Above Floor, Add	34.14	
		For Work In Restricted Working Space, Add	18.62	
26 05 33 13-1140	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	180.23	35.94
		For Elevated Installation >10' To 15' Above Floor, Add	7.19	
		For Elevated Installation >15' To 20' Above Floor, Add	14.37	
		For Elevated Installation >20' To 25' Above Floor, Add	17.97	
		For Elevated Installation >25' To 30' Above Floor, Add	25.15	
		For Elevated Installation >30' To 35' Above Floor, Add	28.75	
		For Elevated Installation >35' To 40' Above Floor, Add	35.94	
		For Elevated Installation >40' Above Floor, Add	39.53	
		For Work In Restricted Working Space, Add	21.56	
26 05 33 13-1141 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows (26 05 33 13-0848)				
26 05 33 13-1142	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	87.68	20.42
		For Elevated Installation >10' To 15' Above Floor, Add	4.08	
		For Elevated Installation >15' To 20' Above Floor, Add	8.17	
		For Elevated Installation >20' To 25' Above Floor, Add	10.21	
		For Elevated Installation >25' To 30' Above Floor, Add	14.29	
		For Elevated Installation >30' To 35' Above Floor, Add	16.34	
		For Elevated Installation >35' To 40' Above Floor, Add	20.42	
		For Elevated Installation >40' Above Floor, Add	22.46	
		For Work In Restricted Working Space, Add	12.25	
26 05 33 13-1143	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	101.75	25.32
		For Elevated Installation >10' To 15' Above Floor, Add	5.06	
		For Elevated Installation >15' To 20' Above Floor, Add	10.13	
		For Elevated Installation >20' To 25' Above Floor, Add	12.66	
		For Elevated Installation >25' To 30' Above Floor, Add	17.72	
		For Elevated Installation >30' To 35' Above Floor, Add	20.26	
		For Elevated Installation >35' To 40' Above Floor, Add	25.32	
		For Elevated Installation >40' Above Floor, Add	27.85	
		For Work In Restricted Working Space, Add	15.19	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1144	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	.....	140.05	31.04
		For Elevated Installation >10' To 15' Above Floor, Add	.....	6.21	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	12.41	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	15.52	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	21.72	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	24.83	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	31.04	
		For Elevated Installation >40' Above Floor, Add	.....	34.14	
		For Work In Restricted Working Space, Add	.....	18.62	
26 05 33 13-1145	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	.....	180.33	35.94
		For Elevated Installation >10' To 15' Above Floor, Add	.....	7.19	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	14.37	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	17.97	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	25.15	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	28.75	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	35.94	
		For Elevated Installation >40' Above Floor, Add	.....	39.53	
		For Work In Restricted Working Space, Add	.....	21.56	
26 05 33 13-1146	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	.....	218.84	40.84
		For Elevated Installation >10' To 15' Above Floor, Add	.....	8.17	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	16.33	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	20.42	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	28.58	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	32.67	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	40.84	
		For Elevated Installation >40' Above Floor, Add	.....	44.92	
		For Work In Restricted Working Space, Add	.....	24.50	
26 05 33 13-1147	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	.....	310.38	44.92
		For Elevated Installation >10' To 15' Above Floor, Add	.....	8.98	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	17.97	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	22.46	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	31.44	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	35.94	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	44.92	
		For Elevated Installation >40' Above Floor, Add	.....	49.41	
		For Work In Restricted Working Space, Add	.....	26.95	
26 05 33 13-1148	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	.....	422.61	56.36
		For Elevated Installation >10' To 15' Above Floor, Add	.....	11.27	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	22.54	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	28.18	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	39.45	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	45.08	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	56.36	
		For Elevated Installation >40' Above Floor, Add	.....	61.99	
		For Work In Restricted Working Space, Add	.....	33.81	
26 05 33 13-1149 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows (26 05 33 13-0848)					
26 05 33 13-1150	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	.....	109.68	20.42
		For Elevated Installation >10' To 15' Above Floor, Add	.....	4.08	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	8.17	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	10.21	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	14.29	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	16.34	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	20.42	
		For Elevated Installation >40' Above Floor, Add	.....	22.46	
		For Work In Restricted Working Space, Add	.....	12.25	
26 05 33 13-1151	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	.....	131.13	25.32
		For Elevated Installation >10' To 15' Above Floor, Add	.....	5.06	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	10.13	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	12.66	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	17.72	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	20.26	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	25.32	
		For Elevated Installation >40' Above Floor, Add	.....	27.85	
		For Work In Restricted Working Space, Add	.....	15.19	
26 05 33 13-1152	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	.....	152.90	31.04
		For Elevated Installation >10' To 15' Above Floor, Add	.....	6.21	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	12.41	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	15.52	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	21.72	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	24.83	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	31.04	
		For Elevated Installation >40' Above Floor, Add	.....	34.14	
		For Work In Restricted Working Space, Add	.....	18.62	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1153	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	180.28	35.94
		For Elevated Installation >10' To 15' Above Floor, Add	7.19	
		For Elevated Installation >15' To 20' Above Floor, Add	14.37	
		For Elevated Installation >20' To 25' Above Floor, Add	17.97	
		For Elevated Installation >25' To 30' Above Floor, Add	25.15	
		For Elevated Installation >30' To 35' Above Floor, Add	28.75	
		For Elevated Installation >35' To 40' Above Floor, Add	35.94	
		For Elevated Installation >40' Above Floor, Add	39.53	
		For Work In Restricted Working Space, Add	21.56	
26 05 33 13-1154 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows (26 05 33 13-0848)				
26 05 33 13-1155	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	87.75	20.42
		For Elevated Installation >10' To 15' Above Floor, Add	4.08	
		For Elevated Installation >15' To 20' Above Floor, Add	8.17	
		For Elevated Installation >20' To 25' Above Floor, Add	10.21	
		For Elevated Installation >25' To 30' Above Floor, Add	14.29	
		For Elevated Installation >30' To 35' Above Floor, Add	16.34	
		For Elevated Installation >35' To 40' Above Floor, Add	20.42	
		For Elevated Installation >40' Above Floor, Add	22.46	
		For Work In Restricted Working Space, Add	12.25	
26 05 33 13-1156	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	101.75	25.32
		For Elevated Installation >10' To 15' Above Floor, Add	5.06	
		For Elevated Installation >15' To 20' Above Floor, Add	10.13	
		For Elevated Installation >20' To 25' Above Floor, Add	12.66	
		For Elevated Installation >25' To 30' Above Floor, Add	17.72	
		For Elevated Installation >30' To 35' Above Floor, Add	20.26	
		For Elevated Installation >35' To 40' Above Floor, Add	25.32	
		For Elevated Installation >40' Above Floor, Add	27.85	
		For Work In Restricted Working Space, Add	15.19	
26 05 33 13-1157	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	130.96	31.04
		For Elevated Installation >10' To 15' Above Floor, Add	6.21	
		For Elevated Installation >15' To 20' Above Floor, Add	12.41	
		For Elevated Installation >20' To 25' Above Floor, Add	15.52	
		For Elevated Installation >25' To 30' Above Floor, Add	21.72	
		For Elevated Installation >30' To 35' Above Floor, Add	24.83	
		For Elevated Installation >35' To 40' Above Floor, Add	31.04	
		For Elevated Installation >40' Above Floor, Add	34.14	
		For Work In Restricted Working Space, Add	18.62	
26 05 33 13-1158	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	162.68	35.94
		For Elevated Installation >10' To 15' Above Floor, Add	7.19	
		For Elevated Installation >15' To 20' Above Floor, Add	14.37	
		For Elevated Installation >20' To 25' Above Floor, Add	17.97	
		For Elevated Installation >25' To 30' Above Floor, Add	25.15	
		For Elevated Installation >30' To 35' Above Floor, Add	28.75	
		For Elevated Installation >35' To 40' Above Floor, Add	35.94	
		For Elevated Installation >40' Above Floor, Add	39.53	
		For Work In Restricted Working Space, Add	21.56	
26 05 33 13-1159	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	190.08	40.84
		For Elevated Installation >10' To 15' Above Floor, Add	8.17	
		For Elevated Installation >15' To 20' Above Floor, Add	16.33	
		For Elevated Installation >20' To 25' Above Floor, Add	20.42	
		For Elevated Installation >25' To 30' Above Floor, Add	28.58	
		For Elevated Installation >30' To 35' Above Floor, Add	32.67	
		For Elevated Installation >35' To 40' Above Floor, Add	40.84	
		For Elevated Installation >40' Above Floor, Add	44.92	
		For Work In Restricted Working Space, Add	24.50	
26 05 33 13-1160	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	218.29	44.92
		For Elevated Installation >10' To 15' Above Floor, Add	8.98	
		For Elevated Installation >15' To 20' Above Floor, Add	17.97	
		For Elevated Installation >20' To 25' Above Floor, Add	22.46	
		For Elevated Installation >25' To 30' Above Floor, Add	31.44	
		For Elevated Installation >30' To 35' Above Floor, Add	35.94	
		For Elevated Installation >35' To 40' Above Floor, Add	44.92	
		For Elevated Installation >40' Above Floor, Add	49.41	
		For Work In Restricted Working Space, Add	26.95	
26 05 33 13-1161	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	399.12	56.36
		For Elevated Installation >10' To 15' Above Floor, Add	11.27	
		For Elevated Installation >15' To 20' Above Floor, Add	22.54	
		For Elevated Installation >20' To 25' Above Floor, Add	28.18	
		For Elevated Installation >25' To 30' Above Floor, Add	39.45	
		For Elevated Installation >30' To 35' Above Floor, Add	45.08	
		For Elevated Installation >35' To 40' Above Floor, Add	56.36	
		For Elevated Installation >40' Above Floor, Add	61.99	
		For Work In Restricted Working Space, Add	33.81	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1162	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	461.24	76.77
		For Elevated Installation >10' To 15' Above Floor, Add	15.36	
		For Elevated Installation >15' To 20' Above Floor, Add	30.71	
		For Elevated Installation >20' To 25' Above Floor, Add	38.39	
		For Elevated Installation >25' To 30' Above Floor, Add	53.74	
		For Elevated Installation >30' To 35' Above Floor, Add	61.42	
		For Elevated Installation >35' To 40' Above Floor, Add	76.78	
		For Elevated Installation >40' Above Floor, Add	84.45	
		For Work In Restricted Working Space, Add	46.07	
26 05 33 13-1163	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	498.80	86.57
		For Elevated Installation >10' To 15' Above Floor, Add	17.32	
		For Elevated Installation >15' To 20' Above Floor, Add	34.63	
		For Elevated Installation >20' To 25' Above Floor, Add	43.29	
		For Elevated Installation >25' To 30' Above Floor, Add	60.61	
		For Elevated Installation >30' To 35' Above Floor, Add	69.26	
		For Elevated Installation >35' To 40' Above Floor, Add	86.58	
		For Elevated Installation >40' Above Floor, Add	95.24	
		For Work In Restricted Working Space, Add	51.95	
26 05 33 13-1164	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	617.21	112.71
		For Elevated Installation >10' To 15' Above Floor, Add	22.54	
		For Elevated Installation >15' To 20' Above Floor, Add	45.08	
		For Elevated Installation >20' To 25' Above Floor, Add	56.36	
		For Elevated Installation >25' To 30' Above Floor, Add	78.90	
		For Elevated Installation >30' To 35' Above Floor, Add	90.17	
		For Elevated Installation >35' To 40' Above Floor, Add	112.71	
		For Elevated Installation >40' Above Floor, Add	123.98	
		For Work In Restricted Working Space, Add	67.63	
26 05 33 13-1165 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows (26 05 33 13-0848)				
26 05 33 13-1166	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	182.58	39.21
		For Elevated Installation >10' To 15' Above Floor, Add	7.84	
		For Elevated Installation >15' To 20' Above Floor, Add	15.68	
		For Elevated Installation >20' To 25' Above Floor, Add	19.60	
		For Elevated Installation >25' To 30' Above Floor, Add	27.44	
		For Elevated Installation >30' To 35' Above Floor, Add	31.36	
		For Elevated Installation >35' To 40' Above Floor, Add	39.21	
		For Elevated Installation >40' Above Floor, Add	43.13	
		For Work In Restricted Working Space, Add	23.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.52	
26 05 33 13-1167	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	198.10	44.92
		For Elevated Installation >10' To 15' Above Floor, Add	8.98	
		For Elevated Installation >15' To 20' Above Floor, Add	17.97	
		For Elevated Installation >20' To 25' Above Floor, Add	22.46	
		For Elevated Installation >25' To 30' Above Floor, Add	31.44	
		For Elevated Installation >30' To 35' Above Floor, Add	35.94	
		For Elevated Installation >35' To 40' Above Floor, Add	44.92	
		For Elevated Installation >40' Above Floor, Add	49.41	
		For Work In Restricted Working Space, Add	26.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95	
26 05 33 13-1168	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	217.58	51.46
		For Elevated Installation >10' To 15' Above Floor, Add	10.29	
		For Elevated Installation >15' To 20' Above Floor, Add	20.58	
		For Elevated Installation >20' To 25' Above Floor, Add	25.73	
		For Elevated Installation >25' To 30' Above Floor, Add	36.02	
		For Elevated Installation >30' To 35' Above Floor, Add	41.16	
		For Elevated Installation >35' To 40' Above Floor, Add	51.46	
		For Elevated Installation >40' Above Floor, Add	56.60	
		For Work In Restricted Working Space, Add	30.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.87	
26 05 33 13-1169	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	289.27	59.62
		For Elevated Installation >10' To 15' Above Floor, Add	11.93	
		For Elevated Installation >15' To 20' Above Floor, Add	23.85	
		For Elevated Installation >20' To 25' Above Floor, Add	29.81	
		For Elevated Installation >25' To 30' Above Floor, Add	41.74	
		For Elevated Installation >30' To 35' Above Floor, Add	47.70	
		For Elevated Installation >35' To 40' Above Floor, Add	59.63	
		For Elevated Installation >40' Above Floor, Add	65.59	
		For Work In Restricted Working Space, Add	35.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.78	
26 05 33 13-1170	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	364.76	65.34
		For Elevated Installation >10' To 15' Above Floor, Add	13.07	
		For Elevated Installation >15' To 20' Above Floor, Add	26.14	
		For Elevated Installation >20' To 25' Above Floor, Add	32.67	
		For Elevated Installation >25' To 30' Above Floor, Add	45.74	
		For Elevated Installation >30' To 35' Above Floor, Add	52.27	
		For Elevated Installation >35' To 40' Above Floor, Add	65.34	
		For Elevated Installation >40' Above Floor, Add	71.87	
		For Work In Restricted Working Space, Add	39.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.20	



		Electrical	26	26
		Common Work Results for Electrical	26 05	
		Raceway and Boxes for Electrical Systems	26 05 33	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 33 13-1171	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover (26 05 33 13-0848)			
26 05 33 13-1172	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	217.36		39.21
	For Elevated Installation >10' To 15' Above Floor, Add	7.84		
	For Elevated Installation >15' To 20' Above Floor, Add	15.68		
	For Elevated Installation >20' To 25' Above Floor, Add	19.60		
	For Elevated Installation >25' To 30' Above Floor, Add	27.44		
	For Elevated Installation >30' To 35' Above Floor, Add	31.36		
	For Elevated Installation >35' To 40' Above Floor, Add	39.21		
	For Elevated Installation >40' Above Floor, Add	43.13		
	For Work In Restricted Working Space, Add	23.52		
26 05 33 13-1173	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	235.02		44.92
	For Elevated Installation >10' To 15' Above Floor, Add	8.98		
	For Elevated Installation >15' To 20' Above Floor, Add	17.97		
	For Elevated Installation >20' To 25' Above Floor, Add	22.46		
	For Elevated Installation >25' To 30' Above Floor, Add	31.44		
	For Elevated Installation >30' To 35' Above Floor, Add	35.94		
	For Elevated Installation >35' To 40' Above Floor, Add	44.92		
	For Elevated Installation >40' Above Floor, Add	49.41		
	For Work In Restricted Working Space, Add	26.95		
26 05 33 13-1174	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	274.38		51.46
	For Elevated Installation >10' To 15' Above Floor, Add	10.29		
	For Elevated Installation >15' To 20' Above Floor, Add	20.58		
	For Elevated Installation >20' To 25' Above Floor, Add	25.73		
	For Elevated Installation >25' To 30' Above Floor, Add	36.02		
	For Elevated Installation >30' To 35' Above Floor, Add	41.16		
	For Elevated Installation >35' To 40' Above Floor, Add	51.46		
	For Elevated Installation >40' Above Floor, Add	56.60		
	For Work In Restricted Working Space, Add	30.87		
26 05 33 13-1175	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	387.86		59.62
	For Elevated Installation >10' To 15' Above Floor, Add	11.93		
	For Elevated Installation >15' To 20' Above Floor, Add	23.85		
	For Elevated Installation >20' To 25' Above Floor, Add	29.81		
	For Elevated Installation >25' To 30' Above Floor, Add	41.74		
	For Elevated Installation >30' To 35' Above Floor, Add	47.70		
	For Elevated Installation >35' To 40' Above Floor, Add	59.63		
	For Elevated Installation >40' Above Floor, Add	65.59		
	For Work In Restricted Working Space, Add	35.78		
26 05 33 13-1176	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	620.23		65.34
	For Elevated Installation >10' To 15' Above Floor, Add	13.07		
	For Elevated Installation >15' To 20' Above Floor, Add	26.14		
	For Elevated Installation >20' To 25' Above Floor, Add	32.67		
	For Elevated Installation >25' To 30' Above Floor, Add	45.74		
	For Elevated Installation >30' To 35' Above Floor, Add	52.27		
	For Elevated Installation >35' To 40' Above Floor, Add	65.34		
	For Elevated Installation >40' Above Floor, Add	71.87		
	For Work In Restricted Working Space, Add	39.20		
26 05 33 13-1177	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	672.62		78.41
	For Elevated Installation >10' To 15' Above Floor, Add	15.68		
	For Elevated Installation >15' To 20' Above Floor, Add	31.36		
	For Elevated Installation >20' To 25' Above Floor, Add	39.21		
	For Elevated Installation >25' To 30' Above Floor, Add	54.89		
	For Elevated Installation >30' To 35' Above Floor, Add	62.73		
	For Elevated Installation >35' To 40' Above Floor, Add	78.41		
	For Elevated Installation >40' Above Floor, Add	86.25		
	For Work In Restricted Working Space, Add	47.05		
26 05 33 13-1178	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover (26 05 33 13-0848)			
26 05 33 13-1179	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	237.10		39.21
	For Elevated Installation >10' To 15' Above Floor, Add	7.84		
	For Elevated Installation >15' To 20' Above Floor, Add	15.68		
	For Elevated Installation >20' To 25' Above Floor, Add	19.60		
	For Elevated Installation >25' To 30' Above Floor, Add	27.44		
	For Elevated Installation >30' To 35' Above Floor, Add	31.36		
	For Elevated Installation >35' To 40' Above Floor, Add	39.21		
	For Elevated Installation >40' Above Floor, Add	43.13		
	For Work In Restricted Working Space, Add	23.52		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1180	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	.....	267.94	44.92
		For Elevated Installation >10' To 15' Above Floor, Add	.....	8.98	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	17.97	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	22.46	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	31.44	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	35.94	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	44.92	
		For Elevated Installation >40' Above Floor, Add	.....	49.41	
		For Work In Restricted Working Space, Add	.....	26.95	
26 05 33 13-1181	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	.....	293.17	51.46
		For Elevated Installation >10' To 15' Above Floor, Add	.....	10.29	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	20.58	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	25.73	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	36.02	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	41.16	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	51.46	
		For Elevated Installation >40' Above Floor, Add	.....	56.60	
		For Work In Restricted Working Space, Add	.....	30.87	
26 05 33 13-1182	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	.....	406.95	59.62
		For Elevated Installation >10' To 15' Above Floor, Add	.....	11.93	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	23.85	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	29.81	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	41.74	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	47.70	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	59.63	
		For Elevated Installation >40' Above Floor, Add	.....	65.59	
		For Work In Restricted Working Space, Add	.....	35.78	
26 05 33 13-1183	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	.....	665.76	65.34
		For Elevated Installation >10' To 15' Above Floor, Add	.....	13.07	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	26.14	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	32.67	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	45.74	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	52.27	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	65.34	
		For Elevated Installation >40' Above Floor, Add	.....	71.87	
		For Work In Restricted Working Space, Add	.....	39.20	
26 05 33 13-1184	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	.....	714.41	78.41
		For Elevated Installation >10' To 15' Above Floor, Add	.....	15.68	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	31.36	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	39.21	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	54.89	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	62.73	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	78.41	
		For Elevated Installation >40' Above Floor, Add	.....	86.25	
		For Work In Restricted Working Space, Add	.....	47.05	
26 05 33 13-1185 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover (26 05 33 13-0848)					
26 05 33 13-1186	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	.....	237.25	39.21
		For Elevated Installation >10' To 15' Above Floor, Add	.....	7.84	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	15.68	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	19.60	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	27.44	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	31.36	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	39.21	
		For Elevated Installation >40' Above Floor, Add	.....	43.13	
		For Work In Restricted Working Space, Add	.....	23.52	
26 05 33 13-1187	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	.....	262.12	44.92
		For Elevated Installation >10' To 15' Above Floor, Add	.....	8.98	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	17.97	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	22.46	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	31.44	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	35.94	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	44.92	
		For Elevated Installation >40' Above Floor, Add	.....	49.41	
		For Work In Restricted Working Space, Add	.....	26.95	
26 05 33 13-1188	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	.....	311.30	51.46
		For Elevated Installation >10' To 15' Above Floor, Add	.....	10.29	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	20.58	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	25.73	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	36.02	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	41.16	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	51.46	
		For Elevated Installation >40' Above Floor, Add	.....	56.60	
		For Work In Restricted Working Space, Add	.....	30.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1189	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	421.49	59.62
			For Elevated Installation >10' To 15' Above Floor, Add	11.93	
			For Elevated Installation >15' To 20' Above Floor, Add	23.85	
			For Elevated Installation >20' To 25' Above Floor, Add	29.81	
			For Elevated Installation >25' To 30' Above Floor, Add	41.74	
			For Elevated Installation >30' To 35' Above Floor, Add	47.70	
			For Elevated Installation >35' To 40' Above Floor, Add	59.63	
			For Elevated Installation >40' Above Floor, Add	65.59	
			For Work In Restricted Working Space, Add	35.78	
26 05 33 13-1190	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	687.46	65.34
			For Elevated Installation >10' To 15' Above Floor, Add	13.07	
			For Elevated Installation >15' To 20' Above Floor, Add	26.14	
			For Elevated Installation >20' To 25' Above Floor, Add	32.67	
			For Elevated Installation >25' To 30' Above Floor, Add	45.74	
			For Elevated Installation >30' To 35' Above Floor, Add	52.27	
			For Elevated Installation >35' To 40' Above Floor, Add	65.34	
			For Elevated Installation >40' Above Floor, Add	71.87	
			For Work In Restricted Working Space, Add	39.20	
26 05 33 13-1191	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	741.15	78.41
			For Elevated Installation >10' To 15' Above Floor, Add	15.68	
			For Elevated Installation >15' To 20' Above Floor, Add	31.36	
			For Elevated Installation >20' To 25' Above Floor, Add	39.21	
			For Elevated Installation >25' To 30' Above Floor, Add	54.89	
			For Elevated Installation >30' To 35' Above Floor, Add	62.73	
			For Elevated Installation >35' To 40' Above Floor, Add	78.41	
			For Elevated Installation >40' Above Floor, Add	86.25	
			For Work In Restricted Working Space, Add	47.05	
26 05 33 13-1192			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover (26 05 33 13-0848)		
26 05 33 13-1193	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	291.90	39.21
			For Elevated Installation >10' To 15' Above Floor, Add	7.84	
			For Elevated Installation >15' To 20' Above Floor, Add	15.68	
			For Elevated Installation >20' To 25' Above Floor, Add	19.60	
			For Elevated Installation >25' To 30' Above Floor, Add	27.44	
			For Elevated Installation >30' To 35' Above Floor, Add	31.36	
			For Elevated Installation >35' To 40' Above Floor, Add	39.21	
			For Elevated Installation >40' Above Floor, Add	43.13	
			For Work In Restricted Working Space, Add	23.52	
26 05 33 13-1194	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	322.86	44.92
			For Elevated Installation >10' To 15' Above Floor, Add	8.98	
			For Elevated Installation >15' To 20' Above Floor, Add	17.97	
			For Elevated Installation >20' To 25' Above Floor, Add	22.46	
			For Elevated Installation >25' To 30' Above Floor, Add	31.44	
			For Elevated Installation >30' To 35' Above Floor, Add	35.94	
			For Elevated Installation >35' To 40' Above Floor, Add	44.92	
			For Elevated Installation >40' Above Floor, Add	49.41	
			For Work In Restricted Working Space, Add	26.95	
26 05 33 13-1195	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	350.80	51.46
			For Elevated Installation >10' To 15' Above Floor, Add	10.29	
			For Elevated Installation >15' To 20' Above Floor, Add	20.58	
			For Elevated Installation >20' To 25' Above Floor, Add	25.73	
			For Elevated Installation >25' To 30' Above Floor, Add	36.02	
			For Elevated Installation >30' To 35' Above Floor, Add	41.16	
			For Elevated Installation >35' To 40' Above Floor, Add	51.46	
			For Elevated Installation >40' Above Floor, Add	56.60	
			For Work In Restricted Working Space, Add	30.87	
26 05 33 13-1196	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	863.13	59.62
			For Elevated Installation >10' To 15' Above Floor, Add	11.93	
			For Elevated Installation >15' To 20' Above Floor, Add	23.85	
			For Elevated Installation >20' To 25' Above Floor, Add	29.81	
			For Elevated Installation >25' To 30' Above Floor, Add	41.74	
			For Elevated Installation >30' To 35' Above Floor, Add	47.70	
			For Elevated Installation >35' To 40' Above Floor, Add	59.63	
			For Elevated Installation >40' Above Floor, Add	65.59	
			For Work In Restricted Working Space, Add	35.78	

26 05 33 13-1197 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0848)
Note: Excludes cover.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1198 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	146.19 7.84 15.68 19.60 27.44 31.36 39.21 43.13 23.52	39.21
26 05 33 13-1199 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	161.29 8.98 17.97 22.46 31.44 35.94 44.92 49.41 26.95	44.92
26 05 33 13-1200 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	180.48 10.29 20.58 25.73 36.02 41.16 51.46 56.60 30.87	51.46
26 05 33 13-1201 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	161.01 7.84 15.68 19.60 27.44 31.36 39.21 43.13 23.52	39.21
26 05 33 13-1202 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	174.25 8.98 17.97 22.46 31.44 35.94 44.92 49.41 26.95	44.92
26 05 33 13-1203 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	198.49 10.29 20.58 25.73 36.02 41.16 51.46 56.60 30.87	51.46
26 05 33 13-1204 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes (26 05 33 13-0848) Note: Excludes cover.		
26 05 33 13-1205 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	153.20 7.84 15.68 19.60 27.44 31.36 39.21 43.13 23.52	39.21
26 05 33 13-1206 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	169.17 8.98 17.97 22.46 31.44 35.94 44.92 49.41 26.95	44.92
26 05 33 13-1207 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	185.93 10.29 20.58 25.73 36.02 41.16 51.46 56.60 30.87	51.46



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1208	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	171.03	39.21
			For Elevated Installation >10' To 15' Above Floor, Add	7.84	
			For Elevated Installation >15' To 20' Above Floor, Add	15.68	
			For Elevated Installation >20' To 25' Above Floor, Add	19.60	
			For Elevated Installation >25' To 30' Above Floor, Add	27.44	
			For Elevated Installation >30' To 35' Above Floor, Add	31.36	
			For Elevated Installation >35' To 40' Above Floor, Add	39.21	
			For Elevated Installation >40' Above Floor, Add	43.13	
			For Work In Restricted Working Space, Add	23.52	
26 05 33 13-1209	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	187.18	44.92
			For Elevated Installation >10' To 15' Above Floor, Add	8.98	
			For Elevated Installation >15' To 20' Above Floor, Add	17.97	
			For Elevated Installation >20' To 25' Above Floor, Add	22.46	
			For Elevated Installation >25' To 30' Above Floor, Add	31.44	
			For Elevated Installation >30' To 35' Above Floor, Add	35.94	
			For Elevated Installation >35' To 40' Above Floor, Add	44.92	
			For Elevated Installation >40' Above Floor, Add	49.41	
			For Work In Restricted Working Space, Add	26.95	
26 05 33 13-1210	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	211.80	51.46
			For Elevated Installation >10' To 15' Above Floor, Add	10.29	
			For Elevated Installation >15' To 20' Above Floor, Add	20.58	
			For Elevated Installation >20' To 25' Above Floor, Add	25.73	
			For Elevated Installation >25' To 30' Above Floor, Add	36.02	
			For Elevated Installation >30' To 35' Above Floor, Add	41.16	
			For Elevated Installation >35' To 40' Above Floor, Add	51.46	
			For Elevated Installation >40' Above Floor, Add	56.60	
			For Work In Restricted Working Space, Add	30.87	
26 05 33 13-1211			Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers (26 05 33 13-0848)		
26 05 33 13-1212	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover	51.74	4.90
			For Elevated Installation >10' To 15' Above Floor, Add	0.98	
			For Elevated Installation >15' To 20' Above Floor, Add	1.96	
			For Elevated Installation >20' To 25' Above Floor, Add	2.45	
			For Elevated Installation >25' To 30' Above Floor, Add	3.43	
			For Elevated Installation >30' To 35' Above Floor, Add	3.92	
			For Elevated Installation >35' To 40' Above Floor, Add	4.90	
			For Elevated Installation >40' Above Floor, Add	5.39	
			For Work In Restricted Working Space, Add	2.94	
26 05 33 13-1213	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover.....	70.10	5.71
			For Elevated Installation >10' To 15' Above Floor, Add	1.14	
			For Elevated Installation >15' To 20' Above Floor, Add	2.29	
			For Elevated Installation >20' To 25' Above Floor, Add	2.86	
			For Elevated Installation >25' To 30' Above Floor, Add	4.00	
			For Elevated Installation >30' To 35' Above Floor, Add	4.58	
			For Elevated Installation >35' To 40' Above Floor, Add	5.72	
			For Elevated Installation >40' Above Floor, Add	6.29	
			For Work In Restricted Working Space, Add	3.43	
26 05 33 13-1214	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover.....	66.26	5.71
			For Elevated Installation >10' To 15' Above Floor, Add	1.14	
			For Elevated Installation >15' To 20' Above Floor, Add	2.29	
			For Elevated Installation >20' To 25' Above Floor, Add	2.86	
			For Elevated Installation >25' To 30' Above Floor, Add	4.00	
			For Elevated Installation >30' To 35' Above Floor, Add	4.58	
			For Elevated Installation >35' To 40' Above Floor, Add	5.72	
			For Elevated Installation >40' Above Floor, Add	6.29	
			For Work In Restricted Working Space, Add	3.43	
26 05 33 13-1215	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover.....	59.08	5.71
			For Elevated Installation >10' To 15' Above Floor, Add	1.14	
			For Elevated Installation >15' To 20' Above Floor, Add	2.29	
			For Elevated Installation >20' To 25' Above Floor, Add	2.86	
			For Elevated Installation >25' To 30' Above Floor, Add	4.00	
			For Elevated Installation >30' To 35' Above Floor, Add	4.58	
			For Elevated Installation >35' To 40' Above Floor, Add	5.72	
			For Elevated Installation >40' Above Floor, Add	6.29	
			For Work In Restricted Working Space, Add	3.43	
26 05 33 13-1216	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover.....	282.54	8.17
			For Elevated Installation >10' To 15' Above Floor, Add	1.63	
			For Elevated Installation >15' To 20' Above Floor, Add	3.27	
			For Elevated Installation >20' To 25' Above Floor, Add	4.09	
			For Elevated Installation >25' To 30' Above Floor, Add	5.72	
			For Elevated Installation >30' To 35' Above Floor, Add	6.54	
			For Elevated Installation >35' To 40' Above Floor, Add	8.17	
			For Elevated Installation >40' Above Floor, Add	8.99	
			For Work In Restricted Working Space, Add	4.90	
26 05 33 13-1217	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover	251.40	8.17
			For Elevated Installation >10' To 15' Above Floor, Add	1.63	
			For Elevated Installation >15' To 20' Above Floor, Add	3.27	
			For Elevated Installation >20' To 25' Above Floor, Add	4.09	
			For Elevated Installation >25' To 30' Above Floor, Add	5.72	
			For Elevated Installation >30' To 35' Above Floor, Add	6.54	
			For Elevated Installation >35' To 40' Above Floor, Add	8.17	
			For Elevated Installation >40' Above Floor, Add	8.99	
			For Work In Restricted Working Space, Add	4.90	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 33 13-1218	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies (26 05 33 13-0848) Note: Includes covers.	
26 05 33 13-1219	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	307.28 51.46
	For Elevated Installation >10' To 15' Above Floor, Add	10.29
	For Elevated Installation >15' To 20' Above Floor, Add	20.58
	For Elevated Installation >20' To 25' Above Floor, Add	25.73
	For Elevated Installation >25' To 30' Above Floor, Add	36.02
	For Elevated Installation >30' To 35' Above Floor, Add	41.16
	For Elevated Installation >35' To 40' Above Floor, Add	51.46
	For Elevated Installation >40' Above Floor, Add	56.60
	For Work In Restricted Working Space, Add	30.87
26 05 33 13-1220	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	345.67 59.62
	For Elevated Installation >10' To 15' Above Floor, Add	11.93
	For Elevated Installation >15' To 20' Above Floor, Add	23.85
	For Elevated Installation >20' To 25' Above Floor, Add	29.81
	For Elevated Installation >25' To 30' Above Floor, Add	41.74
	For Elevated Installation >30' To 35' Above Floor, Add	47.70
	For Elevated Installation >35' To 40' Above Floor, Add	59.63
	For Elevated Installation >40' Above Floor, Add	65.59
	For Work In Restricted Working Space, Add	35.78
26 05 33 13-1221	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	472.49 65.34
	For Elevated Installation >10' To 15' Above Floor, Add	13.07
	For Elevated Installation >15' To 20' Above Floor, Add	26.14
	For Elevated Installation >20' To 25' Above Floor, Add	32.67
	For Elevated Installation >25' To 30' Above Floor, Add	45.74
	For Elevated Installation >30' To 35' Above Floor, Add	52.27
	For Elevated Installation >35' To 40' Above Floor, Add	65.34
	For Elevated Installation >40' Above Floor, Add	71.87
	For Work In Restricted Working Space, Add	39.20
26 05 33 13-1222	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	563.18 78.41
	For Elevated Installation >10' To 15' Above Floor, Add	15.68
	For Elevated Installation >15' To 20' Above Floor, Add	31.36
	For Elevated Installation >20' To 25' Above Floor, Add	39.21
	For Elevated Installation >25' To 30' Above Floor, Add	54.89
	For Elevated Installation >30' To 35' Above Floor, Add	62.73
	For Elevated Installation >35' To 40' Above Floor, Add	78.41
	For Elevated Installation >40' Above Floor, Add	86.25
	For Work In Restricted Working Space, Add	47.05
26 05 33 13-1223	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	812.74 110.27
	For Elevated Installation >10' To 15' Above Floor, Add	22.05
	For Elevated Installation >15' To 20' Above Floor, Add	44.10
	For Elevated Installation >20' To 25' Above Floor, Add	55.13
	For Elevated Installation >25' To 30' Above Floor, Add	77.18
	For Elevated Installation >30' To 35' Above Floor, Add	88.21
	For Elevated Installation >35' To 40' Above Floor, Add	110.26
	For Elevated Installation >40' Above Floor, Add	121.29
	For Work In Restricted Working Space, Add	66.16
26 05 33 13-1224	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,027.73 147.02
	For Elevated Installation >10' To 15' Above Floor, Add	29.40
	For Elevated Installation >15' To 20' Above Floor, Add	58.81
	For Elevated Installation >20' To 25' Above Floor, Add	73.51
	For Elevated Installation >25' To 30' Above Floor, Add	102.91
	For Elevated Installation >30' To 35' Above Floor, Add	117.61
	For Elevated Installation >35' To 40' Above Floor, Add	147.02
	For Elevated Installation >40' Above Floor, Add	161.72
	For Work In Restricted Working Space, Add	88.21
26 05 33 13-1225	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,497.53 183.77
	For Elevated Installation >10' To 15' Above Floor, Add	36.75
	For Elevated Installation >15' To 20' Above Floor, Add	73.51
	For Elevated Installation >20' To 25' Above Floor, Add	91.89
	For Elevated Installation >25' To 30' Above Floor, Add	128.64
	For Elevated Installation >30' To 35' Above Floor, Add	147.02
	For Elevated Installation >35' To 40' Above Floor, Add	183.77
	For Elevated Installation >40' Above Floor, Add	202.15
	For Work In Restricted Working Space, Add	110.26
26 05 33 13-1226	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,856.96 223.79
	For Elevated Installation >10' To 15' Above Floor, Add	44.76
	For Elevated Installation >15' To 20' Above Floor, Add	89.52
	For Elevated Installation >20' To 25' Above Floor, Add	111.90
	For Elevated Installation >25' To 30' Above Floor, Add	156.66
	For Elevated Installation >30' To 35' Above Floor, Add	179.04
	For Elevated Installation >35' To 40' Above Floor, Add	223.80
	For Elevated Installation >40' Above Floor, Add	246.17
	For Work In Restricted Working Space, Add	134.28
26 05 33 13-1227	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	307.28 51.46
	For Elevated Installation >10' To 15' Above Floor, Add	10.29
	For Elevated Installation >15' To 20' Above Floor, Add	20.58
	For Elevated Installation >20' To 25' Above Floor, Add	25.73
	For Elevated Installation >25' To 30' Above Floor, Add	36.02
	For Elevated Installation >30' To 35' Above Floor, Add	41.16
	For Elevated Installation >35' To 40' Above Floor, Add	51.46
	For Elevated Installation >40' Above Floor, Add	56.60
	For Work In Restricted Working Space, Add	30.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1228 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	345.67	59.62
For Elevated Installation >10' To 15' Above Floor, Add	11.93	
For Elevated Installation >15' To 20' Above Floor, Add	23.85	
For Elevated Installation >20' To 25' Above Floor, Add	29.81	
For Elevated Installation >25' To 30' Above Floor, Add	41.74	
For Elevated Installation >30' To 35' Above Floor, Add	47.70	
For Elevated Installation >35' To 40' Above Floor, Add	59.63	
For Elevated Installation >40' Above Floor, Add	65.59	
For Work In Restricted Working Space, Add	35.78	
26 05 33 13-1229 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	471.24	65.34
For Elevated Installation >10' To 15' Above Floor, Add	13.07	
For Elevated Installation >15' To 20' Above Floor, Add	26.14	
For Elevated Installation >20' To 25' Above Floor, Add	32.67	
For Elevated Installation >25' To 30' Above Floor, Add	45.74	
For Elevated Installation >30' To 35' Above Floor, Add	52.27	
For Elevated Installation >35' To 40' Above Floor, Add	65.34	
For Elevated Installation >40' Above Floor, Add	71.87	
For Work In Restricted Working Space, Add	39.20	
26 05 33 13-1230 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	550.49	78.41
For Elevated Installation >10' To 15' Above Floor, Add	15.68	
For Elevated Installation >15' To 20' Above Floor, Add	31.36	
For Elevated Installation >20' To 25' Above Floor, Add	39.21	
For Elevated Installation >25' To 30' Above Floor, Add	54.89	
For Elevated Installation >30' To 35' Above Floor, Add	62.73	
For Elevated Installation >35' To 40' Above Floor, Add	78.41	
For Elevated Installation >40' Above Floor, Add	86.25	
For Work In Restricted Working Space, Add	47.05	
26 05 33 13-1231 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	824.41	110.27
For Elevated Installation >10' To 15' Above Floor, Add	22.05	
For Elevated Installation >15' To 20' Above Floor, Add	44.10	
For Elevated Installation >20' To 25' Above Floor, Add	55.13	
For Elevated Installation >25' To 30' Above Floor, Add	77.18	
For Elevated Installation >30' To 35' Above Floor, Add	88.21	
For Elevated Installation >35' To 40' Above Floor, Add	110.26	
For Elevated Installation >40' Above Floor, Add	121.29	
For Work In Restricted Working Space, Add	66.16	
26 05 33 13-1232 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	1,080.12	147.02
For Elevated Installation >10' To 15' Above Floor, Add	29.40	
For Elevated Installation >15' To 20' Above Floor, Add	58.81	
For Elevated Installation >20' To 25' Above Floor, Add	73.51	
For Elevated Installation >25' To 30' Above Floor, Add	102.91	
For Elevated Installation >30' To 35' Above Floor, Add	117.61	
For Elevated Installation >35' To 40' Above Floor, Add	147.02	
For Elevated Installation >40' Above Floor, Add	161.72	
For Work In Restricted Working Space, Add	88.21	
26 05 33 13-1233 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	1,560.76	183.77
For Elevated Installation >10' To 15' Above Floor, Add	36.75	
For Elevated Installation >15' To 20' Above Floor, Add	73.51	
For Elevated Installation >20' To 25' Above Floor, Add	91.89	
For Elevated Installation >25' To 30' Above Floor, Add	128.64	
For Elevated Installation >30' To 35' Above Floor, Add	147.02	
For Elevated Installation >35' To 40' Above Floor, Add	183.77	
For Elevated Installation >40' Above Floor, Add	202.15	
For Work In Restricted Working Space, Add	110.26	
26 05 33 13-1234 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	1,896.34	223.79
For Elevated Installation >10' To 15' Above Floor, Add	44.76	
For Elevated Installation >15' To 20' Above Floor, Add	89.52	
For Elevated Installation >20' To 25' Above Floor, Add	111.90	
For Elevated Installation >25' To 30' Above Floor, Add	156.66	
For Elevated Installation >30' To 35' Above Floor, Add	179.04	
For Elevated Installation >35' To 40' Above Floor, Add	223.80	
For Elevated Installation >40' Above Floor, Add	246.17	
For Work In Restricted Working Space, Add	134.28	
26 05 33 13-1235 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	307.28	51.46
For Elevated Installation >10' To 15' Above Floor, Add	10.29	
For Elevated Installation >15' To 20' Above Floor, Add	20.58	
For Elevated Installation >20' To 25' Above Floor, Add	25.73	
For Elevated Installation >25' To 30' Above Floor, Add	36.02	
For Elevated Installation >30' To 35' Above Floor, Add	41.16	
For Elevated Installation >35' To 40' Above Floor, Add	51.46	
For Elevated Installation >40' Above Floor, Add	56.60	
For Work In Restricted Working Space, Add	30.87	
26 05 33 13-1236 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	345.67	59.62
For Elevated Installation >10' To 15' Above Floor, Add	11.93	
For Elevated Installation >15' To 20' Above Floor, Add	23.85	
For Elevated Installation >20' To 25' Above Floor, Add	29.81	
For Elevated Installation >25' To 30' Above Floor, Add	41.74	
For Elevated Installation >30' To 35' Above Floor, Add	47.70	
For Elevated Installation >35' To 40' Above Floor, Add	59.63	
For Elevated Installation >40' Above Floor, Add	65.59	
For Work In Restricted Working Space, Add	35.78	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1237	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	471.24	65.34	
		For Elevated Installation >10' To 15' Above Floor, Add	13.07		
		For Elevated Installation >15' To 20' Above Floor, Add	26.14		
		For Elevated Installation >20' To 25' Above Floor, Add	32.67		
		For Elevated Installation >25' To 30' Above Floor, Add	45.74		
		For Elevated Installation >30' To 35' Above Floor, Add	52.27		
		For Elevated Installation >35' To 40' Above Floor, Add	65.34		
		For Elevated Installation >40' Above Floor, Add	71.87		
		For Work In Restricted Working Space, Add	39.20		
26 05 33 13-1238	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	550.49	78.41	
		For Elevated Installation >10' To 15' Above Floor, Add	15.68		
		For Elevated Installation >15' To 20' Above Floor, Add	31.36		
		For Elevated Installation >20' To 25' Above Floor, Add	39.21		
		For Elevated Installation >25' To 30' Above Floor, Add	54.89		
		For Elevated Installation >30' To 35' Above Floor, Add	62.73		
		For Elevated Installation >35' To 40' Above Floor, Add	78.41		
		For Elevated Installation >40' Above Floor, Add	86.25		
		For Work In Restricted Working Space, Add	47.05		
26 05 33 13-1239	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	824.41	110.27	
		For Elevated Installation >10' To 15' Above Floor, Add	22.05		
		For Elevated Installation >15' To 20' Above Floor, Add	44.10		
		For Elevated Installation >20' To 25' Above Floor, Add	55.13		
		For Elevated Installation >25' To 30' Above Floor, Add	77.18		
		For Elevated Installation >30' To 35' Above Floor, Add	88.21		
		For Elevated Installation >35' To 40' Above Floor, Add	110.26		
		For Elevated Installation >40' Above Floor, Add	121.29		
		For Work In Restricted Working Space, Add	66.16		
26 05 33 13-1240	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,080.12	147.02	
		For Elevated Installation >10' To 15' Above Floor, Add	29.40		
		For Elevated Installation >15' To 20' Above Floor, Add	58.81		
		For Elevated Installation >20' To 25' Above Floor, Add	73.51		
		For Elevated Installation >25' To 30' Above Floor, Add	102.91		
		For Elevated Installation >30' To 35' Above Floor, Add	117.61		
		For Elevated Installation >35' To 40' Above Floor, Add	147.02		
		For Elevated Installation >40' Above Floor, Add	161.72		
		For Work In Restricted Working Space, Add	88.21		
26 05 33 13-1241	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,560.76	183.77	
		For Elevated Installation >10' To 15' Above Floor, Add	36.75		
		For Elevated Installation >15' To 20' Above Floor, Add	73.51		
		For Elevated Installation >20' To 25' Above Floor, Add	91.89		
		For Elevated Installation >25' To 30' Above Floor, Add	128.64		
		For Elevated Installation >30' To 35' Above Floor, Add	147.02		
		For Elevated Installation >35' To 40' Above Floor, Add	183.77		
		For Elevated Installation >40' Above Floor, Add	202.15		
		For Work In Restricted Working Space, Add	110.26		
26 05 33 13-1242	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,896.34	223.79	
		For Elevated Installation >10' To 15' Above Floor, Add	44.76		
		For Elevated Installation >15' To 20' Above Floor, Add	89.52		
		For Elevated Installation >20' To 25' Above Floor, Add	111.90		
		For Elevated Installation >25' To 30' Above Floor, Add	156.66		
		For Elevated Installation >30' To 35' Above Floor, Add	179.04		
		For Elevated Installation >35' To 40' Above Floor, Add	223.80		
		For Elevated Installation >40' Above Floor, Add	246.17		
		For Work In Restricted Working Space, Add	134.28		
26 05 33 13-1243	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	307.28	51.46	
		For Elevated Installation >10' To 15' Above Floor, Add	10.29		
		For Elevated Installation >15' To 20' Above Floor, Add	20.58		
		For Elevated Installation >20' To 25' Above Floor, Add	25.73		
		For Elevated Installation >25' To 30' Above Floor, Add	36.02		
		For Elevated Installation >30' To 35' Above Floor, Add	41.16		
		For Elevated Installation >35' To 40' Above Floor, Add	51.46		
		For Elevated Installation >40' Above Floor, Add	56.60		
		For Work In Restricted Working Space, Add	30.87		
26 05 33 13-1244	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	345.67	59.62	
		For Elevated Installation >10' To 15' Above Floor, Add	11.93		
		For Elevated Installation >15' To 20' Above Floor, Add	23.85		
		For Elevated Installation >20' To 25' Above Floor, Add	29.81		
		For Elevated Installation >25' To 30' Above Floor, Add	41.74		
		For Elevated Installation >30' To 35' Above Floor, Add	47.70		
		For Elevated Installation >35' To 40' Above Floor, Add	59.63		
		For Elevated Installation >40' Above Floor, Add	65.59		
		For Work In Restricted Working Space, Add	35.78		
26 05 33 13-1245	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	472.49	65.34	
		For Elevated Installation >10' To 15' Above Floor, Add	13.07		
		For Elevated Installation >15' To 20' Above Floor, Add	26.14		
		For Elevated Installation >20' To 25' Above Floor, Add	32.67		
		For Elevated Installation >25' To 30' Above Floor, Add	45.74		
		For Elevated Installation >30' To 35' Above Floor, Add	52.27		
		For Elevated Installation >35' To 40' Above Floor, Add	65.34		
		For Elevated Installation >40' Above Floor, Add	71.87		
		For Work In Restricted Working Space, Add	39.20		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1246	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	557.32	78.41
		For Elevated Installation >10' To 15' Above Floor, Add	15.68	
		For Elevated Installation >15' To 20' Above Floor, Add	31.36	
		For Elevated Installation >20' To 25' Above Floor, Add	39.21	
		For Elevated Installation >25' To 30' Above Floor, Add	54.89	
		For Elevated Installation >30' To 35' Above Floor, Add	62.73	
		For Elevated Installation >35' To 40' Above Floor, Add	78.41	
		For Elevated Installation >40' Above Floor, Add	86.25	
		For Work In Restricted Working Space, Add	47.05	
26 05 33 13-1247	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	812.74	110.27
		For Elevated Installation >10' To 15' Above Floor, Add	22.05	
		For Elevated Installation >15' To 20' Above Floor, Add	44.10	
		For Elevated Installation >20' To 25' Above Floor, Add	55.13	
		For Elevated Installation >25' To 30' Above Floor, Add	77.18	
		For Elevated Installation >30' To 35' Above Floor, Add	88.21	
		For Elevated Installation >35' To 40' Above Floor, Add	110.26	
		For Elevated Installation >40' Above Floor, Add	121.29	
		For Work In Restricted Working Space, Add	66.16	
26 05 33 13-1248	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	1,027.73	147.02
		For Elevated Installation >10' To 15' Above Floor, Add	29.40	
		For Elevated Installation >15' To 20' Above Floor, Add	58.81	
		For Elevated Installation >20' To 25' Above Floor, Add	73.51	
		For Elevated Installation >25' To 30' Above Floor, Add	102.91	
		For Elevated Installation >30' To 35' Above Floor, Add	117.61	
		For Elevated Installation >35' To 40' Above Floor, Add	147.02	
		For Elevated Installation >40' Above Floor, Add	161.72	
		For Work In Restricted Working Space, Add	88.21	
26 05 33 13-1249	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	1,497.53	183.77
		For Elevated Installation >10' To 15' Above Floor, Add	36.75	
		For Elevated Installation >15' To 20' Above Floor, Add	73.51	
		For Elevated Installation >20' To 25' Above Floor, Add	91.89	
		For Elevated Installation >25' To 30' Above Floor, Add	128.64	
		For Elevated Installation >30' To 35' Above Floor, Add	147.02	
		For Elevated Installation >35' To 40' Above Floor, Add	183.77	
		For Elevated Installation >40' Above Floor, Add	202.15	
		For Work In Restricted Working Space, Add	110.26	
26 05 33 13-1250	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	1,873.36	223.79
		For Elevated Installation >10' To 15' Above Floor, Add	44.76	
		For Elevated Installation >15' To 20' Above Floor, Add	89.52	
		For Elevated Installation >20' To 25' Above Floor, Add	111.90	
		For Elevated Installation >25' To 30' Above Floor, Add	156.66	
		For Elevated Installation >30' To 35' Above Floor, Add	179.04	
		For Elevated Installation >35' To 40' Above Floor, Add	223.80	
		For Elevated Installation >40' Above Floor, Add	246.17	
		For Work In Restricted Working Space, Add	134.28	
26 05 33 13-1251		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers (26 05 33 13-0848)		
26 05 33 13-1252	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	147.85	7.35
		For Elevated Installation >10' To 15' Above Floor, Add	1.47	
		For Elevated Installation >15' To 20' Above Floor, Add	2.94	
		For Elevated Installation >20' To 25' Above Floor, Add	3.68	
		For Elevated Installation >25' To 30' Above Floor, Add	5.15	
		For Elevated Installation >30' To 35' Above Floor, Add	5.88	
		For Elevated Installation >35' To 40' Above Floor, Add	7.35	
		For Elevated Installation >40' Above Floor, Add	8.09	
		For Work In Restricted Working Space, Add	4.41	
26 05 33 13-1253	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	149.49	8.17
		For Elevated Installation >10' To 15' Above Floor, Add	1.63	
		For Elevated Installation >15' To 20' Above Floor, Add	3.27	
		For Elevated Installation >20' To 25' Above Floor, Add	4.09	
		For Elevated Installation >25' To 30' Above Floor, Add	5.72	
		For Elevated Installation >30' To 35' Above Floor, Add	6.54	
		For Elevated Installation >35' To 40' Above Floor, Add	8.17	
		For Elevated Installation >40' Above Floor, Add	8.99	
		For Work In Restricted Working Space, Add	4.90	
26 05 33 13-1254	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	211.29	11.44
		For Elevated Installation >10' To 15' Above Floor, Add	2.29	
		For Elevated Installation >15' To 20' Above Floor, Add	4.57	
		For Elevated Installation >20' To 25' Above Floor, Add	5.72	
		For Elevated Installation >25' To 30' Above Floor, Add	8.00	
		For Elevated Installation >30' To 35' Above Floor, Add	9.15	
		For Elevated Installation >35' To 40' Above Floor, Add	11.44	
		For Elevated Installation >40' Above Floor, Add	12.58	
		For Work In Restricted Working Space, Add	6.86	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1255 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	214.56 2.61 5.23 6.54 9.15 10.46 13.07 14.38 7.84	13.07
26 05 33 13-1256 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	372.95 3.10 6.21 7.76 10.86 12.42 15.52 17.07 9.31	15.51
26 05 33 13-1257 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	381.12 3.92 7.84 9.80 13.72 15.68 19.61 21.57 11.76	19.60
26 05 33 13-1258 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	572.01 4.41 8.82 11.03 15.44 17.64 22.06 24.26 13.23	22.05
26 05 33 13-1259 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	585.07 5.72 11.43 14.29 20.01 22.87 28.59 31.44 17.15	28.58
26 05 33 13-1260 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings (26 05 33 13-0848)		
26 05 33 13-1261 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	256.71 4.08 8.17 10.21 14.29 16.34 20.42 22.46 12.25	20.42
26 05 33 13-1262 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	303.63 5.06 10.13 12.66 17.72 20.26 25.32 27.85 15.19	25.32
26 05 33 13-1263 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	359.69 6.21 12.41 15.52 21.72 24.83 31.04 34.14 18.62	31.04



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1264	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	442.49	35.94
			For Elevated Installation >10' To 15' Above Floor, Add	7.19	
			For Elevated Installation >15' To 20' Above Floor, Add	14.37	
			For Elevated Installation >20' To 25' Above Floor, Add	17.97	
			For Elevated Installation >25' To 30' Above Floor, Add	25.15	
			For Elevated Installation >30' To 35' Above Floor, Add	28.75	
			For Elevated Installation >35' To 40' Above Floor, Add	35.94	
			For Elevated Installation >40' Above Floor, Add	39.53	
			For Work In Restricted Working Space, Add	21.56	
26 05 33 13-1265	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	589.58	40.84
			For Elevated Installation >10' To 15' Above Floor, Add	8.17	
			For Elevated Installation >15' To 20' Above Floor, Add	16.33	
			For Elevated Installation >20' To 25' Above Floor, Add	20.42	
			For Elevated Installation >25' To 30' Above Floor, Add	28.58	
			For Elevated Installation >30' To 35' Above Floor, Add	32.67	
			For Elevated Installation >35' To 40' Above Floor, Add	40.84	
			For Elevated Installation >40' Above Floor, Add	44.92	
			For Work In Restricted Working Space, Add	24.50	
26 05 33 13-1266	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	813.17	44.92
			For Elevated Installation >10' To 15' Above Floor, Add	8.98	
			For Elevated Installation >15' To 20' Above Floor, Add	17.97	
			For Elevated Installation >20' To 25' Above Floor, Add	22.46	
			For Elevated Installation >25' To 30' Above Floor, Add	31.44	
			For Elevated Installation >30' To 35' Above Floor, Add	35.94	
			For Elevated Installation >35' To 40' Above Floor, Add	44.92	
			For Elevated Installation >40' Above Floor, Add	49.41	
			For Work In Restricted Working Space, Add	26.95	
26 05 33 13-1267	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,159.25	56.36
			For Elevated Installation >10' To 15' Above Floor, Add	11.27	
			For Elevated Installation >15' To 20' Above Floor, Add	22.54	
			For Elevated Installation >20' To 25' Above Floor, Add	28.18	
			For Elevated Installation >25' To 30' Above Floor, Add	39.45	
			For Elevated Installation >30' To 35' Above Floor, Add	45.08	
			For Elevated Installation >35' To 40' Above Floor, Add	56.36	
			For Elevated Installation >40' Above Floor, Add	61.99	
			For Work In Restricted Working Space, Add	33.81	
26 05 33 13-1268	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,443.26	76.77
			For Elevated Installation >10' To 15' Above Floor, Add	15.36	
			For Elevated Installation >15' To 20' Above Floor, Add	30.71	
			For Elevated Installation >20' To 25' Above Floor, Add	38.39	
			For Elevated Installation >25' To 30' Above Floor, Add	53.74	
			For Elevated Installation >30' To 35' Above Floor, Add	61.42	
			For Elevated Installation >35' To 40' Above Floor, Add	76.78	
			For Elevated Installation >40' Above Floor, Add	84.45	
			For Work In Restricted Working Space, Add	46.07	
26 05 33 13-1269	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,019.27	86.57
			For Elevated Installation >10' To 15' Above Floor, Add	17.32	
			For Elevated Installation >15' To 20' Above Floor, Add	34.63	
			For Elevated Installation >20' To 25' Above Floor, Add	43.29	
			For Elevated Installation >25' To 30' Above Floor, Add	60.61	
			For Elevated Installation >30' To 35' Above Floor, Add	69.26	
			For Elevated Installation >35' To 40' Above Floor, Add	86.58	
			For Elevated Installation >40' Above Floor, Add	95.24	
			For Work In Restricted Working Space, Add	51.95	
26 05 33 13-1270	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,330.75	112.71
			For Elevated Installation >10' To 15' Above Floor, Add	22.54	
			For Elevated Installation >15' To 20' Above Floor, Add	45.08	
			For Elevated Installation >20' To 25' Above Floor, Add	56.36	
			For Elevated Installation >25' To 30' Above Floor, Add	78.90	
			For Elevated Installation >30' To 35' Above Floor, Add	90.17	
			For Elevated Installation >35' To 40' Above Floor, Add	112.71	
			For Elevated Installation >40' Above Floor, Add	123.98	
			For Work In Restricted Working Space, Add	67.63	
26 05 33 13-1271			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper (26 05 33 13-0848)		
26 05 33 13-1272	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	404.60	20.42
			For Elevated Installation >10' To 15' Above Floor, Add	4.08	
			For Elevated Installation >15' To 20' Above Floor, Add	8.17	
			For Elevated Installation >20' To 25' Above Floor, Add	10.21	
			For Elevated Installation >25' To 30' Above Floor, Add	14.29	
			For Elevated Installation >30' To 35' Above Floor, Add	16.34	
			For Elevated Installation >35' To 40' Above Floor, Add	20.42	
			For Elevated Installation >40' Above Floor, Add	22.46	
			For Work In Restricted Working Space, Add	12.25	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1273	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	.....	421.26	25.32
		For Elevated Installation >10' To 15' Above Floor, Add	.....	5.06	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	10.13	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	12.66	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	17.72	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	20.26	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	25.32	
		For Elevated Installation >40' Above Floor, Add	.....	27.85	
		For Work In Restricted Working Space, Add	.....	15.19	
26 05 33 13-1274	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	.....	473.82	31.04
		For Elevated Installation >10' To 15' Above Floor, Add	.....	6.21	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	12.41	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	15.52	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	21.72	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	24.83	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	31.04	
		For Elevated Installation >40' Above Floor, Add	.....	34.14	
		For Work In Restricted Working Space, Add	.....	18.62	
26 05 33 13-1275	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	.....	572.93	35.94
		For Elevated Installation >10' To 15' Above Floor, Add	.....	7.19	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	14.37	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	17.97	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	25.15	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	28.75	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	35.94	
		For Elevated Installation >40' Above Floor, Add	.....	39.53	
		For Work In Restricted Working Space, Add	.....	21.56	
26 05 33 13-1276	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	.....	693.73	40.84
		For Elevated Installation >10' To 15' Above Floor, Add	.....	8.17	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	16.33	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	20.42	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	28.58	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	32.67	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	40.84	
		For Elevated Installation >40' Above Floor, Add	.....	44.92	
		For Work In Restricted Working Space, Add	.....	24.50	
26 05 33 13-1277	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	.....	884.87	44.92
		For Elevated Installation >10' To 15' Above Floor, Add	.....	8.98	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	17.97	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	22.46	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	31.44	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	35.94	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	44.92	
		For Elevated Installation >40' Above Floor, Add	.....	49.41	
		For Work In Restricted Working Space, Add	.....	26.95	
26 05 33 13-1278	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	.....	1,303.67	56.36
		For Elevated Installation >10' To 15' Above Floor, Add	.....	11.27	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	22.54	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	28.18	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	39.45	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	45.08	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	56.36	
		For Elevated Installation >40' Above Floor, Add	.....	61.99	
		For Work In Restricted Working Space, Add	.....	33.81	
26 05 33 13-1279	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	.....	1,636.25	76.77
		For Elevated Installation >10' To 15' Above Floor, Add	.....	15.36	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	30.71	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	38.39	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	53.74	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	61.42	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	76.78	
		For Elevated Installation >40' Above Floor, Add	.....	84.45	
		For Work In Restricted Working Space, Add	.....	46.07	
26 05 33 13-1280	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	.....	2,081.58	86.57
		For Elevated Installation >10' To 15' Above Floor, Add	.....	17.32	
		For Elevated Installation >15' To 20' Above Floor, Add	.....	34.63	
		For Elevated Installation >20' To 25' Above Floor, Add	.....	43.29	
		For Elevated Installation >25' To 30' Above Floor, Add	.....	60.61	
		For Elevated Installation >30' To 35' Above Floor, Add	.....	69.26	
		For Elevated Installation >35' To 40' Above Floor, Add	.....	86.58	
		For Elevated Installation >40' Above Floor, Add	.....	95.24	
		For Work In Restricted Working Space, Add	.....	51.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1281	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,606.69	112.71
			For Elevated Installation >10' To 15' Above Floor, Add	22.54	
			For Elevated Installation >15' To 20' Above Floor, Add	45.08	
			For Elevated Installation >20' To 25' Above Floor, Add	56.36	
			For Elevated Installation >25' To 30' Above Floor, Add	78.90	
			For Elevated Installation >30' To 35' Above Floor, Add	90.17	
			For Elevated Installation >35' To 40' Above Floor, Add	112.71	
			For Elevated Installation >40' Above Floor, Add	123.98	
			For Work In Restricted Working Space, Add	67.63	
26 05 33 13-1282			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs (26 05 33 13-0848)		
26 05 33 13-1283	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	85.65	9.80
			For Elevated Installation >10' To 15' Above Floor, Add	1.96	
			For Elevated Installation >15' To 20' Above Floor, Add	3.92	
			For Elevated Installation >20' To 25' Above Floor, Add	4.90	
			For Elevated Installation >25' To 30' Above Floor, Add	6.86	
			For Elevated Installation >30' To 35' Above Floor, Add	7.84	
			For Elevated Installation >35' To 40' Above Floor, Add	9.80	
			For Elevated Installation >40' Above Floor, Add	10.78	
			For Work In Restricted Working Space, Add	5.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 05 33 13-1284	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	93.34	12.25
			For Elevated Installation >10' To 15' Above Floor, Add	2.45	
			For Elevated Installation >15' To 20' Above Floor, Add	4.90	
			For Elevated Installation >20' To 25' Above Floor, Add	6.13	
			For Elevated Installation >25' To 30' Above Floor, Add	8.58	
			For Elevated Installation >30' To 35' Above Floor, Add	9.80	
			For Elevated Installation >35' To 40' Above Floor, Add	12.25	
			For Elevated Installation >40' Above Floor, Add	13.48	
			For Work In Restricted Working Space, Add	7.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	
26 05 33 13-1285	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	103.04	14.70
			For Elevated Installation >10' To 15' Above Floor, Add	2.94	
			For Elevated Installation >15' To 20' Above Floor, Add	5.88	
			For Elevated Installation >20' To 25' Above Floor, Add	7.35	
			For Elevated Installation >25' To 30' Above Floor, Add	10.29	
			For Elevated Installation >30' To 35' Above Floor, Add	11.76	
			For Elevated Installation >35' To 40' Above Floor, Add	14.71	
			For Elevated Installation >40' Above Floor, Add	16.18	
			For Work In Restricted Working Space, Add	8.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.82	
26 05 33 13-1286	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	116.96	17.97
			For Elevated Installation >10' To 15' Above Floor, Add	3.59	
			For Elevated Installation >15' To 20' Above Floor, Add	7.19	
			For Elevated Installation >20' To 25' Above Floor, Add	8.99	
			For Elevated Installation >25' To 30' Above Floor, Add	12.58	
			For Elevated Installation >30' To 35' Above Floor, Add	14.38	
			For Elevated Installation >35' To 40' Above Floor, Add	17.97	
			For Elevated Installation >40' Above Floor, Add	19.77	
			For Work In Restricted Working Space, Add	10.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.78	
26 05 33 13-1287	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	156.23	20.42
			For Elevated Installation >10' To 15' Above Floor, Add	4.08	
			For Elevated Installation >15' To 20' Above Floor, Add	8.17	
			For Elevated Installation >20' To 25' Above Floor, Add	10.21	
			For Elevated Installation >25' To 30' Above Floor, Add	14.29	
			For Elevated Installation >30' To 35' Above Floor, Add	16.34	
			For Elevated Installation >35' To 40' Above Floor, Add	20.42	
			For Elevated Installation >40' Above Floor, Add	22.46	
			For Work In Restricted Working Space, Add	12.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 33 13-1288	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	190.32	22.87
			For Elevated Installation >10' To 15' Above Floor, Add	4.57	
			For Elevated Installation >15' To 20' Above Floor, Add	9.15	
			For Elevated Installation >20' To 25' Above Floor, Add	11.44	
			For Elevated Installation >25' To 30' Above Floor, Add	16.01	
			For Elevated Installation >30' To 35' Above Floor, Add	18.30	
			For Elevated Installation >35' To 40' Above Floor, Add	22.87	
			For Elevated Installation >40' Above Floor, Add	25.16	
			For Work In Restricted Working Space, Add	13.72	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.72	
26 05 33 13-1289	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	271.24	28.58
			For Elevated Installation >10' To 15' Above Floor, Add	5.72	
			For Elevated Installation >15' To 20' Above Floor, Add	11.44	
			For Elevated Installation >20' To 25' Above Floor, Add	14.30	
			For Elevated Installation >25' To 30' Above Floor, Add	20.01	
			For Elevated Installation >30' To 35' Above Floor, Add	22.87	
			For Elevated Installation >35' To 40' Above Floor, Add	28.59	
			For Elevated Installation >40' Above Floor, Add	31.45	
			For Work In Restricted Working Space, Add	17.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.15	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1290	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	354.40 7.68 15.35 19.19 26.87 30.71 38.39 42.22 23.03 23.03	38.39
26 05 33 13-1291	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	450.86 8.66 17.31 21.64 30.30 34.63 43.29 47.61 25.97 25.97	43.29
26 05 33 13-1292	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	567.61 11.27 22.54 28.18 39.45 45.08 56.36 61.99 33.81 33.81	56.36
26 05 33 13-1293	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	711.98 18.30 36.59 45.74 64.03 73.18 91.48 100.62 54.89 54.89	91.47
26 05 33 13-1294	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,073.81 27.61 55.21 69.02 96.62 110.43 138.04 151.84 82.82 82.82	138.03
26 05 33 13-1295 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0848)				
26 05 33 13-1296	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.66 1.96 3.92 4.90 6.86 7.84 9.80 10.78 5.88 5.88	9.80
26 05 33 13-1297	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	135.65 2.45 4.90 6.13 8.58 9.80 12.25 13.48 7.35 7.35	12.25
26 05 33 13-1298	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	146.29 2.94 5.88 7.35 10.29 11.76 14.71 16.18 8.82 8.82	14.70



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1299 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	167.38 3.59 7.19 8.99 12.58 14.38 17.97 19.77 10.78 10.78	17.97
26 05 33 13-1300 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	180.04 4.08 8.17 10.21 14.29 16.34 20.42 22.46 12.25 12.25	20.42
26 05 33 13-1301 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	203.58 4.57 9.15 11.44 16.01 18.30 22.87 25.16 13.72 13.72	22.87
26 05 33 13-1302 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	308.46 5.72 11.44 14.30 20.01 22.87 28.59 31.45 17.15 17.15	28.58
26 05 33 13-1303 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	370.44 7.68 15.35 19.19 26.87 30.71 38.39 42.22 23.03 23.03	38.39
26 05 33 13-1304 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	454.33 8.66 17.31 21.64 30.30 34.63 43.29 47.61 25.97 25.97	43.29
26 05 33 13-1305 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	589.98 11.27 22.54 28.18 39.45 45.08 56.36 61.99 33.81 33.81	56.36
26 05 33 13-1306 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	918.91 18.30 36.59 45.74 64.03 73.18 91.48 100.62 54.89 54.89	91.47

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1307 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,500.26	138.03
For Elevated Installation >10' To 15' Above Floor, Add	27.61	
For Elevated Installation >15' To 20' Above Floor, Add	55.21	
For Elevated Installation >20' To 25' Above Floor, Add	69.02	
For Elevated Installation >25' To 30' Above Floor, Add	96.62	
For Elevated Installation >30' To 35' Above Floor, Add	110.43	
For Elevated Installation >35' To 40' Above Floor, Add	138.04	
For Elevated Installation >40' Above Floor, Add	151.84	
For Work In Restricted Working Space, Add	82.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.82	
26 05 33 13-1308 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0848)		
26 05 33 13-1309 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	137.00	9.80
For Elevated Installation >10' To 15' Above Floor, Add	1.96	
For Elevated Installation >15' To 20' Above Floor, Add	3.92	
For Elevated Installation >20' To 25' Above Floor, Add	4.90	
For Elevated Installation >25' To 30' Above Floor, Add	6.86	
For Elevated Installation >30' To 35' Above Floor, Add	7.84	
For Elevated Installation >35' To 40' Above Floor, Add	9.80	
For Elevated Installation >40' Above Floor, Add	10.78	
For Work In Restricted Working Space, Add	5.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 05 33 13-1310 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	144.52	12.25
For Elevated Installation >10' To 15' Above Floor, Add	2.45	
For Elevated Installation >15' To 20' Above Floor, Add	4.90	
For Elevated Installation >20' To 25' Above Floor, Add	6.13	
For Elevated Installation >25' To 30' Above Floor, Add	8.58	
For Elevated Installation >30' To 35' Above Floor, Add	9.80	
For Elevated Installation >35' To 40' Above Floor, Add	12.25	
For Elevated Installation >40' Above Floor, Add	13.48	
For Work In Restricted Working Space, Add	7.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	
26 05 33 13-1311 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	155.55	14.70
For Elevated Installation >10' To 15' Above Floor, Add	2.94	
For Elevated Installation >15' To 20' Above Floor, Add	5.88	
For Elevated Installation >20' To 25' Above Floor, Add	7.35	
For Elevated Installation >25' To 30' Above Floor, Add	10.29	
For Elevated Installation >30' To 35' Above Floor, Add	11.76	
For Elevated Installation >35' To 40' Above Floor, Add	14.71	
For Elevated Installation >40' Above Floor, Add	16.18	
For Work In Restricted Working Space, Add	8.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.82	
26 05 33 13-1312 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	195.51	17.97
For Elevated Installation >10' To 15' Above Floor, Add	3.59	
For Elevated Installation >15' To 20' Above Floor, Add	7.19	
For Elevated Installation >20' To 25' Above Floor, Add	8.99	
For Elevated Installation >25' To 30' Above Floor, Add	12.58	
For Elevated Installation >30' To 35' Above Floor, Add	14.38	
For Elevated Installation >35' To 40' Above Floor, Add	17.97	
For Elevated Installation >40' Above Floor, Add	19.77	
For Work In Restricted Working Space, Add	10.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.78	
26 05 33 13-1313 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	213.99	20.42
For Elevated Installation >10' To 15' Above Floor, Add	4.08	
For Elevated Installation >15' To 20' Above Floor, Add	8.17	
For Elevated Installation >20' To 25' Above Floor, Add	10.21	
For Elevated Installation >25' To 30' Above Floor, Add	14.29	
For Elevated Installation >30' To 35' Above Floor, Add	16.34	
For Elevated Installation >35' To 40' Above Floor, Add	20.42	
For Elevated Installation >40' Above Floor, Add	22.46	
For Work In Restricted Working Space, Add	12.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 33 13-1314 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	227.01	22.87
For Elevated Installation >10' To 15' Above Floor, Add	4.57	
For Elevated Installation >15' To 20' Above Floor, Add	9.15	
For Elevated Installation >20' To 25' Above Floor, Add	11.44	
For Elevated Installation >25' To 30' Above Floor, Add	16.01	
For Elevated Installation >30' To 35' Above Floor, Add	18.30	
For Elevated Installation >35' To 40' Above Floor, Add	22.87	
For Elevated Installation >40' Above Floor, Add	25.16	
For Work In Restricted Working Space, Add	13.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.72	

26 05 33 13-1315 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0848)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1316	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	105.66 4.08 8.17 10.21 14.29 16.34 20.42 22.46 12.25	20.42
26 05 33 13-1317	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	116.64 5.06 10.13 12.66 17.72 20.26 25.32 27.85 15.19	25.32
26 05 33 13-1318	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	150.54 6.21 12.41 15.52 21.72 24.83 31.04 34.14 18.62	31.04
26 05 33 13-1319	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	214.26 7.19 14.37 17.97 25.15 28.75 35.94 39.53 21.56	35.94
26 05 33 13-1320	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	253.42 8.17 16.33 20.42 28.58 32.67 40.84 44.92 24.50	40.84
26 05 33 13-1321	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	318.72 8.98 17.97 22.46 31.44 35.94 44.92 49.41 26.95	44.92
26 05 33 13-1322	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	422.58 11.27 22.54 28.18 39.45 45.08 56.36 61.99 33.81	56.36
26 05 33 13-1323	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	539.91 11.27 22.54 28.18 39.45 45.08 56.36 61.99 33.81	56.36
26 05 33 13-1324	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	703.07 17.32 34.63 43.29 60.61 69.26 86.58 95.24 51.95	86.57

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1325 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	905.83	112.71
For Elevated Installation >10' To 15' Above Floor, Add	22.54	
For Elevated Installation >15' To 20' Above Floor, Add	45.08	
For Elevated Installation >20' To 25' Above Floor, Add	56.36	
For Elevated Installation >25' To 30' Above Floor, Add	78.90	
For Elevated Installation >30' To 35' Above Floor, Add	90.17	
For Elevated Installation >35' To 40' Above Floor, Add	112.71	
For Elevated Installation >40' Above Floor, Add	123.98	
For Work In Restricted Working Space, Add	67.63	
26 05 33 13-1326 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,639.32	183.77
For Elevated Installation >10' To 15' Above Floor, Add	36.75	
For Elevated Installation >15' To 20' Above Floor, Add	73.51	
For Elevated Installation >20' To 25' Above Floor, Add	91.89	
For Elevated Installation >25' To 30' Above Floor, Add	128.64	
For Elevated Installation >30' To 35' Above Floor, Add	147.02	
For Elevated Installation >35' To 40' Above Floor, Add	183.77	
For Elevated Installation >40' Above Floor, Add	202.15	
For Work In Restricted Working Space, Add	110.26	
26 05 33 13-1327 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	2,066.80	276.07
For Elevated Installation >10' To 15' Above Floor, Add	55.21	
For Elevated Installation >15' To 20' Above Floor, Add	110.43	
For Elevated Installation >20' To 25' Above Floor, Add	138.03	
For Elevated Installation >25' To 30' Above Floor, Add	193.25	
For Elevated Installation >30' To 35' Above Floor, Add	220.85	
For Elevated Installation >35' To 40' Above Floor, Add	276.07	
For Elevated Installation >40' Above Floor, Add	303.67	
For Work In Restricted Working Space, Add	165.64	
26 05 33 13-1328 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions (26 05 33 13-0848)		
26 05 33 13-1329 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	107.84	20.42
For Elevated Installation >10' To 15' Above Floor, Add	4.08	
For Elevated Installation >15' To 20' Above Floor, Add	8.17	
For Elevated Installation >20' To 25' Above Floor, Add	10.21	
For Elevated Installation >25' To 30' Above Floor, Add	14.29	
For Elevated Installation >30' To 35' Above Floor, Add	16.34	
For Elevated Installation >35' To 40' Above Floor, Add	20.42	
For Elevated Installation >40' Above Floor, Add	22.46	
For Work In Restricted Working Space, Add	12.25	
26 05 33 13-1330 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	124.97	25.32
For Elevated Installation >10' To 15' Above Floor, Add	5.06	
For Elevated Installation >15' To 20' Above Floor, Add	10.13	
For Elevated Installation >20' To 25' Above Floor, Add	12.66	
For Elevated Installation >25' To 30' Above Floor, Add	17.72	
For Elevated Installation >30' To 35' Above Floor, Add	20.26	
For Elevated Installation >35' To 40' Above Floor, Add	25.32	
For Elevated Installation >40' Above Floor, Add	27.85	
For Work In Restricted Working Space, Add	15.19	
26 05 33 13-1331 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	154.99	31.04
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.41	
For Elevated Installation >20' To 25' Above Floor, Add	15.52	
For Elevated Installation >25' To 30' Above Floor, Add	21.72	
For Elevated Installation >30' To 35' Above Floor, Add	24.83	
For Elevated Installation >35' To 40' Above Floor, Add	31.04	
For Elevated Installation >40' Above Floor, Add	34.14	
For Work In Restricted Working Space, Add	18.62	
26 05 33 13-1332 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	222.42	35.94
For Elevated Installation >10' To 15' Above Floor, Add	7.19	
For Elevated Installation >15' To 20' Above Floor, Add	14.37	
For Elevated Installation >20' To 25' Above Floor, Add	17.97	
For Elevated Installation >25' To 30' Above Floor, Add	25.15	
For Elevated Installation >30' To 35' Above Floor, Add	28.75	
For Elevated Installation >35' To 40' Above Floor, Add	35.94	
For Elevated Installation >40' Above Floor, Add	39.53	
For Work In Restricted Working Space, Add	21.56	
26 05 33 13-1333 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	264.74	40.84
For Elevated Installation >10' To 15' Above Floor, Add	8.17	
For Elevated Installation >15' To 20' Above Floor, Add	16.33	
For Elevated Installation >20' To 25' Above Floor, Add	20.42	
For Elevated Installation >25' To 30' Above Floor, Add	28.58	
For Elevated Installation >30' To 35' Above Floor, Add	32.67	
For Elevated Installation >35' To 40' Above Floor, Add	40.84	
For Elevated Installation >40' Above Floor, Add	44.92	
For Work In Restricted Working Space, Add	24.50	
26 05 33 13-1334 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	343.18	44.92
For Elevated Installation >10' To 15' Above Floor, Add	8.98	
For Elevated Installation >15' To 20' Above Floor, Add	17.97	
For Elevated Installation >20' To 25' Above Floor, Add	22.46	
For Elevated Installation >25' To 30' Above Floor, Add	31.44	
For Elevated Installation >30' To 35' Above Floor, Add	35.94	
For Elevated Installation >35' To 40' Above Floor, Add	44.92	
For Elevated Installation >40' Above Floor, Add	49.41	
For Work In Restricted Working Space, Add	26.95	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1335	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	474.92	56.36
		For Elevated Installation >10' To 15' Above Floor, Add	11.27	
		For Elevated Installation >15' To 20' Above Floor, Add	22.54	
		For Elevated Installation >20' To 25' Above Floor, Add	28.18	
		For Elevated Installation >25' To 30' Above Floor, Add	39.45	
		For Elevated Installation >30' To 35' Above Floor, Add	45.08	
		For Elevated Installation >35' To 40' Above Floor, Add	56.36	
		For Elevated Installation >40' Above Floor, Add	61.99	
		For Work In Restricted Working Space, Add	33.81	
26 05 33 13-1336	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	593.12	56.36
		For Elevated Installation >10' To 15' Above Floor, Add	11.27	
		For Elevated Installation >15' To 20' Above Floor, Add	22.54	
		For Elevated Installation >20' To 25' Above Floor, Add	28.18	
		For Elevated Installation >25' To 30' Above Floor, Add	39.45	
		For Elevated Installation >30' To 35' Above Floor, Add	45.08	
		For Elevated Installation >35' To 40' Above Floor, Add	56.36	
		For Elevated Installation >40' Above Floor, Add	61.99	
		For Work In Restricted Working Space, Add	33.81	
26 05 33 13-1337	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	799.28	86.57
		For Elevated Installation >10' To 15' Above Floor, Add	17.32	
		For Elevated Installation >15' To 20' Above Floor, Add	34.63	
		For Elevated Installation >20' To 25' Above Floor, Add	43.29	
		For Elevated Installation >25' To 30' Above Floor, Add	60.61	
		For Elevated Installation >30' To 35' Above Floor, Add	69.26	
		For Elevated Installation >35' To 40' Above Floor, Add	86.58	
		For Elevated Installation >40' Above Floor, Add	95.24	
		For Work In Restricted Working Space, Add	51.95	
26 05 33 13-1338	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,001.69	112.71
		For Elevated Installation >10' To 15' Above Floor, Add	22.54	
		For Elevated Installation >15' To 20' Above Floor, Add	45.08	
		For Elevated Installation >20' To 25' Above Floor, Add	56.36	
		For Elevated Installation >25' To 30' Above Floor, Add	78.90	
		For Elevated Installation >30' To 35' Above Floor, Add	90.17	
		For Elevated Installation >35' To 40' Above Floor, Add	112.71	
		For Elevated Installation >40' Above Floor, Add	123.98	
		For Work In Restricted Working Space, Add	67.63	
26 05 33 13-1339	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,815.03	183.77
		For Elevated Installation >10' To 15' Above Floor, Add	36.75	
		For Elevated Installation >15' To 20' Above Floor, Add	73.51	
		For Elevated Installation >20' To 25' Above Floor, Add	91.89	
		For Elevated Installation >25' To 30' Above Floor, Add	128.64	
		For Elevated Installation >30' To 35' Above Floor, Add	147.02	
		For Elevated Installation >35' To 40' Above Floor, Add	183.77	
		For Elevated Installation >40' Above Floor, Add	202.15	
		For Work In Restricted Working Space, Add	110.26	
26 05 33 13-1340	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	2,350.53	276.07
		For Elevated Installation >10' To 15' Above Floor, Add	55.21	
		For Elevated Installation >15' To 20' Above Floor, Add	110.43	
		For Elevated Installation >20' To 25' Above Floor, Add	138.03	
		For Elevated Installation >25' To 30' Above Floor, Add	193.25	
		For Elevated Installation >30' To 35' Above Floor, Add	220.85	
		For Elevated Installation >35' To 40' Above Floor, Add	276.07	
		For Elevated Installation >40' Above Floor, Add	303.67	
		For Work In Restricted Working Space, Add	165.64	
26 05 33 13-1341		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings (26 05 33 13-0848)		
26 05 33 13-1342	EA	3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	56.92	6.53
		For Elevated Installation >10' To 15' Above Floor, Add	1.31	
		For Elevated Installation >15' To 20' Above Floor, Add	2.61	
		For Elevated Installation >20' To 25' Above Floor, Add	3.27	
		For Elevated Installation >25' To 30' Above Floor, Add	4.57	
		For Elevated Installation >30' To 35' Above Floor, Add	5.23	
		For Elevated Installation >35' To 40' Above Floor, Add	6.54	
		For Elevated Installation >40' Above Floor, Add	7.19	
		For Work In Restricted Working Space, Add	3.92	
26 05 33 13-1343	EA	1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	62.82	8.17
		For Elevated Installation >10' To 15' Above Floor, Add	1.63	
		For Elevated Installation >15' To 20' Above Floor, Add	3.27	
		For Elevated Installation >20' To 25' Above Floor, Add	4.09	
		For Elevated Installation >25' To 30' Above Floor, Add	5.72	
		For Elevated Installation >30' To 35' Above Floor, Add	6.54	
		For Elevated Installation >35' To 40' Above Floor, Add	8.17	
		For Elevated Installation >40' Above Floor, Add	8.99	
		For Work In Restricted Working Space, Add	4.90	
26 05 33 13-1344	EA	1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	71.01	8.17
		For Elevated Installation >10' To 15' Above Floor, Add	1.63	
		For Elevated Installation >15' To 20' Above Floor, Add	3.27	
		For Elevated Installation >20' To 25' Above Floor, Add	4.09	
		For Elevated Installation >25' To 30' Above Floor, Add	5.72	
		For Elevated Installation >30' To 35' Above Floor, Add	6.54	
		For Elevated Installation >35' To 40' Above Floor, Add	8.17	
		For Elevated Installation >40' Above Floor, Add	8.99	
		For Work In Restricted Working Space, Add	4.90	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1345	EA	1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	87.33	8.98
		For Elevated Installation >10' To 15' Above Floor, Add	1.80	
		For Elevated Installation >15' To 20' Above Floor, Add	3.59	
		For Elevated Installation >20' To 25' Above Floor, Add	4.49	
		For Elevated Installation >25' To 30' Above Floor, Add	6.29	
		For Elevated Installation >30' To 35' Above Floor, Add	7.19	
		For Elevated Installation >35' To 40' Above Floor, Add	8.99	
		For Elevated Installation >40' Above Floor, Add	9.88	
		For Work In Restricted Working Space, Add	5.39	
26 05 33 13-1346	EA	1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	92.05	8.98
		For Elevated Installation >10' To 15' Above Floor, Add	1.80	
		For Elevated Installation >15' To 20' Above Floor, Add	3.59	
		For Elevated Installation >20' To 25' Above Floor, Add	4.49	
		For Elevated Installation >25' To 30' Above Floor, Add	6.29	
		For Elevated Installation >30' To 35' Above Floor, Add	7.19	
		For Elevated Installation >35' To 40' Above Floor, Add	8.99	
		For Elevated Installation >40' Above Floor, Add	9.88	
		For Work In Restricted Working Space, Add	5.39	
26 05 33 13-1347	EA	1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	80.18	10.61
		For Elevated Installation >10' To 15' Above Floor, Add	2.12	
		For Elevated Installation >15' To 20' Above Floor, Add	4.25	
		For Elevated Installation >20' To 25' Above Floor, Add	5.31	
		For Elevated Installation >25' To 30' Above Floor, Add	7.43	
		For Elevated Installation >30' To 35' Above Floor, Add	8.50	
		For Elevated Installation >35' To 40' Above Floor, Add	10.62	
		For Elevated Installation >40' Above Floor, Add	11.68	
		For Work In Restricted Working Space, Add	6.37	
26 05 33 13-1348	EA	1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	90.73	10.61
		For Elevated Installation >10' To 15' Above Floor, Add	2.12	
		For Elevated Installation >15' To 20' Above Floor, Add	4.25	
		For Elevated Installation >20' To 25' Above Floor, Add	5.31	
		For Elevated Installation >25' To 30' Above Floor, Add	7.43	
		For Elevated Installation >30' To 35' Above Floor, Add	8.50	
		For Elevated Installation >35' To 40' Above Floor, Add	10.62	
		For Elevated Installation >40' Above Floor, Add	11.68	
		For Work In Restricted Working Space, Add	6.37	
26 05 33 13-1349	EA	1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	138.17	10.61
		For Elevated Installation >10' To 15' Above Floor, Add	2.12	
		For Elevated Installation >15' To 20' Above Floor, Add	4.25	
		For Elevated Installation >20' To 25' Above Floor, Add	5.31	
		For Elevated Installation >25' To 30' Above Floor, Add	7.43	
		For Elevated Installation >30' To 35' Above Floor, Add	8.50	
		For Elevated Installation >35' To 40' Above Floor, Add	10.62	
		For Elevated Installation >40' Above Floor, Add	11.68	
		For Work In Restricted Working Space, Add	6.37	
26 05 33 13-1350	EA	2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	153.76	12.25
		For Elevated Installation >10' To 15' Above Floor, Add	2.45	
		For Elevated Installation >15' To 20' Above Floor, Add	4.90	
		For Elevated Installation >20' To 25' Above Floor, Add	6.13	
		For Elevated Installation >25' To 30' Above Floor, Add	8.58	
		For Elevated Installation >30' To 35' Above Floor, Add	9.80	
		For Elevated Installation >35' To 40' Above Floor, Add	12.25	
		For Elevated Installation >40' Above Floor, Add	13.48	
		For Work In Restricted Working Space, Add	7.35	
26 05 33 13-1351	EA	2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	149.66	12.25
		For Elevated Installation >10' To 15' Above Floor, Add	2.45	
		For Elevated Installation >15' To 20' Above Floor, Add	4.90	
		For Elevated Installation >20' To 25' Above Floor, Add	6.13	
		For Elevated Installation >25' To 30' Above Floor, Add	8.58	
		For Elevated Installation >30' To 35' Above Floor, Add	9.80	
		For Elevated Installation >35' To 40' Above Floor, Add	12.25	
		For Elevated Installation >40' Above Floor, Add	13.48	
		For Work In Restricted Working Space, Add	7.35	
26 05 33 13-1352	EA	2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	157.27	12.25
		For Elevated Installation >10' To 15' Above Floor, Add	2.45	
		For Elevated Installation >15' To 20' Above Floor, Add	4.90	
		For Elevated Installation >20' To 25' Above Floor, Add	6.13	
		For Elevated Installation >25' To 30' Above Floor, Add	8.58	
		For Elevated Installation >30' To 35' Above Floor, Add	9.80	
		For Elevated Installation >35' To 40' Above Floor, Add	12.25	
		For Elevated Installation >40' Above Floor, Add	13.48	
		For Work In Restricted Working Space, Add	7.35	
26 05 33 13-1353	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	176.41	12.25
		For Elevated Installation >10' To 15' Above Floor, Add	2.45	
		For Elevated Installation >15' To 20' Above Floor, Add	4.90	
		For Elevated Installation >20' To 25' Above Floor, Add	6.13	
		For Elevated Installation >25' To 30' Above Floor, Add	8.58	
		For Elevated Installation >30' To 35' Above Floor, Add	9.80	
		For Elevated Installation >35' To 40' Above Floor, Add	12.25	
		For Elevated Installation >40' Above Floor, Add	13.48	
		For Work In Restricted Working Space, Add	7.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1354	EA		2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	176.17	14.70
			For Elevated Installation >10' To 15' Above Floor, Add	2.94	
			For Elevated Installation >15' To 20' Above Floor, Add	5.88	
			For Elevated Installation >20' To 25' Above Floor, Add	7.35	
			For Elevated Installation >25' To 30' Above Floor, Add	10.29	
			For Elevated Installation >30' To 35' Above Floor, Add	11.76	
			For Elevated Installation >35' To 40' Above Floor, Add	14.71	
			For Elevated Installation >40' Above Floor, Add	16.18	
			For Work In Restricted Working Space, Add	8.82	
26 05 33 13-1355	EA		3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	225.27	20.42
			For Elevated Installation >10' To 15' Above Floor, Add	4.08	
			For Elevated Installation >15' To 20' Above Floor, Add	8.17	
			For Elevated Installation >20' To 25' Above Floor, Add	10.21	
			For Elevated Installation >25' To 30' Above Floor, Add	14.29	
			For Elevated Installation >30' To 35' Above Floor, Add	16.34	
			For Elevated Installation >35' To 40' Above Floor, Add	20.42	
			For Elevated Installation >40' Above Floor, Add	22.46	
			For Work In Restricted Working Space, Add	12.25	
26 05 33 13-1356	EA		3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	329.26	23.68
			For Elevated Installation >10' To 15' Above Floor, Add	4.74	
			For Elevated Installation >15' To 20' Above Floor, Add	9.47	
			For Elevated Installation >20' To 25' Above Floor, Add	11.84	
			For Elevated Installation >25' To 30' Above Floor, Add	16.58	
			For Elevated Installation >30' To 35' Above Floor, Add	18.95	
			For Elevated Installation >35' To 40' Above Floor, Add	23.69	
			For Elevated Installation >40' Above Floor, Add	26.05	
			For Work In Restricted Working Space, Add	14.21	
26 05 33 13-1357	EA		4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	440.92	32.67
			For Elevated Installation >10' To 15' Above Floor, Add	6.54	
			For Elevated Installation >15' To 20' Above Floor, Add	13.07	
			For Elevated Installation >20' To 25' Above Floor, Add	16.34	
			For Elevated Installation >25' To 30' Above Floor, Add	22.87	
			For Elevated Installation >30' To 35' Above Floor, Add	26.14	
			For Elevated Installation >35' To 40' Above Floor, Add	32.68	
			For Elevated Installation >40' Above Floor, Add	35.94	
			For Work In Restricted Working Space, Add	19.61	
26 05 33 13-1358	EA		5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	552.91	44.92
			For Elevated Installation >10' To 15' Above Floor, Add	8.99	
			For Elevated Installation >15' To 20' Above Floor, Add	17.97	
			For Elevated Installation >20' To 25' Above Floor, Add	22.46	
			For Elevated Installation >25' To 30' Above Floor, Add	31.45	
			For Elevated Installation >30' To 35' Above Floor, Add	35.94	
			For Elevated Installation >35' To 40' Above Floor, Add	44.93	
			For Elevated Installation >40' Above Floor, Add	49.42	
			For Work In Restricted Working Space, Add	26.96	
26 05 33 13-1359			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples (26 05 33 13-0848)		
26 05 33 13-1360	EA		1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	37.98	9.80
			For Elevated Installation >10' To 15' Above Floor, Add	1.96	
			For Elevated Installation >15' To 20' Above Floor, Add	3.92	
			For Elevated Installation >20' To 25' Above Floor, Add	4.90	
			For Elevated Installation >25' To 30' Above Floor, Add	6.86	
			For Elevated Installation >30' To 35' Above Floor, Add	7.84	
			For Elevated Installation >35' To 40' Above Floor, Add	9.80	
			For Elevated Installation >40' Above Floor, Add	10.78	
			For Work In Restricted Working Space, Add	5.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.88	
26 05 33 13-1361	EA		3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	43.23	12.25
			For Elevated Installation >10' To 15' Above Floor, Add	2.45	
			For Elevated Installation >15' To 20' Above Floor, Add	4.90	
			For Elevated Installation >20' To 25' Above Floor, Add	6.13	
			For Elevated Installation >25' To 30' Above Floor, Add	8.58	
			For Elevated Installation >30' To 35' Above Floor, Add	9.80	
			For Elevated Installation >35' To 40' Above Floor, Add	12.25	
			For Elevated Installation >40' Above Floor, Add	13.48	
			For Work In Restricted Working Space, Add	7.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	
26 05 33 13-1362	EA		1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	50.80	15.51
			For Elevated Installation >10' To 15' Above Floor, Add	3.10	
			For Elevated Installation >15' To 20' Above Floor, Add	6.21	
			For Elevated Installation >20' To 25' Above Floor, Add	7.76	
			For Elevated Installation >25' To 30' Above Floor, Add	10.86	
			For Elevated Installation >30' To 35' Above Floor, Add	12.42	
			For Elevated Installation >35' To 40' Above Floor, Add	15.52	
			For Elevated Installation >40' Above Floor, Add	17.07	
			For Work In Restricted Working Space, Add	9.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.31	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1363	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	60.25	17.97
		For Elevated Installation >10' To 15' Above Floor, Add		3.59	
		For Elevated Installation >15' To 20' Above Floor, Add		7.19	
		For Elevated Installation >20' To 25' Above Floor, Add		8.99	
		For Elevated Installation >25' To 30' Above Floor, Add		12.58	
		For Elevated Installation >30' To 35' Above Floor, Add		14.38	
		For Elevated Installation >35' To 40' Above Floor, Add		17.97	
		For Elevated Installation >40' Above Floor, Add		19.77	
		For Work In Restricted Working Space, Add		10.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.78	
26 05 33 13-1364	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	65.95	20.42
		For Elevated Installation >10' To 15' Above Floor, Add		4.08	
		For Elevated Installation >15' To 20' Above Floor, Add		8.17	
		For Elevated Installation >20' To 25' Above Floor, Add		10.21	
		For Elevated Installation >25' To 30' Above Floor, Add		14.29	
		For Elevated Installation >30' To 35' Above Floor, Add		16.34	
		For Elevated Installation >35' To 40' Above Floor, Add		20.42	
		For Elevated Installation >40' Above Floor, Add		22.46	
		For Work In Restricted Working Space, Add		12.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.25	
26 05 33 13-1365	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	41.98	10.61
		For Elevated Installation >10' To 15' Above Floor, Add		2.12	
		For Elevated Installation >15' To 20' Above Floor, Add		4.25	
		For Elevated Installation >20' To 25' Above Floor, Add		5.31	
		For Elevated Installation >25' To 30' Above Floor, Add		7.43	
		For Elevated Installation >30' To 35' Above Floor, Add		8.50	
		For Elevated Installation >35' To 40' Above Floor, Add		10.62	
		For Elevated Installation >40' Above Floor, Add		11.68	
		For Work In Restricted Working Space, Add		6.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.37	
26 05 33 13-1366	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	45.75	12.25
		For Elevated Installation >10' To 15' Above Floor, Add		2.45	
		For Elevated Installation >15' To 20' Above Floor, Add		4.90	
		For Elevated Installation >20' To 25' Above Floor, Add		6.13	
		For Elevated Installation >25' To 30' Above Floor, Add		8.58	
		For Elevated Installation >30' To 35' Above Floor, Add		9.80	
		For Elevated Installation >35' To 40' Above Floor, Add		12.25	
		For Elevated Installation >40' Above Floor, Add		13.48	
		For Work In Restricted Working Space, Add		7.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.35	
26 05 33 13-1367	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	53.34	15.51
		For Elevated Installation >10' To 15' Above Floor, Add		3.10	
		For Elevated Installation >15' To 20' Above Floor, Add		6.21	
		For Elevated Installation >20' To 25' Above Floor, Add		7.76	
		For Elevated Installation >25' To 30' Above Floor, Add		10.86	
		For Elevated Installation >30' To 35' Above Floor, Add		12.42	
		For Elevated Installation >35' To 40' Above Floor, Add		15.52	
		For Elevated Installation >40' Above Floor, Add		17.07	
		For Work In Restricted Working Space, Add		9.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.31	
26 05 33 13-1368	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	62.94	17.97
		For Elevated Installation >10' To 15' Above Floor, Add		3.59	
		For Elevated Installation >15' To 20' Above Floor, Add		7.19	
		For Elevated Installation >20' To 25' Above Floor, Add		8.99	
		For Elevated Installation >25' To 30' Above Floor, Add		12.58	
		For Elevated Installation >30' To 35' Above Floor, Add		14.38	
		For Elevated Installation >35' To 40' Above Floor, Add		17.97	
		For Elevated Installation >40' Above Floor, Add		19.77	
		For Work In Restricted Working Space, Add		10.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.78	
26 05 33 13-1369	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	68.84	20.42
		For Elevated Installation >10' To 15' Above Floor, Add		4.08	
		For Elevated Installation >15' To 20' Above Floor, Add		8.17	
		For Elevated Installation >20' To 25' Above Floor, Add		10.21	
		For Elevated Installation >25' To 30' Above Floor, Add		14.29	
		For Elevated Installation >30' To 35' Above Floor, Add		16.34	
		For Elevated Installation >35' To 40' Above Floor, Add		20.42	
		For Elevated Installation >40' Above Floor, Add		22.46	
		For Work In Restricted Working Space, Add		12.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.25	
26 05 33 13-1370	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	75.00	22.87
		For Elevated Installation >10' To 15' Above Floor, Add		4.57	
		For Elevated Installation >15' To 20' Above Floor, Add		9.15	
		For Elevated Installation >20' To 25' Above Floor, Add		11.44	
		For Elevated Installation >25' To 30' Above Floor, Add		16.01	
		For Elevated Installation >30' To 35' Above Floor, Add		18.30	
		For Elevated Installation >35' To 40' Above Floor, Add		22.87	
		For Elevated Installation >40' Above Floor, Add		25.16	
		For Work In Restricted Working Space, Add		13.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.72	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1371	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.16	10.61	
		For Elevated Installation >10' To 15' Above Floor, Add	2.12		
		For Elevated Installation >15' To 20' Above Floor, Add	4.25		
		For Elevated Installation >20' To 25' Above Floor, Add	5.31		
		For Elevated Installation >25' To 30' Above Floor, Add	7.43		
		For Elevated Installation >30' To 35' Above Floor, Add	8.50		
		For Elevated Installation >35' To 40' Above Floor, Add	10.62		
		For Elevated Installation >40' Above Floor, Add	11.68		
		For Work In Restricted Working Space, Add	6.37		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37		
26 05 33 13-1372	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	45.92	12.25	
		For Elevated Installation >10' To 15' Above Floor, Add	2.45		
		For Elevated Installation >15' To 20' Above Floor, Add	4.90		
		For Elevated Installation >20' To 25' Above Floor, Add	6.13		
		For Elevated Installation >25' To 30' Above Floor, Add	8.58		
		For Elevated Installation >30' To 35' Above Floor, Add	9.80		
		For Elevated Installation >35' To 40' Above Floor, Add	12.25		
		For Elevated Installation >40' Above Floor, Add	13.48		
		For Work In Restricted Working Space, Add	7.35		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35		
26 05 33 13-1373	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	53.66	15.51	
		For Elevated Installation >10' To 15' Above Floor, Add	3.10		
		For Elevated Installation >15' To 20' Above Floor, Add	6.21		
		For Elevated Installation >20' To 25' Above Floor, Add	7.76		
		For Elevated Installation >25' To 30' Above Floor, Add	10.86		
		For Elevated Installation >30' To 35' Above Floor, Add	12.41		
		For Elevated Installation >35' To 40' Above Floor, Add	15.52		
		For Elevated Installation >40' Above Floor, Add	17.07		
		For Work In Restricted Working Space, Add	9.31		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.31		
26 05 33 13-1374	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.28	17.97	
		For Elevated Installation >10' To 15' Above Floor, Add	3.59		
		For Elevated Installation >15' To 20' Above Floor, Add	7.19		
		For Elevated Installation >20' To 25' Above Floor, Add	8.98		
		For Elevated Installation >25' To 30' Above Floor, Add	12.58		
		For Elevated Installation >30' To 35' Above Floor, Add	14.37		
		For Elevated Installation >35' To 40' Above Floor, Add	17.97		
		For Elevated Installation >40' Above Floor, Add	19.76		
		For Work In Restricted Working Space, Add	10.78		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.78		
26 05 33 13-1375	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	69.18	20.42	
		For Elevated Installation >10' To 15' Above Floor, Add	4.08		
		For Elevated Installation >15' To 20' Above Floor, Add	8.17		
		For Elevated Installation >20' To 25' Above Floor, Add	10.21		
		For Elevated Installation >25' To 30' Above Floor, Add	14.29		
		For Elevated Installation >30' To 35' Above Floor, Add	16.33		
		For Elevated Installation >35' To 40' Above Floor, Add	20.42		
		For Elevated Installation >40' Above Floor, Add	22.46		
		For Work In Restricted Working Space, Add	12.25		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25		
26 05 33 13-1376	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	75.89	22.87	
		For Elevated Installation >10' To 15' Above Floor, Add	4.57		
		For Elevated Installation >15' To 20' Above Floor, Add	9.15		
		For Elevated Installation >20' To 25' Above Floor, Add	11.43		
		For Elevated Installation >25' To 30' Above Floor, Add	16.01		
		For Elevated Installation >30' To 35' Above Floor, Add	18.29		
		For Elevated Installation >35' To 40' Above Floor, Add	22.87		
		For Elevated Installation >40' Above Floor, Add	25.15		
		For Work In Restricted Working Space, Add	13.72		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.72		
26 05 33 13-1377	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.54	10.61	
		For Elevated Installation >10' To 15' Above Floor, Add	2.12		
		For Elevated Installation >15' To 20' Above Floor, Add	4.25		
		For Elevated Installation >20' To 25' Above Floor, Add	5.31		
		For Elevated Installation >25' To 30' Above Floor, Add	7.43		
		For Elevated Installation >30' To 35' Above Floor, Add	8.50		
		For Elevated Installation >35' To 40' Above Floor, Add	10.62		
		For Elevated Installation >40' Above Floor, Add	11.68		
		For Work In Restricted Working Space, Add	6.37		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37		
26 05 33 13-1378	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	48.31	12.25	
		For Elevated Installation >10' To 15' Above Floor, Add	2.45		
		For Elevated Installation >15' To 20' Above Floor, Add	4.90		
		For Elevated Installation >20' To 25' Above Floor, Add	6.13		
		For Elevated Installation >25' To 30' Above Floor, Add	8.58		
		For Elevated Installation >30' To 35' Above Floor, Add	9.80		
		For Elevated Installation >35' To 40' Above Floor, Add	12.25		
		For Elevated Installation >40' Above Floor, Add	13.48		
		For Work In Restricted Working Space, Add	7.35		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1379	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	56.22	15.51
		For Elevated Installation >10' To 15' Above Floor, Add	3.10	
		For Elevated Installation >15' To 20' Above Floor, Add	6.21	
		For Elevated Installation >20' To 25' Above Floor, Add	7.76	
		For Elevated Installation >25' To 30' Above Floor, Add	10.86	
		For Elevated Installation >30' To 35' Above Floor, Add	12.41	
		For Elevated Installation >35' To 40' Above Floor, Add	15.52	
		For Elevated Installation >40' Above Floor, Add	17.07	
		For Work In Restricted Working Space, Add	9.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.31	
26 05 33 13-1380	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	64.73	17.97
		For Elevated Installation >10' To 15' Above Floor, Add	3.59	
		For Elevated Installation >15' To 20' Above Floor, Add	7.19	
		For Elevated Installation >20' To 25' Above Floor, Add	8.98	
		For Elevated Installation >25' To 30' Above Floor, Add	12.58	
		For Elevated Installation >30' To 35' Above Floor, Add	14.37	
		For Elevated Installation >35' To 40' Above Floor, Add	17.97	
		For Elevated Installation >40' Above Floor, Add	19.76	
		For Work In Restricted Working Space, Add	10.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.78	
26 05 33 13-1381	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	70.79	20.42
		For Elevated Installation >10' To 15' Above Floor, Add	4.08	
		For Elevated Installation >15' To 20' Above Floor, Add	8.17	
		For Elevated Installation >20' To 25' Above Floor, Add	10.21	
		For Elevated Installation >25' To 30' Above Floor, Add	14.29	
		For Elevated Installation >30' To 35' Above Floor, Add	16.33	
		For Elevated Installation >35' To 40' Above Floor, Add	20.42	
		For Elevated Installation >40' Above Floor, Add	22.46	
		For Work In Restricted Working Space, Add	12.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 33 13-1382	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	78.70	22.87
		For Elevated Installation >10' To 15' Above Floor, Add	4.57	
		For Elevated Installation >15' To 20' Above Floor, Add	9.15	
		For Elevated Installation >20' To 25' Above Floor, Add	11.43	
		For Elevated Installation >25' To 30' Above Floor, Add	16.01	
		For Elevated Installation >30' To 35' Above Floor, Add	18.29	
		For Elevated Installation >35' To 40' Above Floor, Add	22.87	
		For Elevated Installation >40' Above Floor, Add	25.15	
		For Work In Restricted Working Space, Add	13.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.72	
26 05 33 13-1383	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	107.87	27.77
		For Elevated Installation >10' To 15' Above Floor, Add	5.55	
		For Elevated Installation >15' To 20' Above Floor, Add	11.11	
		For Elevated Installation >20' To 25' Above Floor, Add	13.88	
		For Elevated Installation >25' To 30' Above Floor, Add	19.44	
		For Elevated Installation >30' To 35' Above Floor, Add	22.21	
		For Elevated Installation >35' To 40' Above Floor, Add	27.77	
		For Elevated Installation >40' Above Floor, Add	30.54	
		For Work In Restricted Working Space, Add	16.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.66	
26 05 33 13-1384	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	140.81	38.39
		For Elevated Installation >10' To 15' Above Floor, Add	7.68	
		For Elevated Installation >15' To 20' Above Floor, Add	15.35	
		For Elevated Installation >20' To 25' Above Floor, Add	19.19	
		For Elevated Installation >25' To 30' Above Floor, Add	26.87	
		For Elevated Installation >30' To 35' Above Floor, Add	30.71	
		For Elevated Installation >35' To 40' Above Floor, Add	38.39	
		For Elevated Installation >40' Above Floor, Add	42.22	
		For Work In Restricted Working Space, Add	23.03	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.03	
26 05 33 13-1385	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.72	10.61
		For Elevated Installation >10' To 15' Above Floor, Add	2.12	
		For Elevated Installation >15' To 20' Above Floor, Add	4.25	
		For Elevated Installation >20' To 25' Above Floor, Add	5.31	
		For Elevated Installation >25' To 30' Above Floor, Add	7.43	
		For Elevated Installation >30' To 35' Above Floor, Add	8.50	
		For Elevated Installation >35' To 40' Above Floor, Add	10.62	
		For Elevated Installation >40' Above Floor, Add	11.68	
		For Work In Restricted Working Space, Add	6.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37	
26 05 33 13-1386	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	48.63	12.25
		For Elevated Installation >10' To 15' Above Floor, Add	2.45	
		For Elevated Installation >15' To 20' Above Floor, Add	4.90	
		For Elevated Installation >20' To 25' Above Floor, Add	6.13	
		For Elevated Installation >25' To 30' Above Floor, Add	8.58	
		For Elevated Installation >30' To 35' Above Floor, Add	9.80	
		For Elevated Installation >35' To 40' Above Floor, Add	12.25	
		For Elevated Installation >40' Above Floor, Add	13.48	
		For Work In Restricted Working Space, Add	7.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1387	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	56.57	15.51
		For Elevated Installation >10' To 15' Above Floor, Add		3.10	
		For Elevated Installation >15' To 20' Above Floor, Add		6.21	
		For Elevated Installation >20' To 25' Above Floor, Add		7.76	
		For Elevated Installation >25' To 30' Above Floor, Add		10.86	
		For Elevated Installation >30' To 35' Above Floor, Add		12.41	
		For Elevated Installation >35' To 40' Above Floor, Add		15.52	
		For Elevated Installation >40' Above Floor, Add		17.07	
		For Work In Restricted Working Space, Add		9.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.31	
26 05 33 13-1388	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	66.19	17.97
		For Elevated Installation >10' To 15' Above Floor, Add		3.59	
		For Elevated Installation >15' To 20' Above Floor, Add		7.19	
		For Elevated Installation >20' To 25' Above Floor, Add		8.98	
		For Elevated Installation >25' To 30' Above Floor, Add		12.58	
		For Elevated Installation >30' To 35' Above Floor, Add		14.37	
		For Elevated Installation >35' To 40' Above Floor, Add		17.97	
		For Elevated Installation >40' Above Floor, Add		19.76	
		For Work In Restricted Working Space, Add		10.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.78	
26 05 33 13-1389	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	72.40	20.42
		For Elevated Installation >10' To 15' Above Floor, Add		4.08	
		For Elevated Installation >15' To 20' Above Floor, Add		8.17	
		For Elevated Installation >20' To 25' Above Floor, Add		10.21	
		For Elevated Installation >25' To 30' Above Floor, Add		14.29	
		For Elevated Installation >30' To 35' Above Floor, Add		16.33	
		For Elevated Installation >35' To 40' Above Floor, Add		20.42	
		For Elevated Installation >40' Above Floor, Add		22.46	
		For Work In Restricted Working Space, Add		12.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.25	
26 05 33 13-1390	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	81.52	22.87
		For Elevated Installation >10' To 15' Above Floor, Add		4.57	
		For Elevated Installation >15' To 20' Above Floor, Add		9.15	
		For Elevated Installation >20' To 25' Above Floor, Add		11.43	
		For Elevated Installation >25' To 30' Above Floor, Add		16.01	
		For Elevated Installation >30' To 35' Above Floor, Add		18.29	
		For Elevated Installation >35' To 40' Above Floor, Add		22.87	
		For Elevated Installation >40' Above Floor, Add		25.15	
		For Work In Restricted Working Space, Add		13.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.72	
26 05 33 13-1391	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	110.35	27.77
		For Elevated Installation >10' To 15' Above Floor, Add		5.55	
		For Elevated Installation >15' To 20' Above Floor, Add		11.11	
		For Elevated Installation >20' To 25' Above Floor, Add		13.88	
		For Elevated Installation >25' To 30' Above Floor, Add		19.44	
		For Elevated Installation >30' To 35' Above Floor, Add		22.21	
		For Elevated Installation >35' To 40' Above Floor, Add		27.77	
		For Elevated Installation >40' Above Floor, Add		30.54	
		For Work In Restricted Working Space, Add		16.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		16.66	
26 05 33 13-1392	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	146.16	38.39
		For Elevated Installation >10' To 15' Above Floor, Add		7.68	
		For Elevated Installation >15' To 20' Above Floor, Add		15.35	
		For Elevated Installation >20' To 25' Above Floor, Add		19.19	
		For Elevated Installation >25' To 30' Above Floor, Add		26.87	
		For Elevated Installation >30' To 35' Above Floor, Add		30.71	
		For Elevated Installation >35' To 40' Above Floor, Add		38.39	
		For Elevated Installation >40' Above Floor, Add		42.22	
		For Work In Restricted Working Space, Add		23.03	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		23.03	
26 05 33 13-1393	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	173.11	43.29
		For Elevated Installation >10' To 15' Above Floor, Add		8.66	
		For Elevated Installation >15' To 20' Above Floor, Add		17.31	
		For Elevated Installation >20' To 25' Above Floor, Add		21.64	
		For Elevated Installation >25' To 30' Above Floor, Add		30.30	
		For Elevated Installation >30' To 35' Above Floor, Add		34.63	
		For Elevated Installation >35' To 40' Above Floor, Add		43.29	
		For Elevated Installation >40' Above Floor, Add		47.61	
		For Work In Restricted Working Space, Add		25.97	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		25.97	
26 05 33 13-1394	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	205.29	56.36
		For Elevated Installation >10' To 15' Above Floor, Add		11.27	
		For Elevated Installation >15' To 20' Above Floor, Add		22.54	
		For Elevated Installation >20' To 25' Above Floor, Add		28.18	
		For Elevated Installation >25' To 30' Above Floor, Add		39.45	
		For Elevated Installation >30' To 35' Above Floor, Add		45.08	
		For Elevated Installation >35' To 40' Above Floor, Add		56.35	
		For Elevated Installation >40' Above Floor, Add		61.99	
		For Work In Restricted Working Space, Add		33.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		33.81	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 13-1395	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	45.05		10.61
		For Elevated Installation >10' To 15' Above Floor, Add	2.12		
		For Elevated Installation >15' To 20' Above Floor, Add	4.25		
		For Elevated Installation >20' To 25' Above Floor, Add	5.31		
		For Elevated Installation >25' To 30' Above Floor, Add	7.43		
		For Elevated Installation >30' To 35' Above Floor, Add	8.50		
		For Elevated Installation >35' To 40' Above Floor, Add	10.62		
		For Elevated Installation >40' Above Floor, Add	11.68		
		For Work In Restricted Working Space, Add	6.37		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37		
26 05 33 13-1396	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	48.99		12.25
		For Elevated Installation >10' To 15' Above Floor, Add	2.45		
		For Elevated Installation >15' To 20' Above Floor, Add	4.90		
		For Elevated Installation >20' To 25' Above Floor, Add	6.13		
		For Elevated Installation >25' To 30' Above Floor, Add	8.58		
		For Elevated Installation >30' To 35' Above Floor, Add	9.80		
		For Elevated Installation >35' To 40' Above Floor, Add	12.25		
		For Elevated Installation >40' Above Floor, Add	13.48		
		For Work In Restricted Working Space, Add	7.35		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35		
26 05 33 13-1397	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	56.95		15.51
		For Elevated Installation >10' To 15' Above Floor, Add	3.10		
		For Elevated Installation >15' To 20' Above Floor, Add	6.21		
		For Elevated Installation >20' To 25' Above Floor, Add	7.76		
		For Elevated Installation >25' To 30' Above Floor, Add	10.86		
		For Elevated Installation >30' To 35' Above Floor, Add	12.41		
		For Elevated Installation >35' To 40' Above Floor, Add	15.52		
		For Elevated Installation >40' Above Floor, Add	17.07		
		For Work In Restricted Working Space, Add	9.31		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.31		
26 05 33 13-1398	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	66.87		17.97
		For Elevated Installation >10' To 15' Above Floor, Add	3.59		
		For Elevated Installation >15' To 20' Above Floor, Add	7.19		
		For Elevated Installation >20' To 25' Above Floor, Add	8.98		
		For Elevated Installation >25' To 30' Above Floor, Add	12.58		
		For Elevated Installation >30' To 35' Above Floor, Add	14.37		
		For Elevated Installation >35' To 40' Above Floor, Add	17.97		
		For Elevated Installation >40' Above Floor, Add	19.76		
		For Work In Restricted Working Space, Add	10.78		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.78		
26 05 33 13-1399	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	73.10		20.42
		For Elevated Installation >10' To 15' Above Floor, Add	4.08		
		For Elevated Installation >15' To 20' Above Floor, Add	8.17		
		For Elevated Installation >20' To 25' Above Floor, Add	10.21		
		For Elevated Installation >25' To 30' Above Floor, Add	14.29		
		For Elevated Installation >30' To 35' Above Floor, Add	16.33		
		For Elevated Installation >35' To 40' Above Floor, Add	20.42		
		For Elevated Installation >40' Above Floor, Add	22.46		
		For Work In Restricted Working Space, Add	12.25		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25		
26 05 33 13-1400	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	83.05		22.87
		For Elevated Installation >10' To 15' Above Floor, Add	4.57		
		For Elevated Installation >15' To 20' Above Floor, Add	9.15		
		For Elevated Installation >20' To 25' Above Floor, Add	11.43		
		For Elevated Installation >25' To 30' Above Floor, Add	16.01		
		For Elevated Installation >30' To 35' Above Floor, Add	18.29		
		For Elevated Installation >35' To 40' Above Floor, Add	22.87		
		For Elevated Installation >40' Above Floor, Add	25.15		
		For Work In Restricted Working Space, Add	13.72		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.72		
26 05 33 13-1401	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	120.25		27.77
		For Elevated Installation >10' To 15' Above Floor, Add	5.55		
		For Elevated Installation >15' To 20' Above Floor, Add	11.11		
		For Elevated Installation >20' To 25' Above Floor, Add	13.88		
		For Elevated Installation >25' To 30' Above Floor, Add	19.44		
		For Elevated Installation >30' To 35' Above Floor, Add	22.21		
		For Elevated Installation >35' To 40' Above Floor, Add	27.77		
		For Elevated Installation >40' Above Floor, Add	30.54		
		For Work In Restricted Working Space, Add	16.66		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.66		
26 05 33 13-1402	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	154.17		38.39
		For Elevated Installation >10' To 15' Above Floor, Add	7.68		
		For Elevated Installation >15' To 20' Above Floor, Add	15.35		
		For Elevated Installation >20' To 25' Above Floor, Add	19.19		
		For Elevated Installation >25' To 30' Above Floor, Add	26.87		
		For Elevated Installation >30' To 35' Above Floor, Add	30.71		
		For Elevated Installation >35' To 40' Above Floor, Add	38.39		
		For Elevated Installation >40' Above Floor, Add	42.22		
		For Work In Restricted Working Space, Add	23.03		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.03		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1403	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	174.82	43.29	
		For Elevated Installation >10' To 15' Above Floor, Add	8.66		
		For Elevated Installation >15' To 20' Above Floor, Add	17.31		
		For Elevated Installation >20' To 25' Above Floor, Add	21.64		
		For Elevated Installation >25' To 30' Above Floor, Add	30.30		
		For Elevated Installation >30' To 35' Above Floor, Add	34.63		
		For Elevated Installation >35' To 40' Above Floor, Add	43.29		
		For Elevated Installation >40' Above Floor, Add	47.61		
		For Work In Restricted Working Space, Add	25.97		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.97		
26 05 33 13-1404	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	209.86	56.36	
		For Elevated Installation >10' To 15' Above Floor, Add	11.27		
		For Elevated Installation >15' To 20' Above Floor, Add	22.54		
		For Elevated Installation >20' To 25' Above Floor, Add	28.18		
		For Elevated Installation >25' To 30' Above Floor, Add	39.45		
		For Elevated Installation >30' To 35' Above Floor, Add	45.08		
		For Elevated Installation >35' To 40' Above Floor, Add	56.35		
		For Elevated Installation >40' Above Floor, Add	61.99		
		For Work In Restricted Working Space, Add	33.81		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.81		
26 05 33 13-1405	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	306.31	77.59	
		For Elevated Installation >10' To 15' Above Floor, Add	15.52		
		For Elevated Installation >15' To 20' Above Floor, Add	31.04		
		For Elevated Installation >20' To 25' Above Floor, Add	38.80		
		For Elevated Installation >25' To 30' Above Floor, Add	54.31		
		For Elevated Installation >30' To 35' Above Floor, Add	62.07		
		For Elevated Installation >35' To 40' Above Floor, Add	77.59		
		For Elevated Installation >40' Above Floor, Add	85.35		
		For Work In Restricted Working Space, Add	46.55		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.55		
26 05 33 13-1406	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	45.68	10.61	
		For Elevated Installation >10' To 15' Above Floor, Add	2.12		
		For Elevated Installation >15' To 20' Above Floor, Add	4.25		
		For Elevated Installation >20' To 25' Above Floor, Add	5.31		
		For Elevated Installation >25' To 30' Above Floor, Add	7.43		
		For Elevated Installation >30' To 35' Above Floor, Add	8.50		
		For Elevated Installation >35' To 40' Above Floor, Add	10.62		
		For Elevated Installation >40' Above Floor, Add	11.68		
		For Work In Restricted Working Space, Add	6.37		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37		
26 05 33 13-1407	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	49.61	12.25	
		For Elevated Installation >10' To 15' Above Floor, Add	2.45		
		For Elevated Installation >15' To 20' Above Floor, Add	4.90		
		For Elevated Installation >20' To 25' Above Floor, Add	6.13		
		For Elevated Installation >25' To 30' Above Floor, Add	8.58		
		For Elevated Installation >30' To 35' Above Floor, Add	9.80		
		For Elevated Installation >35' To 40' Above Floor, Add	12.25		
		For Elevated Installation >40' Above Floor, Add	13.48		
		For Work In Restricted Working Space, Add	7.35		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35		
26 05 33 13-1408	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	57.62	15.51	
		For Elevated Installation >10' To 15' Above Floor, Add	3.10		
		For Elevated Installation >15' To 20' Above Floor, Add	6.21		
		For Elevated Installation >20' To 25' Above Floor, Add	7.76		
		For Elevated Installation >25' To 30' Above Floor, Add	10.86		
		For Elevated Installation >30' To 35' Above Floor, Add	12.41		
		For Elevated Installation >35' To 40' Above Floor, Add	15.52		
		For Elevated Installation >40' Above Floor, Add	17.07		
		For Work In Restricted Working Space, Add	9.31		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.31		
26 05 33 13-1409	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	68.12	17.97	
		For Elevated Installation >10' To 15' Above Floor, Add	3.59		
		For Elevated Installation >15' To 20' Above Floor, Add	7.19		
		For Elevated Installation >20' To 25' Above Floor, Add	8.98		
		For Elevated Installation >25' To 30' Above Floor, Add	12.58		
		For Elevated Installation >30' To 35' Above Floor, Add	14.37		
		For Elevated Installation >35' To 40' Above Floor, Add	17.97		
		For Elevated Installation >40' Above Floor, Add	19.76		
		For Work In Restricted Working Space, Add	10.78		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.78		
26 05 33 13-1410	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	74.61	20.42	
		For Elevated Installation >10' To 15' Above Floor, Add	4.08		
		For Elevated Installation >15' To 20' Above Floor, Add	8.17		
		For Elevated Installation >20' To 25' Above Floor, Add	10.21		
		For Elevated Installation >25' To 30' Above Floor, Add	14.29		
		For Elevated Installation >30' To 35' Above Floor, Add	16.33		
		For Elevated Installation >35' To 40' Above Floor, Add	20.42		
		For Elevated Installation >40' Above Floor, Add	22.46		
		For Work In Restricted Working Space, Add	12.25		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1411	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	84.58	22.87
		For Elevated Installation >10' To 15' Above Floor, Add	4.57	
		For Elevated Installation >15' To 20' Above Floor, Add	9.15	
		For Elevated Installation >20' To 25' Above Floor, Add	11.43	
		For Elevated Installation >25' To 30' Above Floor, Add	16.01	
		For Elevated Installation >30' To 35' Above Floor, Add	18.29	
		For Elevated Installation >35' To 40' Above Floor, Add	22.87	
		For Elevated Installation >40' Above Floor, Add	25.15	
		For Work In Restricted Working Space, Add	13.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.72	
26 05 33 13-1412	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	130.29	27.77
		For Elevated Installation >10' To 15' Above Floor, Add	5.55	
		For Elevated Installation >15' To 20' Above Floor, Add	11.11	
		For Elevated Installation >20' To 25' Above Floor, Add	13.88	
		For Elevated Installation >25' To 30' Above Floor, Add	19.44	
		For Elevated Installation >30' To 35' Above Floor, Add	22.21	
		For Elevated Installation >35' To 40' Above Floor, Add	27.77	
		For Elevated Installation >40' Above Floor, Add	30.54	
		For Work In Restricted Working Space, Add	16.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.66	
26 05 33 13-1413	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	164.82	38.39
		For Elevated Installation >10' To 15' Above Floor, Add	7.68	
		For Elevated Installation >15' To 20' Above Floor, Add	15.35	
		For Elevated Installation >20' To 25' Above Floor, Add	19.19	
		For Elevated Installation >25' To 30' Above Floor, Add	26.87	
		For Elevated Installation >30' To 35' Above Floor, Add	30.71	
		For Elevated Installation >35' To 40' Above Floor, Add	38.39	
		For Elevated Installation >40' Above Floor, Add	42.22	
		For Work In Restricted Working Space, Add	23.03	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.03	
26 05 33 13-1414	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	184.41	43.29
		For Elevated Installation >10' To 15' Above Floor, Add	8.66	
		For Elevated Installation >15' To 20' Above Floor, Add	17.31	
		For Elevated Installation >20' To 25' Above Floor, Add	21.64	
		For Elevated Installation >25' To 30' Above Floor, Add	30.30	
		For Elevated Installation >30' To 35' Above Floor, Add	34.63	
		For Elevated Installation >35' To 40' Above Floor, Add	43.29	
		For Elevated Installation >40' Above Floor, Add	47.61	
		For Work In Restricted Working Space, Add	25.97	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.97	
26 05 33 13-1415	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	226.04	56.36
		For Elevated Installation >10' To 15' Above Floor, Add	11.27	
		For Elevated Installation >15' To 20' Above Floor, Add	22.54	
		For Elevated Installation >20' To 25' Above Floor, Add	28.18	
		For Elevated Installation >25' To 30' Above Floor, Add	39.45	
		For Elevated Installation >30' To 35' Above Floor, Add	45.08	
		For Elevated Installation >35' To 40' Above Floor, Add	56.35	
		For Elevated Installation >40' Above Floor, Add	61.99	
		For Work In Restricted Working Space, Add	33.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.81	
26 05 33 13-1416	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	330.49	77.59
		For Elevated Installation >10' To 15' Above Floor, Add	15.52	
		For Elevated Installation >15' To 20' Above Floor, Add	31.04	
		For Elevated Installation >20' To 25' Above Floor, Add	38.80	
		For Elevated Installation >25' To 30' Above Floor, Add	54.31	
		For Elevated Installation >30' To 35' Above Floor, Add	62.07	
		For Elevated Installation >35' To 40' Above Floor, Add	77.59	
		For Elevated Installation >40' Above Floor, Add	85.35	
		For Work In Restricted Working Space, Add	46.55	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.55	
26 05 33 13-1417	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	46.65	10.61
		For Elevated Installation >10' To 15' Above Floor, Add	2.12	
		For Elevated Installation >15' To 20' Above Floor, Add	4.25	
		For Elevated Installation >20' To 25' Above Floor, Add	5.31	
		For Elevated Installation >25' To 30' Above Floor, Add	7.43	
		For Elevated Installation >30' To 35' Above Floor, Add	8.50	
		For Elevated Installation >35' To 40' Above Floor, Add	10.62	
		For Elevated Installation >40' Above Floor, Add	11.68	
		For Work In Restricted Working Space, Add	6.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37	
26 05 33 13-1418	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	50.57	12.25
		For Elevated Installation >10' To 15' Above Floor, Add	2.45	
		For Elevated Installation >15' To 20' Above Floor, Add	4.90	
		For Elevated Installation >20' To 25' Above Floor, Add	6.13	
		For Elevated Installation >25' To 30' Above Floor, Add	8.58	
		For Elevated Installation >30' To 35' Above Floor, Add	9.80	
		For Elevated Installation >35' To 40' Above Floor, Add	12.25	
		For Elevated Installation >40' Above Floor, Add	13.48	
		For Work In Restricted Working Space, Add	7.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1419	EA	1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	59.13	15.51
		For Elevated Installation >10' To 15' Above Floor, Add		3.10	
		For Elevated Installation >15' To 20' Above Floor, Add		6.21	
		For Elevated Installation >20' To 25' Above Floor, Add		7.76	
		For Elevated Installation >25' To 30' Above Floor, Add		10.86	
		For Elevated Installation >30' To 35' Above Floor, Add		12.41	
		For Elevated Installation >35' To 40' Above Floor, Add		15.52	
		For Elevated Installation >40' Above Floor, Add		17.07	
		For Work In Restricted Working Space, Add		9.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.31	
26 05 33 13-1420	EA	1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	68.45	17.97
		For Elevated Installation >10' To 15' Above Floor, Add		3.59	
		For Elevated Installation >15' To 20' Above Floor, Add		7.19	
		For Elevated Installation >20' To 25' Above Floor, Add		8.98	
		For Elevated Installation >25' To 30' Above Floor, Add		12.58	
		For Elevated Installation >30' To 35' Above Floor, Add		14.37	
		For Elevated Installation >35' To 40' Above Floor, Add		17.97	
		For Elevated Installation >40' Above Floor, Add		19.76	
		For Work In Restricted Working Space, Add		10.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.78	
26 05 33 13-1421	EA	1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	77.67	20.42
		For Elevated Installation >10' To 15' Above Floor, Add		4.08	
		For Elevated Installation >15' To 20' Above Floor, Add		8.17	
		For Elevated Installation >20' To 25' Above Floor, Add		10.21	
		For Elevated Installation >25' To 30' Above Floor, Add		14.29	
		For Elevated Installation >30' To 35' Above Floor, Add		16.33	
		For Elevated Installation >35' To 40' Above Floor, Add		20.42	
		For Elevated Installation >40' Above Floor, Add		22.46	
		For Work In Restricted Working Space, Add		12.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.25	
26 05 33 13-1422	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	92.06	22.87
		For Elevated Installation >10' To 15' Above Floor, Add		4.57	
		For Elevated Installation >15' To 20' Above Floor, Add		9.15	
		For Elevated Installation >20' To 25' Above Floor, Add		11.43	
		For Elevated Installation >25' To 30' Above Floor, Add		16.01	
		For Elevated Installation >30' To 35' Above Floor, Add		18.29	
		For Elevated Installation >35' To 40' Above Floor, Add		22.87	
		For Elevated Installation >40' Above Floor, Add		25.15	
		For Work In Restricted Working Space, Add		13.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.72	
26 05 33 13-1423	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	142.65	27.77
		For Elevated Installation >10' To 15' Above Floor, Add		5.55	
		For Elevated Installation >15' To 20' Above Floor, Add		11.11	
		For Elevated Installation >20' To 25' Above Floor, Add		13.88	
		For Elevated Installation >25' To 30' Above Floor, Add		19.44	
		For Elevated Installation >30' To 35' Above Floor, Add		22.21	
		For Elevated Installation >35' To 40' Above Floor, Add		27.77	
		For Elevated Installation >40' Above Floor, Add		30.54	
		For Work In Restricted Working Space, Add		16.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		16.66	
26 05 33 13-1424	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	179.38	38.39
		For Elevated Installation >10' To 15' Above Floor, Add		7.68	
		For Elevated Installation >15' To 20' Above Floor, Add		15.35	
		For Elevated Installation >20' To 25' Above Floor, Add		19.19	
		For Elevated Installation >25' To 30' Above Floor, Add		26.87	
		For Elevated Installation >30' To 35' Above Floor, Add		30.71	
		For Elevated Installation >35' To 40' Above Floor, Add		38.39	
		For Elevated Installation >40' Above Floor, Add		42.22	
		For Work In Restricted Working Space, Add		23.03	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		23.03	
26 05 33 13-1425	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	208.42	43.29
		For Elevated Installation >10' To 15' Above Floor, Add		8.66	
		For Elevated Installation >15' To 20' Above Floor, Add		17.31	
		For Elevated Installation >20' To 25' Above Floor, Add		21.64	
		For Elevated Installation >25' To 30' Above Floor, Add		30.30	
		For Elevated Installation >30' To 35' Above Floor, Add		34.63	
		For Elevated Installation >35' To 40' Above Floor, Add		43.29	
		For Elevated Installation >40' Above Floor, Add		47.61	
		For Work In Restricted Working Space, Add		25.97	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		25.97	
26 05 33 13-1426	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	250.32	56.36
		For Elevated Installation >10' To 15' Above Floor, Add		11.27	
		For Elevated Installation >15' To 20' Above Floor, Add		22.54	
		For Elevated Installation >20' To 25' Above Floor, Add		28.18	
		For Elevated Installation >25' To 30' Above Floor, Add		39.45	
		For Elevated Installation >30' To 35' Above Floor, Add		45.08	
		For Elevated Installation >35' To 40' Above Floor, Add		56.35	
		For Elevated Installation >40' Above Floor, Add		61.99	
		For Work In Restricted Working Space, Add		33.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		33.81	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1427	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	347.07	77.59
		For Elevated Installation >10' To 15' Above Floor, Add	15.52	
		For Elevated Installation >15' To 20' Above Floor, Add	31.04	
		For Elevated Installation >20' To 25' Above Floor, Add	38.80	
		For Elevated Installation >25' To 30' Above Floor, Add	54.31	
		For Elevated Installation >30' To 35' Above Floor, Add	62.07	
		For Elevated Installation >35' To 40' Above Floor, Add	77.59	
		For Elevated Installation >40' Above Floor, Add	85.35	
		For Work In Restricted Working Space, Add	46.55	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.55	
26 05 33 13-1428	EA	1 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.68	10.61
		For Elevated Installation >10' To 15' Above Floor, Add	2.12	
		For Elevated Installation >15' To 20' Above Floor, Add	4.25	
		For Elevated Installation >20' To 25' Above Floor, Add	5.31	
		For Elevated Installation >25' To 30' Above Floor, Add	7.43	
		For Elevated Installation >30' To 35' Above Floor, Add	8.50	
		For Elevated Installation >35' To 40' Above Floor, Add	10.62	
		For Elevated Installation >40' Above Floor, Add	11.68	
		For Work In Restricted Working Space, Add	6.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.37	
26 05 33 13-1429	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	51.57	12.25
		For Elevated Installation >10' To 15' Above Floor, Add	2.45	
		For Elevated Installation >15' To 20' Above Floor, Add	4.90	
		For Elevated Installation >20' To 25' Above Floor, Add	6.13	
		For Elevated Installation >25' To 30' Above Floor, Add	8.58	
		For Elevated Installation >30' To 35' Above Floor, Add	9.80	
		For Elevated Installation >35' To 40' Above Floor, Add	12.25	
		For Elevated Installation >40' Above Floor, Add	13.48	
		For Work In Restricted Working Space, Add	7.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	
26 05 33 13-1430	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	60.61	15.51
		For Elevated Installation >10' To 15' Above Floor, Add	3.10	
		For Elevated Installation >15' To 20' Above Floor, Add	6.21	
		For Elevated Installation >20' To 25' Above Floor, Add	7.76	
		For Elevated Installation >25' To 30' Above Floor, Add	10.86	
		For Elevated Installation >30' To 35' Above Floor, Add	12.41	
		For Elevated Installation >35' To 40' Above Floor, Add	15.52	
		For Elevated Installation >40' Above Floor, Add	17.07	
		For Work In Restricted Working Space, Add	9.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.31	
26 05 33 13-1431	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	72.97	17.97
		For Elevated Installation >10' To 15' Above Floor, Add	3.59	
		For Elevated Installation >15' To 20' Above Floor, Add	7.19	
		For Elevated Installation >20' To 25' Above Floor, Add	8.98	
		For Elevated Installation >25' To 30' Above Floor, Add	12.58	
		For Elevated Installation >30' To 35' Above Floor, Add	14.37	
		For Elevated Installation >35' To 40' Above Floor, Add	17.97	
		For Elevated Installation >40' Above Floor, Add	19.76	
		For Work In Restricted Working Space, Add	10.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.78	
26 05 33 13-1432	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	84.95	20.42
		For Elevated Installation >10' To 15' Above Floor, Add	4.08	
		For Elevated Installation >15' To 20' Above Floor, Add	8.17	
		For Elevated Installation >20' To 25' Above Floor, Add	10.21	
		For Elevated Installation >25' To 30' Above Floor, Add	14.29	
		For Elevated Installation >30' To 35' Above Floor, Add	16.33	
		For Elevated Installation >35' To 40' Above Floor, Add	20.42	
		For Elevated Installation >40' Above Floor, Add	22.46	
		For Work In Restricted Working Space, Add	12.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 33 13-1433	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	103.06	22.87
		For Elevated Installation >10' To 15' Above Floor, Add	4.57	
		For Elevated Installation >15' To 20' Above Floor, Add	9.15	
		For Elevated Installation >20' To 25' Above Floor, Add	11.43	
		For Elevated Installation >25' To 30' Above Floor, Add	16.01	
		For Elevated Installation >30' To 35' Above Floor, Add	18.29	
		For Elevated Installation >35' To 40' Above Floor, Add	22.87	
		For Elevated Installation >40' Above Floor, Add	25.15	
		For Work In Restricted Working Space, Add	13.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.72	
26 05 33 13-1434	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	155.71	27.77
		For Elevated Installation >10' To 15' Above Floor, Add	5.55	
		For Elevated Installation >15' To 20' Above Floor, Add	11.11	
		For Elevated Installation >20' To 25' Above Floor, Add	13.88	
		For Elevated Installation >25' To 30' Above Floor, Add	19.44	
		For Elevated Installation >30' To 35' Above Floor, Add	22.21	
		For Elevated Installation >35' To 40' Above Floor, Add	27.77	
		For Elevated Installation >40' Above Floor, Add	30.54	
		For Work In Restricted Working Space, Add	16.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.66	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1435	EA	3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	198.04	38.39
		For Elevated Installation >10' To 15' Above Floor, Add		7.68	
		For Elevated Installation >15' To 20' Above Floor, Add		15.35	
		For Elevated Installation >20' To 25' Above Floor, Add		19.19	
		For Elevated Installation >25' To 30' Above Floor, Add		26.87	
		For Elevated Installation >30' To 35' Above Floor, Add		30.71	
		For Elevated Installation >35' To 40' Above Floor, Add		38.39	
		For Elevated Installation >40' Above Floor, Add		42.22	
		For Work In Restricted Working Space, Add		23.03	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		23.03	
26 05 33 13-1436	EA	3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	233.63	43.29
		For Elevated Installation >10' To 15' Above Floor, Add		8.66	
		For Elevated Installation >15' To 20' Above Floor, Add		17.31	
		For Elevated Installation >20' To 25' Above Floor, Add		21.64	
		For Elevated Installation >25' To 30' Above Floor, Add		30.30	
		For Elevated Installation >30' To 35' Above Floor, Add		34.63	
		For Elevated Installation >35' To 40' Above Floor, Add		43.29	
		For Elevated Installation >40' Above Floor, Add		47.61	
		For Work In Restricted Working Space, Add		25.97	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		25.97	
26 05 33 13-1437	EA	4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	292.81	56.36
		For Elevated Installation >10' To 15' Above Floor, Add		11.27	
		For Elevated Installation >15' To 20' Above Floor, Add		22.54	
		For Elevated Installation >20' To 25' Above Floor, Add		28.18	
		For Elevated Installation >25' To 30' Above Floor, Add		39.45	
		For Elevated Installation >30' To 35' Above Floor, Add		45.08	
		For Elevated Installation >35' To 40' Above Floor, Add		56.35	
		For Elevated Installation >40' Above Floor, Add		61.99	
		For Work In Restricted Working Space, Add		33.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		33.81	
26 05 33 13-1438	EA	5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	380.14	77.59
		For Elevated Installation >10' To 15' Above Floor, Add		15.52	
		For Elevated Installation >15' To 20' Above Floor, Add		31.04	
		For Elevated Installation >20' To 25' Above Floor, Add		38.80	
		For Elevated Installation >25' To 30' Above Floor, Add		54.31	
		For Elevated Installation >30' To 35' Above Floor, Add		62.07	
		For Elevated Installation >35' To 40' Above Floor, Add		77.59	
		For Elevated Installation >40' Above Floor, Add		85.35	
		For Work In Restricted Working Space, Add		46.55	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		46.55	
26 05 33 13-1439	EA	1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	48.74	10.61
		For Elevated Installation >10' To 15' Above Floor, Add		2.12	
		For Elevated Installation >15' To 20' Above Floor, Add		4.25	
		For Elevated Installation >20' To 25' Above Floor, Add		5.31	
		For Elevated Installation >25' To 30' Above Floor, Add		7.43	
		For Elevated Installation >30' To 35' Above Floor, Add		8.50	
		For Elevated Installation >35' To 40' Above Floor, Add		10.62	
		For Elevated Installation >40' Above Floor, Add		11.68	
		For Work In Restricted Working Space, Add		6.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.37	
26 05 33 13-1440	EA	3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	52.75	12.25
		For Elevated Installation >10' To 15' Above Floor, Add		2.45	
		For Elevated Installation >15' To 20' Above Floor, Add		4.90	
		For Elevated Installation >20' To 25' Above Floor, Add		6.13	
		For Elevated Installation >25' To 30' Above Floor, Add		8.58	
		For Elevated Installation >30' To 35' Above Floor, Add		9.80	
		For Elevated Installation >35' To 40' Above Floor, Add		12.25	
		For Elevated Installation >40' Above Floor, Add		13.48	
		For Work In Restricted Working Space, Add		7.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.35	
26 05 33 13-1441	EA	1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	64.38	15.51
		For Elevated Installation >10' To 15' Above Floor, Add		3.10	
		For Elevated Installation >15' To 20' Above Floor, Add		6.21	
		For Elevated Installation >20' To 25' Above Floor, Add		7.76	
		For Elevated Installation >25' To 30' Above Floor, Add		10.86	
		For Elevated Installation >30' To 35' Above Floor, Add		12.41	
		For Elevated Installation >35' To 40' Above Floor, Add		15.52	
		For Elevated Installation >40' Above Floor, Add		17.07	
		For Work In Restricted Working Space, Add		9.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.31	
26 05 33 13-1442	EA	1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	80.41	17.97
		For Elevated Installation >10' To 15' Above Floor, Add		3.59	
		For Elevated Installation >15' To 20' Above Floor, Add		7.19	
		For Elevated Installation >20' To 25' Above Floor, Add		8.98	
		For Elevated Installation >25' To 30' Above Floor, Add		12.58	
		For Elevated Installation >30' To 35' Above Floor, Add		14.37	
		For Elevated Installation >35' To 40' Above Floor, Add		17.97	
		For Elevated Installation >40' Above Floor, Add		19.76	
		For Work In Restricted Working Space, Add		10.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.78	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1443	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	93.77	20.42
		For Elevated Installation >10' To 15' Above Floor, Add	4.08	
		For Elevated Installation >15' To 20' Above Floor, Add	8.17	
		For Elevated Installation >20' To 25' Above Floor, Add	10.21	
		For Elevated Installation >25' To 30' Above Floor, Add	14.29	
		For Elevated Installation >30' To 35' Above Floor, Add	16.33	
		For Elevated Installation >35' To 40' Above Floor, Add	20.42	
		For Elevated Installation >40' Above Floor, Add	22.46	
		For Work In Restricted Working Space, Add	12.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.25	
26 05 33 13-1444	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	111.90	22.87
		For Elevated Installation >10' To 15' Above Floor, Add	4.57	
		For Elevated Installation >15' To 20' Above Floor, Add	9.15	
		For Elevated Installation >20' To 25' Above Floor, Add	11.43	
		For Elevated Installation >25' To 30' Above Floor, Add	16.01	
		For Elevated Installation >30' To 35' Above Floor, Add	18.29	
		For Elevated Installation >35' To 40' Above Floor, Add	22.87	
		For Elevated Installation >40' Above Floor, Add	25.15	
		For Work In Restricted Working Space, Add	13.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.72	
26 05 33 13-1445	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	173.13	27.77
		For Elevated Installation >10' To 15' Above Floor, Add	5.55	
		For Elevated Installation >15' To 20' Above Floor, Add	11.11	
		For Elevated Installation >20' To 25' Above Floor, Add	13.88	
		For Elevated Installation >25' To 30' Above Floor, Add	19.44	
		For Elevated Installation >30' To 35' Above Floor, Add	22.21	
		For Elevated Installation >35' To 40' Above Floor, Add	27.77	
		For Elevated Installation >40' Above Floor, Add	30.54	
		For Work In Restricted Working Space, Add	16.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.66	
26 05 33 13-1446	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	226.02	38.39
		For Elevated Installation >10' To 15' Above Floor, Add	7.68	
		For Elevated Installation >15' To 20' Above Floor, Add	15.35	
		For Elevated Installation >20' To 25' Above Floor, Add	19.19	
		For Elevated Installation >25' To 30' Above Floor, Add	26.87	
		For Elevated Installation >30' To 35' Above Floor, Add	30.71	
		For Elevated Installation >35' To 40' Above Floor, Add	38.39	
		For Elevated Installation >40' Above Floor, Add	42.22	
		For Work In Restricted Working Space, Add	23.03	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.03	
26 05 33 13-1447	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	249.10	43.29
		For Elevated Installation >10' To 15' Above Floor, Add	8.66	
		For Elevated Installation >15' To 20' Above Floor, Add	17.31	
		For Elevated Installation >20' To 25' Above Floor, Add	21.64	
		For Elevated Installation >25' To 30' Above Floor, Add	30.30	
		For Elevated Installation >30' To 35' Above Floor, Add	34.63	
		For Elevated Installation >35' To 40' Above Floor, Add	43.29	
		For Elevated Installation >40' Above Floor, Add	47.61	
		For Work In Restricted Working Space, Add	25.97	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.97	
26 05 33 13-1448	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	305.84	56.36
		For Elevated Installation >10' To 15' Above Floor, Add	11.27	
		For Elevated Installation >15' To 20' Above Floor, Add	22.54	
		For Elevated Installation >20' To 25' Above Floor, Add	28.18	
		For Elevated Installation >25' To 30' Above Floor, Add	39.45	
		For Elevated Installation >30' To 35' Above Floor, Add	45.08	
		For Elevated Installation >35' To 40' Above Floor, Add	56.35	
		For Elevated Installation >40' Above Floor, Add	61.99	
		For Work In Restricted Working Space, Add	33.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.81	
26 05 33 13-1449	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	384.86	77.59
		For Elevated Installation >10' To 15' Above Floor, Add	15.52	
		For Elevated Installation >15' To 20' Above Floor, Add	31.04	
		For Elevated Installation >20' To 25' Above Floor, Add	38.80	
		For Elevated Installation >25' To 30' Above Floor, Add	54.31	
		For Elevated Installation >30' To 35' Above Floor, Add	62.07	
		For Elevated Installation >35' To 40' Above Floor, Add	77.59	
		For Elevated Installation >40' Above Floor, Add	85.35	
		For Work In Restricted Working Space, Add	46.55	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.55	
26 05 33 13-1450		Aluminum Rigid Conduit (ARC) (26 05 33 13-0059)		
		Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1451		Aluminum Rigid Conduit (ARC) With Threaded Coupling (26 05 33 13-1450)		
		Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2319 for field bending >1".		
26 05 33 13-1452	LF	1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	7.35	2.52
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.94	
		For Work In Restricted Working Space, Add	1.88	
26 05 33 13-1453	LF	3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	8.35	2.77
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.04	
		For Work In Restricted Working Space, Add	2.08	
26 05 33 13-1454	LF	1" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	9.58	3.02
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.13	
		For Work In Restricted Working Space, Add	2.26	



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		Common Work Results for Electrical	26 05
		Raceway and Boxes for Electrical Systems	26 05 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1455 LF 1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	10.84 1.23 2.45	3.27
26 05 33 13-1456 LF 1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	12.11 1.32 2.64	3.52
26 05 33 13-1457 LF 2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	14.48 1.51 3.02	4.02
26 05 33 13-1458 LF 2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	19.56 1.89 3.77	5.02
26 05 33 13-1459 LF 3" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	24.26 2.26 4.52	6.03
26 05 33 13-1460 LF 3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	29.88 2.83 5.66	7.54
26 05 33 13-1461 LF 4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	36.94 3.58 7.16	9.55
26 05 33 13-1462 LF 5" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	48.86 4.52 9.05	12.07
26 05 33 13-1463 LF 6" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	62.30 5.65 11.31	15.07
26 05 33 13-1464 Aluminum 90 Degree Elbows (26 05 33 13-1450)		
26 05 33 13-1465 EA 1" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	44.06 9.80	13.07
26 05 33 13-1466 EA 1-1/4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	55.17 11.12	14.82
26 05 33 13-1467 EA 1-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	66.81 12.82	17.09
26 05 33 13-1468 EA 2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	84.46 14.70	19.60
26 05 33 13-1469 EA 2-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	119.43 17.90	23.87
26 05 33 13-1470 EA 3" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	169.56 23.18	30.91
26 05 33 13-1471 EA 3-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	230.64 26.01	34.68
26 05 33 13-1472 EA 4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	279.36 32.61	43.48
26 05 33 13-1473 EA 5" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	681.82 53.15	70.87
26 05 33 13-1474 EA 6" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	964.60 79.92	106.56
26 05 33 13-1475 Aluminum Bushing Set With Locknut (26 05 33 13-1450)		
26 05 33 13-1476 EA 1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.44 3.77 3.77	5.02
26 05 33 13-1477 EA 3/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.83 4.90 4.90	6.53
26 05 33 13-1478 EA 1" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.66 6.03 6.03	8.04
26 05 33 13-1479 EA 1-1/4" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.24 6.79 6.79	9.05
26 05 33 13-1480 EA 1-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.44 8.29 8.29	11.05
26 05 33 13-1481 EA 2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.61 9.99 9.99	13.32
26 05 33 13-1482 EA 2-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.28 11.87 11.87	15.84
26 05 33 13-1483 EA 3" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.23 13.57 13.57	18.09
26 05 33 13-1484 EA 3-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.26 14.70 14.70	19.60
26 05 33 13-1485 EA 4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.89 15.83 15.83	21.11

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1486	EA	5" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76.76 21.11 21.11	28.14
26 05 33 13-1487	EA	6" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.33 31.67 31.67	42.22
26 05 33 13-1488		Schedule 40 Polyvinyl Chloride (PVC) Conduit (26 05 33 13-0059) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1489		Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings (26 05 33 13-1488) Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2329 for field bending >1".		
26 05 33 13-1490	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	5.92 0.51 0.85	1.94
26 05 33 13-1491	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	6.74 0.62 1.02	2.13
26 05 33 13-1492	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	8.33 0.84 1.36	2.49
26 05 33 13-1493	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	9.91 1.05 1.69	2.84
26 05 33 13-1494	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	11.65 1.25 2.00	3.32
26 05 33 13-1495	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	13.90 1.58 2.49	3.80
26 05 33 13-1496	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	18.31 2.32 3.59	4.51
26 05 33 13-1497	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	21.44 2.75 4.24	5.22
26 05 33 13-1498	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	26.15 3.45 5.30	6.17
26 05 33 13-1499	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	30.77 3.90 6.02	7.59
26 05 33 13-1500	LF	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	43.87 5.63 8.68	10.68
26 05 33 13-1501	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	58.28 7.45 11.50	14.24
26 05 33 13-1502		Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows (26 05 33 13-1488) See CSI section 26 05 33 13-2329 for conduit field bending.		
26 05 33 13-1503	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	24.98 1.50 2.81	9.49
26 05 33 13-1504	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	27.62 1.69 3.14	10.44
26 05 33 13-1505	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	32.02 2.08 3.79	11.87
26 05 33 13-1506	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	41.38 2.75 4.99	15.18
26 05 33 13-1507	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	52.08 3.53 6.37	18.98
26 05 33 13-1508	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	65.77 4.58 8.19	23.73
26 05 33 13-1509	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	82.45 6.37 11.06	28.47



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1510	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	101.31 8.72 14.70	33.22
26 05 33 13-1511	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	126.17 11.37 18.95	40.34
26 05 33 13-1512	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	151.21 14.07 23.26	47.45
26 05 33 13-1513	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	205.98 21.84 35.02	59.32
26 05 33 13-1514	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	251.48 27.28 43.53	71.19
26 05 33 13-1515 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows (26 05 33 13-1488)				
See CSI section 26 05 33 13-2329 for conduit field bending.				
26 05 33 13-1516	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	24.98 1.50 2.81	9.49
26 05 33 13-1517	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	27.53 1.66 3.11	10.44
26 05 33 13-1518	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	31.89 2.04 3.75	11.87
26 05 33 13-1519	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	41.02 2.66 4.86	15.18
26 05 33 13-1520	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	51.28 3.33 6.09	18.98
26 05 33 13-1521	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	65.34 4.47 8.04	23.73
26 05 33 13-1522	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	81.65 6.17 10.78	28.47
26 05 33 13-1523	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	100.30 8.47 14.34	33.22
26 05 33 13-1524	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	123.33 10.66 17.96	40.34
26 05 33 13-1525	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	148.77 13.46 22.41	47.45
26 05 33 13-1526	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	202.82 21.05 33.91	59.32
26 05 33 13-1527	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	242.06 24.92 40.23	71.19
26 05 33 13-1528 Schedule 40 Polyvinyl Chloride (PVC) Conduit 18" Large Radius Elbow (26 05 33 13-1498)				
26 05 33 13-1529	EA	1" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	101.62 20.05	31.04
26 05 33 13-1530	EA	1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	119.18 23.75	35.94
26 05 33 13-1531	EA	1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	134.90 26.80	40.84
26 05 33 13-1532	EA	2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	161.15 33.94	44.92
26 05 33 13-1533	EA	2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	212.53 46.21	56.36

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1534	EA	3" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	276.89 58.52	76.77
26 05 33 13-1535	EA	3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	334.84 73.90	86.57
26 05 33 13-1536	EA	4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	398.82 83.23	112.71
26 05 33 13-1537 Schedule 40 Polyvinyl Chloride (PVC) Conduit 24" Large Radius Elbow (26 05 33 13-1488)				
26 05 33 13-1538	EA	1" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	108.88 22.59	31.04
26 05 33 13-1539	EA	1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	136.66 29.86	35.94
26 05 33 13-1540	EA	1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	159.91 35.55	40.84
26 05 33 13-1541	EA	2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	173.54 38.28	44.92
26 05 33 13-1542	EA	2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	250.70 59.57	56.36
26 05 33 13-1543	EA	3" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	332.39 77.95	76.77
26 05 33 13-1544	EA	3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	369.01 85.86	86.57
26 05 33 13-1545	EA	4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	440.18 97.71	112.71
26 05 33 13-1546 Schedule 40 Polyvinyl Chloride (PVC) Conduit 30" Large Radius Elbow (26 05 33 13-1488)				
26 05 33 13-1547	EA	1" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	128.47 29.44	31.04
26 05 33 13-1548	EA	1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	144.86 32.73	35.94
26 05 33 13-1549	EA	1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	164.73 37.24	40.84
26 05 33 13-1550	EA	2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	196.89 46.45	44.92
26 05 33 13-1551	EA	2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	264.92 64.54	56.36
26 05 33 13-1552	EA	3" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	344.33 82.13	76.77
26 05 33 13-1553	EA	3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	414.50 101.79	86.57
26 05 33 13-1554	EA	4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	481.04 112.01	112.71
26 05 33 13-1555 Schedule 40 Polyvinyl Chloride (PVC) Conduit 36" Large Radius Elbow (26 05 33 13-1488)				
26 05 33 13-1556	EA	1" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	132.46 30.84	31.04
26 05 33 13-1557	EA	1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	169.13 41.23	35.94
26 05 33 13-1558	EA	1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	183.98 43.98	40.84
26 05 33 13-1559	EA	2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	197.76 46.76	44.92
26 05 33 13-1560	EA	2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	296.23 75.50	56.36
26 05 33 13-1561	EA	3" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	414.50 106.69	76.77
26 05 33 13-1562	EA	3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	478.41 124.15	86.57
26 05 33 13-1563	EA	4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	556.72 138.50	112.71
26 05 33 13-1564	EA	5" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	890.12 219.66	183.46
26 05 33 13-1565	EA	6" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	1,301.72 317.57	276.44
26 05 33 13-1566 Schedule 40 Polyvinyl Chloride (PVC) Conduit 48" Large Radius Elbow (26 05 33 13-1488)				
26 05 33 13-1567	EA	1" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	147.83 36.22	31.04
26 05 33 13-1568	EA	1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	173.24 42.67	35.94
26 05 33 13-1569	EA	1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	196.34 48.30	40.84
26 05 33 13-1570	EA	2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	240.43 61.69	44.92
26 05 33 13-1571	EA	2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	326.79 86.20	56.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1572 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	464.70 124.26	76.77
26 05 33 13-1573 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	526.40 140.95	86.57
26 05 33 13-1574 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	640.02 167.65	112.71
26 05 33 13-1575 EA 5" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	938.86 236.72	183.46
26 05 33 13-1576 EA 6" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	1,341.18 331.38	276.44
26 05 33 13-1577 Polyvinyl Chloride (PVC) Conduit Female Adapters (26 05 33 13-1488)		
26 05 33 13-1578 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.19 4.98	6.64
26 05 33 13-1579 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.77 5.69	7.59
26 05 33 13-1580 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.44 6.41	8.54
26 05 33 13-1581 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.23 7.12	9.49
26 05 33 13-1582 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.30 8.90	11.87
26 05 33 13-1583 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.96 10.68	14.24
26 05 33 13-1584 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.73 14.24	18.98
26 05 33 13-1585 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.12 17.80	23.73
26 05 33 13-1586 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.46 23.14	30.85
26 05 33 13-1587 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.62 28.47	37.97
26 05 33 13-1588 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.29 35.59	47.45
26 05 33 13-1589 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	167.20 44.49	59.32
26 05 33 13-1590 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1488)		
26 05 33 13-1591 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.87 4.27	5.70
26 05 33 13-1592 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.59 4.98	6.64
26 05 33 13-1593 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.33 5.69	7.59
26 05 33 13-1594 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.70 6.41	8.54
26 05 33 13-1595 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.00 7.12	9.49
26 05 33 13-1596 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.23 8.19	10.92
26 05 33 13-1597 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.85 9.26	12.34
26 05 33 13-1598 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.66 10.68	14.24
26 05 33 13-1599 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.50 12.46	16.61
26 05 33 13-1600 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.84 14.24	18.98
26 05 33 13-1601 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.73 16.02	21.35
26 05 33 13-1602 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.64 17.80	23.73
26 05 33 13-1603 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1488)		
26 05 33 13-1604 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.73 5.48	
26 05 33 13-1605 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.66 6.56	
26 05 33 13-1606 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.25 7.29	
26 05 33 13-1607 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.34 8.12	
26 05 33 13-1608 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.10 8.90	11.87
26 05 33 13-1609 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.69 10.68	14.24
26 05 33 13-1610 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.19 14.24	18.98
26 05 33 13-1611 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.36 17.80	23.73

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1612 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	83.50	30.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.14	
26 05 33 13-1613 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	101.64	37.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.47	
26 05 33 13-1614 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	132.35	47.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.59	
26 05 33 13-1615 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	164.87	59.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.49	
26 05 33 13-1616 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover		
(26 05 33 13-1488)		
26 05 33 13-1617 EA 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	52.74	18.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.24	
26 05 33 13-1618 EA 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	60.88	21.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.02	
26 05 33 13-1619 EA 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	67.62	23.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.80	
26 05 33 13-1620 EA 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	83.05	28.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.36	
26 05 33 13-1621 EA 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	102.87	35.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.69	
26 05 33 13-1622 EA 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	131.41	42.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.03	
26 05 33 13-1623 EA 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	210.46	47.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.59	
26 05 33 13-1624 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	225.55	52.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.15	
26 05 33 13-1625 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	246.56	59.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.49	
26 05 33 13-1626 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	276.77	68.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.61	
26 05 33 13-1627 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover		
(26 05 33 13-1488)		
26 05 33 13-1628 EA 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	69.87	25.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.85	
26 05 33 13-1629 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	77.96	27.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.73	
26 05 33 13-1630 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	84.46	30.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.62	
26 05 33 13-1631 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	104.30	35.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.39	
26 05 33 13-1632 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	126.14	42.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.04	
26 05 33 13-1633 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	153.96	50.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.70	
26 05 33 13-1634 Polyvinyl Chloride (PVC) Conduit Expansion Joint		
(26 05 33 13-1488)		
26 05 33 13-1635 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	104.27	23.73
26 05 33 13-1636 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	117.29	28.47
26 05 33 13-1637 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	130.98	33.22
26 05 33 13-1638 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	144.01	37.97
26 05 33 13-1639 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	156.78	42.70
26 05 33 13-1640 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	171.77	47.45
26 05 33 13-1641 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	208.22	54.57
26 05 33 13-1642 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	247.34	61.69
26 05 33 13-1643 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	288.93	71.19
26 05 33 13-1644 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	342.81	83.05
26 05 33 13-1645 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	448.08	99.66
26 05 33 13-1646 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	587.48	128.13
26 05 33 13-1647 Polyvinyl Chloride (PVC) Conduit End Caps		
(26 05 33 13-1488)		
26 05 33 13-1648 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	14.24	4.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33 13-1649 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap.....	16.89	5.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-1650 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap.....	19.49	6.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-1651 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap.....	23.11	7.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-1652 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	26.79	8.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-1653 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap.....	31.35	9.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 05 33 13-1654 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	43.33	10.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.19	
26 05 33 13-1655 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap.....	47.67	12.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-1656	EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	59.83		13.76
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.32		
26 05 33 13-1657	EA 4" Polyvinyl Chloride (PVC) Conduit End Cap.....	71.37		14.71
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.03		
26 05 33 13-1658	EA 5" Polyvinyl Chloride (PVC) Conduit End Cap.....	82.97		16.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46		
26 05 33 13-1659	EA 6" Polyvinyl Chloride (PVC) Conduit End Cap.....	103.87		18.98
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.24		
26 05 33 13-1660 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-1488)				
26 05 33 13-1661	EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200).....	146.62		42.70
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.03		
26 05 33 13-1662	EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121).....	151.66		28.47
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.36		
26 05 33 13-1663	EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251).....	365.31		47.45
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.59		
26 05 33 13-1664	EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401).....	708.76		68.81
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.61		
26 05 33 13-1665 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-0059)				
Note: Exposed installation. Excludes supporting strap, hanger and fastening.				
26 05 33 13-1666 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1665)				
Note: Includes field bending conduit up to and including 1".				
26 05 33 13-1667	LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	8.75		1.94
26 05 33 13-1668	LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	9.71		2.13
26 05 33 13-1669	LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	10.85		2.46
26 05 33 13-1670	LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	11.99		2.84
26 05 33 13-1671	LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	13.57		3.32
26 05 33 13-1672	LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	14.90		3.80
26 05 33 13-1673	LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	17.75		4.51
26 05 33 13-1674	LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	20.83		5.22
26 05 33 13-1675	LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	24.17		6.17
26 05 33 13-1676	LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	28.70		7.59
26 05 33 13-1677	LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	38.84		10.68
26 05 33 13-1678	LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	50.78		14.24
26 05 33 13-1679 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1665)				
26 05 33 13-1680	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	95.50		9.49
	For 24" Radius, Add	6.57		
	For 36" Radius, Add	9.55		
	For 48" Radius, Add	12.53		
26 05 33 13-1681	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	106.45		10.44
	For 24" Radius, Add	7.33		
	For 36" Radius, Add	10.65		
	For 48" Radius, Add	13.96		
26 05 33 13-1682	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	110.81		11.87
	For 24" Radius, Add	7.57		
	For 36" Radius, Add	11.08		
	For 48" Radius, Add	14.59		
26 05 33 13-1683	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	119.92		15.18
	For 24" Radius, Add	8.04		
	For 36" Radius, Add	11.99		
	For 48" Radius, Add	15.94		
26 05 33 13-1684	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	130.22		18.98
	For 24" Radius, Add	8.58		
	For 36" Radius, Add	13.02		
	For 48" Radius, Add	17.46		
26 05 33 13-1685	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	153.50		23.73
	For 24" Radius, Add	10.03		
	For 36" Radius, Add	15.35		
	For 48" Radius, Add	20.67		
26 05 33 13-1686	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	183.92		28.47
	For 24" Radius, Add	12.01		
	For 36" Radius, Add	18.39		
	For 48" Radius, Add	24.77		
26 05 33 13-1687	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	218.32		33.22
	For 24" Radius, Add	14.30		
	For 36" Radius, Add	21.83		
	For 48" Radius, Add	29.37		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1688	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	253.02	40.34
			For 24" Radius, Add	16.46	
			For 36" Radius, Add	25.30	
			For 48" Radius, Add	34.15	
26 05 33 13-1689	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	287.73	47.45
			For 24" Radius, Add	18.61	
			For 36" Radius, Add	28.77	
			For 48" Radius, Add	38.93	
26 05 33 13-1690	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	359.66	59.32
			For 24" Radius, Add	23.27	
			For 36" Radius, Add	35.97	
			For 48" Radius, Add	48.66	
26 05 33 13-1691	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	442.17	71.19
			For 24" Radius, Add	28.71	
			For 36" Radius, Add	44.22	
			For 48" Radius, Add	59.72	
26 05 33 13-1692 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1665)					
26 05 33 13-1693	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	82.58	9.49
			For 24" Radius, Add	5.60	
			For 36" Radius, Add	8.26	
			For 48" Radius, Add	10.92	
26 05 33 13-1694	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	91.98	10.44
			For 24" Radius, Add	6.25	
			For 36" Radius, Add	9.20	
			For 48" Radius, Add	12.15	
26 05 33 13-1695	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	96.20	11.87
			For 24" Radius, Add	6.47	
			For 36" Radius, Add	9.62	
			For 48" Radius, Add	12.77	
26 05 33 13-1696	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	105.17	15.18
			For 24" Radius, Add	6.94	
			For 36" Radius, Add	10.52	
			For 48" Radius, Add	14.10	
26 05 33 13-1697	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	115.32	18.98
			For 24" Radius, Add	7.46	
			For 36" Radius, Add	11.53	
			For 48" Radius, Add	15.60	
26 05 33 13-1698	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	136.55	23.73
			For 24" Radius, Add	8.76	
			For 36" Radius, Add	13.66	
			For 48" Radius, Add	18.55	
26 05 33 13-1699	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	163.63	28.47
			For 24" Radius, Add	10.49	
			For 36" Radius, Add	16.36	
			For 48" Radius, Add	22.23	
26 05 33 13-1700	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	193.97	33.22
			For 24" Radius, Add	12.47	
			For 36" Radius, Add	19.40	
			For 48" Radius, Add	26.32	
26 05 33 13-1701	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	225.63	40.34
			For 24" Radius, Add	14.40	
			For 36" Radius, Add	22.56	
			For 48" Radius, Add	30.72	
26 05 33 13-1702	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	257.30	47.45
			For 24" Radius, Add	16.33	
			For 36" Radius, Add	25.73	
			For 48" Radius, Add	35.13	
26 05 33 13-1703	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	321.61	59.32
			For 24" Radius, Add	20.41	
			For 36" Radius, Add	32.16	
			For 48" Radius, Add	43.91	
26 05 33 13-1704	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	394.61	71.19
			For 24" Radius, Add	25.15	
			For 36" Radius, Add	39.46	
			For 48" Radius, Add	53.78	
26 05 33 13-1705 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1665)					
26 05 33 13-1706	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	76.61	8.54
			For 24" Radius, Add	5.21	
			For 36" Radius, Add	7.66	
			For 48" Radius, Add	10.11	
26 05 33 13-1707	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	85.36	9.39
			For 24" Radius, Add	5.81	
			For 36" Radius, Add	8.54	
			For 48" Radius, Add	11.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1708	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	89.19	10.68
			For 24" Radius, Add	6.02	
			For 36" Radius, Add	8.92	
			For 48" Radius, Add	11.82	
26 05 33 13-1709	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	97.27	13.67
			For 24" Radius, Add	6.44	
			For 36" Radius, Add	9.73	
			For 48" Radius, Add	13.01	
26 05 33 13-1710	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	106.43	17.09
			For 24" Radius, Add	6.91	
			For 36" Radius, Add	10.64	
			For 48" Radius, Add	14.37	
26 05 33 13-1711	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	125.91	21.35
			For 24" Radius, Add	8.11	
			For 36" Radius, Add	12.59	
			For 48" Radius, Add	17.07	
26 05 33 13-1712	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	150.87	25.63
			For 24" Radius, Add	9.71	
			For 36" Radius, Add	15.09	
			For 48" Radius, Add	20.46	
26 05 33 13-1713	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	178.90	29.90
			For 24" Radius, Add	11.55	
			For 36" Radius, Add	17.89	
			For 48" Radius, Add	24.23	
26 05 33 13-1714	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	207.94	36.30
			For 24" Radius, Add	13.33	
			For 36" Radius, Add	20.79	
			For 48" Radius, Add	28.26	
26 05 33 13-1715	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	236.97	42.70
			For 24" Radius, Add	15.10	
			For 36" Radius, Add	23.70	
			For 48" Radius, Add	32.29	
26 05 33 13-1716	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	296.22	53.39
			For 24" Radius, Add	18.88	
			For 36" Radius, Add	29.62	
			For 48" Radius, Add	40.36	
26 05 33 13-1717	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	363.60	64.07
			For 24" Radius, Add	23.27	
			For 36" Radius, Add	36.36	
			For 48" Radius, Add	49.45	
26 05 33 13-1718			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1665)		
26 05 33 13-1719	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	73.02	8.54
			For 24" Radius, Add	4.94	
			For 36" Radius, Add	7.30	
			For 48" Radius, Add	9.66	
26 05 33 13-1720	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	81.34	9.39
			For 24" Radius, Add	5.51	
			For 36" Radius, Add	8.13	
			For 48" Radius, Add	10.75	
26 05 33 13-1721	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	85.13	10.68
			For 24" Radius, Add	5.72	
			For 36" Radius, Add	8.51	
			For 48" Radius, Add	11.31	
26 05 33 13-1722	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	93.18	13.67
			For 24" Radius, Add	6.13	
			For 36" Radius, Add	9.32	
			For 48" Radius, Add	12.50	
26 05 33 13-1723	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	102.29	17.09
			For 24" Radius, Add	6.60	
			For 36" Radius, Add	10.23	
			For 48" Radius, Add	13.85	
26 05 33 13-1724	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	121.20	21.35
			For 24" Radius, Add	7.76	
			For 36" Radius, Add	12.12	
			For 48" Radius, Add	16.48	
26 05 33 13-1725	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	145.23	25.63
			For 24" Radius, Add	9.29	
			For 36" Radius, Add	14.52	
			For 48" Radius, Add	19.76	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1726	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	172.14	29.90
			For 24" Radius, Add.....	11.04	
			For 36" Radius, Add.....	17.21	
			For 48" Radius, Add.....	23.39	
26 05 33 13-1727	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	200.33	36.30
			For 24" Radius, Add.....	12.76	
			For 36" Radius, Add.....	20.03	
			For 48" Radius, Add.....	27.31	
26 05 33 13-1728	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	228.52	42.70
			For 24" Radius, Add.....	14.47	
			For 36" Radius, Add.....	22.85	
			For 48" Radius, Add.....	31.23	
26 05 33 13-1729	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	285.65	53.39
			For 24" Radius, Add.....	18.09	
			For 36" Radius, Add.....	28.57	
			For 48" Radius, Add.....	39.04	
26 05 33 13-1730	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	350.39	64.07
			For 24" Radius, Add.....	22.28	
			For 36" Radius, Add.....	35.04	
			For 48" Radius, Add.....	47.80	
26 05 33 13-1731 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-1665)					
26 05 33 13-1732	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	46.32	6.64
26 05 33 13-1733	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	52.09	7.59
26 05 33 13-1734	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	54.80	8.54
26 05 33 13-1735	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	57.46	9.49
26 05 33 13-1736	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	64.06	11.87
26 05 33 13-1737	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	76.57	14.24
26 05 33 13-1738	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	96.77	18.98
26 05 33 13-1739	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	118.50	23.73
26 05 33 13-1740	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	143.70	30.85
26 05 33 13-1741	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	168.89	37.97
26 05 33 13-1742	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	211.11	47.45
26 05 33 13-1743	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	263.84	59.32
26 05 33 13-1744 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-1665)					
26 05 33 13-1745	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	33.37	6.64
26 05 33 13-1746	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	37.61	7.59
26 05 33 13-1747	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	40.18	8.54
26 05 33 13-1748	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	42.75	9.49
26 05 33 13-1749	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	48.87	11.87
26 05 33 13-1750	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	54.92	14.24
26 05 33 13-1751	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	70.64	18.98
26 05 33 13-1752	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	87.17	23.73
26 05 33 13-1753	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	108.44	30.85
26 05 33 13-1754	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	129.71	37.97
26 05 33 13-1755	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	162.18	47.45
26 05 33 13-1756	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	202.68	59.32
26 05 33 13-1757 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-1665)					
26 05 33 13-1758	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	37.45	5.46
26 05 33 13-1759	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	42.15	7.59
26 05 33 13-1760	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	44.77	8.54
26 05 33 13-1761	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	47.29	9.49
26 05 33 13-1762	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	53.75	11.87
26 05 33 13-1763	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	64.28	14.24
26 05 33 13-1764	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	81.86	18.98
26 05 33 13-1765	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	100.61	23.73
26 05 33 13-1766	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	123.56	30.85
26 05 33 13-1767	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	146.51	37.97
26 05 33 13-1768	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	183.12	47.45
26 05 33 13-1769	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	228.92	59.32
26 05 33 13-1770 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-1665)					
26 05 33 13-1771	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	82.29	23.73
26 05 33 13-1772	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	96.67	28.47
26 05 33 13-1773	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	108.81	33.22
26 05 33 13-1774	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	120.84	37.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1775 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	133.29	42.70
26 05 33 13-1776 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	150.20	47.45
26 05 33 13-1777 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	174.32	54.57
26 05 33 13-1778 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	199.69	61.69
26 05 33 13-1779 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	229.10	71.19
26 05 33 13-1780 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	264.43	83.05
26 05 33 13-1781 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	308.30	94.91
26 05 33 13-1782 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	355.70	106.77
26 05 33 13-1783 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-1665)		
26 05 33 13-1784 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	91.61	23.73
26 05 33 13-1785 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	107.12	28.47
26 05 33 13-1786 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	119.32	33.22
26 05 33 13-1787 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	131.46	37.97
26 05 33 13-1788 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	144.00	42.70
26 05 33 13-1789 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	162.43	47.45
26 05 33 13-1790 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	189.00	54.57
26 05 33 13-1791 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	217.30	61.69
26 05 33 13-1792 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	248.92	71.19
26 05 33 13-1793 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	286.46	83.05
26 05 33 13-1794 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	335.92	94.91
26 05 33 13-1795 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	390.23	106.77
26 05 33 13-1796 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters (26 05 33 13-1665)		
26 05 33 13-1797 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	93.40	6.64
26 05 33 13-1798 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	104.29	7.59
26 05 33 13-1799 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	109.28	8.54
26 05 33 13-1800 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	114.39	9.49
26 05 33 13-1801 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	121.72	11.87
26 05 33 13-1802 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	136.42	14.24
26 05 33 13-1803 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	168.46	18.98
26 05 33 13-1804 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	204.46	23.73
26 05 33 13-1805 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	240.41	30.85
26 05 33 13-1806 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	276.35	37.97
26 05 33 13-1807 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	345.50	47.45
26 05 33 13-1808 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	430.11	59.32
26 05 33 13-1809 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-1665)		
26 05 33 13-1810 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	107.83	23.73
26 05 33 13-1811 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	125.10	28.47
26 05 33 13-1812 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	149.65	33.22
26 05 33 13-1813 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	184.70	37.97
26 05 33 13-1814 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	229.86	42.70
26 05 33 13-1815 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	301.07	47.45
26 05 33 13-1816 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	423.50	54.57
26 05 33 13-1817 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	510.19	61.69
26 05 33 13-1818 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	615.73	71.19
26 05 33 13-1819 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	727.20	83.05
26 05 33 13-1820 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	854.47	94.91
26 05 33 13-1821 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	1,314.71	106.77
26 05 33 13-1822 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover (26 05 33 13-1665)		
26 05 33 13-1823 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	90.39	18.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		14.24
26 05 33 13-1824 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	104.60	21.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.02
26 05 33 13-1825 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	137.40	23.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		17.80
26 05 33 13-1826 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	167.64	28.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		21.36
26 05 33 13-1827 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	212.98	35.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		26.69
26 05 33 13-1828 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	290.49	42.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		32.03
26 05 33 13-1829 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	469.05	49.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		37.37

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1830 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	601.67	56.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.71	
26 05 33 13-1831 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	722.99	66.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.83	
26 05 33 13-1832 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	844.33	75.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.95	
26 05 33 13-1833 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	994.36	85.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.07	
26 05 33 13-1834 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	1,127.18	94.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.18	
26 05 33 13-1835 Explosion Proof Conduit Fittings (26 05 33 13-0059) Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
26 05 33 13-1836 Explosion Proof Malleable Iron Conduit Unions (26 05 33 13-1835)		
26 05 33 13-1837 EA 1/2" Explosion Proof Malleable Iron Conduit Union	48.70	10.47
26 05 33 13-1838 EA 3/4" Explosion Proof Malleable Iron Conduit Union	59.93	11.57
26 05 33 13-1839 EA 1" Explosion Proof Malleable Iron Conduit Union	94.84	15.42
26 05 33 13-1840 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union	125.27	17.08
26 05 33 13-1841 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union	157.60	20.93
26 05 33 13-1842 EA 2" Explosion Proof Malleable Iron Conduit Union	196.19	24.24
26 05 33 13-1843 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union	298.41	34.66
26 05 33 13-1844 EA 3" Explosion Proof Malleable Iron Conduit Union	379.05	41.26
26 05 33 13-1845 EA 3-1/2" Explosion Proof Malleable Iron Conduit Union	634.92	49.51
26 05 33 13-1846 EA 4" Explosion Proof Malleable Iron Conduit Union	674.30	63.26
26 05 33 13-1847 Explosion Proof Malleable Iron Conduit Bodies (26 05 33 13-1835)		
26 05 33 13-1848 EA 1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	172.13	33.05
26 05 33 13-1849 EA 3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	194.04	37.46
26 05 33 13-1850 EA 1" Explosion Proof Malleable Iron Two Hub Conduit Conduit Body	227.05	41.32
26 05 33 13-1851 EA 1/2" Explosion Proof Malleable Iron Three Hub Conduit Body	194.48	41.32
26 05 33 13-1852 EA 3/4" Explosion Proof Malleable Iron Three Hub Conduit Body	231.73	49.58
26 05 33 13-1853 EA 1" Explosion Proof Malleable Iron Three Hub Conduit Body	274.12	56.74
26 05 33 13-1854 Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical (26 05 33 13-1835) Note: Includes sealing gasket and lock nut.		
26 05 33 13-1855 EA 1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	142.38	27.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.66	
26 05 33 13-1856 EA 3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	145.66	30.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.14	
26 05 33 13-1857 EA 1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	159.00	33.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.20	
26 05 33 13-1858 EA 1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	204.24	41.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.99	
26 05 33 13-1859 EA 1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	260.47	48.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.36	
26 05 33 13-1860 EA 2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	334.34	55.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.32	
26 05 33 13-1861 EA 2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	476.28	82.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.88	
26 05 33 13-1862 EA 3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	601.93	103.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.56	
26 05 33 13-1863 EA 3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	848.23	113.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.40	
26 05 33 13-1864 EA 4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	1,093.13	123.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.83	
26 05 33 13-1865 Explosion Proof Flexible Conduit Couplings (26 05 33 13-1835)		
26 05 33 13-1866 EA 1/2" x 12" Explosion Proof Flexible Conduit Coupling.....	378.11	12.67
26 05 33 13-1867 EA 3/4" x 15" Explosion Proof Flexible Conduit Coupling.....	494.58	14.32
26 05 33 13-1868 Conduit Installed Below Grade (26 05 33 13-0058) Note: By direct burial in trench or in concrete slabs or duct banks. Includes detectable warning tape for underground conduits. Excludes trenching, backfilling and concrete.		
26 05 33 13-1869 Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial (26 05 33 13-1868)		
26 05 33 13-1870 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial (26 05 33 13-1869) Note: Includes field bend conduit up to and including 1". See CSI section 26 05 33 13-2329 for field bending >1".		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1871	LF	1/2"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	4.91	
			For Schedule 60, Add	0.46	
			For Schedule 80, Add	0.75	
26 05 33 13-1872	LF	3/4"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	5.56	
			For Schedule 60, Add	0.56	
			For Schedule 80, Add	0.91	
26 05 33 13-1873	LF	1"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.55	
			For Schedule 60, Add	0.75	
			For Schedule 80, Add	1.18	
26 05 33 13-1874	LF	1-1/4"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	7.54	
			For Schedule 60, Add	0.94	
			For Schedule 80, Add	1.45	
26 05 33 13-1875	LF	1-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	8.39	
			For Schedule 60, Add	1.09	
			For Schedule 80, Add	1.68	
26 05 33 13-1876	LF	2"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	9.75	
			For Schedule 60, Add	1.37	
			For Schedule 80, Add	2.08	
26 05 33 13-1877	LF	2-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	12.68	
			For Schedule 60, Add	2.04	
			For Schedule 80, Add	3.03	
26 05 33 13-1878	LF	3"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	14.32	
			For Schedule 60, Add	2.39	
			For Schedule 80, Add	3.53	
26 05 33 13-1879	LF	3-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	16.96	
			For Schedule 60, Add	2.99	
			For Schedule 80, Add	4.38	
26 05 33 13-1880	LF	4"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	18.32	
			For Schedule 60, Add	3.27	
			For Schedule 80, Add	4.78	
26 05 33 13-1881	LF	5"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	24.00	
			For Schedule 60, Add	4.64	
			For Schedule 80, Add	6.70	
26 05 33 13-1882	LF	6"	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	29.81	
			For Schedule 60, Add	6.03	
			For Schedule 80, Add	8.65	

26 05 33 13-1883 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial

(26 05 33 13-1869)

See CSI section 26 05 33 13-2329 for conduit field bending.

26 05 33 13-1884	EA	1/2"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	30.90	
			For Schedule 60, Add	1.80	
			For Schedule 80, Add	3.40	
26 05 33 13-1885	EA	3/4"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	37.11	
			For Schedule 60, Add	2.16	
			For Schedule 80, Add	4.09	
26 05 33 13-1886	EA	1"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	43.89	
			For Schedule 60, Add	2.67	
			For Schedule 80, Add	4.98	
26 05 33 13-1887	EA	1-1/4"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	50.86	
			For Schedule 60, Add	3.23	
			For Schedule 80, Add	5.94	
26 05 33 13-1888	EA	1-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	58.02	
			For Schedule 60, Add	3.83	
			For Schedule 80, Add	6.96	
26 05 33 13-1889	EA	2"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	65.77	
			For Schedule 60, Add	4.58	
			For Schedule 80, Add	8.19	
26 05 33 13-1890	EA	2-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	76.51	
			For Schedule 60, Add	6.08	
			For Schedule 80, Add	10.47	
26 05 33 13-1891	EA	3"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	89.45	
			For Schedule 60, Add	8.12	
			For Schedule 80, Add	13.51	
26 05 33 13-1892	EA	3-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	108.38	
			For Schedule 60, Add	10.49	
			For Schedule 80, Add	17.17	
26 05 33 13-1893	EA	4"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	127.48	
			For Schedule 60, Add	12.89	
			For Schedule 80, Add	20.89	
26 05 33 13-1894	EA	5"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	164.46	
			For Schedule 60, Add	19.76	
			For Schedule 80, Add	30.87	
26 05 33 13-1895	EA	6"	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	192.16	
			For Schedule 60, Add	24.31	
			For Schedule 80, Add	37.60	

26 05 33 13-1896 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial

(26 05 33 13-1869)

See CSI section 26 05 33 13-2329 for conduit field bending.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1897	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	30.90	
		<i>For Schedule 60, Add</i>	1.80	
		<i>For Schedule 80, Add</i>	3.40	
26 05 33 13-1898	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	37.02	
		<i>For Schedule 60, Add</i>	2.14	
		<i>For Schedule 80, Add</i>	4.06	
26 05 33 13-1899	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	43.76	
		<i>For Schedule 60, Add</i>	2.64	
		<i>For Schedule 80, Add</i>	4.94	
26 05 33 13-1900	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	50.50	
		<i>For Schedule 60, Add</i>	3.14	
		<i>For Schedule 80, Add</i>	5.81	
26 05 33 13-1901	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	57.22	
		<i>For Schedule 60, Add</i>	3.63	
		<i>For Schedule 80, Add</i>	6.68	
26 05 33 13-1902	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	65.34	
		<i>For Schedule 60, Add</i>	4.47	
		<i>For Schedule 80, Add</i>	8.04	
26 05 33 13-1903	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	75.71	
		<i>For Schedule 60, Add</i>	5.88	
		<i>For Schedule 80, Add</i>	10.19	
26 05 33 13-1904	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	88.44	
		<i>For Schedule 60, Add</i>	7.87	
		<i>For Schedule 80, Add</i>	13.16	
26 05 33 13-1905	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	105.54	
		<i>For Schedule 60, Add</i>	9.78	
		<i>For Schedule 80, Add</i>	16.18	
26 05 33 13-1906	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	125.04	
		<i>For Schedule 60, Add</i>	12.28	
		<i>For Schedule 80, Add</i>	20.04	
26 05 33 13-1907	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	161.30	
		<i>For Schedule 60, Add</i>	18.97	
		<i>For Schedule 80, Add</i>	29.76	
26 05 33 13-1908	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	182.74	
		<i>For Schedule 60, Add</i>	21.96	
		<i>For Schedule 80, Add</i>	34.30	
26 05 33 13-1909 Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial (26 05 33 13-1899)				
26 05 33 13-1910	EA	1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	17.19	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.98	
26 05 33 13-1911	EA	3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	19.77	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.69	
26 05 33 13-1912	EA	1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	22.44	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.41	
26 05 33 13-1913	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	25.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.12	
26 05 33 13-1914	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	27.75	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.83	
26 05 33 13-1915	EA	2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	30.84	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.54	
26 05 33 13-1916	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	36.31	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.61	
26 05 33 13-1917	EA	3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	41.39	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.68	
26 05 33 13-1918	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	48.86	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.46	
26 05 33 13-1919	EA	4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	55.16	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.24	
26 05 33 13-1920	EA	5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	69.04	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.02	
26 05 33 13-1921	EA	6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	78.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.80	
26 05 33 13-1922 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial (26 05 33 13-1899)				
26 05 33 13-1923	EA	1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	18.87	
26 05 33 13-1924	EA	3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	21.59	
26 05 33 13-1925	EA	1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	24.33	
26 05 33 13-1926	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	31.08	
26 05 33 13-1927	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	34.37	
26 05 33 13-1928	EA	2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	38.23	
26 05 33 13-1929	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	42.85	
26 05 33 13-1930	EA	3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	48.66	
26 05 33 13-1931	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	57.50	
26 05 33 13-1932	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	63.84	
26 05 33 13-1933	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	79.73	
26 05 33 13-1934	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	89.64	
26 05 33 13-1935 Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial (26 05 33 13-1899)				
26 05 33 13-1936	EA	1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	17.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1937 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	19.77	
26 05 33 13-1938 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	22.31	
26 05 33 13-1939 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	25.01	
26 05 33 13-1940 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	27.55	
26 05 33 13-1941 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	30.57	
26 05 33 13-1942 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	35.77	
26 05 33 13-1943 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	40.63	
26 05 33 13-1944 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	47.90	
26 05 33 13-1945 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	54.18	
26 05 33 13-1946 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	67.10	
26 05 33 13-1947 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	75.90	
26 05 33 13-1948 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial (26 05 33 13-1868) Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).		
26 05 33 13-1949 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial (26 05 33 13-1948) Note: Includes field bending for conduit up to and including 1". See CSI section 26 05 33 13-2319 for field bending >1".		
26 05 33 13-1950 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	12.80	2.64
For >250 To 500, Deduct	-0.47	
For >500 To 1,000, Deduct	-0.79	
For >1,000, Deduct	-1.11	
26 05 33 13-1951 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	14.35	3.27
For >250 To 500, Deduct	-0.53	
For >500 To 1,000, Deduct	-0.89	
For >1,000, Deduct	-1.25	
26 05 33 13-1952 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	17.61	3.65
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.10	
For >1,000, Deduct	-1.54	
26 05 33 13-1953 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	21.23	4.90
For >250 To 500, Deduct	-0.81	
For >500 To 1,000, Deduct	-1.34	
For >1,000, Deduct	-1.87	
26 05 33 13-1954 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	24.90	5.53
For >250 To 500, Deduct	-0.96	
For >500 To 1,000, Deduct	-1.58	
For >1,000, Deduct	-2.21	
26 05 33 13-1955 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	31.52	6.03
For >250 To 500, Deduct	-1.23	
For >500 To 1,000, Deduct	-2.02	
For >1,000, Deduct	-2.81	
26 05 33 13-1956 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	45.70	9.05
For >250 To 500, Deduct	-1.81	
For >500 To 1,000, Deduct	-2.96	
For >1,000, Deduct	-4.10	
26 05 33 13-1957 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	58.98	11.31
For >250 To 500, Deduct	-2.32	
For >500 To 1,000, Deduct	-3.80	
For >1,000, Deduct	-5.27	
26 05 33 13-1958 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	72.82	11.94
For >250 To 500, Deduct	-2.86	
For >500 To 1,000, Deduct	-4.68	
For >1,000, Deduct	-6.50	
26 05 33 13-1959 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	86.51	13.19
For >250 To 500, Deduct	-3.38	
For >500 To 1,000, Deduct	-5.55	
For >1,000, Deduct	-7.71	
26 05 33 13-1960 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	134.26	18.22
For >250 To 500, Deduct	-5.52	
For >500 To 1,000, Deduct	-8.88	
For >1,000, Deduct	-12.23	
26 05 33 13-1961 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	178.88	23.87
For >250 To 500, Deduct	-7.44	
For >500 To 1,000, Deduct	-11.91	
For >1,000, Deduct	-16.38	
26 05 33 13-1962 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial (26 05 33 13-1948)		
26 05 33 13-1963 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	13.74	3.77
26 05 33 13-1964 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	16.55	5.02
26 05 33 13-1965 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	21.01	6.28
26 05 33 13-1966 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	23.66	6.92
26 05 33 13-1967 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	28.04	8.17
26 05 33 13-1968 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	35.98	9.42
26 05 33 13-1969 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	65.01	11.31
26 05 33 13-1970 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	82.90	15.71
26 05 33 13-1971 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	102.49	18.22

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1972	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	127.48	25.13
26 05 33 13-1973	EA	5"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	320.74	34.56
26 05 33 13-1974	EA	6"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	320.05	19.47
26 05 33 13-1975 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial (26 05 33 13-1948)					
Note: 90, 45, or 30-degree.					
26 05 33 13-1976	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	53.16	15.71
26 05 33 13-1977	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	61.54	19.47
26 05 33 13-1978	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	73.64	23.87
26 05 33 13-1979	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	87.10	27.64
26 05 33 13-1980	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	101.93	31.41
26 05 33 13-1981	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	123.68	34.56
26 05 33 13-1982	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	189.51	43.35
26 05 33 13-1983	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	282.40	59.06
26 05 33 13-1984	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	348.77	66.60
26 05 33 13-1985	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	401.29	86.70
26 05 33 13-1986	EA	5"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	831.87	141.37
26 05 33 13-1987	EA	6"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	1,307.41	212.36
26 05 33 13-1988 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial (26 05 33 13-1948)					
26 05 33 13-1989	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	124.90	23.87
26 05 33 13-1990	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	140.61	27.64
26 05 33 13-1991	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	160.52	31.41
26 05 33 13-1992	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	191.29	34.56
26 05 33 13-1993	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	266.03	43.35
26 05 33 13-1994 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial (26 05 33 13-1948)					
26 05 33 13-1995	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	138.76	23.87
26 05 33 13-1996	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	163.52	27.64
26 05 33 13-1997	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	176.94	31.41
26 05 33 13-1998	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	227.10	34.56
26 05 33 13-1999	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	300.56	43.35
26 05 33 13-2000	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	384.81	59.06
26 05 33 13-2001 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial (26 05 33 13-1948)					
26 05 33 13-2002	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	155.33	23.87
26 05 33 13-2003	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	175.45	27.64
26 05 33 13-2004	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	198.01	31.41
26 05 33 13-2005	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	238.97	34.56
26 05 33 13-2006	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	340.24	43.35
26 05 33 13-2007	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	431.40	59.06
26 05 33 13-2008	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	543.87	66.60
26 05 33 13-2009	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	613.84	86.70



MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 05 33 13-2010 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial (26 05 33 13-1948)					
26 05 33 13-2011	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	183.96		23.87
26 05 33 13-2012	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	203.45		27.64
26 05 33 13-2013	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	229.81		31.41
26 05 33 13-2014	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	284.76		34.56
26 05 33 13-2015	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	411.26		43.35
26 05 33 13-2016	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	510.33		59.06
26 05 33 13-2017	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	592.07		66.60
26 05 33 13-2018	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	702.32		86.70
26 05 33 13-2019 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial (26 05 33 13-1948)					
26 05 33 13-2020	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	206.24		23.87
26 05 33 13-2021	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	229.51		27.64
26 05 33 13-2022	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	261.10		31.41
26 05 33 13-2023	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	324.61		34.56
26 05 33 13-2024	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	450.01		43.35
26 05 33 13-2025	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	573.46		59.06
26 05 33 13-2026	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	709.24		66.60
26 05 33 13-2027	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	783.53		86.70
26 05 33 13-2028	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	1,306.00		141.37
26 05 33 13-2029 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial (26 05 33 13-1948)					
26 05 33 13-2030	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	235.37		23.87
26 05 33 13-2031	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	261.01		27.64
26 05 33 13-2032	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	295.40		31.41
26 05 33 13-2033	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	368.81		34.56
26 05 33 13-2034	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	514.58		43.35
26 05 33 13-2035	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	653.90		59.06
26 05 33 13-2036	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	767.96		66.60
26 05 33 13-2037	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	888.38		86.70
26 05 33 13-2038	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	1,379.48		141.37
26 05 33 13-2039	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	1,888.03		212.36
26 05 33 13-2040 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial (26 05 33 13-1948)					
26 05 33 13-2041	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	275.93		23.87
26 05 33 13-2042	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	289.08		27.64
26 05 33 13-2043	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	341.31		31.41
26 05 33 13-2044	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	430.34		34.56
26 05 33 13-2045	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	601.64		43.35
26 05 33 13-2046	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	762.34		59.06

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2047	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	931.19	66.60
26 05 33 13-2048	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,092.35	86.70
26 05 33 13-2049	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,619.16	141.37
26 05 33 13-2050	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,998.05	212.36
26 05 33 13-2051 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial (26 05 33 13-1948)				
26 05 33 13-2052	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	285.70	23.87
26 05 33 13-2053	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	336.57	27.64
26 05 33 13-2054	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	381.01	31.41
26 05 33 13-2055	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	448.85	34.56
26 05 33 13-2056	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	623.39	43.35
26 05 33 13-2057	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	795.69	59.06
26 05 33 13-2058	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,020.09	66.60
26 05 33 13-2059	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,138.61	86.70
26 05 33 13-2060	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,683.55	141.37
26 05 33 13-2061	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	2,053.95	212.36
26 05 33 13-2062 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial (26 05 33 13-1948)				
26 05 33 13-2063	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	96.23	15.71
26 05 33 13-2064	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	104.96	19.47
26 05 33 13-2065	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	136.22	23.87
26 05 33 13-2066	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	197.67	27.64
26 05 33 13-2067	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	234.58	31.41
26 05 33 13-2068	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	297.99	34.56
26 05 33 13-2069	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	396.57	43.35
26 05 33 13-2070	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	513.90	43.35
26 05 33 13-2071	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	663.11	66.60
26 05 33 13-2072	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	853.82	86.70
26 05 33 13-2073	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,554.50	141.37
26 05 33 13-2074	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,939.38	212.36
26 05 33 13-2075 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial (26 05 33 13-1948)				
26 05 33 13-2076	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	98.41	15.71
26 05 33 13-2077	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	113.29	19.47
26 05 33 13-2078	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	140.67	23.87
26 05 33 13-2079	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	205.83	27.64
26 05 33 13-2080	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	245.90	31.41
26 05 33 13-2081	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	322.45	34.56
26 05 33 13-2082	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	448.91	43.35
26 05 33 13-2083	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	567.11	43.35
26 05 33 13-2084	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	759.32	66.60



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2085	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	949.68	86.70
26 05 33 13-2086	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	1,730.21	141.37
26 05 33 13-2087	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	2,223.11	212.36
26 05 33 13-2088			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial (26 05 33 13-1948)		
26 05 33 13-2089	EA		1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	33.45	7.54
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-2090	EA		3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.58	9.42
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.66	
26 05 33 13-2091	EA		1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	43.63	11.94
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-2092	EA		1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	51.95	13.82
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-2093	EA		1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	56.52	15.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-2094	EA		1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.08	8.17
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33 13-2095	EA		3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.10	9.42
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.66	
26 05 33 13-2096	EA		1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	46.17	11.94
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-2097	EA		1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	54.64	13.82
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-2098	EA		1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	59.41	15.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-2099	EA		2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	64.44	17.59
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-2100	EA		1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.26	8.17
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33 13-2101	EA		3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.26	9.42
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33 13-2102	EA		1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	46.50	11.94
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-2103	EA		1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	54.99	13.82
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-2104	EA		1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	59.76	15.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-2105	EA		2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	65.34	17.59
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-2106	EA		1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	39.64	8.17
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33 13-2107	EA		3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	42.65	9.42
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33 13-2108	EA		1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	49.06	11.94
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-2109	EA		1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	56.44	13.82
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-2110	EA		1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	61.37	15.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-2111	EA		2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	68.15	17.59
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-2112	EA		2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	95.06	21.36
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.82	
26 05 33 13-2113	EA		3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	123.09	29.53
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2114	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		39.82	8.17
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.90	
26 05 33 13-2115	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		42.97	9.42
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.65	
26 05 33 13-2116	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		49.41	11.94
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.16	
26 05 33 13-2117	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		57.90	13.82
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.29	
26 05 33 13-2118	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		62.98	15.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.42	
26 05 33 13-2119	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		70.97	17.59
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.55	
26 05 33 13-2120	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		97.54	21.36
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.82	
26 05 33 13-2121	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		128.44	29.53
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		17.72	
26 05 33 13-2122	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		153.13	33.29
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		19.98	
26 05 33 13-2123	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		179.28	43.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		26.01	
26 05 33 13-2124	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		40.15	8.17
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.90	
26 05 33 13-2125	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		43.33	9.42
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.65	
26 05 33 13-2126	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		49.79	11.94
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.16	
26 05 33 13-2127	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		58.58	13.82
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.29	
26 05 33 13-2128	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		63.68	15.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.42	
26 05 33 13-2129	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		72.50	17.59
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.55	
26 05 33 13-2130	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		107.44	21.36
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.82	
26 05 33 13-2131	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		136.45	29.53
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		17.72	
26 05 33 13-2132	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		154.84	33.29
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		19.98	
26 05 33 13-2133	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		183.85	43.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		26.01	
26 05 33 13-2134	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		270.50	59.68
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		35.81	
26 05 33 13-2135	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		40.78	8.17
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.90	
26 05 33 13-2136	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		43.95	9.42
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.65	
26 05 33 13-2137	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		50.46	11.94
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.16	
26 05 33 13-2138	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		59.83	13.82
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.29	
26 05 33 13-2139	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		65.19	15.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.42	
26 05 33 13-2140	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		74.03	17.59
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.55	
26 05 33 13-2141	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct			
		Burial		117.48	21.36
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2142	EA		3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	147.10	29.53
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33 13-2143	EA		3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	164.43	33.29
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.98	
26 05 33 13-2144	EA		4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	200.03	43.35
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 05 33 13-2145	EA		5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	294.68	59.68
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.81	
26 05 33 13-2146	EA		1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.75	8.17
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33 13-2147	EA		3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.91	9.42
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33 13-2148	EA		1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.97	11.94
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-2149	EA		1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.16	13.82
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-2150	EA		1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	68.25	15.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-2151	EA		2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	81.51	17.59
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-2152	EA		2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	129.84	21.36
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.82	
26 05 33 13-2153	EA		3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	161.66	29.53
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33 13-2154	EA		3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	188.44	33.29
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.98	
26 05 33 13-2155	EA		4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	224.31	43.35
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 05 33 13-2156	EA		5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	311.26	59.68
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.81	
26 05 33 13-2157	EA		1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.78	8.17
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33 13-2158	EA		3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.91	9.42
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	
26 05 33 13-2159	EA		1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.45	11.94
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-2160	EA		1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	64.68	13.82
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-2161	EA		1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	75.53	15.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42	
26 05 33 13-2162	EA		2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	92.51	17.59
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-2163	EA		2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	142.90	21.36
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.82	
26 05 33 13-2164	EA		3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	180.32	29.53
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33 13-2165	EA		3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	213.65	33.29
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.98	
26 05 33 13-2166	EA		4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	266.80	43.35
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 05 33 13-2167	EA		5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	344.33	59.68
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.81	
26 05 33 13-2168	EA		1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.84	8.17
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	
26 05 33 13-2169	EA		3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.09	9.42
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.65	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2170	EA	1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.22	11.94
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.16	
26 05 33 13-2171	EA	1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	72.12	13.82
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.29	
26 05 33 13-2172	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	84.35	15.71
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.42	
26 05 33 13-2173	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	101.35	17.59
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.55	
26 05 33 13-2174	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	160.32	21.36
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.82	
26 05 33 13-2175	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	208.30	29.53
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.72	
26 05 33 13-2176	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	229.12	33.29
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.98	
26 05 33 13-2177	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	279.83	43.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
26 05 33 13-2178	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	349.05	59.68
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.81	
26 05 33 13-2179		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1868) Note: Direct burial or encased application.		
26 05 33 13-2180		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-2179) Note: Includes field bending for conduit up to and including 1". See CSI section 26 05 33 13-2329 for field bending >1".		
26 05 33 13-2181	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	7.74	1.54
		<i>For Work In Restricted Working Space, Add</i>	1.16	
26 05 33 13-2182	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.53	1.66
		<i>For Work In Restricted Working Space, Add</i>	1.25	
26 05 33 13-2183	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	9.07	1.78
		<i>For Work In Restricted Working Space, Add</i>	1.34	
26 05 33 13-2184	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	9.62	1.90
		<i>For Work In Restricted Working Space, Add</i>	1.43	
26 05 33 13-2185	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.31	2.01
		<i>For Work In Restricted Working Space, Add</i>	1.51	
26 05 33 13-2186	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.75	2.13
		<i>For Work In Restricted Working Space, Add</i>	1.60	
26 05 33 13-2187	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	12.12	2.25
		<i>For Work In Restricted Working Space, Add</i>	1.69	
26 05 33 13-2188	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	13.71	2.37
		<i>For Work In Restricted Working Space, Add</i>	1.78	
26 05 33 13-2189	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	14.98	2.49
		<i>For Work In Restricted Working Space, Add</i>	1.87	
26 05 33 13-2190	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	16.25	2.61
		<i>For Work In Restricted Working Space, Add</i>	1.96	
26 05 33 13-2191	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	18.97	2.72
		<i>For Work In Restricted Working Space, Add</i>	2.05	
26 05 33 13-2192	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	22.31	2.84
		<i>For Work In Restricted Working Space, Add</i>	2.14	
26 05 33 13-2193		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-2179)		
26 05 33 13-2194	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	101.42	11.87
		<i>For Work In Restricted Working Space, Add</i>	8.90	
		<i>For 24" Radius, Add</i>	6.87	
		<i>For 36" Radius, Add</i>	10.14	
		<i>For 48" Radius, Add</i>	13.42	
26 05 33 13-2195	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	115.94	14.24
		<i>For Work In Restricted Working Space, Add</i>	10.68	
		<i>For 24" Radius, Add</i>	7.81	
		<i>For 36" Radius, Add</i>	11.59	
		<i>For 48" Radius, Add</i>	15.38	
26 05 33 13-2196	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	122.68	16.61
		<i>For Work In Restricted Working Space, Add</i>	12.46	
		<i>For 24" Radius, Add</i>	8.16	
		<i>For 36" Radius, Add</i>	12.27	
		<i>For 48" Radius, Add</i>	16.37	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2197	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	129.40	18.98
			For Work In Restricted Working Space, Add	14.24	
			For 24" Radius, Add	8.52	
			For 36" Radius, Add	12.94	
			For 48" Radius, Add	17.36	
26 05 33 13-2198	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	136.16	21.35
			For Work In Restricted Working Space, Add	16.02	
			For 24" Radius, Add	8.88	
			For 36" Radius, Add	13.62	
			For 48" Radius, Add	18.35	
26 05 33 13-2199	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	153.50	23.73
			For Work In Restricted Working Space, Add	17.80	
			For 24" Radius, Add	10.03	
			For 36" Radius, Add	15.35	
			For 48" Radius, Add	20.67	
26 05 33 13-2200	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	177.98	26.10
			For Work In Restricted Working Space, Add	19.58	
			For 24" Radius, Add	11.72	
			For 36" Radius, Add	17.80	
			For 48" Radius, Add	23.88	
26 05 33 13-2201	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	206.46	28.47
			For Work In Restricted Working Space, Add	21.36	
			For 24" Radius, Add	13.70	
			For 36" Radius, Add	20.65	
			For 48" Radius, Add	27.59	
26 05 33 13-2202	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	235.23	33.22
			For Work In Restricted Working Space, Add	24.92	
			For 24" Radius, Add	15.57	
			For 36" Radius, Add	23.52	
			For 48" Radius, Add	31.48	
26 05 33 13-2203	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	264.00	42.70
			For Work In Restricted Working Space, Add	28.47	
			For 24" Radius, Add	17.43	
			For 36" Radius, Add	26.40	
			For 48" Radius, Add	35.37	
26 05 33 13-2204	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	318.14	42.70
			For Work In Restricted Working Space, Add	32.03	
			For 24" Radius, Add	21.19	
			For 36" Radius, Add	31.81	
			For 48" Radius, Add	42.44	
26 05 33 13-2205	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	382.85	47.45
			For Work In Restricted Working Space, Add	35.59	
			For 24" Radius, Add	25.75	
			For 36" Radius, Add	38.29	
			For 48" Radius, Add	50.82	
26 05 33 13-2206 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-2179)					
26 05 33 13-2207	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	46.32	6.64
			For Work In Restricted Working Space, Add	4.98	
26 05 33 13-2208	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	52.09	7.59
			For Work In Restricted Working Space, Add	5.69	
26 05 33 13-2209	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	54.80	8.54
			For Work In Restricted Working Space, Add	6.41	
26 05 33 13-2210	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	57.46	9.49
			For Work In Restricted Working Space, Add	7.12	
26 05 33 13-2211	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	60.51	10.44
			For Work In Restricted Working Space, Add	7.83	
26 05 33 13-2212	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	69.45	11.39
			For Work In Restricted Working Space, Add	8.54	
26 05 33 13-2213	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	81.35	12.81
			For Work In Restricted Working Space, Add	9.61	
26 05 33 13-2214	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	94.77	14.24
			For Work In Restricted Working Space, Add	10.68	
26 05 33 13-2215	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	108.10	16.61
			For Work In Restricted Working Space, Add	12.46	
26 05 33 13-2216	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	121.43	18.98
			For Work In Restricted Working Space, Add	14.24	
26 05 33 13-2217	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	145.86	21.35
			For Work In Restricted Working Space, Add	16.02	
26 05 33 13-2218	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	174.87	23.73
			For Work In Restricted Working Space, Add	17.80	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2219 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-2179)				
26 05 33 13-2220	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	33.37	6.64
		<i>For Work In Restricted Working Space, Add</i>	4.98	
26 05 33 13-2221	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	37.61	7.59
		<i>For Work In Restricted Working Space, Add</i>	5.69	
26 05 33 13-2222	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	40.18	8.54
		<i>For Work In Restricted Working Space, Add</i>	6.41	
26 05 33 13-2223	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	42.75	9.49
		<i>For Work In Restricted Working Space, Add</i>	7.12	
26 05 33 13-2224	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	45.32	10.44
		<i>For Work In Restricted Working Space, Add</i>	7.83	
26 05 33 13-2225	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	47.80	11.39
		<i>For Work In Restricted Working Space, Add</i>	8.54	
26 05 33 13-2226	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	55.22	12.81
		<i>For Work In Restricted Working Space, Add</i>	9.61	
26 05 33 13-2227	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	63.44	14.24
		<i>For Work In Restricted Working Space, Add</i>	10.68	
26 05 33 13-2228	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	72.84	16.61
		<i>For Work In Restricted Working Space, Add</i>	12.46	
26 05 33 13-2229	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	82.25	18.98
		<i>For Work In Restricted Working Space, Add</i>	14.24	
26 05 33 13-2230	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	96.93	21.35
		<i>For Work In Restricted Working Space, Add</i>	16.02	
26 05 33 13-2231	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	113.71	23.73
		<i>For Work In Restricted Working Space, Add</i>	17.80	
26 05 33 13-2232 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-2179)				
26 05 33 13-2233	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	30.33	3.80
		<i>For Work In Restricted Working Space, Add</i>	2.85	
26 05 33 13-2234	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	33.85	4.27
		<i>For Work In Restricted Working Space, Add</i>	3.20	
26 05 33 13-2235	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	35.29	4.75
		<i>For Work In Restricted Working Space, Add</i>	3.56	
26 05 33 13-2236	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	36.61	5.22
		<i>For Work In Restricted Working Space, Add</i>	3.92	
26 05 33 13-2237	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	38.34	5.70
		<i>For Work In Restricted Working Space, Add</i>	4.27	
26 05 33 13-2238	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	45.30	6.64
		<i>For Work In Restricted Working Space, Add</i>	4.98	
26 05 33 13-2239	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	54.58	8.07
		<i>For Work In Restricted Working Space, Add</i>	6.05	
26 05 33 13-2240	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	65.02	9.49
		<i>For Work In Restricted Working Space, Add</i>	7.12	
26 05 33 13-2241	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	76.09	11.87
		<i>For Work In Restricted Working Space, Add</i>	8.90	
26 05 33 13-2242	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	87.19	14.24
		<i>For Work In Restricted Working Space, Add</i>	10.68	
26 05 33 13-2243	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	106.00	16.61
		<i>For Work In Restricted Working Space, Add</i>	12.46	
26 05 33 13-2244	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	128.08	18.98
		<i>For Work In Restricted Working Space, Add</i>	14.24	
26 05 33 13-2245 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-2179)				
26 05 33 13-2246	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	82.29	23.73
		<i>For Work In Restricted Working Space, Add</i>	17.80	
26 05 33 13-2247	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	96.67	28.47
		<i>For Work In Restricted Working Space, Add</i>	21.36	
26 05 33 13-2248	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	108.81	33.22
		<i>For Work In Restricted Working Space, Add</i>	24.92	
26 05 33 13-2249	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	120.84	37.97
		<i>For Work In Restricted Working Space, Add</i>	28.47	
26 05 33 13-2250	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	127.36	40.34
		<i>For Work In Restricted Working Space, Add</i>	30.25	
26 05 33 13-2251	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	138.33	42.70
		<i>For Work In Restricted Working Space, Add</i>	32.03	
26 05 33 13-2252	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	150.59	45.08
		<i>For Work In Restricted Working Space, Add</i>	33.81	
26 05 33 13-2253	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	164.10	47.45
		<i>For Work In Restricted Working Space, Add</i>	35.59	
26 05 33 13-2254	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	175.71	49.83
		<i>For Work In Restricted Working Space, Add</i>	37.37	
26 05 33 13-2255	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	187.32	52.20
		<i>For Work In Restricted Working Space, Add</i>	39.15	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2256	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	207.46	54.57
		<i>For Work In Restricted Working Space, Add</i>	40.93	
26 05 33 13-2257	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	231.14	56.95
		<i>For Work In Restricted Working Space, Add</i>	42.71	
26 05 33 13-2258		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-2179)		
26 05 33 13-2259	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	91.61	23.73
		<i>For Work In Restricted Working Space, Add</i>	17.80	
26 05 33 13-2260	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	107.12	28.47
		<i>For Work In Restricted Working Space, Add</i>	21.36	
26 05 33 13-2261	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	119.32	33.22
		<i>For Work In Restricted Working Space, Add</i>	24.92	
26 05 33 13-2262	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	131.46	37.97
		<i>For Work In Restricted Working Space, Add</i>	28.47	
26 05 33 13-2263	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	138.07	40.34
		<i>For Work In Restricted Working Space, Add</i>	30.25	
26 05 33 13-2264	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	150.56	42.70
		<i>For Work In Restricted Working Space, Add</i>	32.03	
26 05 33 13-2265	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	165.27	45.08
		<i>For Work In Restricted Working Space, Add</i>	33.81	
26 05 33 13-2266	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	181.71	47.45
		<i>For Work In Restricted Working Space, Add</i>	35.59	
26 05 33 13-2267	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	195.53	49.83
		<i>For Work In Restricted Working Space, Add</i>	37.37	
26 05 33 13-2268	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	209.35	52.20
		<i>For Work In Restricted Working Space, Add</i>	39.15	
26 05 33 13-2269	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	235.08	54.57
		<i>For Work In Restricted Working Space, Add</i>	40.93	
26 05 33 13-2270	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	265.67	56.95
		<i>For Work In Restricted Working Space, Add</i>	42.71	
26 05 33 13-2271		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters (26 05 33 13-2179)		
26 05 33 13-2272	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	93.40	6.64
		<i>For Work In Restricted Working Space, Add</i>	4.98	
26 05 33 13-2273	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	104.29	7.59
		<i>For Work In Restricted Working Space, Add</i>	5.69	
26 05 33 13-2274	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	109.28	8.54
		<i>For Work In Restricted Working Space, Add</i>	6.41	
26 05 33 13-2275	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	114.39	9.49
		<i>For Work In Restricted Working Space, Add</i>	7.12	
26 05 33 13-2276	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	118.17	10.44
		<i>For Work In Restricted Working Space, Add</i>	7.83	
26 05 33 13-2277	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	129.30	11.39
		<i>For Work In Restricted Working Space, Add</i>	8.54	
26 05 33 13-2278	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	153.04	12.81
		<i>For Work In Restricted Working Space, Add</i>	9.61	
26 05 33 13-2279	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	180.73	14.24
		<i>For Work In Restricted Working Space, Add</i>	10.68	
26 05 33 13-2280	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	204.81	16.61
		<i>For Work In Restricted Working Space, Add</i>	12.46	
26 05 33 13-2281	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	228.89	18.98
		<i>For Work In Restricted Working Space, Add</i>	14.24	
26 05 33 13-2282	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	280.25	21.35
		<i>For Work In Restricted Working Space, Add</i>	16.02	
26 05 33 13-2283	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	341.14	23.73
		<i>For Work In Restricted Working Space, Add</i>	17.80	
26 05 33 13-2284		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-2179)		
26 05 33 13-2285	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	107.83	23.73
		<i>For Work In Restricted Working Space, Add</i>	17.80	
26 05 33 13-2286	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	125.10	28.47
		<i>For Work In Restricted Working Space, Add</i>	21.36	
26 05 33 13-2287	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	149.65	33.22
		<i>For Work In Restricted Working Space, Add</i>	24.92	
26 05 33 13-2288	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	184.70	37.97
		<i>For Work In Restricted Working Space, Add</i>	28.47	
26 05 33 13-2289	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	223.93	40.34
		<i>For Work In Restricted Working Space, Add</i>	30.25	
26 05 33 13-2290	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	289.20	42.70
		<i>For Work In Restricted Working Space, Add</i>	32.03	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2291 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	399.77	45.08
<i>For Work In Restricted Working Space, Add</i>	33.81	
26 05 33 13-2292 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	474.60	47.45
<i>For Work In Restricted Working Space, Add</i>	35.59	
26 05 33 13-2293 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	562.34	49.83
<i>For Work In Restricted Working Space, Add</i>	37.37	
26 05 33 13-2294 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	650.09	52.20
<i>For Work In Restricted Working Space, Add</i>	39.15	
26 05 33 13-2295 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	753.63	54.57
<i>For Work In Restricted Working Space, Add</i>	40.93	
26 05 33 13-2296 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	1,190.15	56.95
<i>For Work In Restricted Working Space, Add</i>	42.71	

26 05 33 13-2297**Spacers** (26 05 33 13-1868)

Note: For concrete encasement applications. See CSI section 03 30 53 00-0001 for concrete., 26 05 33 13-1868 for conduit.

26 05 33 13-2298 EA 1" Base Spacers, Average 4" Wide, Direct Burial	12.37
26 05 33 13-2299 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial	13.32
26 05 33 13-2300 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial	14.74
26 05 33 13-2301 EA 1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial	15.89
26 05 33 13-2302 EA 1-1/2" Base Spacer, Average 4" Wide, Direct Burial	14.86
26 05 33 13-2303 EA 1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	15.97
26 05 33 13-2304 EA 2" Base Spacer, Average 4" Wide, Direct Burial	18.50
26 05 33 13-2305 EA 2" Intermediate Spacers, Average 4" Wide, Direct Burial	17.16
26 05 33 13-2306 EA 2-1/2" Base Spacer, Average 4" Wide, Direct Burial	20.46
26 05 33 13-2307 EA 2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	19.77
26 05 33 13-2308 EA 3" Base Spacer, Average 4" Wide, Direct Burial	23.42
26 05 33 13-2309 EA 3" Intermediate Spacers, Average 4" Wide, Direct Burial	22.35
26 05 33 13-2310 EA 3-1/2" Base Spacer, Average 4" Wide, Direct Burial	25.38
26 05 33 13-2311 EA 3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	24.25
26 05 33 13-2312 EA 4" Base Spacer, Average 4" Wide, Direct Burial	26.14
26 05 33 13-2313 EA 4" Intermediate Spacers, Average 4" Wide, Direct Burial	24.95
26 05 33 13-2314 EA 5" Base Spacer, Average 4" Wide, Direct Burial	28.90
26 05 33 13-2315 EA 5" Intermediate Spacers, Average 4" Wide, Direct Burial	27.47
26 05 33 13-2316 EA 6" Base Spacer, Average 4" Wide, Direct Burial	32.46
26 05 33 13-2317 EA 6" Intermediate Spacers, Average 4" Wide, Direct Burial	31.27

26 05 33 13-2318**Conduit Field Bending** (26 05 33 13-0058)

Note: Conduit tasks by LF include field bending up to and include 1" conduit.

26 05 33 13-2319**Metallic Conduit Field Bending** (26 05 33 13-2318)

Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), and Intermediate Metal Conduit (IMC).

26 05 33 13-2320 EA 1-1/4" Metallic Conduit Field Bending	22.53
<i>For Aluminum Conduit Bending, Add</i>	14.87
26 05 33 13-2321 EA 1-1/2" Metallic Conduit Field Bending	28.17
<i>For Aluminum Conduit Bending, Add</i>	18.59
26 05 33 13-2322 EA 2" Metallic Conduit Field Bending	35.22
<i>For Aluminum Conduit Bending, Add</i>	23.25
26 05 33 13-2323 EA 2-1/2" Metallic Conduit Field Bending	49.30
<i>For Aluminum Conduit Bending, Add</i>	32.54
26 05 33 13-2324 EA 3" Metallic Conduit Field Bending	63.39
<i>For Aluminum Conduit Bending, Add</i>	41.84
26 05 33 13-2325 EA 3-1/2" Metallic Conduit Field Bending	84.51
<i>For Aluminum Conduit Bending, Add</i>	55.78
26 05 33 13-2326 EA 4" Metallic Conduit Field Bending	98.60
<i>For Aluminum Conduit Bending, Add</i>	65.08
26 05 33 13-2327 EA 5" Metallic Conduit Field Bending	112.68
<i>For Aluminum Conduit Bending, Add</i>	74.37
26 05 33 13-2328 EA 6" Metallic Conduit Field Bending	133.81
<i>For Aluminum Conduit Bending, Add</i>	88.31

26 05 33 13-2329**Plastic Conduit Field Bending** (26 05 33 13-2318)

Note: For PVC conduits.

26 05 33 13-2330 EA 1" Plastic Conduit Field Bending	32.40
26 05 33 13-2331 EA 1-1/4" Plastic Conduit Field Bending	35.22
26 05 33 13-2332 EA 1-1/2" Plastic Conduit Field Bending	42.26
26 05 33 13-2333 EA 2" Plastic Conduit Field Bending	56.34
26 05 33 13-2334 EA 2-1/2" Plastic Conduit Field Bending	70.43
26 05 33 13-2335 EA 3" Plastic Conduit Field Bending	84.51
26 05 33 13-2336 EA 3-1/2" Plastic Conduit Field Bending	98.60
26 05 33 13-2337 EA 4" Plastic Conduit Field Bending	112.68
26 05 33 13-2338 EA 5" Plastic Conduit Field Bending	126.77
26 05 33 13-2339 EA 6" Plastic Conduit Field Bending	140.85



Electrical		26	26
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2340		Cut And Thread Existing In-Place Threaded Conduit (26 05 33 13-0058) Note: For use when connecting conduit to an existing in-place system.		
26 05 33 13-2341	EA	1/2", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	41.32 12.40	
26 05 33 13-2342	EA	3/4", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	45.45 13.64	
26 05 33 13-2343	EA	1", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	49.58 14.87	
26 05 33 13-2344	EA	1-1/4", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	53.71 16.11	
26 05 33 13-2345	EA	1-1/2", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	56.47 16.94	
26 05 33 13-2346	EA	2", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	59.22 17.77	
26 05 33 13-2347	EA	2-1/2", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	61.98 18.59	
26 05 33 13-2348	EA	3", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	64.73 19.42	
26 05 33 13-2349	EA	3-1/2", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	66.10 19.83	
26 05 33 13-2350	EA	4", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	67.49 20.25	
26 05 33 13-2351	EA	5", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	70.24 21.07	
26 05 33 13-2352	EA	6", Cut And Thread Existing In-Place Threaded Conduit..... For Work In Restricted Working Space, Add	73.00 21.90	
26 05 33 13-2353		Flexible Conduit (26 05 33 13-0058)		
26 05 33 13-2354		Flexible Liquid Tight Metallic Conduit And Connectors (26 05 33 13-2353) Note: Steel inner core with PVC cover.		
26 05 33 13-2355		Flexible Liquid Tight Metallic Conduit (26 05 33 13-2354)		
26 05 33 13-2356	LF	3/8" Flexible Liquid Tight Metallic Conduit..... For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add	5.19 0.57 1.13	1.50
26 05 33 13-2357	LF	1/2" Flexible Liquid Tight Metallic Conduit..... For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add	5.40 0.57 1.13	1.50
26 05 33 13-2358	LF	3/4" Flexible Liquid Tight Metallic Conduit..... For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add	7.23 0.75 1.51	2.01
26 05 33 13-2359	LF	1" Flexible Liquid Tight Metallic Conduit..... For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add	8.36 0.75 1.51	2.01
26 05 33 13-2360	LF	1-1/4" Flexible Liquid Tight Metallic Conduit..... For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add	10.83 0.94 1.88	2.52
26 05 33 13-2361	LF	1-1/2" Flexible Liquid Tight Metallic Conduit..... For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add	13.92 1.13 2.26	3.02
26 05 33 13-2362	LF	2" Flexible Liquid Tight Metallic Conduit..... For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add	18.31 1.51 3.02	4.02
26 05 33 13-2363	LF	2-1/2" Flexible Liquid Tight Metallic Conduit..... For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add	24.95 1.70 3.39	4.52
26 05 33 13-2364	LF	3" Flexible Liquid Tight Metallic Conduit..... For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add	36.76 2.07 4.15	5.53
26 05 33 13-2365	LF	4" Flexible Liquid Tight Metallic Conduit..... For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add	50.34 2.64 5.28	7.04
26 05 33 13-2366		Straight Liquid Tight Connector (26 05 33 13-2354)		
26 05 33 13-2367	EA	3/8" Straight Liquid Tight Connector..... For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.10 3.02 3.02	4.02
26 05 33 13-2368	EA	1/2" Straight Liquid Tight Connector..... For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.10 3.02 3.02	4.02
26 05 33 13-2369	EA	3/4" Straight Liquid Tight Connector..... For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.11 3.39 3.39	4.52
26 05 33 13-2370	EA	1" Straight Liquid Tight Connector..... For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.92 3.77 3.77	5.02
26 05 33 13-2371	EA	1-1/4" Straight Liquid Tight Connector..... For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.46 4.15 4.15	5.53

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2372	EA	1-1/2" Straight Liquid Tight Connector.....	37.39	6.03
		For Work In Restricted Working Space, Add	4.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-2373	EA	2" Straight Liquid Tight Connector.....	51.59	7.04
		For Work In Restricted Working Space, Add	5.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-2374	EA	2-1/2" Straight Liquid Tight Connector.....	176.98	9.05
		For Work In Restricted Working Space, Add	6.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 33 13-2375	EA	3" Straight Liquid Tight Connector.....	228.29	9.55
		For Work In Restricted Working Space, Add	7.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-2376	EA	4" Straight Liquid Tight Connector.....	279.31	14.07
		For Work In Restricted Working Space, Add	10.55	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-2377 90 Degree Angle Liquid Tight Connector (26 05 33 13-2354)				
26 05 33 13-2378	EA	3/8" 90 Degree Angle Liquid Tight Connector.....	20.58	5.53
		For Work In Restricted Working Space, Add	4.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	
26 05 33 13-2379	EA	1/2" 90 Degree Angle Liquid Tight Connector.....	21.45	5.53
		For Work In Restricted Working Space, Add	4.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	
26 05 33 13-2380	EA	3/4" 90 Degree Angle Liquid Tight Connector.....	24.25	6.03
		For Work In Restricted Working Space, Add	4.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-2381	EA	1" 90 Degree Angle Liquid Tight Connector.....	34.28	7.04
		For Work In Restricted Working Space, Add	5.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-2382	EA	1-1/4" 90 Degree Angle Liquid Tight Connector.....	43.25	7.54
		For Work In Restricted Working Space, Add	5.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.66	
26 05 33 13-2383	EA	1-1/2" 90 Degree Angle Liquid Tight Connector.....	52.51	8.04
		For Work In Restricted Working Space, Add	6.03	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.03	
26 05 33 13-2384	EA	2" 90 Degree Angle Liquid Tight Connector.....	69.55	9.05
		For Work In Restricted Working Space, Add	6.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 33 13-2385	EA	2-1/2" 90 Degree Angle Liquid Tight Connector.....	247.39	9.55
		For Work In Restricted Working Space, Add	7.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-2386	EA	3" 90 Degree Angle Liquid Tight Connector.....	292.34	11.05
		For Work In Restricted Working Space, Add	8.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.29	
26 05 33 13-2387	EA	4" 90 Degree Angle Liquid Tight Connector.....	404.30	17.59
		For Work In Restricted Working Space, Add	13.19	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.19	
26 05 33 13-2388 45 Degree Angle Connector (26 05 33 13-2354)				
26 05 33 13-2389	EA	3/8" 45 Degree Angle Liquid Tight Connector.....	20.29	5.53
		For Work In Restricted Working Space, Add	4.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	
26 05 33 13-2390	EA	1/2" 45 Degree Angle Liquid Tight Connector.....	20.49	5.53
		For Work In Restricted Working Space, Add	4.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.15	
26 05 33 13-2391	EA	3/4" 45 Degree Angle Liquid Tight Connector.....	24.25	6.03
		For Work In Restricted Working Space, Add	4.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.52	
26 05 33 13-2392	EA	1" 45 Degree Angle Liquid Tight Connector.....	36.66	7.04
		For Work In Restricted Working Space, Add	5.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-2393	EA	1-1/4" 45 Degree Angle Liquid Tight Connector.....	41.71	7.54
		For Work In Restricted Working Space, Add	5.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.66	
26 05 33 13-2394	EA	1-1/2" 45 Degree Angle Liquid Tight Connector.....	46.76	8.04
		For Work In Restricted Working Space, Add	6.03	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.03	
26 05 33 13-2395 Flexible Metallic Conduit And Connectors (26 05 33 13-2353)				
26 05 33 13-2396 Flexible Steel Conduit (26 05 33 13-2395)				
26 05 33 13-2397	LF	3/8" Flexible Metallic Conduit.....	4.86	1.65
		For Flexible Aluminum Conduit, Add	0.14	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.60	
		For Installation In Metal Stud Wall, Add	0.40	
		For Installation In Wood Stud Wall (Includes Drilling), Add	1.01	
		For Work In Restricted Working Space, Add	1.21	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2398	LF	1/2" Flexible Metallic Conduit.....	5.05	1.65
		For Flexible Aluminum Conduit, Add	0.15	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.62	
		For Installation In Metal Stud Wall, Add	0.41	
		For Installation In Wood Stud Wall (Includes Drilling), Add	1.03	
		For Work In Restricted Working Space, Add	1.24	
26 05 33 13-2399	LF	3/4" Flexible Metallic Conduit.....	5.72	2.20
		For Flexible Aluminum Conduit, Add	0.21	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.67	
		For Installation In Metal Stud Wall, Add	0.45	
		For Installation In Wood Stud Wall (Includes Drilling), Add	1.12	
		For Work In Restricted Working Space, Add	1.34	
26 05 33 13-2400	LF	1" Flexible Metallic Conduit.....	7.14	2.20
		For Flexible Aluminum Conduit, Add	0.38	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.72	
		For Installation In Metal Stud Wall, Add	0.48	
		For Installation In Wood Stud Wall (Includes Drilling), Add	1.20	
		For Work In Restricted Working Space, Add	1.44	
26 05 33 13-2401	LF	1-1/4" Flexible Metallic Conduit	8.13	2.76
		For Flexible Aluminum Conduit, Add	0.50	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.76	
		For Installation In Metal Stud Wall, Add	0.51	
		For Installation In Wood Stud Wall (Includes Drilling), Add	1.27	
		For Work In Restricted Working Space, Add	1.53	
26 05 33 13-2402	LF	1-1/2" Flexible Metallic Conduit	10.62	3.30
		For Flexible Aluminum Conduit, Add	0.88	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.79	
		For Installation In Metal Stud Wall, Add	0.53	
		For Installation In Wood Stud Wall (Includes Drilling), Add	1.32	
		For Work In Restricted Working Space, Add	1.59	
26 05 33 13-2403	LF	2" Flexible Metallic Conduit.....	12.04	4.40
		For Flexible Aluminum Conduit, Add	1.08	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.83	
		For Installation In Metal Stud Wall, Add	0.55	
		For Installation In Wood Stud Wall (Includes Drilling), Add	1.38	
		For Work In Restricted Working Space, Add	1.65	
26 05 33 13-2404	LF	2-1/2" Flexible Steel Conduit	14.78	4.95
		For Flexible Aluminum Conduit, Add	1.31	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.03	
		For Installation In Metal Stud Wall, Add	0.69	
		For Installation In Wood Stud Wall (Includes Drilling), Add	1.72	
		For Work In Restricted Working Space, Add	2.06	
26 05 33 13-2405	LF	3" Flexible Metallic Conduit.....	22.00	6.05
		For Flexible Aluminum Conduit, Add	2.27	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.24	
		For Installation In Metal Stud Wall, Add	0.83	
		For Installation In Wood Stud Wall (Includes Drilling), Add	2.07	
		For Work In Restricted Working Space, Add	2.48	
26 05 33 13-2406	LF	3-1/2" Flexible Metallic Conduit	26.95	6.60
		For Flexible Aluminum Conduit, Add	2.86	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.44	
		For Installation In Metal Stud Wall, Add	0.96	
		For Installation In Wood Stud Wall (Includes Drilling), Add	2.41	
		For Work In Restricted Working Space, Add	2.89	
26 05 33 13-2407	LF	4" Flexible Metallic Conduit.....	30.99	7.71
		For Flexible Aluminum Conduit, Add	3.30	
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.65	
		For Installation In Metal Stud Wall, Add	1.10	
		For Installation In Wood Stud Wall (Includes Drilling), Add	2.75	
		For Work In Restricted Working Space, Add	3.30	
26 05 33 13-2408		Plain Squeeze Type Straight Connector (26 05 33 13-2398)		
26 05 33 13-2409	EA	3/8" Flexible Straight Connectors, Plain.....	8.30	4.40
		For Work In Restricted Working Space, Add	1.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.86	
26 05 33 13-2410	EA	1/2" Flexible Straight Connectors, Plain	10.22	4.95
		For Work In Restricted Working Space, Add	2.06	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.06	
26 05 33 13-2411	EA	3/4" Flexible Straight Connectors, Plain.....	11.79	6.05
		For Work In Restricted Working Space, Add	2.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.48	
26 05 33 13-2412	EA	1" Flexible Straight Connectors, Plain.....	18.74	6.60
		For Work In Restricted Working Space, Add	3.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-2413	EA	1-1/4" Flexible Straight Connectors, Plain	26.43	7.71
		For Work In Restricted Working Space, Add	4.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 05 33 13-2414	EA	1-1/2" Flexible Straight Connectors, Plain	34.78	9.35
		For Work In Restricted Working Space, Add	5.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.16	
26 05 33 13-2415	EA	2" Flexible Straight Connectors, Plain.....	45.65	9.35
		For Work In Restricted Working Space, Add	6.19	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.19	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2416	EA	2-1/2" Flexible Straight Connectors, Plain	73.22	11.55
		For Work In Restricted Working Space, Add	7.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.22	
26 05 33 13-2417	EA	3" Flexible Straight Connectors, Plain	95.64	12.65
		For Work In Restricted Working Space, Add	8.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-2418	EA	3-1/2" Flexible Straight Connectors, Plain	294.48	14.85
		For Work In Restricted Working Space, Add	9.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 33 13-2419	EA	4" Flexible Straight Connectors, Plain	367.78	18.16
		For Work In Restricted Working Space, Add	10.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31	
26 05 33 13-2420 Insulated Throat Squeeze Type Straight Connector (26 05 33 13-2395)				
26 05 33 13-2421	EA	1/2" Flexible Straight Connectors, Insulated	11.37	4.95
		For Work In Restricted Working Space, Add	2.06	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.06	
26 05 33 13-2422	EA	3/4" Flexible Straight Connectors, Insulated	13.30	6.05
		For Work In Restricted Working Space, Add	2.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.48	
26 05 33 13-2423	EA	1" Flexible Straight Connectors, Insulated	20.80	6.60
		For Work In Restricted Working Space, Add	3.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-2424	EA	1-1/4" Flexible Straight Connectors, Insulated	30.21	7.71
		For Work In Restricted Working Space, Add	4.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 05 33 13-2425	EA	1-1/2" Flexible Straight Connectors, Insulated	41.51	8.26
		For Work In Restricted Working Space, Add	5.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.16	
26 05 33 13-2426	EA	2" Flexible Straight Connectors, Insulated	57.53	9.35
		For Work In Restricted Working Space, Add	6.19	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.19	
26 05 33 13-2427	EA	2-1/2" Flexible Straight Connectors, Insulated	98.63	11.55
		For Work In Restricted Working Space, Add	7.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.22	
26 05 33 13-2428	EA	3" Flexible Straight Connectors, Insulated	125.60	12.65
		For Work In Restricted Working Space, Add	8.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-2429	EA	3-1/2" Flexible Straight Connectors, Insulated	340.65	14.85
		For Work In Restricted Working Space, Add	9.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 33 13-2430	EA	4" Flexible Straight Connectors, Insulated	437.21	18.16
		For Work In Restricted Working Space, Add	10.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31	
26 05 33 13-2431 Plain Squeeze Type 90 Degree Connector (26 05 33 13-2395)				
26 05 33 13-2432	EA	3/8" Flexible 90 Degree Connector, Plain	11.64	5.50
		For Work In Restricted Working Space, Add	2.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.48	
26 05 33 13-2433	EA	1/2" Flexible 90 Degree Connector, Plain	15.28	6.05
		For Work In Restricted Working Space, Add	2.89	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.89	
26 05 33 13-2434	EA	3/4" Flexible 90 Degree Connector, Plain	19.85	6.60
		For Work In Restricted Working Space, Add	3.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-2435	EA	1" Flexible 90 Degree Connector, Plain	27.73	7.71
		For Work In Restricted Working Space, Add	4.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 05 33 13-2436	EA	1-1/4" Flexible 90 Degree Connector, Plain	43.02	8.26
		For Work In Restricted Working Space, Add	4.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.95	
26 05 33 13-2437	EA	1-1/2" Flexible 90 Degree Connector, Plain	66.98	9.63
		For Work In Restricted Working Space, Add	6.19	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.19	
26 05 33 13-2438	EA	2" Flexible 90 Degree Connector, Plain	80.69	11.82
		For Work In Restricted Working Space, Add	7.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.01	
26 05 33 13-2439	EA	2-1/2" Flexible 90 Degree Connector, Plain	176.89	12.65
		For Work In Restricted Working Space, Add	8.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-2440	EA	3" Flexible 90 Degree Connector, Plain	227.06	14.85
		For Work In Restricted Working Space, Add	9.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 33 13-2441	EA	3-1/2" Flexible 90 Degree Connector, Plain	480.38	18.16
		For Work In Restricted Working Space, Add	10.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31	
26 05 33 13-2442	EA	4" Flexible 90 Degree Connector, Plain	857.39	20.63
		For Work In Restricted Working Space, Add	12.38	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.38	

26 05 33 13-2443 Insulated Throat Squeeze Type 90 Degree Connector (26 05 33 13-2395)



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2444	EA	1/2" Flexible 90 Degree Connector, Insulated	16.88	6.05
		For Work In Restricted Working Space, Add	2.89	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.89	
26 05 33 13-2445	EA	3/4" Flexible 90 Degree Connector, Insulated	21.82	6.60
		For Work In Restricted Working Space, Add	3.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-2446	EA	1" Flexible 90 Degree Connector, Insulated	27.73	7.71
		For Work In Restricted Working Space, Add	4.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 05 33 13-2447	EA	1-1/4" Flexible 90 Degree Connector, Insulated	50.03	8.26
		For Work In Restricted Working Space, Add	4.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.95	
26 05 33 13-2448	EA	1-1/2" Flexible 90 Degree Connector, Insulated	79.71	9.63
		For Work In Restricted Working Space, Add	6.19	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.19	
26 05 33 13-2449	EA	2" Flexible 90 Degree Connector, Insulated	101.39	11.82
		For Work In Restricted Working Space, Add	7.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.01	
26 05 33 13-2450	EA	2-1/2" Flexible 90 Degree Connector, Insulated	241.59	12.65
		For Work In Restricted Working Space, Add	8.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-2451	EA	3" Flexible 90 Degree Connector, Insulated	297.16	14.85
		For Work In Restricted Working Space, Add	9.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 33 13-2452	EA	3-1/2" Flexible 90 Degree Connector, Insulated	798.09	18.16
		For Work In Restricted Working Space, Add	10.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31	
26 05 33 13-2453	EA	4" Flexible 90 Degree Connector, Insulated	1,190.15	20.63
		For Work In Restricted Working Space, Add	12.38	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.38	
26 05 33 13-2454 Plain Squeeze Type 45 Degree Connector (26 05 33 13-2395)				
26 05 33 13-2455	EA	3/8" Flexible 45 Degree Connector, Plain	12.93	5.50
		For Work In Restricted Working Space, Add	2.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.48	
26 05 33 13-2456	EA	1/2" Flexible 45 Degree Connector, Plain	17.35	6.05
		For Work In Restricted Working Space, Add	2.89	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.89	
26 05 33 13-2457	EA	3/4" Flexible 45 Degree Connector, Plain	22.16	6.60
		For Work In Restricted Working Space, Add	3.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-2458 Insulated Squeeze Type 45 Degree Connector (26 05 33 13-2395)				
26 05 33 13-2459	EA	3/8" Flexible 45 Degree Connector, Insulated	13.82	6.60
		For Work In Restricted Working Space, Add	2.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.48	
26 05 33 13-2460	EA	1/2" Flexible 45 Degree Connector, Insulated	18.81	6.05
		For Work In Restricted Working Space, Add	2.89	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.89	
26 05 33 13-2461	EA	3/4" Flexible 45 Degree Connector, Insulated	24.23	6.60
		For Work In Restricted Working Space, Add	3.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-2462 Plain Screw-In Connector (26 05 33 13-2395)				
26 05 33 13-2463	EA	3/8" Flexible Steel Screw-in Connector, Plain	6.97	4.40
		For Work In Restricted Working Space, Add	1.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.86	
26 05 33 13-2464	EA	1/2" Flexible Steel Screw-in Connector, Plain	7.52	4.95
		For Work In Restricted Working Space, Add	2.06	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.06	
26 05 33 13-2465	EA	3/4" Flexible Steel Screw-in Connector, Plain	9.57	6.05
		For Work In Restricted Working Space, Add	2.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.48	
26 05 33 13-2466	EA	1" Flexible Steel Screw-in Connector, Plain	13.64	6.60
		For Work In Restricted Working Space, Add	3.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-2467	EA	1-1/4" Flexible Steel Screw-in Connector, Plain	19.94	7.71
		For Work In Restricted Working Space, Add	4.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 05 33 13-2468	EA	1-1/2" Flexible Steel Screw-in Connector, Plain	24.39	8.26
		For Work In Restricted Working Space, Add	5.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.16	
26 05 33 13-2469	EA	2" Flexible Steel Screw-in Connector, Plain	35.57	9.35
		For Work In Restricted Working Space, Add	6.19	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.19	
26 05 33 13-2470 Insulated Screw-In Connector (26 05 33 13-2395)				
26 05 33 13-2471	EA	3/8" Flexible Steel Screw-in Connector, Insulated	7.35	4.40
		For Work In Restricted Working Space, Add	1.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.86	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2472	EA	1/2" Flexible Steel Screw-in Connector, Insulated	7.82	4.95
		<i>For Work In Restricted Working Space, Add</i>	2.06	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.06	
26 05 33 13-2473	EA	3/4" Flexible Steel Screw-in Connector, Insulated	10.36	6.05
		<i>For Work In Restricted Working Space, Add</i>	2.48	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.48	
26 05 33 13-2474	EA	1" Flexible Steel Screw-in Connector, Insulated	14.84	6.60
		<i>For Work In Restricted Working Space, Add</i>	3.30	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.30	
26 05 33 13-2475	EA	1-1/4" Flexible Steel Screw-in Connector, Insulated	21.64	7.71
		<i>For Work In Restricted Working Space, Add</i>	4.13	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-2476	EA	1-1/2" Flexible Steel Screw-in Connector, Insulated	26.43	8.26
		<i>For Work In Restricted Working Space, Add</i>	5.16	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.16	
26 05 33 13-2477	EA	2" Flexible Steel Screw-in Connector, Insulated	37.37	9.35
		<i>For Work In Restricted Working Space, Add</i>	6.19	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.19	
26 05 33 13-2478 Screw-In Coupling (26 05 33 13-2395)				
26 05 33 13-2479	EA	1/2" Flexible Steel Screw-in Coupling	8.27	4.95
		<i>For Work In Restricted Working Space, Add</i>	2.06	
26 05 33 13-2480	EA	3/4" Flexible Steel Screw-in Coupling	10.81	6.05
		<i>For Work In Restricted Working Space, Add</i>	2.48	
26 05 33 13-2481 Flexible To Electrical Metallic Tubing (EMT) Coupling (26 05 33 13-2395)				
26 05 33 13-2482	EA	3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	10.94	4.40
		<i>For Work In Restricted Working Space, Add</i>	1.86	
26 05 33 13-2483	EA	1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	14.79	4.95
		<i>For Work In Restricted Working Space, Add</i>	2.06	
26 05 33 13-2484	EA	3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	19.52	6.05
		<i>For Work In Restricted Working Space, Add</i>	2.48	
26 05 33 13-2485 Die Cast Squeeze Type Straight Connector (26 05 33 13-2395)				
26 05 33 13-2486	EA	3/8" Flexible Straight Connector, Die Cast	7.21	4.40
		<i>For Work In Restricted Working Space, Add</i>	1.86	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.86	
26 05 33 13-2487	EA	1/2" Flexible Straight Connector, Die Cast	8.14	4.95
		<i>For Work In Restricted Working Space, Add</i>	2.06	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.06	
26 05 33 13-2488	EA	3/4" Flexible Straight Connector, Die Cast	10.10	6.05
		<i>For Work In Restricted Working Space, Add</i>	2.48	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.48	
26 05 33 13-2489	EA	1" Flexible Straight Connector, Die Cast	15.11	6.60
		<i>For Work In Restricted Working Space, Add</i>	3.30	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.30	
26 05 33 13-2490	EA	1-1/4" Flexible Straight Connector, Die Cast	20.30	7.71
		<i>For Work In Restricted Working Space, Add</i>	4.13	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-2491	EA	1-1/2" Flexible Straight Connector, Die Cast	27.46	8.26
		<i>For Work In Restricted Working Space, Add</i>	5.16	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.16	
26 05 33 13-2492	EA	2" Flexible Straight Connector, Die Cast	35.40	9.35
		<i>For Work In Restricted Working Space, Add</i>	6.19	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.19	
26 05 33 13-2493 Die Cast Squeeze Type 90 Degree Connector (26 05 33 13-2395)				
26 05 33 13-2494	EA	3/8" Flexible 90 Degree Connector, Die Cast	9.56	5.50
		<i>For Work In Restricted Working Space, Add</i>	2.48	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.48	
26 05 33 13-2495	EA	1/2" Flexible 90 Degree Connector, Die Cast	11.81	6.05
		<i>For Work In Restricted Working Space, Add</i>	2.89	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.89	
26 05 33 13-2496	EA	3/4" Flexible 90 Degree Connector, Die Cast	14.28	6.60
		<i>For Work In Restricted Working Space, Add</i>	3.30	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.30	
26 05 33 13-2497	EA	1" Flexible 90 Degree Connector, Die Cast	22.43	7.71
		<i>For Work In Restricted Working Space, Add</i>	4.13	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-2498	EA	1-1/4" Flexible 90 Degree Connector, Die Cast	31.64	8.26
		<i>For Work In Restricted Working Space, Add</i>	4.95	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.95	
26 05 33 13-2499	EA	1-1/2" Flexible 90 Degree Connector, Die Cast	48.88	9.63
		<i>For Work In Restricted Working Space, Add</i>	6.19	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.19	
26 05 33 13-2500	EA	2" Flexible 90 Degree Connector, Die Cast	58.37	11.82
		<i>For Work In Restricted Working Space, Add</i>	7.01	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2501 Flexible Liquid Tight Non-Metallic Conduit And Connectors (26 05 33 13-2353)		
26 05 33 13-2502 Flexible Liquid Tight Non-Metallic Conduit (26 05 33 13-2501)		
26 05 33 13-2503 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit For Work In Restricted Working Space, Add	4.73 1.13	1.50
26 05 33 13-2504 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit For Work In Restricted Working Space, Add	4.81 1.13	1.50
26 05 33 13-2505 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit For Work In Restricted Working Space, Add	6.46 1.51	2.01
26 05 33 13-2506 LF 1" Flexible Liquid Tight Non-Metallic Conduit For Work In Restricted Working Space, Add	7.92 1.51	2.01
26 05 33 13-2507 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit For Work In Restricted Working Space, Add	10.06 1.88	2.52
26 05 33 13-2508 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit For Work In Restricted Working Space, Add	12.79 2.26	3.02
26 05 33 13-2509 LF 2" Flexible Liquid Tight Non-Metallic Conduit For Work In Restricted Working Space, Add	16.45 3.02	4.02
26 05 33 13-2510 Liquid Tight Non-Metallic Straight Connector (26 05 33 13-2501)		
26 05 33 13-2511 EA 3/8" Liquid Tight Non-Metallic Straight Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.58 3.02 3.02	4.02
26 05 33 13-2512 EA 1/2" Liquid Tight Non-Metallic Straight Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.58 3.02 3.02	4.02
26 05 33 13-2513 EA 3/4" Liquid Tight Non-Metallic Straight Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.54 3.39 3.39	4.52
26 05 33 13-2514 EA 1" Liquid Tight Non-Metallic Straight Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.42 3.77 3.77	5.02
26 05 33 13-2515 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.91 4.15 4.15	5.53
26 05 33 13-2516 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.69 4.52 4.52	6.03
26 05 33 13-2517 EA 2" Liquid Tight Non-Metallic Straight Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.57 5.28 5.28	7.04
26 05 33 13-2518 Liquid Tight Non-Metallic 90 Degree Angle Connector (26 05 33 13-2501)		
26 05 33 13-2519 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57 4.15 4.15	5.53
26 05 33 13-2520 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57 4.15 4.15	5.53
26 05 33 13-2521 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.91 4.52 4.52	6.03
26 05 33 13-2522 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.54 5.28 5.28	7.04
26 05 33 13-2523 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.72 5.66 5.66	7.54
26 05 33 13-2524 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.14 6.03 6.03	8.04
26 05 33 13-2525 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.42 6.79 6.79	9.05
26 05 33 13-2526 Liquid Tight Non-Metallic 45 Degree Angle Connector (26 05 33 13-2501)		
26 05 33 13-2527 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57 4.15 4.15	5.53
26 05 33 13-2528 EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57 4.15 4.15	5.53
26 05 33 13-2529 EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.91 4.52 4.52	6.03
26 05 33 13-2530 EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.54 5.28 5.28	7.04
26 05 33 13-2531 EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.72 5.66 5.66	7.54

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2532 EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	54.14	8.04
For Work In Restricted Working Space, Add	6.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.03	
26 05 33 13-2533 EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	72.42	9.05
For Work In Restricted Working Space, Add	6.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 33 13-2534 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-2533)		
Note: Carlon - FLEX-PLUS.		
26 05 33 13-2535 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-2534)		
26 05 33 13-2536 LF 1/2" Blue ENT Electrical Non-Metallic Tubing.....	5.79	1.65
For Work In Restricted Working Space, Add	1.24	
26 05 33 13-2537 LF 3/4" Blue ENT Electrical Non-Metallic Tubing.....	7.82	2.20
For Work In Restricted Working Space, Add	1.65	
26 05 33 13-2538 LF 1" Blue ENT Electrical Non-Metallic Tubing.....	9.24	2.20
For Work In Restricted Working Space, Add	1.65	
26 05 33 13-2539 Terminal Adapter (26 05 33 13-2534)		
26 05 33 13-2540 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	13.73	4.40
For Work In Restricted Working Space, Add	3.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-2541 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	17.36	4.95
For Work In Restricted Working Space, Add	3.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
26 05 33 13-2542 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	20.18	5.50
For Work In Restricted Working Space, Add	4.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 05 33 13-2543 Coupling (26 05 33 13-2534)		
26 05 33 13-2544 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	13.38	4.40
For Work In Restricted Working Space, Add	3.30	
26 05 33 13-2545 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	15.46	4.95
For Work In Restricted Working Space, Add	3.71	
26 05 33 13-2546 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	18.39	5.50
For Work In Restricted Working Space, Add	4.13	
26 05 33 13-2547 Metallic Conduit Bodies (26 05 33 13-0058)		
26 05 33 13-2548 Threaded, Cast Aluminum Conduit Body (26 05 33 13-2547)		
Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), Intermediate Metal Conduit (IMC), or Aluminum Rigid Conduit (ARC)		
26 05 33 13-2549 Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2548)		
26 05 33 13-2550 EA 1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	70.95	24.12
For Mogul LB, Add	4.96	
For Work In Restricted Working Space, Add	18.10	
For Elevated Installation >10' To 15' Above Floor, Add	6.03	
For Elevated Installation >15' To 20' Above Floor, Add	12.06	
For Elevated Installation >20' To 25' Above Floor, Add	15.08	
For Elevated Installation >25' To 30' Above Floor, Add	21.11	
For Elevated Installation >30' To 35' Above Floor, Add	24.13	
For Elevated Installation >35' To 40' Above Floor, Add	30.16	
For Elevated Installation >40' Above Floor, Add	33.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.10	
26 05 33 13-2551 EA 3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	83.55	27.64
For Mogul LB, Add	7.37	
For Work In Restricted Working Space, Add	20.73	
For Elevated Installation >10' To 15' Above Floor, Add	6.91	
For Elevated Installation >15' To 20' Above Floor, Add	13.82	
For Elevated Installation >20' To 25' Above Floor, Add	17.28	
For Elevated Installation >25' To 30' Above Floor, Add	24.19	
For Elevated Installation >30' To 35' Above Floor, Add	27.64	
For Elevated Installation >35' To 40' Above Floor, Add	34.56	
For Elevated Installation >40' Above Floor, Add	38.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.73	
26 05 33 13-2552 EA 1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	100.98	32.17
For Mogul LB, Add	11.40	
For Work In Restricted Working Space, Add	24.13	
For Elevated Installation >10' To 15' Above Floor, Add	8.04	
For Elevated Installation >15' To 20' Above Floor, Add	16.08	
For Elevated Installation >20' To 25' Above Floor, Add	20.11	
For Elevated Installation >25' To 30' Above Floor, Add	28.15	
For Elevated Installation >30' To 35' Above Floor, Add	32.17	
For Elevated Installation >35' To 40' Above Floor, Add	40.21	
For Elevated Installation >40' Above Floor, Add	44.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.13	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2553	EA	1-1/4"	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	122.43 18.44 27.52 9.17 18.35 22.93 32.11 36.69 45.87 50.45 27.52	36.69
26 05 33 13-2554	EA	1-1/2"	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	140.13 24.68 30.16 10.05 20.10 25.13 35.18 40.21 50.26 55.29 30.16	40.21
26 05 33 13-2555	EA	2"	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	184.60 41.95 36.19 12.06 24.13 30.16 42.22 48.25 60.32 66.35 36.19	48.25
26 05 33 13-2556	EA	2-1/2"	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	311.21 97.70 50.89 16.96 33.93 42.41 59.37 67.85 84.82 93.30 50.89	67.85
26 05 33 13-2557	EA	3"	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	408.99 125.80 67.85 22.62 45.24 56.55 79.16 90.47 113.09 124.40 67.85	90.47
26 05 33 13-2558	EA	3-1/2"	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	544.17 181.95 84.82 28.27 56.54 70.68 98.95 113.09 141.36 155.50 84.82	113.09
26 05 33 13-2559	EA	4"	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	707.59 255.26 103.29 34.43 68.86 86.07 120.50 137.72 172.15 189.36 103.29	137.72

26 05 33 13-2560 Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With
Cover (26 05 33 13-2548)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 13-2561	EA	1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	72.25		24.12
		For Mogul LB, Add	5.93		
		For Work In Restricted Working Space, Add	18.10		
		For Elevated Installation >10' To 15' Above Floor, Add	6.03		
		For Elevated Installation >15' To 20' Above Floor, Add	12.06		
		For Elevated Installation >20' To 25' Above Floor, Add	15.08		
		For Elevated Installation >25' To 30' Above Floor, Add	21.11		
		For Elevated Installation >30' To 35' Above Floor, Add	24.13		
		For Elevated Installation >35' To 40' Above Floor, Add	30.16		
		For Elevated Installation >40' Above Floor, Add	33.18		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.10		
26 05 33 13-2562	EA	3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	84.81		27.64
		For Mogul LB, Add	8.32		
		For Work In Restricted Working Space, Add	20.73		
		For Elevated Installation >10' To 15' Above Floor, Add	6.91		
		For Elevated Installation >15' To 20' Above Floor, Add	13.82		
		For Elevated Installation >20' To 25' Above Floor, Add	17.28		
		For Elevated Installation >25' To 30' Above Floor, Add	24.19		
		For Elevated Installation >30' To 35' Above Floor, Add	27.64		
		For Elevated Installation >35' To 40' Above Floor, Add	34.56		
		For Elevated Installation >40' Above Floor, Add	38.01		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.73		
26 05 33 13-2563	EA	1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	103.52		32.17
		For Mogul LB, Add	13.30		
		For Work In Restricted Working Space, Add	24.13		
		For Elevated Installation >10' To 15' Above Floor, Add	8.04		
		For Elevated Installation >15' To 20' Above Floor, Add	16.08		
		For Elevated Installation >20' To 25' Above Floor, Add	20.11		
		For Elevated Installation >25' To 30' Above Floor, Add	28.15		
		For Elevated Installation >30' To 35' Above Floor, Add	32.17		
		For Elevated Installation >35' To 40' Above Floor, Add	40.21		
		For Elevated Installation >40' Above Floor, Add	44.23		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.13		
26 05 33 13-2564	EA	1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	125.53		36.69
		For Mogul LB, Add	20.76		
		For Work In Restricted Working Space, Add	27.52		
		For Elevated Installation >10' To 15' Above Floor, Add	9.17		
		For Elevated Installation >15' To 20' Above Floor, Add	18.35		
		For Elevated Installation >20' To 25' Above Floor, Add	22.93		
		For Elevated Installation >25' To 30' Above Floor, Add	32.11		
		For Elevated Installation >30' To 35' Above Floor, Add	36.69		
		For Elevated Installation >35' To 40' Above Floor, Add	45.87		
		For Elevated Installation >40' Above Floor, Add	50.45		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.52		
26 05 33 13-2565	EA	1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	145.40		40.21
		For Mogul LB, Add	28.63		
		For Work In Restricted Working Space, Add	30.16		
		For Elevated Installation >10' To 15' Above Floor, Add	10.05		
		For Elevated Installation >15' To 20' Above Floor, Add	20.10		
		For Elevated Installation >20' To 25' Above Floor, Add	25.13		
		For Elevated Installation >25' To 30' Above Floor, Add	35.18		
		For Elevated Installation >30' To 35' Above Floor, Add	40.21		
		For Elevated Installation >35' To 40' Above Floor, Add	50.26		
		For Elevated Installation >40' Above Floor, Add	55.29		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.16		
26 05 33 13-2566	EA	2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	195.91		48.25
		For Mogul LB, Add	50.43		
		For Work In Restricted Working Space, Add	36.19		
		For Elevated Installation >10' To 15' Above Floor, Add	12.06		
		For Elevated Installation >15' To 20' Above Floor, Add	24.13		
		For Elevated Installation >20' To 25' Above Floor, Add	30.16		
		For Elevated Installation >25' To 30' Above Floor, Add	42.22		
		For Elevated Installation >30' To 35' Above Floor, Add	48.25		
		For Elevated Installation >35' To 40' Above Floor, Add	60.32		
		For Elevated Installation >40' Above Floor, Add	66.35		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.19		
26 05 33 13-2567	EA	2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	305.51		67.85
		For Mogul LB, Add	93.43		
		For Work In Restricted Working Space, Add	50.89		
		For Elevated Installation >10' To 15' Above Floor, Add	16.96		
		For Elevated Installation >15' To 20' Above Floor, Add	33.93		
		For Elevated Installation >20' To 25' Above Floor, Add	42.41		
		For Elevated Installation >25' To 30' Above Floor, Add	59.37		
		For Elevated Installation >30' To 35' Above Floor, Add	67.85		
		For Elevated Installation >35' To 40' Above Floor, Add	84.82		
		For Elevated Installation >40' Above Floor, Add	93.30		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.89		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2568	EA	3"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	389.80 111.41 67.85 22.62 45.24 56.55 79.16 90.47 113.09 124.40 67.85	90.47
26 05 33 13-2569	EA	3-1/2"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	560.52 194.21 84.82 28.27 56.54 70.68 98.95 113.09 141.36 155.50 84.82	113.09
26 05 33 13-2570	EA	4"	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	741.02 280.33 103.29 34.43 68.86 86.07 120.50 137.72 172.15 189.36 103.29	137.72
26 05 33 13-2571			Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2548)		
26 05 33 13-2572	EA	1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.21 20.73 6.91 13.82 17.28 24.19 27.64 34.56 38.01 20.73	27.64
26 05 33 13-2573	EA	3/4"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.57 24.13 8.04 16.08 20.11 28.15 32.17 40.21 44.23 24.13	32.17
26 05 33 13-2574	EA	1"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.65 26.39 8.80 17.59 21.99 30.79 35.18 43.98 48.38 26.39	35.18
26 05 33 13-2575	EA	1-1/4"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.46 30.16 10.05 20.10 25.13 35.18 40.21 50.26 55.29 30.16	40.21
26 05 33 13-2576	EA	1-1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	161.19 33.17 11.06 22.12 27.65 38.70 44.23 55.29 60.82 33.17	44.23

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2577 EA 2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	215.98	51.77
For Work In Restricted Working Space, Add	38.83	
For Elevated Installation >10' To 15' Above Floor, Add	12.94	
For Elevated Installation >15' To 20' Above Floor, Add	25.88	
For Elevated Installation >20' To 25' Above Floor, Add	32.36	
For Elevated Installation >25' To 30' Above Floor, Add	45.30	
For Elevated Installation >30' To 35' Above Floor, Add	51.77	
For Elevated Installation >35' To 40' Above Floor, Add	64.71	
For Elevated Installation >40' Above Floor, Add	71.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.83	
26 05 33 13-2578 EA 2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	341.43	75.39
For Work In Restricted Working Space, Add	56.54	
For Elevated Installation >10' To 15' Above Floor, Add	18.85	
For Elevated Installation >15' To 20' Above Floor, Add	37.70	
For Elevated Installation >20' To 25' Above Floor, Add	47.12	
For Elevated Installation >25' To 30' Above Floor, Add	65.97	
For Elevated Installation >30' To 35' Above Floor, Add	75.39	
For Elevated Installation >35' To 40' Above Floor, Add	94.24	
For Elevated Installation >40' Above Floor, Add	103.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.54	
26 05 33 13-2579 EA 3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	441.10	98.01
For Work In Restricted Working Space, Add	73.51	
For Elevated Installation >10' To 15' Above Floor, Add	24.50	
For Elevated Installation >15' To 20' Above Floor, Add	49.01	
For Elevated Installation >20' To 25' Above Floor, Add	61.26	
For Elevated Installation >25' To 30' Above Floor, Add	85.76	
For Elevated Installation >30' To 35' Above Floor, Add	98.01	
For Elevated Installation >35' To 40' Above Floor, Add	122.52	
For Elevated Installation >40' Above Floor, Add	134.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.51	
26 05 33 13-2580 EA 3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	708.81	120.63
For Work In Restricted Working Space, Add	90.47	
For Elevated Installation >10' To 15' Above Floor, Add	30.16	
For Elevated Installation >15' To 20' Above Floor, Add	60.31	
For Elevated Installation >20' To 25' Above Floor, Add	75.39	
For Elevated Installation >25' To 30' Above Floor, Add	105.55	
For Elevated Installation >30' To 35' Above Floor, Add	120.63	
For Elevated Installation >35' To 40' Above Floor, Add	150.79	
For Elevated Installation >40' Above Floor, Add	165.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.47	
26 05 33 13-2581 EA 4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	811.52	145.26
For Work In Restricted Working Space, Add	108.94	
For Elevated Installation >10' To 15' Above Floor, Add	36.31	
For Elevated Installation >15' To 20' Above Floor, Add	72.63	
For Elevated Installation >20' To 25' Above Floor, Add	90.79	
For Elevated Installation >25' To 30' Above Floor, Add	127.10	
For Elevated Installation >30' To 35' Above Floor, Add	145.26	
For Elevated Installation >35' To 40' Above Floor, Add	181.57	
For Elevated Installation >40' Above Floor, Add	199.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.94	
26 05 33 13-2582 Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33		
13-2548)		
26 05 33 13-2583 EA 1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	72.51	24.12
For Work In Restricted Working Space, Add	18.10	
For Elevated Installation >10' To 15' Above Floor, Add	6.03	
For Elevated Installation >15' To 20' Above Floor, Add	12.06	
For Elevated Installation >20' To 25' Above Floor, Add	15.08	
For Elevated Installation >25' To 30' Above Floor, Add	21.11	
For Elevated Installation >30' To 35' Above Floor, Add	24.13	
For Elevated Installation >35' To 40' Above Floor, Add	30.16	
For Elevated Installation >40' Above Floor, Add	33.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.10	
26 05 33 13-2584 EA 3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	83.92	27.64
For Work In Restricted Working Space, Add	20.73	
For Elevated Installation >10' To 15' Above Floor, Add	6.91	
For Elevated Installation >15' To 20' Above Floor, Add	13.82	
For Elevated Installation >20' To 25' Above Floor, Add	17.28	
For Elevated Installation >25' To 30' Above Floor, Add	24.19	
For Elevated Installation >30' To 35' Above Floor, Add	27.64	
For Elevated Installation >35' To 40' Above Floor, Add	34.56	
For Elevated Installation >40' Above Floor, Add	38.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.73	
26 05 33 13-2585 EA 1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	101.24	31.66
For Work In Restricted Working Space, Add	23.75	
For Elevated Installation >10' To 15' Above Floor, Add	7.92	
For Elevated Installation >15' To 20' Above Floor, Add	15.83	
For Elevated Installation >20' To 25' Above Floor, Add	19.79	
For Elevated Installation >25' To 30' Above Floor, Add	27.71	
For Elevated Installation >30' To 35' Above Floor, Add	31.67	
For Elevated Installation >35' To 40' Above Floor, Add	39.59	
For Elevated Installation >40' Above Floor, Add	43.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2586	EA	1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	124.29	36.69
			For Work In Restricted Working Space, Add	27.52	
			For Elevated Installation >10' To 15' Above Floor, Add	9.17	
			For Elevated Installation >15' To 20' Above Floor, Add	18.35	
			For Elevated Installation >20' To 25' Above Floor, Add	22.93	
			For Elevated Installation >25' To 30' Above Floor, Add	32.11	
			For Elevated Installation >30' To 35' Above Floor, Add	36.69	
			For Elevated Installation >35' To 40' Above Floor, Add	45.87	
			For Elevated Installation >40' Above Floor, Add	50.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.52	
26 05 33	13-2587	EA	1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	139.26	40.21
			For Work In Restricted Working Space, Add	30.16	
			For Elevated Installation >10' To 15' Above Floor, Add	10.05	
			For Elevated Installation >15' To 20' Above Floor, Add	20.10	
			For Elevated Installation >20' To 25' Above Floor, Add	25.13	
			For Elevated Installation >25' To 30' Above Floor, Add	35.18	
			For Elevated Installation >30' To 35' Above Floor, Add	40.21	
			For Elevated Installation >35' To 40' Above Floor, Add	50.26	
			For Elevated Installation >40' Above Floor, Add	55.29	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.16	
26 05 33	13-2588	EA	2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	184.69	48.25
			For Work In Restricted Working Space, Add	36.19	
			For Elevated Installation >10' To 15' Above Floor, Add	12.06	
			For Elevated Installation >15' To 20' Above Floor, Add	24.13	
			For Elevated Installation >20' To 25' Above Floor, Add	30.16	
			For Elevated Installation >25' To 30' Above Floor, Add	42.22	
			For Elevated Installation >30' To 35' Above Floor, Add	48.25	
			For Elevated Installation >35' To 40' Above Floor, Add	60.32	
			For Elevated Installation >40' Above Floor, Add	66.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.19	
26 05 33	13-2589	EA	2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	300.70	67.85
			For Work In Restricted Working Space, Add	50.89	
			For Elevated Installation >10' To 15' Above Floor, Add	16.96	
			For Elevated Installation >15' To 20' Above Floor, Add	33.93	
			For Elevated Installation >20' To 25' Above Floor, Add	42.41	
			For Elevated Installation >25' To 30' Above Floor, Add	59.37	
			For Elevated Installation >30' To 35' Above Floor, Add	67.85	
			For Elevated Installation >35' To 40' Above Floor, Add	84.82	
			For Elevated Installation >40' Above Floor, Add	93.30	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.89	
26 05 33	13-2590	EA	3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	386.73	90.47
			For Work In Restricted Working Space, Add	67.85	
			For Elevated Installation >10' To 15' Above Floor, Add	22.62	
			For Elevated Installation >15' To 20' Above Floor, Add	45.24	
			For Elevated Installation >20' To 25' Above Floor, Add	56.55	
			For Elevated Installation >25' To 30' Above Floor, Add	79.16	
			For Elevated Installation >30' To 35' Above Floor, Add	90.47	
			For Elevated Installation >35' To 40' Above Floor, Add	113.09	
			For Elevated Installation >40' Above Floor, Add	124.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.85	
26 05 33	13-2591	EA	3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	550.69	113.09
			For Work In Restricted Working Space, Add	84.82	
			For Elevated Installation >10' To 15' Above Floor, Add	28.27	
			For Elevated Installation >15' To 20' Above Floor, Add	56.54	
			For Elevated Installation >20' To 25' Above Floor, Add	70.68	
			For Elevated Installation >25' To 30' Above Floor, Add	98.95	
			For Elevated Installation >30' To 35' Above Floor, Add	113.09	
			For Elevated Installation >35' To 40' Above Floor, Add	141.36	
			For Elevated Installation >40' Above Floor, Add	155.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.82	
26 05 33	13-2592	EA	4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	710.66	137.72
			For Work In Restricted Working Space, Add	103.29	
			For Elevated Installation >10' To 15' Above Floor, Add	34.43	
			For Elevated Installation >15' To 20' Above Floor, Add	68.86	
			For Elevated Installation >20' To 25' Above Floor, Add	86.07	
			For Elevated Installation >25' To 30' Above Floor, Add	120.50	
			For Elevated Installation >30' To 35' Above Floor, Add	137.72	
			For Elevated Installation >35' To 40' Above Floor, Add	172.15	
			For Elevated Installation >40' Above Floor, Add	189.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.29	
26 05 33	13-2593		Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover (26 05 33		
			13-2548)		
26 05 33	13-2594	EA	1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	96.48	31.66
			For Work In Restricted Working Space, Add	23.75	
			For Elevated Installation >10' To 15' Above Floor, Add	7.92	
			For Elevated Installation >15' To 20' Above Floor, Add	15.83	
			For Elevated Installation >20' To 25' Above Floor, Add	19.79	
			For Elevated Installation >25' To 30' Above Floor, Add	27.71	
			For Elevated Installation >30' To 35' Above Floor, Add	31.67	
			For Elevated Installation >35' To 40' Above Floor, Add	39.59	
			For Elevated Installation >40' Above Floor, Add	43.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.75	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2595	EA	3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	111.37	35.18	
		For Work In Restricted Working Space, Add	26.39		
		For Elevated Installation >10' To 15' Above Floor, Add	8.80		
		For Elevated Installation >15' To 20' Above Floor, Add	17.59		
		For Elevated Installation >20' To 25' Above Floor, Add	21.99		
		For Elevated Installation >25' To 30' Above Floor, Add	30.79		
		For Elevated Installation >30' To 35' Above Floor, Add	35.18		
		For Elevated Installation >35' To 40' Above Floor, Add	43.98		
		For Elevated Installation >40' Above Floor, Add	48.38		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.39		
26 05 33 13-2596	EA	1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	136.37	38.71	
		For Work In Restricted Working Space, Add	29.03		
		For Elevated Installation >10' To 15' Above Floor, Add	9.68		
		For Elevated Installation >15' To 20' Above Floor, Add	19.35		
		For Elevated Installation >20' To 25' Above Floor, Add	24.19		
		For Elevated Installation >25' To 30' Above Floor, Add	33.87		
		For Elevated Installation >30' To 35' Above Floor, Add	38.70		
		For Elevated Installation >35' To 40' Above Floor, Add	48.38		
		For Elevated Installation >40' Above Floor, Add	53.22		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.03		
26 05 33 13-2597	EA	1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	157.21	44.23	
		For Work In Restricted Working Space, Add	33.17		
		For Elevated Installation >10' To 15' Above Floor, Add	11.06		
		For Elevated Installation >15' To 20' Above Floor, Add	22.12		
		For Elevated Installation >20' To 25' Above Floor, Add	27.65		
		For Elevated Installation >25' To 30' Above Floor, Add	38.70		
		For Elevated Installation >30' To 35' Above Floor, Add	44.23		
		For Elevated Installation >35' To 40' Above Floor, Add	55.29		
		For Elevated Installation >40' Above Floor, Add	60.82		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.17		
26 05 33 13-2598	EA	1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	202.31	48.25	
		For Work In Restricted Working Space, Add	36.19		
		For Elevated Installation >10' To 15' Above Floor, Add	12.06		
		For Elevated Installation >15' To 20' Above Floor, Add	24.13		
		For Elevated Installation >20' To 25' Above Floor, Add	30.16		
		For Elevated Installation >25' To 30' Above Floor, Add	42.22		
		For Elevated Installation >30' To 35' Above Floor, Add	48.25		
		For Elevated Installation >35' To 40' Above Floor, Add	60.32		
		For Elevated Installation >40' Above Floor, Add	66.35		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.19		
26 05 33 13-2599	EA	2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	244.59	59.31	
		For Work In Restricted Working Space, Add	44.48		
		For Elevated Installation >10' To 15' Above Floor, Add	14.83		
		For Elevated Installation >15' To 20' Above Floor, Add	29.65		
		For Elevated Installation >20' To 25' Above Floor, Add	37.07		
		For Elevated Installation >25' To 30' Above Floor, Add	51.89		
		For Elevated Installation >30' To 35' Above Floor, Add	59.31		
		For Elevated Installation >35' To 40' Above Floor, Add	74.14		
		For Elevated Installation >40' Above Floor, Add	81.55		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.48		
26 05 33 13-2600	EA	2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	456.37	86.95	
		For Work In Restricted Working Space, Add	65.22		
		For Elevated Installation >10' To 15' Above Floor, Add	21.74		
		For Elevated Installation >15' To 20' Above Floor, Add	43.48		
		For Elevated Installation >20' To 25' Above Floor, Add	54.35		
		For Elevated Installation >25' To 30' Above Floor, Add	76.09		
		For Elevated Installation >30' To 35' Above Floor, Add	86.96		
		For Elevated Installation >35' To 40' Above Floor, Add	108.70		
		For Elevated Installation >40' Above Floor, Add	119.56		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.22		
26 05 33 13-2601	EA	3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	562.68	113.09	
		For Work In Restricted Working Space, Add	84.82		
		For Elevated Installation >10' To 15' Above Floor, Add	28.27		
		For Elevated Installation >15' To 20' Above Floor, Add	56.54		
		For Elevated Installation >20' To 25' Above Floor, Add	70.68		
		For Elevated Installation >25' To 30' Above Floor, Add	98.95		
		For Elevated Installation >30' To 35' Above Floor, Add	113.09		
		For Elevated Installation >35' To 40' Above Floor, Add	141.36		
		For Elevated Installation >40' Above Floor, Add	155.50		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.82		
26 05 33 13-2602	EA	3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	803.35	139.73	
		For Work In Restricted Working Space, Add	105.55		
		For Elevated Installation >10' To 15' Above Floor, Add	35.18		
		For Elevated Installation >15' To 20' Above Floor, Add	70.37		
		For Elevated Installation >20' To 25' Above Floor, Add	87.96		
		For Elevated Installation >25' To 30' Above Floor, Add	123.14		
		For Elevated Installation >30' To 35' Above Floor, Add	140.74		
		For Elevated Installation >35' To 40' Above Floor, Add	175.92		
		For Elevated Installation >40' Above Floor, Add	193.51		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.55		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2603	EA		4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	970.51	167.88
			For Work In Restricted Working Space, Add	125.91	
			For Elevated Installation >10' To 15' Above Floor, Add	41.97	
			For Elevated Installation >15' To 20' Above Floor, Add	83.94	
			For Elevated Installation >20' To 25' Above Floor, Add	104.92	
			For Elevated Installation >25' To 30' Above Floor, Add	146.89	
			For Elevated Installation >30' To 35' Above Floor, Add	167.88	
			For Elevated Installation >35' To 40' Above Floor, Add	209.85	
			For Elevated Installation >40' Above Floor, Add	230.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.91	
26 05 33 13-2604			Threaded, Malleable Iron Conduit Body (26 05 33 13-2547)		
			Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), or Intermediate Metal Conduit (IMC)		
26 05 33 13-2605			Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2604)		
26 05 33 13-2606	EA		1 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	74.58	24.12
			For Work In Restricted Working Space, Add	18.10	
			For Elevated Installation >10' To 15' Above Floor, Add	6.03	
			For Elevated Installation >15' To 20' Above Floor, Add	12.06	
			For Elevated Installation >20' To 25' Above Floor, Add	15.08	
			For Elevated Installation >25' To 30' Above Floor, Add	21.11	
			For Elevated Installation >30' To 35' Above Floor, Add	24.13	
			For Elevated Installation >35' To 40' Above Floor, Add	30.16	
			For Elevated Installation >40' Above Floor, Add	33.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.10	
26 05 33 13-2607	EA		3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	86.58	27.64
			For Work In Restricted Working Space, Add	20.73	
			For Elevated Installation >10' To 15' Above Floor, Add	6.91	
			For Elevated Installation >15' To 20' Above Floor, Add	13.82	
			For Elevated Installation >20' To 25' Above Floor, Add	17.28	
			For Elevated Installation >25' To 30' Above Floor, Add	24.19	
			For Elevated Installation >30' To 35' Above Floor, Add	27.64	
			For Elevated Installation >35' To 40' Above Floor, Add	34.55	
			For Elevated Installation >40' Above Floor, Add	38.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.73	
26 05 33 13-2608	EA		1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	106.46	32.17
			For Work In Restricted Working Space, Add	24.13	
			For Elevated Installation >10' To 15' Above Floor, Add	8.04	
			For Elevated Installation >15' To 20' Above Floor, Add	16.08	
			For Elevated Installation >20' To 25' Above Floor, Add	20.11	
			For Elevated Installation >25' To 30' Above Floor, Add	28.15	
			For Elevated Installation >30' To 35' Above Floor, Add	32.17	
			For Elevated Installation >35' To 40' Above Floor, Add	40.21	
			For Elevated Installation >40' Above Floor, Add	44.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.13	
26 05 33 13-2609	EA		1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	138.46	36.69
			For Work In Restricted Working Space, Add	27.52	
			For Elevated Installation >10' To 15' Above Floor, Add	9.17	
			For Elevated Installation >15' To 20' Above Floor, Add	18.35	
			For Elevated Installation >20' To 25' Above Floor, Add	22.93	
			For Elevated Installation >25' To 30' Above Floor, Add	32.11	
			For Elevated Installation >30' To 35' Above Floor, Add	36.69	
			For Elevated Installation >35' To 40' Above Floor, Add	45.87	
			For Elevated Installation >40' Above Floor, Add	50.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.52	
26 05 33 13-2610	EA		1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	157.83	40.21
			For Work In Restricted Working Space, Add	30.16	
			For Elevated Installation >10' To 15' Above Floor, Add	10.05	
			For Elevated Installation >15' To 20' Above Floor, Add	20.10	
			For Elevated Installation >20' To 25' Above Floor, Add	25.13	
			For Elevated Installation >25' To 30' Above Floor, Add	35.18	
			For Elevated Installation >30' To 35' Above Floor, Add	40.21	
			For Elevated Installation >35' To 40' Above Floor, Add	50.26	
			For Elevated Installation >40' Above Floor, Add	55.29	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.16	
26 05 33 13-2611	EA		2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	216.55	48.25
			For Work In Restricted Working Space, Add	36.19	
			For Elevated Installation >10' To 15' Above Floor, Add	12.06	
			For Elevated Installation >15' To 20' Above Floor, Add	24.13	
			For Elevated Installation >20' To 25' Above Floor, Add	30.16	
			For Elevated Installation >25' To 30' Above Floor, Add	42.22	
			For Elevated Installation >30' To 35' Above Floor, Add	48.25	
			For Elevated Installation >35' To 40' Above Floor, Add	60.32	
			For Elevated Installation >40' Above Floor, Add	66.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.19	
26 05 33 13-2612	EA		2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	365.98	67.85
			For Work In Restricted Working Space, Add	50.89	
			For Elevated Installation >10' To 15' Above Floor, Add	16.96	
			For Elevated Installation >15' To 20' Above Floor, Add	33.93	
			For Elevated Installation >20' To 25' Above Floor, Add	42.41	
			For Elevated Installation >25' To 30' Above Floor, Add	59.37	
			For Elevated Installation >30' To 35' Above Floor, Add	67.86	
			For Elevated Installation >35' To 40' Above Floor, Add	84.82	
			For Elevated Installation >40' Above Floor, Add	93.30	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.89	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2613	EA	3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	519.08	90.47
		For Work In Restricted Working Space, Add	67.86	
		For Elevated Installation >10' To 15' Above Floor, Add	22.62	
		For Elevated Installation >15' To 20' Above Floor, Add	45.24	
		For Elevated Installation >20' To 25' Above Floor, Add	56.55	
		For Elevated Installation >25' To 30' Above Floor, Add	79.17	
		For Elevated Installation >30' To 35' Above Floor, Add	90.48	
		For Elevated Installation >35' To 40' Above Floor, Add	113.10	
		For Elevated Installation >40' Above Floor, Add	124.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.86	
26 05 33 13-2614	EA	3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	716.32	113.09
		For Work In Restricted Working Space, Add	84.82	
		For Elevated Installation >10' To 15' Above Floor, Add	28.27	
		For Elevated Installation >15' To 20' Above Floor, Add	56.54	
		For Elevated Installation >20' To 25' Above Floor, Add	70.68	
		For Elevated Installation >25' To 30' Above Floor, Add	98.95	
		For Elevated Installation >30' To 35' Above Floor, Add	113.09	
		For Elevated Installation >35' To 40' Above Floor, Add	141.36	
		For Elevated Installation >40' Above Floor, Add	155.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.82	
26 05 33 13-2615	EA	4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	857.04	137.72
		For Work In Restricted Working Space, Add	103.29	
		For Elevated Installation >10' To 15' Above Floor, Add	34.43	
		For Elevated Installation >15' To 20' Above Floor, Add	68.86	
		For Elevated Installation >20' To 25' Above Floor, Add	86.08	
		For Elevated Installation >25' To 30' Above Floor, Add	120.51	
		For Elevated Installation >30' To 35' Above Floor, Add	137.72	
		For Elevated Installation >35' To 40' Above Floor, Add	172.15	
		For Elevated Installation >40' Above Floor, Add	189.37	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.29	
26 05 33 13-2616 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2604)				
26 05 33 13-2617	EA	1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	77.87	24.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.10	
26 05 33 13-2618	EA	3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	87.55	27.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.73	
26 05 33 13-2619	EA	1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	111.50	32.17
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.13	
26 05 33 13-2620	EA	1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	141.83	36.69
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.52	
26 05 33 13-2621	EA	1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	161.96	40.21
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.16	
26 05 33 13-2622	EA	2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	208.07	48.25
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.19	
26 05 33 13-2623	EA	2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	318.90	67.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.89	
26 05 33 13-2624	EA	3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	434.42	90.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.86	
26 05 33 13-2625	EA	3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	766.18	113.09
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.82	
26 05 33 13-2626	EA	4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	893.81	137.72
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.29	
26 05 33 13-2627 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2604)				
26 05 33 13-2628	EA	1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	92.64	27.64
		For Work In Restricted Working Space, Add	20.73	
		For Elevated Installation >10' To 15' Above Floor, Add	6.91	
		For Elevated Installation >15' To 20' Above Floor, Add	13.82	
		For Elevated Installation >20' To 25' Above Floor, Add	17.28	
		For Elevated Installation >25' To 30' Above Floor, Add	24.19	
		For Elevated Installation >30' To 35' Above Floor, Add	27.64	
		For Elevated Installation >35' To 40' Above Floor, Add	34.56	
		For Elevated Installation >40' Above Floor, Add	38.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.73	
26 05 33 13-2629	EA	3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	109.19	32.17
		For Work In Restricted Working Space, Add	24.50	
		For Elevated Installation >10' To 15' Above Floor, Add	8.17	
		For Elevated Installation >15' To 20' Above Floor, Add	16.33	
		For Elevated Installation >20' To 25' Above Floor, Add	20.42	
		For Elevated Installation >25' To 30' Above Floor, Add	28.58	
		For Elevated Installation >30' To 35' Above Floor, Add	32.67	
		For Elevated Installation >35' To 40' Above Floor, Add	40.84	
		For Elevated Installation >40' Above Floor, Add	44.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2630	EA	1"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	129.59 26.39 8.80 17.59 21.99 30.79 35.18 43.98 48.38 26.39	35.18
26 05 33 13-2631	EA	1-1/4"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	163.77 29.78 9.93 19.85 24.82 34.74 39.71 49.64 54.60 29.78	40.21
26 05 33 13-2632	EA	1-1/2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.08 33.17 11.06 22.12 27.65 38.70 44.23 55.29 60.82 33.17	44.23
26 05 33 13-2633	EA	2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	250.84 38.83 12.94 25.88 32.36 45.30 51.77 64.71 71.18 38.83	51.77
26 05 33 13-2634	EA	2-1/2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	315.87 56.54 18.85 37.70 47.12 65.97 75.39 94.24 103.66 56.54	75.39
26 05 33 13-2635	EA	3"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	456.72 73.51 24.50 49.01 61.26 85.76 98.01 122.52 134.77 73.51	98.01
26 05 33 13-2636	EA	3-1/2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	808.05 90.47 30.16 60.31 75.39 105.55 120.63 150.79 165.86 90.47	120.63
26 05 33 13-2637	EA	4"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	933.81 109.32 36.44 72.88 91.10 127.54 145.76 182.20 200.42 109.32	145.26

26 05 33 13-2638 Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2604)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2639	EA	1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	74.82	24.12
			For Work In Restricted Working Space, Add	18.10	
			For Elevated Installation >10' To 15' Above Floor, Add	6.03	
			For Elevated Installation >15' To 20' Above Floor, Add	12.06	
			For Elevated Installation >20' To 25' Above Floor, Add	15.08	
			For Elevated Installation >25' To 30' Above Floor, Add	21.11	
			For Elevated Installation >30' To 35' Above Floor, Add	24.13	
			For Elevated Installation >35' To 40' Above Floor, Add	30.16	
			For Elevated Installation >40' Above Floor, Add	33.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.10	
26 05 33	13-2640	EA	3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	90.85	27.64
			For Work In Restricted Working Space, Add	20.73	
			For Elevated Installation >10' To 15' Above Floor, Add	6.91	
			For Elevated Installation >15' To 20' Above Floor, Add	13.82	
			For Elevated Installation >20' To 25' Above Floor, Add	17.28	
			For Elevated Installation >25' To 30' Above Floor, Add	24.19	
			For Elevated Installation >30' To 35' Above Floor, Add	27.64	
			For Elevated Installation >35' To 40' Above Floor, Add	34.56	
			For Elevated Installation >40' Above Floor, Add	38.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.73	
26 05 33	13-2641	EA	1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	106.40	31.66
			For Work In Restricted Working Space, Add	23.75	
			For Elevated Installation >10' To 15' Above Floor, Add	7.92	
			For Elevated Installation >15' To 20' Above Floor, Add	15.83	
			For Elevated Installation >20' To 25' Above Floor, Add	19.79	
			For Elevated Installation >25' To 30' Above Floor, Add	27.71	
			For Elevated Installation >30' To 35' Above Floor, Add	31.67	
			For Elevated Installation >35' To 40' Above Floor, Add	39.59	
			For Elevated Installation >40' Above Floor, Add	43.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.75	
26 05 33	13-2642	EA	1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	144.68	36.69
			For Work In Restricted Working Space, Add	27.52	
			For Elevated Installation >10' To 15' Above Floor, Add	9.17	
			For Elevated Installation >15' To 20' Above Floor, Add	18.35	
			For Elevated Installation >20' To 25' Above Floor, Add	22.94	
			For Elevated Installation >25' To 30' Above Floor, Add	32.11	
			For Elevated Installation >30' To 35' Above Floor, Add	36.70	
			For Elevated Installation >35' To 40' Above Floor, Add	45.87	
			For Elevated Installation >40' Above Floor, Add	50.46	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.52	
26 05 33	13-2643	EA	1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	169.48	40.21
			For Work In Restricted Working Space, Add	30.16	
			For Elevated Installation >10' To 15' Above Floor, Add	10.05	
			For Elevated Installation >15' To 20' Above Floor, Add	20.10	
			For Elevated Installation >20' To 25' Above Floor, Add	25.13	
			For Elevated Installation >25' To 30' Above Floor, Add	35.18	
			For Elevated Installation >30' To 35' Above Floor, Add	40.21	
			For Elevated Installation >35' To 40' Above Floor, Add	50.26	
			For Elevated Installation >40' Above Floor, Add	55.29	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.16	
26 05 33	13-2644	EA	2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	219.88	48.25
			For Work In Restricted Working Space, Add	36.19	
			For Elevated Installation >10' To 15' Above Floor, Add	12.06	
			For Elevated Installation >15' To 20' Above Floor, Add	24.13	
			For Elevated Installation >20' To 25' Above Floor, Add	30.16	
			For Elevated Installation >25' To 30' Above Floor, Add	42.22	
			For Elevated Installation >30' To 35' Above Floor, Add	48.25	
			For Elevated Installation >35' To 40' Above Floor, Add	60.32	
			For Elevated Installation >40' Above Floor, Add	66.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.19	
26 05 33	13-2645	EA	2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	488.66	127.28
			For Work In Restricted Working Space, Add	95.42	
			For Elevated Installation >10' To 15' Above Floor, Add	31.81	
			For Elevated Installation >15' To 20' Above Floor, Add	63.62	
			For Elevated Installation >20' To 25' Above Floor, Add	79.52	
			For Elevated Installation >25' To 30' Above Floor, Add	111.33	
			For Elevated Installation >30' To 35' Above Floor, Add	127.23	
			For Elevated Installation >35' To 40' Above Floor, Add	159.04	
			For Elevated Installation >40' Above Floor, Add	174.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.42	
26 05 33	13-2646	EA	3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	469.98	90.47
			For Work In Restricted Working Space, Add	67.86	
			For Elevated Installation >10' To 15' Above Floor, Add	22.62	
			For Elevated Installation >15' To 20' Above Floor, Add	45.24	
			For Elevated Installation >20' To 25' Above Floor, Add	56.55	
			For Elevated Installation >25' To 30' Above Floor, Add	79.17	
			For Elevated Installation >30' To 35' Above Floor, Add	90.48	
			For Elevated Installation >35' To 40' Above Floor, Add	113.10	
			For Elevated Installation >40' Above Floor, Add	124.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.86	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2647	EA	3-1/2"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	766.18	113.09
			For Work In Restricted Working Space, Add	84.82	
			For Elevated Installation >10' To 15' Above Floor, Add	28.27	
			For Elevated Installation >15' To 20' Above Floor, Add	56.54	
			For Elevated Installation >20' To 25' Above Floor, Add	70.68	
			For Elevated Installation >25' To 30' Above Floor, Add	98.95	
			For Elevated Installation >30' To 35' Above Floor, Add	113.09	
			For Elevated Installation >35' To 40' Above Floor, Add	141.36	
			For Elevated Installation >40' Above Floor, Add	155.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.82	
26 05 33 13-2648	EA	4"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	893.79	137.72
			For Work In Restricted Working Space, Add	103.28	
			For Elevated Installation >10' To 15' Above Floor, Add	34.43	
			For Elevated Installation >15' To 20' Above Floor, Add	68.86	
			For Elevated Installation >20' To 25' Above Floor, Add	86.07	
			For Elevated Installation >25' To 30' Above Floor, Add	120.50	
			For Elevated Installation >30' To 35' Above Floor, Add	137.71	
			For Elevated Installation >35' To 40' Above Floor, Add	172.14	
			For Elevated Installation >40' Above Floor, Add	189.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.28	
26 05 33 13-2649			Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2604)		
26 05 33 13-2650	EA	1/2"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	105.26	31.66
			For Work In Restricted Working Space, Add	23.75	
			For Elevated Installation >10' To 15' Above Floor, Add	7.92	
			For Elevated Installation >15' To 20' Above Floor, Add	15.83	
			For Elevated Installation >20' To 25' Above Floor, Add	19.79	
			For Elevated Installation >25' To 30' Above Floor, Add	27.71	
			For Elevated Installation >30' To 35' Above Floor, Add	31.67	
			For Elevated Installation >35' To 40' Above Floor, Add	39.59	
			For Elevated Installation >40' Above Floor, Add	43.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.75	
26 05 33 13-2651	EA	3/4"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	115.02	35.18
			For Work In Restricted Working Space, Add	26.39	
			For Elevated Installation >10' To 15' Above Floor, Add	8.80	
			For Elevated Installation >15' To 20' Above Floor, Add	17.59	
			For Elevated Installation >20' To 25' Above Floor, Add	21.99	
			For Elevated Installation >25' To 30' Above Floor, Add	30.79	
			For Elevated Installation >30' To 35' Above Floor, Add	35.18	
			For Elevated Installation >35' To 40' Above Floor, Add	43.98	
			For Elevated Installation >40' Above Floor, Add	48.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.39	
26 05 33 13-2652	EA	1"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	133.90	38.71
			For Work In Restricted Working Space, Add	29.03	
			For Elevated Installation >10' To 15' Above Floor, Add	9.68	
			For Elevated Installation >15' To 20' Above Floor, Add	19.35	
			For Elevated Installation >20' To 25' Above Floor, Add	24.19	
			For Elevated Installation >25' To 30' Above Floor, Add	33.87	
			For Elevated Installation >30' To 35' Above Floor, Add	38.70	
			For Elevated Installation >35' To 40' Above Floor, Add	48.38	
			For Elevated Installation >40' Above Floor, Add	53.22	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.03	
26 05 33 13-2653	EA	1-1/4"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	159.62	44.23
			For Work In Restricted Working Space, Add	33.17	
			For Elevated Installation >10' To 15' Above Floor, Add	11.06	
			For Elevated Installation >15' To 20' Above Floor, Add	22.12	
			For Elevated Installation >20' To 25' Above Floor, Add	27.65	
			For Elevated Installation >25' To 30' Above Floor, Add	38.70	
			For Elevated Installation >30' To 35' Above Floor, Add	44.23	
			For Elevated Installation >35' To 40' Above Floor, Add	55.29	
			For Elevated Installation >40' Above Floor, Add	60.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.17	
26 05 33 13-2654	EA	1-1/2"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	184.62	48.25
			For Work In Restricted Working Space, Add	36.19	
			For Elevated Installation >10' To 15' Above Floor, Add	12.06	
			For Elevated Installation >15' To 20' Above Floor, Add	24.13	
			For Elevated Installation >20' To 25' Above Floor, Add	30.16	
			For Elevated Installation >25' To 30' Above Floor, Add	42.22	
			For Elevated Installation >30' To 35' Above Floor, Add	48.25	
			For Elevated Installation >35' To 40' Above Floor, Add	60.32	
			For Elevated Installation >40' Above Floor, Add	66.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.19	
26 05 33 13-2655	EA	2"	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	259.66	59.31
			For Work In Restricted Working Space, Add	44.48	
			For Elevated Installation >10' To 15' Above Floor, Add	14.83	
			For Elevated Installation >15' To 20' Above Floor, Add	29.65	
			For Elevated Installation >20' To 25' Above Floor, Add	37.07	
			For Elevated Installation >25' To 30' Above Floor, Add	51.89	
			For Elevated Installation >30' To 35' Above Floor, Add	59.31	
			For Elevated Installation >35' To 40' Above Floor, Add	74.14	
			For Elevated Installation >40' Above Floor, Add	81.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.48	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2656 EA 2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	416.27 65.22 21.74 43.48 54.35 76.09 86.96 108.70 119.56 65.22	86.95
26 05 33 13-2657 EA 3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	613.21 84.82 28.27 56.54 70.68 98.95 113.09 141.36 155.50 84.82	113.09
26 05 33 13-2658 EA 3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	920.82 104.80 34.93 69.86 87.33 122.26 139.73 174.66 192.13 104.80	139.73
26 05 33 13-2659 EA 4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,026.48 125.91 41.97 83.94 104.92 146.89 167.88 209.85 230.83 125.91	167.88
26 05 33 13-2660 Set Screw, Cast Aluminum Conduit Body (26 05 33 13-2547) Note: For use with Electrical Metallic Tubing (EMT)		
26 05 33 13-2661 Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2660)		
26 05 33 13-2662 EA 1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.25 7.16 2.39 4.77 5.97 8.35 9.55 11.94 13.13 7.16	9.55
26 05 33 13-2663 EA 3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.28 9.42 3.14 6.28 7.85 10.99 12.56 15.71 17.28 9.42	12.57
26 05 33 13-2664 EA 1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.97 11.69 3.90 7.79 9.74 13.64 15.58 19.48 21.43 11.69	15.58
26 05 33 13-2665 EA 1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.90 14.33 4.78 9.55 11.94 16.71 19.10 23.88 26.26 14.33	19.10



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2666	EA	1-1/2"	Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.40 16.58 5.53 11.06 13.82 19.35 22.11 27.64 30.40 16.58	22.12
26 05 33 13-2667	EA	2"	Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	144.59 18.85 6.28 12.57 15.71 21.99 25.13 31.42 34.56 18.85	25.13
26 05 33 13-2668			Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2660)		
26 05 33 13-2669	EA	1/2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.58 7.16 2.39 4.77 5.97 8.35 9.55 11.94 13.13 7.16	9.55
26 05 33 13-2670	EA	3/4"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.59 9.42 3.14 6.28 7.85 10.99 12.56 15.71 17.28 9.42	12.57
26 05 33 13-2671	EA	1"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.42 11.69 3.90 7.79 9.74 13.64 15.58 19.48 21.43 11.69	15.58
26 05 33 13-2672	EA	1-1/4"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.52 14.33 4.78 9.55 11.94 16.71 19.10 23.88 26.26 14.33	19.10
26 05 33 13-2673	EA	1-1/2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.85 16.58 5.53 11.06 13.82 19.35 22.11 27.64 30.40 16.58	22.12
26 05 33 13-2674	EA	2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143.94 18.85 6.28 12.57 15.71 21.99 25.13 31.42 34.56 18.85	25.13

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2675 Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2660)				
26 05 33 13-2676	EA 1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	46.99	12.57	
	For Work In Restricted Working Space, Add	9.42		
	For Elevated Installation >10' To 15' Above Floor, Add	3.14		
	For Elevated Installation >15' To 20' Above Floor, Add	6.28		
	For Elevated Installation >20' To 25' Above Floor, Add	7.85		
	For Elevated Installation >25' To 30' Above Floor, Add	10.99		
	For Elevated Installation >30' To 35' Above Floor, Add	12.56		
	For Elevated Installation >35' To 40' Above Floor, Add	15.71		
	For Elevated Installation >40' Above Floor, Add	17.28		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42		
26 05 33 13-2677	EA 3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	61.41	15.58	
	For Work In Restricted Working Space, Add	11.69		
	For Elevated Installation >10' To 15' Above Floor, Add	3.90		
	For Elevated Installation >15' To 20' Above Floor, Add	7.79		
	For Elevated Installation >20' To 25' Above Floor, Add	9.74		
	For Elevated Installation >25' To 30' Above Floor, Add	13.64		
	For Elevated Installation >30' To 35' Above Floor, Add	15.58		
	For Elevated Installation >35' To 40' Above Floor, Add	19.48		
	For Elevated Installation >40' Above Floor, Add	21.43		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.69		
26 05 33 13-2678	EA 1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	73.99	19.10	
	For Work In Restricted Working Space, Add	14.33		
	For Elevated Installation >10' To 15' Above Floor, Add	4.78		
	For Elevated Installation >15' To 20' Above Floor, Add	9.55		
	For Elevated Installation >20' To 25' Above Floor, Add	11.94		
	For Elevated Installation >25' To 30' Above Floor, Add	16.71		
	For Elevated Installation >30' To 35' Above Floor, Add	19.10		
	For Elevated Installation >35' To 40' Above Floor, Add	23.88		
	For Elevated Installation >40' Above Floor, Add	26.26		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.33		
26 05 33 13-2679	EA 1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	103.11	22.12	
	For Work In Restricted Working Space, Add	17.34		
	For Elevated Installation >10' To 15' Above Floor, Add	5.78		
	For Elevated Installation >15' To 20' Above Floor, Add	11.56		
	For Elevated Installation >20' To 25' Above Floor, Add	14.45		
	For Elevated Installation >25' To 30' Above Floor, Add	20.23		
	For Elevated Installation >30' To 35' Above Floor, Add	23.12		
	For Elevated Installation >35' To 40' Above Floor, Add	28.90		
	For Elevated Installation >40' Above Floor, Add	31.79		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.34		
26 05 33 13-2680	EA 1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	132.79	25.13	
	For Work In Restricted Working Space, Add	20.36		
	For Elevated Installation >10' To 15' Above Floor, Add	6.79		
	For Elevated Installation >15' To 20' Above Floor, Add	13.57		
	For Elevated Installation >20' To 25' Above Floor, Add	16.96		
	For Elevated Installation >25' To 30' Above Floor, Add	23.75		
	For Elevated Installation >30' To 35' Above Floor, Add	27.14		
	For Elevated Installation >35' To 40' Above Floor, Add	33.93		
	For Elevated Installation >40' Above Floor, Add	37.32		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.36		
26 05 33 13-2681	EA 2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	179.95	28.14	
	For Work In Restricted Working Space, Add	23.37		
	For Elevated Installation >10' To 15' Above Floor, Add	7.79		
	For Elevated Installation >15' To 20' Above Floor, Add	15.58		
	For Elevated Installation >20' To 25' Above Floor, Add	19.48		
	For Elevated Installation >25' To 30' Above Floor, Add	27.27		
	For Elevated Installation >30' To 35' Above Floor, Add	31.16		
	For Elevated Installation >35' To 40' Above Floor, Add	38.95		
	For Elevated Installation >40' Above Floor, Add	42.85		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.37		
26 05 33 13-2682 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2660)				
26 05 33 13-2683	EA 1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	37.69	9.55	
	For Work In Restricted Working Space, Add	7.16		
	For Elevated Installation >10' To 15' Above Floor, Add	2.39		
	For Elevated Installation >15' To 20' Above Floor, Add	4.77		
	For Elevated Installation >20' To 25' Above Floor, Add	5.97		
	For Elevated Installation >25' To 30' Above Floor, Add	8.35		
	For Elevated Installation >30' To 35' Above Floor, Add	9.55		
	For Elevated Installation >35' To 40' Above Floor, Add	11.94		
	For Elevated Installation >40' Above Floor, Add	13.13		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16		
26 05 33 13-2684	EA 3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	50.49	12.57	
	For Work In Restricted Working Space, Add	9.42		
	For Elevated Installation >10' To 15' Above Floor, Add	3.14		
	For Elevated Installation >15' To 20' Above Floor, Add	6.28		
	For Elevated Installation >20' To 25' Above Floor, Add	7.85		
	For Elevated Installation >25' To 30' Above Floor, Add	10.99		
	For Elevated Installation >30' To 35' Above Floor, Add	12.56		
	For Elevated Installation >35' To 40' Above Floor, Add	15.71		
	For Elevated Installation >40' Above Floor, Add	17.28		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.42		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2685	EA	1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.62 11.69 3.90 7.79 9.74 13.64 15.58 19.48 21.43 11.69	15.58
26 05 33 13-2686	EA	1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.87 14.33 4.78 9.55 11.94 16.71 19.10 23.88 26.26 14.33	19.10
26 05 33 13-2687	EA	1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.21 16.58 5.53 11.06 13.82 19.35 22.11 27.64 30.40 16.58	22.12
26 05 33 13-2688	EA	2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156.54 18.85 6.28 12.57 15.71 21.99 25.13 31.42 34.56 18.85	25.13
26 05 33 13-2689		Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-2547)		
26 05 33 13-2690	EA	3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.70 20.66	27.52
26 05 33 13-2691	EA	1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	652.64 38.18	50.89
26 05 33 13-2692	EA	3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,255.83 77.47	103.29
26 05 33 13-2693		Replacement Covers And Gaskets For Conduit Body (26 05 33 13-2547)		
26 05 33 13-2694		Replacement Stamped Aluminum Conduit Body Cover (26 05 33 13-2693)		
26 05 33 13-2695	EA	1/2" Replacement Stamped Aluminum Conduit Body Cover	13.28	4.90
26 05 33 13-2696	EA	3/4" Replacement Stamped Aluminum Conduit Body Cover	16.31	5.71
26 05 33 13-2697	EA	1" Replacement Stamped Aluminum Conduit Body Cover	20.88	7.35
26 05 33 13-2698	EA	1-1/4" Replacement Stamped Aluminum Conduit Body Cover	25.41	8.98
26 05 33 13-2699	EA	1-1/2" Replacement Stamped Aluminum Conduit Body Cover	31.32	10.61
26 05 33 13-2700	EA	2" Replacement Stamped Aluminum Conduit Body Cover	37.20	12.25
26 05 33 13-2701	EA	2-1/2" Replacement Stamped Aluminum Conduit Body Cover	49.73	13.88
26 05 33 13-2702	EA	3" Replacement Stamped Aluminum Conduit Body Cover	63.84	19.60
26 05 33 13-2703	EA	3-1/2" Replacement Stamped Aluminum Conduit Body Cover	69.27	22.05
26 05 33 13-2704	EA	4" Replacement Stamped Aluminum Conduit Body Cover	87.27	27.77
26 05 33 13-2705		Replacement Cast Steel Conduit Body Cover (26 05 33 13-2693)		
26 05 33 13-2706	EA	1/2" Replacement Cast Steel Conduit Body Cover	15.66	4.90
26 05 33 13-2707	EA	3/4" Replacement Cast Steel Conduit Body Cover	18.38	5.71
26 05 33 13-2708	EA	1" Replacement Cast Steel Conduit Body Cover	25.98	7.35
26 05 33 13-2709	EA	1-1/4" Replacement Cast Steel Conduit Body Cover	32.32	8.98
26 05 33 13-2710	EA	1-1/2" Replacement Cast Steel Conduit Body Cover	39.36	10.61
26 05 33 13-2711	EA	2" Replacement Cast Steel Conduit Body Cover	46.40	12.25
26 05 33 13-2712	EA	2-1/2" Replacement Cast Steel Conduit Body Cover	53.38	13.88
26 05 33 13-2713	EA	3" Replacement Cast Steel Conduit Body Cover	72.47	19.60
26 05 33 13-2714	EA	3-1/2" Replacement Cast Steel Conduit Body Cover	82.86	22.05
26 05 33 13-2715	EA	4" Replacement Cast Steel Conduit Body Cover	104.47	27.77
26 05 33 13-2716		Replacement Velbuna Composition Conduit Body Gasket (26 05 33 13-2693)		
26 05 33 13-2717	EA	1/2" Replacement Velbuna Composition Conduit Body Gasket	12.22	4.90
26 05 33 13-2718	EA	3/4" Replacement Velbuna Composition Conduit Body Gasket	13.94	5.71

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2719 EA 1" Replacement Velbuna Composition Conduit Body Gasket.....	18.23	7.35
26 05 33 13-2720 EA 1-1/4" Replacement Velbuna Composition Conduit Body Gasket.....	23.81	8.98
26 05 33 13-2721 EA 1-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	27.08	10.61
26 05 33 13-2722 EA 2" Replacement Velbuna Composition Conduit Body Gasket.....	32.30	12.25
26 05 33 13-2723 EA 2-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	43.03	13.88
26 05 33 13-2724 EA 3" Replacement Velbuna Composition Conduit Body Gasket.....	55.47	19.60
26 05 33 13-2725 EA 3-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	61.35	22.05
26 05 33 13-2726 EA 4" Replacement Velbuna Composition Conduit Body Gasket.....	72.65	27.77

26 05 33 13-2727 Replacement Neoprene Conduit Body Gasket (26 05 33 13-2693)

26 05 33 13-2728 EA 1/2" Replacement Neoprene Conduit Body Gasket.....	13.87	4.90
26 05 33 13-2729 EA 3/4" Replacement Neoprene Conduit Body Gasket.....	15.51	5.71
26 05 33 13-2730 EA 1" Replacement Neoprene Conduit Body Gasket.....	20.29	7.35
26 05 33 13-2731 EA 1-1/4" Replacement Neoprene Conduit Body Gasket.....	24.86	8.98
26 05 33 13-2732 EA 1-1/2" Replacement Neoprene Conduit Body Gasket.....	28.13	10.61
26 05 33 13-2733 EA 2" Replacement Neoprene Conduit Body Gasket.....	32.41	12.25
26 05 33 13-2734 EA 2-1/2" Replacement Neoprene Conduit Body Gasket.....	43.29	13.88
26 05 33 13-2735 EA 3" Replacement Neoprene Conduit Body Gasket.....	55.73	19.60
26 05 33 13-2736 EA 3-1/2" Replacement Neoprene Conduit Body Gasket.....	63.11	22.05
26 05 33 13-2737 EA 4" Replacement Neoprene Conduit Body Gasket.....	74.41	27.77

26 05 33 13-2738 Cutting Knockouts In-Place Metal Boxes Or Enclosures (26 05 33 13-0058)

Note: For use when connecting conduit to an existing in-place system.

26 05 33 13-2739 EA 1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	20.80	
For Work In Restricted Working Space, Add	6.24	
26 05 33 13-2740 EA 3/4", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	23.41	
For Work In Restricted Working Space, Add	7.02	
26 05 33 13-2741 EA 1", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	27.54	
For Work In Restricted Working Space, Add	8.26	
26 05 33 13-2742 EA 1-1/4", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	30.57	
For Work In Restricted Working Space, Add	9.17	
26 05 33 13-2743 EA 1-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	34.43	
For Work In Restricted Working Space, Add	10.33	
26 05 33 13-2744 EA 2", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	40.77	
For Work In Restricted Working Space, Add	12.23	
26 05 33 13-2745 EA 2-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	48.20	
For Work In Restricted Working Space, Add	14.46	
26 05 33 13-2746 EA 3", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	55.09	
For Work In Restricted Working Space, Add	16.53	
26 05 33 13-2747 EA 3-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	61.98	
For Work In Restricted Working Space, Add	18.59	
26 05 33 13-2748 EA 4", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	68.86	
For Work In Restricted Working Space, Add	20.66	

26 05 33 13-2749 Buried Pipe Or Conduit Wrap (26 05 33 13)**26 05 33 13-2750 All-Weather Corrosion Protection Tape For Pipe Or Conduit (26 05 33 13-2749)**

Note: Priced by the linear feet of pipe or conduit the tape is installed on.

26 05 33 13-2751 LF Pipe Or Conduit Wrap For 1/2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	2.94	
26 05 33 13-2752 LF Pipe Or Conduit Wrap For 3/4" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	3.38	
26 05 33 13-2753 LF Pipe Or Conduit Wrap For 1" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	3.91	
26 05 33 13-2754 LF Pipe Or Conduit Wrap For 1-1/4" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	4.49	
26 05 33 13-2755 LF Pipe Or Conduit Wrap For 1-1/2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	5.11	
26 05 33 13-2756 LF Pipe Or Conduit Wrap For 2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	6.13	
26 05 33 13-2757 LF Pipe Or Conduit Wrap For 2-1/2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	6.81	
26 05 33 13-2758 LF Pipe Or Conduit Wrap For 3" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	7.51	
26 05 33 13-2759 LF Pipe Or Conduit Wrap For 4" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	9.33	
26 05 33 13-2760 LF Pipe Or Conduit Wrap For 5" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	10.78	
26 05 33 13-2761 LF Pipe Or Conduit Wrap For 6" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	12.21	
26 05 33 13-2762 LF Pipe Or Conduit Wrap For 1/2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	2.96	
26 05 33 13-2763 LF Pipe Or Conduit Wrap For 3/4" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	3.51	
26 05 33 13-2764 LF Pipe Or Conduit Wrap For 1" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	4.08	
26 05 33 13-2765 LF Pipe Or Conduit Wrap For 1-1/4" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	4.71	
26 05 33 13-2766 LF Pipe Or Conduit Wrap For 1-1/2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	5.39	
26 05 33 13-2767 LF Pipe Or Conduit Wrap For 2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	6.52	
26 05 33 13-2768 LF Pipe Or Conduit Wrap For 2-1/2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	7.42	
26 05 33 13-2769 LF Pipe Or Conduit Wrap For 3" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	8.40	
26 05 33 13-2770 LF Pipe Or Conduit Wrap For 4" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	10.53	
26 05 33 13-2771 LF Pipe Or Conduit Wrap For 5" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	12.28	
26 05 33 13-2772 LF Pipe Or Conduit Wrap For 6" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	14.01	

26 05 33 16 Boxes for Electrical Systems (26 05 33)

See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0001 Steel Junction, Device, And Fixture Boxes, Rings And Covers (26 05 33 16)		
Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0126 for steel box/switch assemblies.		
26 05 33 16-0002 4" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0003 EA 1-1/2" Depth, 4" Square Steel Box.....	43.71	20.63
For Stud Bracket, Add	0.60	
26 05 33 16-0004 EA 2-1/8" Depth, 4" Square Steel Box.....	44.82	20.63
For Stud Bracket, Add	1.08	
26 05 33 16-0005 EA 3-1/2" Depth, 4" Square Steel Box.....	48.64	20.63
For Stud Bracket, Add	1.18	
26 05 33 16-0006 EA 1-1/2" Depth, 4" Square Steel Extension Ring.....	32.94	13.76
26 05 33 16-0007 EA 2-1/8" Depth, 4" Square Steel Extension Ring.....	29.08	13.76
26 05 33 16-0008 EA 1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	14.93	6.87
26 05 33 16-0009 EA 5/8" Depth, 1 Gang, 4" Square Steel Mud Ring.....	15.10	6.87
26 05 33 16-0010 EA 3/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	15.23	6.87
26 05 33 16-0011 EA 1" Depth, 1 Gang, 4" Square Steel Mud Ring.....	15.65	6.87
26 05 33 16-0012 EA 1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	15.77	6.87
26 05 33 16-0013 EA 1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	17.09	6.87
26 05 33 16-0014 EA 1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	15.43	6.87
26 05 33 16-0015 EA 5/8" Depth, 2 Gang, 4" Square Steel Mud Ring.....	15.55	6.87
26 05 33 16-0016 EA 3/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	15.71	6.87
26 05 33 16-0017 EA 1" Depth, 2 Gang, 4" Square Steel Mud Ring.....	17.06	6.87
26 05 33 16-0018 EA 1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	17.34	6.87
26 05 33 16-0019 EA 1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	19.06	6.87
26 05 33 16-0020 EA 3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	16.09	6.87
26 05 33 16-0021 EA 1" Depth, Fixture Cover, 4" Square Mud Rings.....	17.18	6.87
26 05 33 16-0022 EA One Toggle Switch, 4" Square Steel Exposed Work Cover.....	15.41	6.87
26 05 33 16-0023 EA Two Toggle Switches, 4" Square Steel Exposed Work Cover.....	15.51	6.87
26 05 33 16-0024 EA One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	15.38	6.87
26 05 33 16-0025 EA Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....	15.67	6.87
26 05 33 16-0026 EA One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	15.92	6.87
26 05 33 16-0027 EA One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	18.95	6.87
26 05 33 16-0028 EA One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.87	6.87
26 05 33 16-0029 EA Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....	18.95	6.87
26 05 33 16-0030 EA One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.87	6.87
26 05 33 16-0031 EA One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	16.58	6.87
26 05 33 16-0032 EA One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	18.95	6.87
26 05 33 16-0033 EA One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	18.95	6.87
26 05 33 16-0034 EA Flat, 4" Square Steel Exposed Work Cover.....	14.54	6.87
26 05 33 16-0035 4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0036 EA 1-1/2" Depth, 4-11/16" Square Steel Box.....	47.82	20.63
26 05 33 16-0037 EA 2-1/8" Depth, 4-11/16" Square Steel Box.....	45.31	20.63
For Stud Bracket, Add	0.57	
26 05 33 16-0038 EA 3-1/4" Depth, 4-11/16" Square Steel Box.....	57.94	20.63
26 05 33 16-0039 EA 1-1/2" Depth, 4-11/16" Square Extension Ring.....	33.99	13.76
26 05 33 16-0040 EA 2-1/8" Depth, 4-11/16" Square Extension Ring.....	34.61	13.76
26 05 33 16-0041 EA 1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	17.44	6.87
26 05 33 16-0042 EA 5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	17.47	6.87
26 05 33 16-0043 EA 3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	18.54	6.87
26 05 33 16-0044 EA 1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	18.11	6.87
26 05 33 16-0045 EA 1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	18.02	6.87
26 05 33 16-0046 EA 1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	22.48	6.87
26 05 33 16-0047 EA 1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	18.30	6.87
26 05 33 16-0048 EA 5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	18.53	6.87
26 05 33 16-0049 EA 3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	18.54	6.87
26 05 33 16-0050 EA 1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	20.12	6.87
26 05 33 16-0051 EA 1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	20.45	6.87
26 05 33 16-0052 EA 1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	24.27	6.87
26 05 33 16-0053 EA 1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	18.09	6.87
26 05 33 16-0054 EA 5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	18.20	6.87
26 05 33 16-0055 EA One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....	21.16	6.87
26 05 33 16-0056 EA Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....	21.99	6.87
26 05 33 16-0057 EA One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	20.92	6.87
26 05 33 16-0058 EA Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover.....	20.01	6.87
26 05 33 16-0059 EA One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	23.03	6.87
26 05 33 16-0060 EA One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	21.98	6.87
26 05 33 16-0061 EA One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	21.98	6.87
26 05 33 16-0062 EA One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	21.98	6.87
26 05 33 16-0063 EA Flat, 4-11/16" Square Steel Exposed Work Cover.....	15.22	6.87
26 05 33 16-0064 Steel Square Box Brackets (26 05 33 16-0001)		
26 05 33 16-0065 EA 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....	21.78	10.32
26 05 33 16-0066 EA Single Box Bracket, One 4" Or 4-11/16" Square Box.....	15.52	6.88
26 05 33 16-0067 EA 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes.....	24.47	10.32
26 05 33 16-0068 EA 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes.....	25.85	10.32

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0069	4" Octagon Steel Boxes And Covers (26 05 33 16-0001)			
26 05 33 16-0070	EA	1-1/2" Depth, 4" Steel Octagon Box.....	36.38	17.19
		<i>For Stud Bracket, Add</i>	1.46	
26 05 33 16-0071	EA	2-1/8" Depth, 4" Steel Octagon Box.....	37.36	17.19
26 05 33 16-0072	EA	Flat, 4" Octagon Steel Exposed Work Cover	14.48	6.87
26 05 33 16-0073	4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)			
	Note: Placed in concrete slabs or walls.			
26 05 33 16-0074	EA	2" Depth, 4" Steel Octagonal Concrete Ring	59.41	
26 05 33 16-0075	EA	2-1/2" Depth, 4" Steel Octagonal Concrete Ring	62.88	
26 05 33 16-0076	EA	3" Depth, 4" Steel Octagonal Concrete Ring	65.82	
26 05 33 16-0077	EA	3-1/2" Depth, 4" Steel Octagonal Concrete Ring	68.70	
26 05 33 16-0078	EA	4" Depth, 4" Steel Octagonal Concrete Ring	74.12	
26 05 33 16-0079	EA	5" Depth, 4" Steel Octagonal Concrete Ring	79.72	
26 05 33 16-0080	EA	6" Depth, 4" Steel Octagonal Concrete Ring	84.25	
26 05 33 16-0081	EA	Flat, 4" Steel Octagonal Concrete Cover	15.82	6.87
26 05 33 16-0082	4-1/2" Steel Gang Boxes (26 05 33 16-0001)			
26 05 33 16-0083	EA	2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	50.16	17.19
26 05 33 16-0084	EA	3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	54.92	18.57
26 05 33 16-0085	EA	4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	65.07	20.63
26 05 33 16-0086	EA	5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	82.52	22.69
26 05 33 16-0087	EA	6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	117.29	24.76
26 05 33 16-0088	EA	2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	65.18	17.19
26 05 33 16-0089	EA	3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	70.93	18.57
26 05 33 16-0090	EA	4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	92.10	20.63
26 05 33 16-0091	EA	5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	116.13	22.69
26 05 33 16-0092	EA	6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	183.75	24.76
26 05 33 16-0093	EA	2 Device, Gang Box Mud Ring.....	21.57	6.87
26 05 33 16-0094	EA	3 Device, Gang Box Mud Ring.....	21.83	6.87
26 05 33 16-0095	EA	4 Device, Gang Box Mud Ring.....	24.72	6.87
26 05 33 16-0096	EA	5 Device, Gang Box Mud Ring.....	29.70	6.87
26 05 33 16-0097	EA	6 Device, Gang Box Mud Ring.....	40.61	6.87
26 05 33 16-0098	EA	2 Device, Gang Box Flat Cover	19.09	6.87
26 05 33 16-0099	EA	3 Device, Gang Box Flat Cover	21.80	6.87
26 05 33 16-0100	EA	4 Device, Gang Box Flat Cover	25.40	6.87
26 05 33 16-0101	EA	5 Device, Gang Box Flat Cover	29.98	6.87
26 05 33 16-0102	EA	6 Device, Gang Box Flat Cover	41.39	6.87
26 05 33 16-0103	Steel Switch Boxes (26 05 33 16-0001)			
26 05 33 16-0104	EA	2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	38.26	17.19
26 05 33 16-0105	EA	2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box	38.68	17.19
26 05 33 16-0106	EA	3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	40.85	17.19
26 05 33 16-0107	EA	2-1/2" Depth, 2 Device, Stud Bracket, Steel Box	45.72	17.19
26 05 33 16-0108	EA	2-1/2" Depth, 3 Device, Stud Bracket, Steel Box	46.14	17.19
26 05 33 16-0109	EA	2-1/2" Depth, 4 Device, Stud Bracket, Steel Box	52.75	17.19
26 05 33 16-0110	4" x 2" Steel Handy Boxes, Extension Rings And Covers (26 05 33 16-0001)			
26 05 33 16-0111	EA	1-1/2" Deep, 4" x 2" Steel Handy Box	36.28	17.19
		<i>For Stud Bracket, Add</i>	2.35	
26 05 33 16-0112	EA	1-7/8" Deep, 4" x 2" Steel Handy Box	36.73	17.19
		<i>For Stud Bracket, Add</i>	1.01	
26 05 33 16-0113	EA	2-1/8" Deep, 4" x 2" Steel Handy Box	37.72	17.19
		<i>For Stud Bracket, Add</i>	1.38	
26 05 33 16-0114	EA	1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring	23.36	10.31
26 05 33 16-0115	EA	1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring	22.91	10.31
26 05 33 16-0116	EA	GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover	7.85	3.44
26 05 33 16-0117	EA	1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	7.94	3.44
26 05 33 16-0118	EA	Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	7.52	3.44
26 05 33 16-0119	EA	Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover	7.54	3.44
26 05 33 16-0120	EA	1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	8.40	3.44
26 05 33 16-0121	EA	Flat, 2" x 4" Steel Handy Box Exposed Work Cover	7.54	3.44
26 05 33 16-0122	3-1/2" Depth, 3-3/4" Steel Masonry Boxes (26 05 33 16-0001)			
26 05 33 16-0123	EA	1 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	53.41	24.07
26 05 33 16-0124	EA	2 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	58.86	25.44
26 05 33 16-0125	EA	3 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	66.44	27.50
26 05 33 16-0126	EA	4 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	75.03	30.26
26 05 33 16-0127	Cast Boxes (26 05 33 16)			
	Note: For flush or surface mount.			
26 05 33 16-0128	Cast Iron Alloy Boxes (26 05 33 16-0127)			
	See CSI section 26 27 26 00-0263 for box covers.			



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0129		Shallow, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0130	EA	1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box..... Note: One hub.	124.40	41.26
26 05 33 16-0131	EA	3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box..... Note: One hub.	132.67	48.13
26 05 33 16-0132	EA	1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box..... Note: One hub.	155.58	58.44
26 05 33 16-0133	EA	1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box Note: Two hub.	154.22	55.01
26 05 33 16-0134	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box Note: Two hub.	198.95	65.33
26 05 33 16-0135	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box..... Note: Two hub.	153.50	55.01
26 05 33 16-0136	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	184.89	65.33
26 05 33 16-0137	EA	1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box Note: Two hubs.	158.03	55.01
26 05 33 16-0138	EA	3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box Note: Two hubs.	184.96	65.33
26 05 33 16-0139	EA	1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box Note: Two hubs.	153.50	55.01
26 05 33 16-0140	EA	3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box Note: Two hubs.	179.38	65.33
26 05 33 16-0141	EA	1/2" Depth, Type FSFA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	181.75	68.76
26 05 33 16-0142	EA	3/4" Depth, Type FSFA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	214.69	82.52
26 05 33 16-0143	EA	1/2" Depth, Type FSFA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	190.42	68.76
26 05 33 16-0144	EA	3/4" Depth, Type FSFA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	247.75	82.52
26 05 33 16-0145	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	196.09	68.76
26 05 33 16-0146	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	234.15	82.52
26 05 33 16-0147	EA	1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	181.01	68.76
26 05 33 16-0148	EA	3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	237.98	82.52
26 05 33 16-0149	EA	1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box Note: Four hubs.	232.59	82.52
26 05 33 16-0150	EA	3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box Note: Four hubs.	280.54	99.70
26 05 33 16-0151		Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0152	EA	1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	130.78	41.26
26 05 33 16-0153	EA	3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	150.39	48.13
26 05 33 16-0154	EA	1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	176.03	58.44
26 05 33 16-0155	EA	1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	165.89	55.01
26 05 33 16-0156	EA	3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	190.90	65.33
26 05 33 16-0157	EA	1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	229.25	79.07
26 05 33 16-0158	EA	3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box Note: Two hubs.	206.81	65.33
26 05 33 16-0159	EA	3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box Note: Three hubs.	266.60	82.52
26 05 33 16-0160		Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0161	EA	1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	151.35	44.70
26 05 33 16-0162	EA	3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	166.98	51.57
26 05 33 16-0163	EA	1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	193.30	61.89
26 05 33 16-0164	EA	1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box Note: Two hubs.	181.92	58.44
26 05 33 16-0165	EA	3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box Note: Two hubs.	205.83	68.76
26 05 33 16-0166		Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0167	EA	1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box.....	170.52	44.70	
		Note: One hub.			
26 05 33 16-0168	EA	3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box.....	185.01	51.57	
		Note: One hub.			
26 05 33 16-0169	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box.....	210.78	58.44	
		Note: Two hubs.			
26 05 33 16-0170	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box.....	236.31	68.76	
		Note: Two hubs.			
26 05 33 16-0171 Cast Aluminum Boxes (26 05 33 16-0127)					
See CSI section 26 27 26 00-0263 for box covers.					
26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171)					
Note: Up to 2" deep boxes.					
26 05 33 16-0173	EA	1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box.....	110.64	34.38	
		Note: One hub.			
26 05 33 16-0174	EA	3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box.....	126.07	41.26	
		Note: One hub.			
26 05 33 16-0175	EA	1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box.....	138.15	51.57	
		Note: One hub.			
26 05 33 16-0176	EA	1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box.....	103.20	34.38	
		Note: One hub.			
26 05 33 16-0177	EA	3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box.....	131.31	41.26	
		Note: One hub.			
26 05 33 16-0178	EA	1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box.....	138.87	48.13	
		Note: Two hubs.			
26 05 33 16-0179	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box.....	166.62	58.44	
		Note: Two hubs.			
26 05 33 16-0180	EA	1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box.....	209.47	72.20	
		Note: Two hubs.			
26 05 33 16-0181	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box.....	151.80	48.13	
		Note: Two hubs.			
26 05 33 16-0182	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box.....	160.32	58.44	
		Note: Two hubs.			
26 05 33 16-0183	EA	1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box.....	144.45	48.13	
		Note: Two hubs.			
26 05 33 16-0184	EA	3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box.....	164.72	58.44	
		Note: Two hubs.			
26 05 33 16-0185	EA	1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box.....	139.69	48.13	
		Note: Two hubs.			
26 05 33 16-0186	EA	3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box.....	164.72	58.44	
		Note: Two hubs.			
26 05 33 16-0187	EA	1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box.....	128.72	48.13	
		Note: Two hubs.			
26 05 33 16-0188	EA	3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box.....	176.39	58.44	
		Note: Two hubs.			
26 05 33 16-0189	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box.....	163.79	61.89	
		Note: Three hubs.			
26 05 33 16-0190	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box.....	198.85	75.64	
		Note: Three hubs.			
26 05 33 16-0191	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box.....	175.16	61.89	
		Note: Three hubs.			
26 05 33 16-0192	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box.....	238.26	75.64	
		Note: Three hubs.			
26 05 33 16-0193	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box.....	174.21	61.89	
		Note: Three hubs.			
26 05 33 16-0194	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box.....	213.84	75.64	
		Note: Three hubs.			
26 05 33 16-0195	EA	3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box.....	217.22	75.64	
		Note: Three hubs.			
26 05 33 16-0196	EA	1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box.....	212.36	75.64	
		Note: Four hubs.			
26 05 33 16-0197	EA	3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box.....	259.05	92.83	
		Note: Four hubs.			
26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171)					
Note: >2" deep boxes.					
26 05 33 16-0199	EA	1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box.....	123.83	34.38	
		Note: One hub.			
26 05 33 16-0200	EA	3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box.....	148.33	41.26	
		Note: One hub.			
26 05 33 16-0201	EA	1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box.....	168.76	51.57	
		Note: One hub.			
26 05 33 16-0202	EA	3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box.....	160.37	41.26	
		Note: One hub.			
26 05 33 16-0203	EA	1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box.....	155.92	48.13	
		Note: Two hubs.			
26 05 33 16-0204	EA	3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box.....	187.57	58.44	
		Note: Two hubs.			
26 05 33 16-0205	EA	1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box.....	207.50	72.20	
		Note: Two hubs.			
26 05 33 16-0206	EA	3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box.....	190.36	58.44	
		Note: Two hubs.			



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0207	EA	3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box Note: Three hubs.	231.43	75.64
26 05 33 16-0208		Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0209	EA	1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	149.18	37.82
26 05 33 16-0210	EA	3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	170.37	44.70
26 05 33 16-0211	EA	1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	180.60	55.01
26 05 33 16-0212	EA	1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	185.01	51.57
26 05 33 16-0213	EA	3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	185.58	61.89
26 05 33 16-0214	EA	1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	229.51	75.64
26 05 33 16-0215		Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0216	EA	1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	149.03	37.82
26 05 33 16-0217	EA	3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	172.17	44.70
26 05 33 16-0218	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	189.13	51.57
26 05 33 16-0219	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	213.17	61.89
26 05 33 16-0220	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	189.13	51.57
26 05 33 16-0221	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	213.17	61.89
26 05 33 16-0222		Shallow, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0223	EA	1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	198.21	55.01
26 05 33 16-0224	EA	3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	221.19	65.33
26 05 33 16-0225		Deep, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0226	EA	3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	230.88	48.13
26 05 33 16-0227	EA	1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	255.74	58.44
26 05 33 16-0228		Cast Aluminum Explosion Proof Outlet Bodies (26 05 33 16-0127) Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229	EA	1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body Note: One hub.	237.15	55.01
26 05 33 16-0230	EA	3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body Note: One hub.	296.12	61.89
26 05 33 16-0231	EA	1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body Note: One hub.	266.65	68.76
26 05 33 16-0232	EA	1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body Note: One hub.	262.48	61.89
26 05 33 16-0233	EA	3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA Note: One hub.	322.37	68.76
26 05 33 16-0234		Non-Metallic (PVC) Boxes (26 05 33 16) See CSI section 26 27 26 00-0263 for box covers.		
26 05 33 16-0235		Shallow, Single Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0236	EA	1/2" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box Note: One hub.	70.96	28.88
26 05 33 16-0237	EA	3/4" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box Note: One hub.	81.01	33.70
26 05 33 16-0238	EA	1" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box Note: One hub.	91.98	40.91
26 05 33 16-0239	EA	1/2" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	90.63	38.51
26 05 33 16-0240	EA	3/4" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	106.43	45.73
26 05 33 16-0241	EA	1" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	129.09	55.36
26 05 33 16-0242	EA	1/2" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	90.97	38.51
26 05 33 16-0243	EA	3/4" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	105.49	45.73
26 05 33 16-0244	EA	1" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	125.90	55.36

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0245	EA	1/2" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Three hubs.	114.95	48.13
26 05 33 16-0246	EA	3/4" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Three hubs.	130.51	57.76
26 05 33 16-0247	EA	1" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Three hubs.	153.48	69.80
26 05 33 16-0248		Deep, Single Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0249	EA	No Hub, Type FD, Deep, Single Gang Non-Metallic (PVC) Box Note: No hubs.	71.99	28.88
26 05 33 16-0250	EA	1/2" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box Note: One hub.	70.19	28.88
26 05 33 16-0251	EA	3/4" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box Note: One hub.	83.45	33.70
26 05 33 16-0252	EA	1" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box Note: One hub.	92.98	40.91
26 05 33 16-0253	EA	1/2" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	92.65	38.51
26 05 33 16-0254	EA	3/4" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	103.78	45.73
26 05 33 16-0255	EA	1" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	123.93	55.36
26 05 33 16-0256		Shallow, Two Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0257	EA	1/2" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box Note: One hub.	76.31	31.29
26 05 33 16-0258	EA	3/4" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box Note: One hub.	87.38	36.10
26 05 33 16-0259	EA	1" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box Note: One hub.	96.97	43.32
26 05 33 16-0260	EA	1/2" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	93.20	40.91
26 05 33 16-0261	EA	3/4" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	115.63	48.13
26 05 33 16-0262	EA	1" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	136.69	57.76
26 05 33 16-0263	EA	1/2" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	95.59	40.91
26 05 33 16-0264	EA	3/4" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	122.25	48.13
26 05 33 16-0265	EA	1" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	131.38	57.76
26 05 33 16-0266	EA	1/2" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	116.79	50.54
26 05 33 16-0267	EA	3/4" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	154.65	60.17
26 05 33 16-0268	EA	1" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	158.13	72.20
26 05 33 16-0269		Poke Thru Units (26 05 33 16)		
26 05 33 16-0270		Surface Poke Thru Units (26 05 33 16-0269) Note: Excludes concrete drilling.		
26 05 33 16-0271	EA	Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	570.84	51.57
26 05 33 16-0272	EA	Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black non-metallic cover. Wiremold RC3KTCAL.	364.85	
26 05 33 16-0273	EA	20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit Note: Wiremold RC37REC.	52.00	13.76
26 05 33 16-0274	EA	Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit Note: Wiremold RC3APTCBK.	61.38	6.87
26 05 33 16-0275	EA	Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	645.12	55.01
26 05 33 16-0276	EA	Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black non- metallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	341.94	
26 05 33 16-0277	EA	Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4REC2.	88.70	20.63
26 05 33 16-0278	EA	Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4APTCBK.	61.38	6.87
26 05 33 16-0279	EA	Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold ABPLUG4.	177.89	13.76
26 05 33 16-0280	EA	Four Jack RC9AMD Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	511.18	48.13



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0281	EA	Abandonment Plate For RC9 Series Communications Poke Thru Unit Note: Wiremold RC9APTCBK.	42.97	6.87
26 05 33 16-0282	EA	Eight Jack AMD8 Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	508.86	48.13
26 05 33 16-0283	EA	Communication Conduit Adapter For Poke Thru Units..... Note: Includes two conduit connections for communication systems. Wiremold COM75.	59.36	6.87
26 05 33 16-0284		Recessed Poke Thru Units (26 05 33 16-0269) Note: Excludes concrete drilling.		
26 05 33 16-0285		Evolution 6AT Poke Thru Units (26 05 33 16-0284) Note: Excludes concrete drilling.		
26 05 33 16-0286	EA	Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	964.48	55.01
26 05 33 16-0287	EA	Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP) Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	964.60	55.01
26 05 33 16-0288	EA	Recessed Assembly With Surface Style Cover (Wiremold 6ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	919.41	55.01
26 05 33 16-0289	EA	Recessed Assembly With Flush Style Cover (Wiremold 6AT)..... Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	919.41	55.01
26 05 33 16-0290	EA	Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	964.48	55.01
26 05 33 16-0291	EA	Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	964.48	55.01
26 05 33 16-0292	EA	Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2" to 1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	881.26	55.01
26 05 33 16-0293	EA	Recessed Assembly With Disposable Plate (Wiremold 6STC)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.	553.52	51.57
26 05 33 16-0294	EA	Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV) Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.	593.38	51.57
26 05 33 16-0295	EA	Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP) Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.	597.33	51.57
26 05 33 16-0296	EA	6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS)..... Note: Non-metallic sleeve attaches to structural decking and maintains 6" to 6-1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	170.08	27.50
26 05 33 16-0297	EA	Surface Style Cover Assembly (Wiremold 6CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.	388.23	13.76
26 05 33 16-0298	EA	Flush Style Cover Assembly (Wiremold 6CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.	388.23	13.76
26 05 33 16-0299	EA	Furniture Feed Cover Assembly (Wiremold 6CFFTC) Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2" to 1-1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.	322.86	13.76
26 05 33 16-0300	EA	Tile Shim (Wiremold 6TS)..... Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.	46.79	3.44
26 05 33 16-0301	EA	Device Mounting Plate (Wiremold 6AAP) Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.	23.24	6.87
26 05 33 16-0302	EA	Device Mounting Plate (Wiremold 6ACT8A) Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.	26.78	6.87
26 05 33 16-0303	EA	Device Mounting Plate (Wiremold 6B) Note: Device plate used to blank off center compartment, when no devices are used.	23.14	6.87

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26 05 33 16-0304	EA	Device Mounting Plate (Wiremold 6DEC)..... Note: Device plate that will accept Decorator style devices such as 20 amperes receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.	23.20	6.87
26 05 33 16-0305	EA	Device Mounting Plate (Wiremold 6DP)..... Note: Device plate that will accept standard 20 amperes duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.	23.05	6.87
26 05 33 16-0306	EA	Device Mounting Plate (Wiremold 6MAAP)..... Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.	27.16	6.87
26 05 33 16-0307	EA	Device Mounting Plate (Wiremold 6MAAP2A)..... Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.	26.87	6.87
26 05 33 16-0308	EA	Mosaic Mounting Plate (Wiremold 6MOS)..... Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.	27.51	6.87
26 05 33 16-0309	EA	Device Mounting Plate (Wiremold 6S1)..... Note: Receptacle opening 1 3/8". For 6" poke-thru units only.	22.71	6.87
26 05 33 16-0310	EA	Device Mounting Plate (Wiremold 6S2)..... Note: Receptacle opening 1 9/16". For 6" poke-thru units only.	22.73	6.87
26 05 33 16-0311	EA	Device Mounting Plate (Wiremold 6SER)..... Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.	22.42	6.87
26 05 33 16-0312	EA	Device Mounting Plate (Wiremold 6TRAC)..... Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.	22.42	6.87
26 05 33 16-0313	EA	20 Amperes, Duplex Receptacles (Wiremold 68REC)..... Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.	53.65	10.31
26 05 33 16-0314	EA	Device Mounting Plate (Wiremold 68B)..... Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.	20.56	6.87
26 05 33 16-0315	EA	Device Mounting Plate (Wiremold 68MAAP)..... Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.	21.07	6.87
26 05 33 16-0316	EA	20 Amperes, Duplex Receptacles (Wiremold 68REC-25)..... Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated	167.57	12.37
26 05 33 16-0317	EA	Device Mounting Plate (Wiremold 682A)..... Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.	26.55	6.87
26 05 33 16-0318	EA	Bottom Housing Assembly (Wiremold 5PTHA)..... Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.	27.65	6.87
26 05 33 16-0319	EA	Bottom Housing Assembly (Wiremold 5BLH)..... Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.	28.43	6.87
26 05 33 16-0320	EA	Bottom Housing Assembly (Wiremold 152CHA)..... Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCFF). Covers the center compartment and one of the side compartments.	43.83	13.76
26 05 33 16-0321	EA	Bottom Housing Assembly (Wiremold 575CHA)..... Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.	50.30	17.19
26 05 33 16-0322	EA	Bottom Housing Assembly (Wiremold 175CHA)..... Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.	55.37	17.19
26 05 33 16-0323	EA	Bottom Housing Assembly (Wiremold 1125CHA)..... Note: One-gang 1 1/4" trade size conduit housing assembly.	42.12	13.76
26 05 33 16-0324	EA	Bottom Housing Assembly (Wiremold 1PTHA)..... Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.	27.46	6.87
26 05 33 16-0325	EA	Bottom Housing Assembly (Wiremold 1BLH)..... Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.	27.46	6.87
26 05 33 16-0326	EA	Bottom Housing Assembly (Wiremold 15FFHA)..... Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.	28.92	6.87
26 05 33 16-0327	EA	Bottom Housing Assembly (Wiremold 1BHA)..... Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.	29.90	6.87
26 05 33 16-0328		Evolution 8AT Poke Thru Units (26 05 33 16-0284) Note: Excludes concrete drilling.		
26 05 33 16-0329	EA	Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP)..... Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,264.30	55.01
26 05 33 16-0330	EA	Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,203.48	55.01
26 05 33 16-0331	EA	Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,278.07	55.01



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0332	EA	Recessed Assembly With Surface Style Cover (Wiremold 8ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,192.03	55.01
26 05 33 16-0333	EA	Recessed Assembly With Flush Style Cover (Wiremold 8AT)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,181.18	55.01
26 05 33 16-0334	EA	Recessed Assembly With Disposable Plate (Wiremold 8STC)..... Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	714.46	51.57
26 05 33 16-0335	EA	Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP)..... Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	800.14	51.57
26 05 33 16-0336	EA	8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS)..... Note: Non-metallic sleeve attaches to structural decking and maintains 8" to 8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	203.52	27.50
26 05 33 16-0337	EA	Surface Style Cover Assembly (Wiremold 8CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.	419.78	13.76
26 05 33 16-0338	EA	Flush Style Cover Assembly (Wiremold 8CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.	419.78	13.76
26 05 33 16-0339	EA	Tile Shim (Wiremold 8TS)..... Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.	72.80	3.44
26 05 33 16-0340	EA	Device Mounting Plate (Wiremold 8B)..... Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.	24.00	6.87
26 05 33 16-0341	EA	Device Mounting Plate (Wiremold 8DP)..... Note: Singlegang device plate that accepts standard 20 amperes duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	24.14	6.87
26 05 33 16-0342	EA	Device Mounting Plate (Wiremold 8DEC)..... Note: Singlegang device plate that will accept Decorator style devices such as 20 amperes receptacles, GGCIs, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	24.29	6.87
26 05 33 16-0343	EA	Device Mounting Plate (Wiremold 8ACT6A)..... Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	28.09	6.87
26 05 33 16-0344	EA	Mosaic Mounting Plate (Wiremold 8MOS)..... Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.	33.94	6.87
26 05 33 16-0345	EA	Crestron Double Gang Plate (Wiremold 8CREST)..... Note: Device plate accepts Crestron double-gang decorator style devices.	33.89	6.87
26 05 33 16-0346	EA	Device Mounting Plate (Wiremold 8S1)..... Note: Receptacle opening 1 3/8". For 8" poke-thru units only.	23.29	6.87
26 05 33 16-0347	EA	Device Mounting Plate (Wiremold 8S2)..... Note: Receptacle opening 1 9/16". For 8" poke-thru units only.	23.58	6.87
26 05 33 16-0348	EA	Device Mounting Plate (Wiremold 8TRAC)..... Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	23.29	6.87
26 05 33 16-0349	EA	Device Mounting Plate (Wiremold 8SER)..... Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	23.29	6.87
26 05 33 16-0350	EA	Device Mounting Plate (Wiremold 8MAAP)..... Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	33.41	6.87
26 05 33 16-0351	EA	Device Mounting Plate (Wiremold 8AAP)..... Note: Twogang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.	27.92	6.87
26 05 33 16-0352	EA	8" Divider (Wiremold 8DIV)..... Note: Divider allows for separation of services when required.	32.12	6.87
26 05 33 16-0353	EA	Bottom Housing Assembly (Wiremold 22CHA)..... Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.	43.83	13.76

26 05 33 23 Surface Raceways for Electrical Systems (26 05 33)

26 05 33 23-0001 Raceways (26 05 33 23)

26 05 33 23-0002 Wireway With Screw Cover (26 05 33 23-0001)

Note: Also known as wire trough. Galvanized steel construction. Mounted exposed on flat wall surface.

26 05 33 23-0003 2-1/2" x 2-1/2", Wireway With Screw Cover (26 05 33 23-0002)

26 05 33 23-0004	LF	2-1/2" x 2-1/2", NEMA 1, Surface Mounted Wireway With Screw Cover	33.82	6.28
		For Combination Hinged Screw Cover, Add	1.06	
		For Concrete Or Masonry Surface, Add	0.63	
26 05 33 23-0005	EA	2-1/2" x 2-1/2", End Plate For Surface Mounted Wireway With Screw Cover	26.56	9.42
		For Combination Hinged Screw Cover, Add	0.39	
26 05 33 23-0006	EA	2-1/2" x 2-1/2", Coupling For Surface Mounted Wireway With Screw Cover	31.20	11.75
		For Combination Hinged Screw Cover, Add	0.39	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0007	EA	2-1/2" x 2-1/2", Panel Adapter For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	66.58 1.13	21.99
26 05 33 23-0008	EA	2-1/2" x 2-1/2", Elbow For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	111.61 3.38	21.99
26 05 33 23-0009	EA	2-1/2" x 2-1/2", Tee For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	165.76 5.17	31.29
26 05 33 23-0010	EA	2-1/2" x 2-1/2", Cross For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	186.24 5.86	34.56
26 05 33 23-0011 4" x 4", Wireway With Screw Cover (26 05 33 23-0002)				
26 05 33 23-0012	LF	4" x 4", NEMA 1, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	41.37 1.28 0.79	7.92
26 05 33 23-0013	LF	4" x 4", NEMA 3R, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	76.29 3.03 0.79	7.92
26 05 33 23-0014	EA	4" x 4", End Plate For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	21.86 0.40	6.92
26 05 33 23-0015	EA	4" x 4", Coupling For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	34.43 0.40	13.19
26 05 33 23-0016	EA	4" x 4", Panel Adapter For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	78.33 1.22	26.89
26 05 33 23-0017	EA	4" x 4", Elbow For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	127.83 3.70	26.89
26 05 33 23-0018	EA	4" x 4", Tee For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	182.05 5.61	34.93
26 05 33 23-0019	EA	4" x 4", Cross For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	210.16 6.42	40.84
26 05 33 23-0020 6" x 6", Wireway With Screw Cover (26 05 33 23-0002)				
26 05 33 23-0021	LF	6" x 6", NEMA 1, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	62.59 2.19 0.94	9.42
26 05 33 23-0022	LF	6" x 6", NEMA 3R, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	123.82 5.25 0.94	9.42
26 05 33 23-0023	EA	6" x 6", End Plate For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	28.02 0.65	7.54
26 05 33 23-0024	EA	6" x 6", Coupling For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	44.36 0.65	15.71
26 05 33 23-0025	EA	6" x 6", Panel Adapter For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	112.75 2.51	31.29
26 05 33 23-0026	EA	6" x 6", Elbow For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	165.03 5.13	31.29
26 05 33 23-0027	EA	6" x 6", Tee For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	262.40 9.22	39.08
26 05 33 23-0028	EA	6" x 6", Cross For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	283.51 9.65	45.23
26 05 33 23-0029 8" x 8", Wireway With Screw Cover (26 05 33 23-0002)				
26 05 33 23-0030	LF	8" x 8", NEMA 1, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	102.49 4.10 1.03	10.30
26 05 33 23-0031	LF	8" x 8", NEMA 3R, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	189.70 8.46 1.03	10.30
26 05 33 23-0032	EA	8" x 8", End Plate For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	30.90 0.73	8.17
26 05 33 23-0033	EA	8" x 8", Coupling For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	48.49 0.73	16.97
26 05 33 23-0034	EA	8" x 8", Panel Adapter For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	125.96 2.85	34.43
26 05 33 23-0035	EA	8" x 8", Elbow For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	210.85 7.10	34.43
26 05 33 23-0036	EA	8" x 8", Tee For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	316.93 11.60	42.48
26 05 33 23-0037	EA	8" x 8", Cross For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	444.80 17.09	51.52
26 05 33 23-0038 10" x 10", Wireway With Screw Cover (26 05 33 23-0002)				
26 05 33 23-0039	LF	10" x 10", NEMA 1, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	149.68 6.29 1.20	11.94
26 05 33 23-0040	LF	10" x 10", NEMA 3R, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	267.71 12.19 1.20	11.94
26 05 33 23-0041	EA	10" x 10", End Plate For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	43.86 1.25	9.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0042 EA 10" x 10", Coupling For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	62.70 1.25	18.85
26 05 33 23-0043 EA 10" x 10", Panel Adapter For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	170.57 4.78	37.44
26 05 33 23-0044 EA 10" x 10", Elbow For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	339.00 13.20	37.44
26 05 33 23-0045 EA 10" x 10", Tee For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	515.55 21.06	47.25
26 05 33 23-0046 EA 10" x 10", Cross For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	739.69 31.64	53.40
26 05 33 23-0047 12" x 12", Wireway With Screw Cover (26 05 33 23-0002)		
26 05 33 23-0048 LF 12" x 12", NEMA 1, Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	175.67 7.34 1.45	14.45
26 05 33 23-0049 LF 12" x 12", NEMA 3R, Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	294.27 13.27 1.45	14.45
26 05 33 23-0050 EA 12" x 12", End Plate For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	58.33 1.91	10.05
26 05 33 23-0051 EA 12" x 12", Coupling For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	78.44 1.91	20.10
26 05 33 23-0052 EA 12" x 12", Panel Adapter For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	226.22 7.23	40.84
26 05 33 23-0053 EA 12" x 12", Elbow For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	449.27 18.38	40.84
26 05 33 23-0054 EA 12" x 12", Tee For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	580.12 23.98	50.26
26 05 33 23-0055 EA 12" x 12", Cross For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	952.81 41.99	56.55
26 05 33 23-0056 Surface Metal Raceways (26 05 33 23-0001)		
Note: Exposed on flat wall surface.		
26 05 33 23-0057 One Piece Surface Metal Raceways (26 05 33 23-0056)		
Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).		
26 05 33 23-0058 3/4" x 17/32" One Piece Surface Metal Raceways (Wiremold #500) (26 05 33 23-0057)		
Note: Available in ivory.		
26 05 33 23-0059 LF 3/4" x 17/32" One Piece Surface Metal Raceway (Wiremold #500) For Concrete Or Masonry Surface, Add	5.52 0.19	1.88
26 05 33 23-0060 EA Bushing (Wiremold #502)	5.44	2.52
26 05 33 23-0061 EA One Or Two Hole Strap (Wiremold #504)	5.49	2.52
26 05 33 23-0062 EA Connection Cover (Wiremold #506)	5.69	2.52
26 05 33 23-0063 EA Flat 90 Degree Elbow (Wiremold #511)	8.62	3.02
26 05 33 23-0064 EA Flat 45 Degree Elbow (Wiremold #512)	14.22	3.14
26 05 33 23-0065 EA Adjustable Internal Elbow (Wiremold #517)	10.74	3.77
26 05 33 23-0066 EA Adjustable External Elbow (Wiremold #518)	10.50	3.77
26 05 33 23-0067 3/4" x 21/32" One Piece Surface Metal Raceways (Wiremold #700) (26 05 33 23-0057)		
Note: Available in ivory and white.		
26 05 33 23-0068 LF 3/4" x 21/32" One Piece Surface Metal Raceway (Wiremold #700) For Concrete Or Masonry Surface, Add	6.99 0.25	2.52
26 05 33 23-0069 EA Bushing (Wiremold #702)	5.58	2.52
26 05 33 23-0070 EA One Or Two Hole Strap (Wiremold #704)	5.75	2.52
26 05 33 23-0071 EA Connection Cover (Wiremold #706)	5.79	2.52
26 05 33 23-0072 EA Flat 90 Degree Elbow (Wiremold #711)	12.74	5.02
26 05 33 23-0073 EA Flat 45 Degree Elbow (Wiremold #712)	19.90	5.02
26 05 33 23-0074 EA Adjustable Internal Elbow (Wiremold #717)	13.73	5.02
26 05 33 23-0075 EA Adjustable External Elbow (Wiremold #718)	13.28	5.02
26 05 33 23-0076 One Piece Surface Metal Raceways Fittings (Wiremold #500 And 700 Fittings) (26 05 33 23-0057)		
Note: Available in ivory.		
26 05 33 23-0077 EA 18" Flex Fitting, For #500 Or 700 (Wiremold #5700F)	37.46	3.77
26 05 33 23-0078 EA Galvanized Coupling For #500 Or 700 (Wiremold #5701)	5.72	2.52
26 05 33 23-0079 EA Supporting Clip, For #500 Or 700 (Wiremold #5703)	5.72	2.52
26 05 33 23-0080 EA Ground Clamp (Wiremold #5709)	16.44	3.77
26 05 33 23-0081 EA Grounding Connector (Wiremold #5709GC)	13.92	3.77
26 05 33 23-0082 EA L Or R (Left Or Right) Twisted Internal Ell (Wiremold #5711)	15.84	5.02
26 05 33 23-0083 EA Tee (Wiremold #5715)	17.86	6.28
26 05 33 23-0084 EA 2-1/2" x 2-3/8" x 2-1/2" Corner Box (Wiremold #5719)	30.75	5.02
26 05 33 23-0085 EA Utility Box For #500 Or #700 (Wiremold #57242)	23.72	5.02
26 05 33 23-0086 EA 2-3/8" Diameter, Blank Cover (Wiremold #5731)	12.77	3.14
26 05 33 23-0087 EA 3" Diameter, Outlet Box (Wiremold #5733)	29.31	5.02
26 05 33 23-0088 EA 4-3/4" Square x 1-3/8" Deep, Distribution Box (Wiremold #5735)	29.19	5.02
26 05 33 23-0089 EA 4-3/8" Blank Cover (Wiremold #5736)	13.53	3.14

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0090 EA 4-3/4" Diameter, Extension Box/Open Base (Wiremold #5737).....	26.55	5.02
26 05 33 23-0091 EA 5-1/2" Diameter, Extension Box/Open Base (Wiremold #5737A)	25.63	5.02
26 05 33 23-0092 EA 4-3/4" Diameter, Fixture Box/Solid Base (Wiremold #5738)	25.84	5.02
26 05 33 23-0093 EA 5-1/2" Diameter, Fixture Box/Solid Base (Wiremold #5738A).....	25.84	5.02
26 05 33 23-0094 EA 5-1/2" Diameter, Fan Box/Solid Base (Wiremold #5738AF)	29.19	5.02
26 05 33 23-0095 EA 6-3/8" Diameter, Fixture Box/Solid Base (Wiremold #5739)	28.84	5.02
26 05 33 23-0096 EA 6-3/8" Diameter, Extension Box/Open Base (Wiremold #5739A)	30.76	5.02
26 05 33 23-0097 EA Standard Switch Box For #500, Or #700 (Wiremold #57240).....	34.80	8.17
26 05 33 23-0098 EA Duplex Receptacle And Box, Ground, For #500 Or #700 (Wiremold #57243G).....	55.17	15.71
26 05 33 23-0099 EA 2-13/16" x 4-5/8" x 1-3/8" Switch And Receptacle Box For Shallow Type Switches (Wiremold #5741).....	26.36	8.17
26 05 33 23-0100 EA 1 Gang, 4-5/8" x 2-7/8" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744)	41.58	8.17
26 05 33 23-0101 EA 2 Gang, 4-3/4" x 4-3/4" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744-2).....	47.62	8.17
26 05 33 23-0102 EA 3 Gang, 4-5/8" x 6-1/2" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744-3).....	72.17	8.17
26 05 33 23-0103 EA 1 Gang, Signal Box (Wiremold #5744S)	37.65	6.92
26 05 33 23-0104 EA 2 Gang, Signal Box (Wiremold #5744S-2)	42.00	6.92
26 05 33 23-0105 EA 3 Gang, Signal Box (Wiremold #5744S-3)	67.24	6.92
26 05 33 23-0106 EA 4-5/8" x 2-7/8" x 1-3/4" Combination Switch And Receptacle Box With 1/2" KO's (Wiremold #5745).....	27.52	8.17
26 05 33 23-0107 EA 4-5/8" x 2-7/8" x 1-3/8", 1 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747)	24.22	8.17
26 05 33 23-0108 EA 4-3/4" x 4-3/4" x 1-3/8", 2 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747-2)	33.98	8.17
26 05 33 23-0109 EA 4-5/8" x 6-1/2" x 2-3/4", 3 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747-3)	65.89	8.17
26 05 33 23-0110 EA 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748)	25.88	8.17
26 05 33 23-0111 EA 4-3/4" x 4-3/4" x 1-3/4", 2 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-2)	35.95	8.17
26 05 33 23-0112 EA 4-5/8" x 6-1/2" x 1-3/4", 3 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-3)	64.05	8.17
26 05 33 23-0113 EA 4-5/8" x 8-11/32" x 1-3/4", 4 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-4)	94.96	8.17
26 05 33 23-0114 EA 4-5/8" x 10-5/32" x 1-3/4", 5 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-5)	156.43	8.17
26 05 33 23-0115 EA 4-5/8" x 11-31/32" x 1-3/4", 6 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-6)	159.17	8.17
26 05 33 23-0116 EA 4-3/8" x 2-7/8" x 15/16" Shallow Switch And Receptacle Box For Shallow Duplex Devices (Wiremold #5748-S).....	25.56	8.17
26 05 33 23-0117 EA 4-5/8" x 2-7/8" x 15/16", 1 Gang, Flush-Type Extension Adapter (Wiremold #5751).....	24.86	8.17
26 05 33 23-0118 EA 4-3/4" x 4-3/4" x 15/16", 2 Gang, Flush-Type Extension Adapter (Wiremold #5751-2).....	32.99	8.17
26 05 33 23-0119 EA 4-5/8" x 6-1/2" x 15/16", 3 Gang, Flush-Type Extension Adapter (Wiremold #5751-3).....	64.67	8.17
26 05 33 23-0120 EA 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Deep Flush-Type Extension Adapter (Wiremold #5751A).....	26.85	8.17
26 05 33 23-0121 EA 4-11/16" x 4-11/16" x 1-3/8", 2 Gang, Alarm Device Box (Wiremold #5752).....	34.70	8.17
26 05 33 23-0122 EA 4-11/16" x 4-11/16" x 2-3/4", 2 Gang, Extra Deep Alarm Device Box (Wiremold #5753).....	49.89	8.17
26 05 33 23-0123 EA Blank Extension Box (Wiremold #5760).....	17.34	3.14
26 05 33 23-0124 EA 1/2" Special Nipple (Wiremold #5780)	16.52	3.14
26 05 33 23-0125 EA 1/2" Box Connector (Wiremold #5781)	11.02	3.14
26 05 33 23-0126 EA 3/4" Box Connector (Wiremold #5781A).....	20.73	3.77
26 05 33 23-0127 EA 1/2" Conduit Connector (Wiremold #5782)	11.12	3.14
26 05 33 23-0128 EA 3/4" Conduit Connector (Wiremold #5782A).....	25.95	3.77
26 05 33 23-0129 EA 1/2" Elbow Conduit Connector (Wiremold #5784).....	23.25	3.77
26 05 33 23-0130 EA Combination Connector, To Any 3-1/4" Or 4" Outlet Box (Wiremold #5785)	12.98	3.77
26 05 33 23-0131 EA Offset Connector (Wiremold #5786)	21.60	3.77
26 05 33 23-0132 EA Armor Cable Connector (Wiremold #5790B)	11.28	3.14
26 05 33 23-0133 EA 1/2" Electrical Metallic Tubing (EMT) Connector, For #500 Or 700 (Wiremold #5791).....	9.97	2.52
26 05 33 23-0134 1-9/16" x 11/32" One Piece Surface Metal Raceways (Wiremold #1500) (26 05		
33 23-0057) Note: Galvanized finish.		
26 05 33 23-0135 LF 1-9/16" x 11/32" One Piece Surface Metal Raceway (Wiremold #1500-10)	10.14	3.14
For Concrete Or Masonry Surface, Add		0.31
26 05 33 23-0136 EA Wire Clip (Wiremold #1500WC).....	6.30	2.52
26 05 33 23-0137 EA Bushing (Wiremold #1502)	7.47	3.14
26 05 33 23-0138 EA 2-Hole Strap (Wiremold #1504)	8.44	3.77
26 05 33 23-0139 EA Flat Elbow (Wiremold #1511).....	32.71	11.94
26 05 33 23-0140 EA Internal Elbow (Wiremold #1517).....	33.80	11.94
26 05 33 23-0141 EA Adapter Fitting (Wiremold #1517B).....	36.35	11.94
26 05 33 23-0142 EA External Elbow (Wiremold #1518)	36.14	11.94
26 05 33 23-0143 EA Utility Box (Wiremold #1528)	32.68	8.17
26 05 33 23-0144 EA Junction Box (Wiremold #1542D).....	33.71	8.17
26 05 33 23-0145 EA Duplex Receptacle (Wiremold #1543GL).....	66.05	15.71
26 05 33 23-0146 EA Single Receptacle Box (Wiremold #1546A).....	34.71	8.17
26 05 33 23-0147 EA Duplex Receptacle Box (Wiremold #1546B).....	42.49	8.17
26 05 33 23-0148 EA Telephone Box (Wiremold #1546T).....	41.68	8.17
26 05 33 23-0149 EA Combination Connection (Wiremold #1585)	20.15	3.77
26 05 33 23-0150 2-7/32" x 28/32" One Piece Surface Metal Raceways (Wiremold #2600) (26 05		
33 23-0057) Note: Galvanized finish.		
26 05 33 23-0151 LF 2-7/32" x 28/32" One Piece Surface Metal Raceway (Wiremold #2600-10)	16.48	5.65
For Concrete Or Masonry Surface, Add		0.57
26 05 33 23-0152 EA Wire Clip (Wiremold #2600WC).....	6.26	2.52
26 05 33 23-0153 EA Fiber Bushing (Wiremold #2602)	6.96	2.52
26 05 33 23-0154 EA 2-5/8", 90 Degree Flat Elbow (Wiremold #2611).....	24.26	4.40
26 05 33 23-0155 EA 5" Diameter, Junction Box (Wiremold #2642D).....	36.27	6.28
26 05 33 23-0156 EA Service Fitting (Wiremold #2686FO).....	35.75	7.54



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0157		Two Piece Surface Metal Raceways (26 05 33 23-0056) Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).		
26 05 33 23-0158		1-9/32" x 3/4" Two Piece Surface Metal Raceways (Wiremold #2000) (26 05 33 23-0157)		
26 05 33 23-0159	LF	1-9/32" x 3/4" Two Piece Surface Metal Raceway Base And Cover (Wiremold #2000BC)	9.56	3.14
		<i>For Concrete Or Masonry Surface, Add</i>	0.31	
26 05 33 23-0160	EA	Wire Clip (Wiremold #2000WC).....	4.62	2.52
26 05 33 23-0161	EA	Coupling (Wiremold #2001)	12.36	3.14
26 05 33 23-0162	EA	Supporting Clip (Wiremold #2003).....	5.91	1.88
26 05 33 23-0163	EA	Cover Clip (Wiremold #2006).....	5.50	1.88
26 05 33 23-0164	EA	Ground Clamp (Wiremold #2009)	14.10	3.14
26 05 33 23-0165	EA	Entrance End Fitting (Wiremold #2010A2)	28.19	9.42
26 05 33 23-0166	EA	Entrance End Fitting (Wiremold #2010A3)	47.87	12.57
26 05 33 23-0167	EA	Blank End Fitting (Wiremold #2010B).....	7.54	3.14
26 05 33 23-0168	EA	Flat 90 Degree Elbow (Wiremold #2011).....	24.26	8.17
26 05 33 23-0169	EA	Tee (Wiremold #2015).....	44.19	11.82
26 05 33 23-0170	EA	Internal Corner Coupling (Wiremold #2017TC).....	15.64	6.28
26 05 33 23-0171	EA	Single Gang Device Box (Wiremold #2048)	36.61	11.18
26 05 33 23-0172	EA	2-Gang device Box (Wiremold #2048-2).....	57.24	12.44
26 05 33 23-0173	EA	Flush Plate Adapter (Wiremold #2051H)	39.69	12.44
26 05 33 23-0174	EA	Side Reducing Connector (Wiremold #2089)	32.35	6.28
26 05 33 23-0175	EA	#2089E End Reducing Connector	13.40	3.14
26 05 33 23-0176		1-7/8" x 7/8" Two Piece Surface Metal Raceways (Wiremold #2400) (26 05 33 23-0157) Note: Available in gray enamel (G) or ivory (V).		
26 05 33 23-0177	LF	1-7/8" x 7/8" Two Piece Surface Metal Raceway Base (Wiremold #2400B).....	8.20	3.14
		<i>For Concrete Or Masonry Surface, Add</i>	0.31	
26 05 33 23-0178	LF	1-7/8" x 7/8" Divided Two Piece Surface Metal Raceway Base (Wiremold #2400BD)	8.97	3.14
		<i>For Concrete Or Masonry Surface, Add</i>	0.31	
26 05 33 23-0179	LF	Raceway Cover (Wiremold #2400C)	3.21	0.63
26 05 33 23-0180	EA	Wire Clip (Wiremold #2400WC).....	4.61	2.52
26 05 33 23-0181	EA	Coupling (Wiremold #2401)	12.26	3.14
26 05 33 23-0182	EA	Divided Raceway Coupling (Wiremold #2401D).....	9.96	3.14
26 05 33 23-0183	EA	Cover Clip (Wiremold #2406).....	5.53	1.88
26 05 33 23-0184	EA	Device Bracket Frame (Wiremold #2407-2CM)	40.75	9.42
26 05 33 23-0185	EA	Device Bracket Frame (Wiremold #2407-2TJ).....	39.07	9.42
26 05 33 23-0186	EA	Ground Clamp (Wiremold #2409)	10.61	2.52
26 05 33 23-0187	EA	End Fitting (Wiremold #2410A).....	27.03	9.42
26 05 33 23-0188	EA	Blank End (Wiremold #2410B).....	7.60	3.14
26 05 33 23-0189	EA	Divided Blank End Fitting (Wiremold #2410BD)	7.69	3.14
26 05 33 23-0190	EA	Entrance End Fitting (Wiremold #2410C)	40.58	9.42
26 05 33 23-0191	EA	Divided Entrance End Fitting (Wiremold #2410D)	38.95	9.42
26 05 33 23-0192	EA	Divided Entrance End Fitting (Wiremold #2410DFO)	63.23	9.42
26 05 33 23-0193	EA	Full Cap Entrance End Fitting (Wiremold #2410FC)	48.67	9.42
26 05 33 23-0194	EA	Divided Flat 90 Degree Elbow (Wiremold #2411D)	30.19	9.42
26 05 33 23-0195	EA	Radiused Divided Flat 90 Degree Elbow (Wiremold #2411DFO)	47.78	9.42
26 05 33 23-0196	EA	Radiused Flat 90 Degree Elbow (Wiremold #2411FO).....	42.88	9.30
26 05 33 23-0197	EA	Flat 90 Degree Elbow (Wiremold #2411M).....	28.83	9.42
26 05 33 23-0198	EA	Radiused Divided Tee (Wiremold #2415DFO)	51.18	9.30
26 05 33 23-0199	EA	Radiused Tee (Wiremold #2415FO).....	48.72	9.30
26 05 33 23-0200	EA	Tee (Wiremold #2415M).....	33.99	9.30
26 05 33 23-0201	EA	Divided Internal Coupling (Wiremold #2417D).....	28.51	9.30
26 05 33 23-0202	EA	Radiused Divided Internal Coupling (Wiremold #2417DFO).....	44.25	9.30
26 05 33 23-0203	EA	Radiused Internal Coupling (Wiremold #2417FO)	42.96	9.30
26 05 33 23-0204	EA	Internal Coupling (Wiremold #2417M)	27.65	9.30
26 05 33 23-0205	EA	Radiused Divided External Coupling (Wiremold #2418DFO)	48.02	9.30
26 05 33 23-0206	EA	Radiused External Coupling (Wiremold #2418FO)	47.26	9.30
26 05 33 23-0207	EA	External Coupling (Wiremold #2418M).....	33.43	9.30
26 05 33 23-0208	EA	1 Gang, Extra Deep Switch And Receptacle (Wiremold #2444).....	43.64	8.17
26 05 33 23-0209	EA	2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444-2).....	48.37	8.17
26 05 33 23-0210	EA	Over Raceway, Extra Deep Switch And Receptacle Box, 2 Gang (Wiremold #2444-2LS).....	48.62	8.17
26 05 33 23-0211	EA	Divided, 1 Gang, Extra Deep Switch And Receptacle (Wiremold #2444D)	46.62	8.17
26 05 33 23-0212	EA	Divided, 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444D-2A).....	65.49	8.17
26 05 33 23-0213	EA	Divided, Over Raceway, 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444D-2N)	57.74	8.17
26 05 33 23-0214	EA	4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Switch And Receptacle Box For Shallow Devices (Wiremold #2448)	30.79	8.17
26 05 33 23-0215	EA	4-3/4" x 4-3/4" x 1-3/4", 2 Gang, Switch And Receptacle Box For Shallow Devices (Wiremold #2448-2)	47.33	8.17
26 05 33 23-0216	EA	Device Bracket Type Adapter Plate (Wiremold #2450).....	14.60	3.14
26 05 33 23-0217	EA	4-1/2" x 4-1/2" Back Feed Fitting (Wiremold #2451H).....	34.77	9.42
26 05 33 23-0218	EA	Bridge Fitting For 2400/700/500 (Wiremold #2475D)	101.88	9.42
26 05 33 23-0219	EA	Side Reducing Connector (Wiremold #2489)	29.85	5.02
26 05 33 23-0220		2-3/4" x 1-17/32" Two Piece Surface Metal Raceways (Wiremold #3000) (26 05 33 23-0157) Note: Available in gray enamel (G) or ivory (V).		
26 05 33 23-0221	LF	2-3/4" x 1-17/32" Two Piece Surface Metal Raceway Base (Wiremold #3000B).....	16.31	5.65
		<i>For Concrete Or Masonry Surface, Add</i>	0.57	
26 05 33 23-0222	LF	Raceway Cover (Wiremold #3000CE).....	3.85	0.63
26 05 33 23-0223	EA	Wire Clips For Conductors (Wiremold #3000WC)	6.23	2.52

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0224 EA Couplings (Wiremold #3001)	16.11	2.52
26 05 33 23-0225 EA Rigid Inside Coupling (Wiremold #3001A)	15.89	3.14
26 05 33 23-0226 EA Supporting Clip (Wiremold #3003)	11.75	3.14
26 05 33 23-0227 EA Clip Cover (Wiremold #3006E)	6.76	2.52
26 05 33 23-0228 EA Device Brackets (Wiremold #3007C)	17.46	5.02
26 05 33 23-0229 EA C-Hanger (Wiremold #3008C)	17.33	3.77
26 05 33 23-0230 EA Entrance End Fitting For Connecting To 1/2" Conduit Or Armored Connectors (Wiremold #3010AE)	40.45	11.94
26 05 33 23-0231 EA Blank End Fittings (Wiremold #3010B)	14.82	5.02
26 05 33 23-0232 EA Entrance End Fitting For Connecting To Rigid Or Flexible Conduit (Wiremold #3010C)	44.76	11.94
26 05 33 23-0233 EA Flat 90 Degree Elbow (Wiremold #3011E)	67.21	15.58
26 05 33 23-0234 EA Wall Box Connector (Wiremold #3014C)	48.08	15.71
26 05 33 23-0235 EA Tee Fitting (Wiremold #3015E)	92.35	19.47
26 05 33 23-0236 EA Internal Corner Coupling (Wiremold #3017TCE)	43.74	11.94
26 05 33 23-0237 EA External Corner (Wiremold #3018AE)	53.90	11.94
26 05 33 23-0238 EA Single Receptacle Cover With Face Diameters Of 1.38" To 1.4" (Wiremold #3027AE)	38.56	11.94
26 05 33 23-0239 EA Utility Box (Wiremold #3028)	65.13	11.94
26 05 33 23-0240 EA Single Receptacle Cover With Face Diameters Of 1.56" To 1.57" (Wiremold #3033JE)	21.00	3.14
26 05 33 23-0241 EA Blank Cover (Wiremold #3036HE)	22.97	3.14
26 05 33 23-0242 EA Switch Cover (Wiremold #3040CE)	20.95	3.14
26 05 33 23-0243 EA Duplex Receptacle Cover (Wiremold #3043BE)	23.57	3.77
26 05 33 23-0244 EA 15 Amperes, 125 Volt Duplex Grounding Receptacle And Cover (Wiremold #3043GE)	62.05	16.34
26 05 33 23-0245 EA 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #3044-2)	73.30	11.94
26 05 33 23-0246 EA Duplex Receptacle Cover (Wiremold #3046BE)	21.12	3.77
26 05 33 23-0247 EA Tap Off Fitting (Wiremold #3046H-2)	23.13	3.14
26 05 33 23-0248 EA 1-15/16" Deep x 6" Long, Circuit Breaker Housing (Wiremold #3046KD)	91.37	7.54
26 05 33 23-0249 EA 2-3/4" Deep x 7-3/8" Long, Circuit Breaker Housing (Wiremold #3046KTSQ)	223.31	7.54
26 05 33 23-0250 EA 1-13/16" Deep x 7-3/8" Long, Circuit Breaker Housing (Wiremold #3046QOU)	79.54	7.54
26 05 33 23-0251 EA 1-13/16" Deep x 7-15/16" Long x 2-13/16" Wide, Bump Up Device Plate Cover (Wiremold #3046S)	86.09	7.54
26 05 33 23-0252 EA 1-13/32" Deep x 7-15/16" Long x 2-13/16" Wide, Bump Up Device Plate Cover (Wiremold #3046U)	86.09	7.54
26 05 33 23-0253 EA Rectangular Receptacle Cover (Wiremold #3048R)	27.34	3.77
26 05 33 23-0254 4-3/4" x 1-3/4" Two Piece Surface Metal Raceways (Wiremold #4000) (26 05 33 23-0157)		
Note: Available in gray enamel (G) or ivory (V).		
26 05 33 23-0255 LF 4-3/4" x 1-3/4" Two Piece Surface Metal Raceway Base (Wiremold #4000B-10)	19.81	5.65
For Concrete Or Masonry Surface, Add		0.61
26 05 33 23-0256 LF Raceway Cover (Wiremold #4000C)	6.94	0.63
26 05 33 23-0257 LF Divider (Wiremold #4000D)	3.39	0.63
26 05 33 23-0258 EA Wire Clips For Conductors (Wiremold #4000WC)	7.57	3.14
26 05 33 23-0259 EA Couplings (Wiremold #4001A)	19.72	3.77
26 05 33 23-0260 EA Divider Clip (Wiremold #4001D)	9.35	3.77
26 05 33 23-0261 EA Seam Clip (Wiremold #4006)	9.51	3.77
26 05 33 23-0262 EA Single Device Fitting (Wiremold #4007C-1R)	39.16	8.17
26 05 33 23-0263 EA Blank End Fittings (Wiremold #4010B)	20.91	5.02
26 05 33 23-0264 EA Entrance End Fitting (Wiremold #4010DFO)	80.29	19.35
26 05 33 23-0265 EA Flat 90 Degree Elbow (Wiremold #4011)	74.54	15.71
26 05 33 23-0266 EA Radiused Flat 90 Degree Elbow (Wiremold #4011FO)	87.91	15.71
26 05 33 23-0267 EA Internal Or External 45 Degree Elbow (Wiremold #4012TX)	81.28	19.47
26 05 33 23-0268 EA Wall Box Connector (Wiremold #4014A)	108.03	19.47
26 05 33 23-0269 EA Tee Fitting (Wiremold #4015)	119.77	19.47
26 05 33 23-0270 EA Divided Tee Fitting (Wiremold #4015D)	124.49	19.47
26 05 33 23-0271 EA Radiused Full Capacity Divided Tee Fitting (Wiremold #4015DFO)	148.48	19.47
26 05 33 23-0272 EA Radiused Tee Fitting (Wiremold #4015FO)	148.94	19.47
26 05 33 23-0273 EA Internal Elbow (Wiremold #4017)	66.21	19.47
26 05 33 23-0274 EA Internal Elbow (Wiremold #4017FO)	117.68	19.47
26 05 33 23-0275 EA Inverted Internal Elbow (Wiremold #4017N)	73.29	19.47
26 05 33 23-0276 EA Internal Corner Coupling (Wiremold #4017TCA)	62.47	19.47
26 05 33 23-0277 EA External Elbow (Wiremold #4018)	98.37	19.47
26 05 33 23-0278 EA Radiused External Elbow (Wiremold #4018FO)	114.01	19.47
26 05 33 23-0279 EA Single Locking Receptacle And Two RJ11/45 Modular Connectors Outlet Cover (Wiremold #4046ARJ)	96.09	8.17
26 05 33 23-0280 EA Double Duplex Receptacle Outlet Cover (Wiremold #4046B-2)	101.87	8.17
26 05 33 23-0281 EA Duplex Receptacle And Two RJ11/45 Modular Connector Cover (Wiremold #4046DRJ)	101.87	8.17
26 05 33 23-0282 EA Double Duplex Receptacle And Four RJ11/45 Modular Connector Cover (Wiremold #4046DRJ-2)	136.08	8.17
26 05 33 23-0283 EA Tap-Off Fitting (Wiremold #4046H-2)	28.83	8.17
26 05 33 23-0284 EA Combination Single Receptacle And Phone Outlet Center (Wiremold #4046JRJ)	87.29	3.77
26 05 33 23-0285 EA Rectangular Receptacle And Two RJ11/45 Modular Connector Cover (Wiremold #4046RRJ)	104.26	8.17
26 05 33 23-0286 EA 1 Gang Device Plate (Wiremold #G4047C-1)	28.53	8.17
26 05 33 23-0287 EA 2 Gang Device Plate (Wiremold #G4047C-2)	33.25	8.17
26 05 33 23-0288 EA Device Mounting Bracket (Wiremold #4050)	32.33	6.28
26 05 33 23-0289 EA #4000 To #3000 Take-off Connector (Wiremold #4074A)	150.76	19.47
26 05 33 23-0290 EA Bridge Fitting (Wiremold #4075D)	135.93	19.47
26 05 33 23-0291 EA Bridge Fitting (Wiremold #4075DA)	135.93	19.47
26 05 33 23-0292 EA Panel Connector (Wiremold #4086A)	110.21	37.07
26 05 33 23-0293 EA Reducing Connector Fitting (Wiremold #4089)	67.69	19.47

26 05 33 23-0294 4-3/4" x 3-9/16" Two Piece Surface Metal Raceways (Wiremold #6000) (26 05 33 23-0157)

Note: Available in gray enamel (G) or ivory (V).

26 05 33 23-0295 LF 4-3/4" x 3-9/16" Two Piece Surface Metal Raceway Base (Wiremold #6000B-10)	28.53	6.92
For Concrete Or Masonry Surface, Add		0.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0296 LF Raceway Cover (Wiremold #6000C)	8.17	1.88
26 05 33 23-0297 LF Divider (Wiremold #6000DA)	8.57	1.88
26 05 33 23-0298 EA Wire Clips For Conductors (Wiremold #6000WC)	8.64	3.14
26 05 33 23-0299 EA Couplings (Wiremold #6001A)	24.00	6.28
26 05 33 23-0300 EA Divider Clip (Wiremold #6001D)	11.08	3.14
26 05 33 23-0301 EA Converter Coupling (Wiremold #6001TX)	30.66	8.17
26 05 33 23-0302 EA Connection Cover (Wiremold #6006)	29.13	8.17
26 05 33 23-0303 EA Single Gang Device Plate (Wiremold #6007C-1)	30.52	8.17
26 05 33 23-0304 EA Two Gang Device Plate (Wiremold #6007C-2)	33.34	8.17
26 05 33 23-0305 EA C-Hanger (Wiremold #6008A)	48.47	11.94
26 05 33 23-0306 EA Blank End Fittings (Wiremold #6010B)	52.74	18.85
26 05 33 23-0307 EA Combination Flat Elbow (Wiremold #6011TX)	97.71	18.85
26 05 33 23-0308 EA Internal-External 45 Degree Elbow (Wiremold #6012TX)	99.29	18.09
26 05 33 23-0309 EA Connector Fitting (Wiremold #6014A)	141.20	19.47
26 05 33 23-0310 EA Combination Internal-External Elbow (Wiremold #6017TX)	101.37	21.36
26 05 33 23-0311 EA Circuit Breaker Housing (Wiremold #6046KD)	175.37	21.36
26 05 33 23-0312 EA #6000 To #6000 Take-off Connector (Wiremold #6074)	169.10	18.85
26 05 33 23-0313 EA #6000 To #4000 Take-off Connector (Wiremold #6074A)	182.83	18.85
26 05 33 23-0314 EA Panel Connector (Wiremold #6086)	113.33	43.73
26 05 33 23-0315 Two Piece Surface Aluminum Raceways (26 05 33 23-0056)		
Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).		
26 05 33 23-0316 1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceways (Wiremold #AL2000) (26 05 33 23-0315)		
26 05 33 23-0317 LF 1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceway Base (Wiremold #AL2000B)	12.92	3.14
For Concrete Or Masonry Surface, Add		0.31
26 05 33 23-0318 LF Aluminum Raceway Cover (Wiremold #AL2000C)	6.52	0.63
26 05 33 23-0319 EA Wire Clip (Wiremold #AL2000WC)	6.24	2.52
26 05 33 23-0320 EA Coupling (Wiremold #AL2001)	13.65	3.14
26 05 33 23-0321 EA Supporting Clip (Wiremold #AL2003)	6.76	1.88
26 05 33 23-0322 EA Cover Clip (Wiremold #AL2006)	8.61	1.88
26 05 33 23-0323 EA Ground Clamp (Wiremold #AL2009)	12.29	3.14
26 05 33 23-0324 EA Entrance End Fitting (Wiremold #AL2010A)	34.30	9.42
26 05 33 23-0325 EA Blank End Fitting (Wiremold #AL2010B)	11.09	3.14
26 05 33 23-0326 EA Flat 90 Degree Elbow (Wiremold #AL2011)	39.99	8.17
26 05 33 23-0327 EA Tee (Wiremold #AL2015)	54.15	11.82
26 05 33 23-0328 EA Internal Corner Elbow (Wiremold #AL2017)	36.28	6.28
26 05 33 23-0329 EA External Corner Elbow (Wiremold #AL2018)	36.20	6.28
26 05 33 23-0330 EA 2 To 15 Amperes, In-Line Receptacle (Wiremold #AL2043)	59.02	12.44
26 05 33 23-0331 EA 4-13/16" Round Fixture Box (Wiremold #AL2038)	138.18	11.18
26 05 33 23-0332 EA 4-1/2" x 3" x 2-1/4" D Box (Wiremold #AL2044)	60.92	11.18
26 05 33 23-0333 EA 4-5/8" x 4-7/8" x 2-1/2" D Box (Wiremold #AL2044-2)	127.07	12.44
26 05 33 23-0334 EA Single Gang Shallow Device Box (Wiremold #AL2047)	63.13	11.18
26 05 33 23-0335 EA 2-Gang Shallow Device Box (Wiremold #AL2047-2)	112.21	12.44
26 05 33 23-0336 EA Flush Plate Adapter (Wiremold #AL2051H)	47.49	12.44
26 05 33 23-0337 2" x 1-9/32" Two Piece Surface Aluminum Raceways (Wiremold #AL2400) (26 05 33 23-0315)		
26 05 33 23-0338 LF 2" x 1-9/32" Two Piece Surface Aluminum Raceway Base (Wiremold #AL2400B)	14.31	3.14
For Concrete Or Masonry Surface, Add		0.31
26 05 33 23-0339 LF Aluminum Raceway Cover (Wiremold #AL2400C)	6.58	0.63
26 05 33 23-0340 EA Wire Clip (Wiremold #AL2400WC)	8.46	2.52
26 05 33 23-0341 EA Coupling (Wiremold #AL2401)	15.76	3.14
26 05 33 23-0342 EA Cover Clip (Wiremold #AL2406)	11.04	1.88
26 05 33 23-0343 EA Ground Clamp (Wiremold #AL2409)	9.70	2.52
26 05 33 23-0344 EA Blank End (Wiremold #AL2410B)	12.14	3.14
26 05 33 23-0345 EA End Fitting (Wiremold #AL2410B2)	25.96	9.42
26 05 33 23-0346 EA Flat 90 Degree Elbow (Wiremold #AL2411)	47.59	9.42
26 05 33 23-0347 EA Tee (Wiremold #AL2415)	51.93	9.30
26 05 33 23-0348 EA Fourway Fitting (Wiremold #AL2416)	61.05	9.30
26 05 33 23-0349 EA Internal Coupling (Wiremold #AL2417)	47.42	9.30
26 05 33 23-0350 EA External Coupling (Wiremold #AL2418)	51.09	9.30
26 05 33 23-0351 EA 4-1/2" x 4-1/2" Back Feed Fitting (Wiremold #AL2451H)	42.43	9.42
26 05 33 23-0352 2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceways (Wiremold #AL3300) (26 05 33 23-0315)		
26 05 33 23-0353 LF 2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceway Base (Wiremold #AL3300B)	26.28	5.65
For Concrete Or Masonry Surface, Add		0.57
26 05 33 23-0354 LF Aluminum Raceway Cover (Wiremold #AL3300CE)	8.05	0.63
26 05 33 23-0355 LF Raceway Divider (Wiremold #AL3300D)	6.61	5.65
26 05 33 23-0356 EA Wire Clips For Conductors (Wiremold #AL3300WC)	12.71	2.52
26 05 33 23-0357 EA Couplings (Wiremold #AL3301)	22.46	2.52
26 05 33 23-0358 EA Divider Coupling (Wiremold #AL3301D)	19.16	3.14
26 05 33 23-0359 EA Ground Clamp (Wiremold #AL3309)	12.76	2.52
26 05 33 23-0360 EA Blank End Fittings (Wiremold #AL3310B)	26.60	5.02
26 05 33 23-0361 EA End Fitting (Wiremold #AL3310B1)	42.10	11.94

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0362 EA Flat 90 Degree Elbow (Wiremold #AL3311).....	134.22	15.58
Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0363 EA Tee Fitting (Wiremold #AL3315).....	153.48	19.47
Note: Includes three (3) AL3301 couplings.		
26 05 33 23-0364 EA Cross Fitting (Wiremold #AL3316).....	174.34	19.47
Note: Includes four (4) AL3301 couplings.		
26 05 33 23-0365 EA Internal Elbow (Wiremold #AL3317).....	126.55	11.94
Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0366 EA External Elbow (Wiremold #AL3318).....	126.69	11.94
Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0367 EA Duplex Receptacle Cover (Wiremold #AL3346D).....	27.75	3.77
26 05 33 23-0368 EA Single Receptacle Cover (Wiremold #AL3346E).....	27.56	3.77
26 05 33 23-0369 EA GFCI/Surge Receptacle Cover (Wiremold #AL3346G).....	27.26	3.77
26 05 33 23-0370 EA Single Device Cover Plate (Wiremold #AL3356R).....	27.47	3.14
26 05 33 23-0371 5" x 2" Two Piece Surface Aluminum Raceways (Wiremold #AL5200) (26 05 33 23-0315)		
26 05 33 23-0372 LF 5" x 2" Two Piece Surface Aluminum Raceway Base (Wiremold #AL5200B-10).....	31.56	5.65
For Concrete Or Masonry Surface, Add	0.61	
26 05 33 23-0373 LF Aluminum Raceway Cover (Wiremold #AL5200C).....	13.20	0.63
26 05 33 23-0374 LF Divider (Wiremold #AL5200D).....	7.70	0.63
26 05 33 23-0375 EA Wire Clips For Conductors (Wiremold #AL5200WC).....	10.47	3.14
26 05 33 23-0376 EA Wire Clips For Conductors (Wiremold #AL5200WC2).....	8.73	3.14
26 05 33 23-0377 EA Wire Clips For Conductors (Wiremold #AL5200WC3).....	8.67	3.14
26 05 33 23-0378 EA Couplings (Wiremold #AL5201).....	20.14	3.77
26 05 33 23-0379 EA Cover Clip (Wiremold #AL5206).....	18.04	3.77
26 05 33 23-0380 EA Ground Adapter (Wiremold #AL5209).....	22.31	3.77
26 05 33 23-0381 EA Blank End Fittings (Wiremold #AL5210B).....	23.70	5.02
26 05 33 23-0382 EA Blank End Fittings (Wiremold #AL5210B1).....	25.50	5.02
26 05 33 23-0383 EA Blank End Fittings (Wiremold #AL5210B2).....	25.90	5.02
26 05 33 23-0384 EA Blank End Fittings (Wiremold #AL5210B3).....	25.08	5.02
26 05 33 23-0385 EA Flat 90 Degree Elbow (Wiremold #AL5211).....	132.68	15.71
Note: Includes two (2) pairs of AL5201 couplings.		
26 05 33 23-0386 EA Wall Box Connector (Wiremold #AL5214).....	103.24	19.47
26 05 33 23-0387 EA Tee Fitting (Wiremold #AL5215).....	155.10	19.47
Note: Includes three (3) pairs of AL5201 couplings.		
26 05 33 23-0388 EA Four Way Fitting (Wiremold #AL5216).....	170.44	19.47
Note: Includes four (4) pairs of AL5201 couplings.		
26 05 33 23-0389 EA Internal Elbow (Wiremold #AL5217).....	137.23	19.47
Note: Includes two (2) pairs of AL5201 couplings.		
26 05 33 23-0390 EA Internal Corner Coupling (Wiremold #AL5217A).....	56.43	19.47
26 05 33 23-0391 EA Inverted Internal Elbow (Wiremold #AL5217N).....	141.14	19.47
26 05 33 23-0392 EA External Elbow (Wiremold #AL5218).....	138.45	19.47
Note: Includes two (2) pairs of AL5201 couplings.		
26 05 33 23-0393 EA Blank Device Cover Plate (Wiremold #AL5246B).....	29.74	3.77
26 05 33 23-0394 EA Receptacle Device Cover Plate (Wiremold #AL5246D).....	35.36	3.77
26 05 33 23-0395 EA Double Receptacle Device Cover Plate (Wiremold #AL5246DD).....	42.08	3.77
26 05 33 23-0396 EA Device Cover Plate (Wiremold #AL5246F).....	39.43	3.77
26 05 33 23-0397 EA Device Cover Plate (Wiremold #AL5246G).....	36.36	3.77
26 05 33 23-0398 EA Offset Divider (Wiremold #AL5260).....	33.64	8.17
26 05 33 23-0399 3" x 2-1/4" Two Piece Surface Aluminum Raceways (Wiremold #ALA3800) (26 05 33 23-0315)		
26 05 33 23-0400 LF Single Channel, 3" x 2-1/4" Two Piece Surface Aluminum Raceway Base (Wiremold #ALA3800B-10).....	27.99	5.65
26 05 33 23-0401 EA Cover Clip (Wiremold #ALA3806).....	13.23	3.77
26 05 33 23-0402 EA Blank End Fittings (Wiremold #ALA3810B).....	23.48	5.02
26 05 33 23-0403 EA Entrance End Cap Fittings (Wiremold #ALA3810B1).....	25.29	5.02
26 05 33 23-0404 EA Flat 90 Degree Elbow (Wiremold #ALA3811).....	131.27	15.71
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0405 EA Flat Tee Fitting (Wiremold #ALA3815).....	134.90	19.47
Note: Includes three (3) ALA01 couplings.		
26 05 33 23-0406 EA Internal Elbow (Wiremold #ALA3817).....	131.45	19.47
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0407 EA Inverted Internal Elbow (Wiremold #ALA3817N).....	155.30	19.47
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0408 EA External Elbow (Wiremold #ALA3818).....	133.22	19.47
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0409 6" x 2-1/4" Two Piece Surface Aluminum Raceways (Wiremold #ALA4800) (26 05 33 23-0315)		
26 05 33 23-0410 LF Two Channel, 6" x 2-1/4" Two Piece Surface Aluminum Raceway Base (Wiremold #ALA4800B-10).....	47.23	5.65
26 05 33 23-0411 EA Cover Clip (Wiremold #ALA4806).....	20.00	3.77
26 05 33 23-0412 EA Blank End Fittings (Wiremold #ALA4810B).....	26.15	5.02
26 05 33 23-0413 EA Entrance End Cap Fittings (Wiremold #ALA4810B2).....	29.33	5.02
26 05 33 23-0414 EA Flat 90 Degree Elbow (Wiremold #ALA4811).....	176.87	15.71
Note: Includes four (4) ALA01 couplings.		
26 05 33 23-0415 EA Flat Tee Fitting (Wiremold #ALA4815).....	242.88	19.47
Note: Includes six (6) ALA01 couplings.		
26 05 33 23-0416 EA Internal Elbow (Wiremold #ALA4817).....	161.55	19.47
Note: Includes four (4) ALA01 couplings.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0417 EA Inverted Internal Elbow (Wiremold #ALA4817N) Note: Includes four (4) ALA01 couplings.	191.52	19.47
26 05 33 23-0418 EA External Elbow (Wiremold #ALA4818)..... Note: Includes four (4) ALA01 couplings.	169.99	19.47
26 05 33 23-0419 Two Piece Surface Aluminum Raceways Fittings (Wiremold #ALA3800 And #ALA4800) (26 05 33 23-0315) See CSI section 26 27 26 00-0010 for receptacles.		
26 05 33 23-0420 LF 3" Wide Aluminum Raceway Cover (Wiremold #ALAC-5) Note: For use with ALA3800 single channel raceway and ALA4800 dual channel raceway.	10.21	0.63
26 05 33 23-0421 EA Wire Clips (Wiremold #ALAWC).....	8.91	3.14
26 05 33 23-0422 EA Slide Couplings (Wiremold #ALA01).....	21.97	3.77
26 05 33 23-0423 EA Grounding Adapter (Wiremold #ALA09).....	18.44	3.77
26 05 33 23-0424 EA Bend Radius Control Insert For Flat Elbow (Wiremold #ALA11RI).....	50.04	15.71
26 05 33 23-0425 EA Internal Corner Coupling (Wiremold #ALA17A).....	59.42	19.47
26 05 33 23-0426 EA Bend Radius Control Insert For Internal And External Elbow (Wiremold #ALA17/18RI).....	56.37	15.71
26 05 33 23-0427 EA Blank Cover Plate (Wiremold #ALA-BL).....	24.58	3.77
26 05 33 23-0428 EA Duplex Receptacle Cover Plate (Wiremold #ALA-DR).....	26.31	3.77
26 05 33 23-0429 EA Single Receptacle Cover Plate, 1.40" Diameter Opening (Wiremold #ALA-E).....	27.45	3.77
26 05 33 23-0430 EA Single Receptacle Cover Plate, 1.59" Diameter Opening (Wiremold #ALA-F).....	26.28	3.77
26 05 33 23-0431 EA GFCI/Surge/Decorator Cover Plate (Wiremold #ALA-G).....	26.54	3.77
26 05 33 23-0432 EA Single Receptacle Cover Plate, 2.13" Diameter Opening (Wiremold #ALA-J).....	27.48	3.77
26 05 33 23-0433 EA Toggle Switch Cover Plate (Wiremold #ALA-N).....	28.22	3.77
26 05 33 23-0434 EA Active LPB Cover Plate (Wiremold #ALA-LPB).....	36.61	3.77
26 05 33 23-0435 EA Active MAB Cover Plate (Wiremold #ALA-MAB).....	34.32	3.77
26 05 33 23-0436 EA Ortronics Cover Plate (Wiremold #ALA-MABRT).....	39.79	3.77
26 05 33 23-0437 EA 1-3/4" x 2-3/4" Cover Plate (Wiremold #ALA-SG).....	25.08	3.77
26 05 33 23-0438 EA Active 2A Cover Plate (Wiremold #ALA-2A).....	38.39	3.77
26 05 33 23-0439 EA Ortronics Communications Cover Plate (Wiremold #ALA-ABRT).....	35.00	3.77
26 05 33 23-0440 EA 3/4" Grommet/Mousehole Cover Plate (Wiremold #ALA-Z).....	28.15	3.77
26 05 33 23-0441 EA Ortronics Low Profile Cover Plate (Wiremold #ALA-LPB3S2).....	35.33	3.77
26 05 33 23-0442 Surface Non-Metallic Raceways (26 05 33 23-0001) Note: Exposed on flat wall surface.		
26 05 33 23-0443 One Piece Surface Non-Metallic Raceways (26 05 33 23-0442) Note: Exposed on flat wall surface. (Wiremold or approved equal).		
26 05 33 23-0444 7/8" x 7/16" One Piece Surface Non-Metallic Raceways (Wiremold #400) (26 05 33 23-0443)		
26 05 33 23-0445 LF 7/8" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #400BAC) For Concrete Or Masonry Surface, Add	7.02 0.25	2.52
26 05 33 23-0446 EA Wire Clip (Wiremold #400WC).....	5.44	2.52
26 05 33 23-0447 EA Cover Clip (Wiremold #406).....	5.71	2.52
26 05 33 23-0448 EA Blank End Clip (Wiremold #410B).....	11.04	5.02
26 05 33 23-0449 EA Flat 90 Degree Elbow (Wiremold #411).....	12.70	5.02
26 05 33 23-0450 EA Tee (Wiremold #415).....	15.98	6.28
26 05 33 23-0451 EA Internal Elbow (Wiremold #417).....	12.49	5.02
26 05 33 23-0452 EA External Elbow (Wiremold #418).....	12.49	5.02
26 05 33 23-0453 1-5/16" x 7/16" One Piece Surface Non-Metallic Raceways (Wiremold #800) (26 05 33 23-0443)		
26 05 33 23-0454 LF 1-5/16" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #800BAC) For Concrete Or Masonry Surface, Add	8.06 0.25	2.52
26 05 33 23-0455 EA Wire Clip (Wiremold #800WC).....	5.52	2.52
26 05 33 23-0456 EA Cover Clip (Wiremold #806).....	5.64	2.52
26 05 33 23-0457 EA Entrance End Fitting (Wiremold #810A2).....	16.79	5.02
26 05 33 23-0458 EA Blank End Fitting (Wiremold #810B).....	11.14	5.02
26 05 33 23-0459 EA Flat 90 Degree Elbow (Wiremold #811).....	12.78	5.02
26 05 33 23-0460 EA Tee (Wiremold #815).....	16.05	6.28
26 05 33 23-0461 EA Internal Elbow (Wiremold #817).....	12.54	5.02
26 05 33 23-0462 EA External Elbow (Wiremold #818).....	12.54	5.02
26 05 33 23-0463 EA End Reducer, #800 To #400 (Wiremold #889A).....	14.08	5.02
26 05 33 23-0464 2-1/4" x 11/16" One Piece Surface Non-Metallic Raceways (Wiremold #2300) (26 05 33 23-0443)		
26 05 33 23-0465 LF 2-1/4" x 11/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2300BAC) For Concrete Or Masonry Surface, Add	9.24 0.25	2.52
26 05 33 23-0466 LF 2-1/4" x 11/16" One Piece Surface Non-Metallic Divided Raceway Base And Cover (Wiremold #2300BACD)..... For Concrete Or Masonry Surface, Add	9.82 0.25	2.52
26 05 33 23-0467 EA Wire Clip (Wiremold #2300WC).....	5.78	2.52
26 05 33 23-0468 EA Cover Clip (Wiremold #2306).....	6.07	2.52
26 05 33 23-0469 EA Entrance End Fitting (Wiremold #2310A).....	18.20	5.02
26 05 33 23-0470 EA Blank End Fitting (Wiremold #2310B).....	11.71	5.02
26 05 33 23-0471 EA Divided Entrance End Fitting (Wiremold #2310DFO).....	20.42	5.02
26 05 33 23-0472 EA Flat 90 Degree Elbow (Wiremold #2311).....	13.01	5.02
26 05 33 23-0473 EA Divided Flat 90 Degree Elbow (Wiremold #2311DFO).....	13.95	5.02
26 05 33 23-0474 EA Tee (Wiremold #2315).....	16.19	6.28

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0475 EA Internal Elbow (Wiremold #2317).....	13.01	5.02
26 05 33 23-0476 EA Divided Internal Elbow (Wiremold #2317DFO)	13.97	5.02
26 05 33 23-0477 EA External Elbow (Wiremold #2318)	13.04	5.02
26 05 33 23-0478 EA Divided External Elbow (Wiremold #2318DFO).....	14.13	5.02
26 05 33 23-0479 EA End Reducer, #2300 To #400 (Wiremold #2389)	14.15	5.02
26 05 33 23-0480 EA End Reducer, #2300 To #800 (Wiremold #2389A)	14.75	5.02
26 05 33 23-0481 One Piece Surface Non-Metallic Raceway Fittings (Wiremold #400, #800 Or #2300) (26 05 33 23-0443)		
26 05 33 23-0482 EA Blank Cover, 4-1/2" Diameter (Wiremold #2336).....	15.65	4.40
26 05 33 23-0483 EA Extension Box, 5-1/2" Diameter (Wiremold #2337A)	25.46	5.02
26 05 33 23-0484 EA -A Fixture Box, 5-1/2" Diameter (Wiremold #233).....	25.60	5.02
26 05 33 23-0485 EA Extra Deep Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2344)	23.14	5.02
26 05 33 23-0486 EA Extra Deep Device Box, 2 Gang, 2-3/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2344-2).....	26.75	5.02
26 05 33 23-0487 EA Extra Deep Divided Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2344D)	25.18	5.02
26 05 33 23-0488 EA Deep Divided Device Box, 2 Gang, 2-1/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2344SD-2A)	27.31	5.02
26 05 33 23-0489 EA 1-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 3" Wide (Wiremold #2347).....	23.38	8.17
26 05 33 23-0490 EA 2-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2347-2)	26.56	8.17
26 05 33 23-0491 EA 1-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348).....	24.31	8.17
26 05 33 23-0492 EA 2-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2348-2)	29.10	8.17
26 05 33 23-0493 EA 3-Gang Deep Device Box, 1-3/4" Deep x 5" Long x 7" Wide (Wiremold #2348-3).....	34.65	8.17
26 05 33 23-0494 EA 1-Gang Deep Device Box With Magnetic Backing, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348AMP).....	32.88	8.17
26 05 33 23-0495 EA 1-Gang Divided Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348D)	29.85	8.17
26 05 33 23-0496 EA Shallow Device And Extension Box, 7/8" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348S/51)	22.91	8.17
26 05 33 23-0497 3/4" x 3/8" One Piece Surface Non-Metallic Raceways (Wiremold #2700) (26 05 33 23-0443)		
26 05 33 23-0498 LF 3/4" x 3/8" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2700).....	6.58	2.52
For Concrete Or Masonry Surface, Add	0.25	
26 05 33 23-0499 EA 3/4" Wire Clip (Wiremold #2700WC).....	2.85	1.25
26 05 33 23-0500 EA Cover Clip (Wiremold #2706).....	4.18	1.25
26 05 33 23-0501 EA Blank End (Wiremold #2710B).....	6.66	2.52
26 05 33 23-0502 EA Flat 90 Degree Elbow (Wiremold #2711)	7.97	3.14
26 05 33 23-0503 EA Tee (Wiremold #2715)	13.01	5.65
26 05 33 23-0504 EA Internal Elbow (Wiremold #2717).....	9.23	3.77
26 05 33 23-0505 EA External Elbow (Wiremold #2718)	9.21	3.77
26 05 33 23-0506 EA Drop Ceiling Connector (Wiremold #2786)	10.87	4.40
26 05 33 23-0507 1" x 1/2" One Piece Surface Non-Metallic Raceways (Wiremold #2800) (26 05 33 23-0443)		
26 05 33 23-0508 LF 1" x 1/2" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2800).....	8.55	3.14
For Concrete Or Masonry Surface, Add	0.31	
26 05 33 23-0509 EA 1" Wire Clip (Wiremold #2800WC).....	4.26	1.88
26 05 33 23-0510 EA Cover Clip (Wiremold #2806).....	5.61	1.88
26 05 33 23-0511 EA Blank End (Wiremold #2810B).....	8.12	3.14
26 05 33 23-0512 EA Flat 90 Degree Elbow (Wiremold #2811)	10.72	4.40
26 05 33 23-0513 EA Radiused Flat 90 Degree Elbow (Wiremold #2811FO).....	11.38	4.40
26 05 33 23-0514 EA Tee (Wiremold #2815)	15.74	6.92
26 05 33 23-0515 EA Internal Elbow (Wiremold #2817).....	11.94	5.02
26 05 33 23-0516 EA External Elbow (Wiremold #2818)	11.97	5.02
26 05 33 23-0517 EA Radiused Tee (Wiremold #2815FO).....	16.63	6.92
26 05 33 23-0518 EA Radiused Internal Elbow (Wiremold #2817FO).....	12.75	5.02
26 05 33 23-0519 EA Radiused External Elbow (Wiremold #2818FO)	12.63	5.02
26 05 33 23-0520 EA Drop Ceiling Connector (Wiremold #2886)	13.48	5.65
26 05 33 23-0521 EA Reducer, #2800 To #2700 (Wiremold #2889)	12.13	5.02
26 05 33 23-0522 1-1/2" x 3/4" One Piece Surface Non-Metallic Raceways (Wiremold #2900) (26 05 33 23-0443)		
26 05 33 23-0523 LF 1-1/2" x 3/4" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2900)	10.39	3.77
For Concrete Or Masonry Surface, Add	0.38	
26 05 33 23-0524 EA 1-1/2" Wire Clip (Wiremold #2900WC)	5.62	2.52
26 05 33 23-0525 EA Cover Clip (Wiremold #2906).....	7.00	2.52
26 05 33 23-0526 EA Blank End (Wiremold #2910B).....	9.52	3.77
26 05 33 23-0527 EA Flat 90 Degree Elbow (Wiremold #2911)	12.04	5.02
26 05 33 23-0528 EA Radiused Flat 90 Degree Elbow (Wiremold #2911FO).....	13.09	5.02
26 05 33 23-0529 EA Tee (Wiremold #2915)	17.06	7.54
26 05 33 23-0530 EA Radiused Tee (Wiremold #2915FO)	18.13	7.54
26 05 33 23-0531 EA Internal Elbow (Wiremold #2917).....	13.30	5.65
26 05 33 23-0532 EA Radiused Internal Elbow (Wiremold #2917FO).....	14.39	5.65
26 05 33 23-0533 EA External Elbow (Wiremold #2918)	13.29	5.65
26 05 33 23-0534 EA Radiused External Elbow (Wiremold #2918FO)	14.69	5.65
26 05 33 23-0535 EA Drop Ceiling Connector (Wiremold #2986)	13.47	5.65
26 05 33 23-0536 EA Reducer, #2900 To #2800 (Wiremold #2989)	14.98	6.28
26 05 33 23-0537 EA Reducer, #2900 To #2700 (Wiremold #2989A)	14.62	6.28
26 05 33 23-0538 Two Piece Surface Non-Metallic Raceways (26 05 33 23-0442)		
Note: Exposed on flat wall surface. (Wiremold or approved equal).		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0539			5" x 1" Two Piece Surface Non-Metallic Raceways (Wiremold #500) ^(26 05 33 23-0538)		
26 05 33 23-0540	LF		5" x 1" Two Piece Surface Non-Metallic Raceway Base (Wiremold #5000B).....	15.98	5.65
			<i>For Concrete Or Masonry Surface, Add</i>	0.57	
26 05 33 23-0541	LF		Black, Gray Or White, Cover (Wiremold #5000C).....	15.27	5.65
26 05 33 23-0542	LF		Oak Veneer, Cover (Wiremold #5000COA).....	27.39	5.65
26 05 33 23-0543	LF		Maple Wood Veneer, Cover (Wiremold #5000CW).....	22.60	5.65
26 05 33 23-0544	LF		Black, Gray Or White, Quarter Round Trim (Wiremold #5000T).....	2.11	0.63
26 05 33 23-0545	LF		Oak Veneer, Quarter Round Trim (Wiremold #5000TOA).....	8.19	0.63
26 05 33 23-0546	LF		Maple Wood Veneer, Quarter Round Trim (Wiremold #5000TW).....	5.14	0.63
26 05 33 23-0547	EA		Base Coupling (Wiremold #5001).....	15.03	6.28
26 05 33 23-0548	EA		Blank/Coax Adapter (Wiremold #5004).....	8.32	3.14
26 05 33 23-0549	EA		Low Voltage Blank Plate (Wiremold #5005).....	11.00	3.77
26 05 33 23-0550	EA		Cover Clip (Wiremold #5006).....	16.05	6.28
26 05 33 23-0551	EA		Internal Wire Guard (Wiremold #5006A).....	15.12	6.28
26 05 33 23-0552	EA		Device Bracket (Wiremold #5007C).....	17.02	6.28
26 05 33 23-0553	EA		Device Plate (Wiremold #5007C-1).....	31.15	12.57
26 05 33 23-0554	EA		Deep Device Plate (Wiremold #5007C-2).....	32.12	12.57
26 05 33 23-0555	EA		Right Or Left End Cap (Wiremold #5010).....	27.44	11.94
26 05 33 23-0556	EA		Entrance End Feed (Wiremold #5010A).....	52.14	19.47
26 05 33 23-0557	EA		Internal Base Elbow (Wiremold #5017B).....	36.81	15.71
26 05 33 23-0558	EA		Internal Cover Elbow (Wiremold #5017C).....	32.77	12.57
26 05 33 23-0559	EA		Internal Elbow Wire Guard (Wiremold #5017WG).....	22.68	9.42
26 05 33 23-0560	EA		External Base Elbow (Wiremold #5018B).....	36.75	15.71
26 05 33 23-0561	EA		External Cover Elbow (Wiremold #5018C).....	33.03	12.57
26 05 33 23-0562	EA		External Elbow Wire Guard (Wiremold #5018WG).....	14.86	6.28
26 05 33 23-0563			5-1/4" x 1-11/16" Two Piece Surface Non-Metallic Raceways (Wiremold #5400) ^(26 05 33 23-0538)		
26 05 33 23-0564	LF		5-1/4" x 1-11/16", Two Compartment, Two Piece Surface Non-Metallic Raceway Base (Wiremold #5400TB).....	17.98	5.65
			<i>For Concrete Or Masonry Surface, Add</i>	0.57	
26 05 33 23-0565	LF		Full Width Cover (Wiremold #5400C).....	6.14	0.63
26 05 33 23-0566	LF		Twin Snap Cover (Wiremold #5400TC).....	3.96	0.63
26 05 33 23-0567	EA		Twin Snap Cover Wire Clips (Wiremold #5400TWC).....	6.99	3.14
26 05 33 23-0568	EA		Cover Clip (Wiremold #5406A).....	11.68	3.77
26 05 33 23-0569	EA		Twin Cover Clip (Wiremold #5406T).....	9.89	3.77
26 05 33 23-0570	EA		Base Seam Clip (Wiremold #5406TB).....	8.87	3.77
26 05 33 23-0571	EA		L Or R (Left Or Right) Transition Fitting (Wiremold #5408).....	66.45	19.47
26 05 33 23-0572	EA		End Cap (Wiremold #5410).....	32.70	11.94
26 05 33 23-0573	EA		Radiused Divided Entrance Cap Fitting (Wiremold #5410DFO).....	63.83	19.47
26 05 33 23-0574	EA		Radiused Flat 90 Degree Elbow (Wiremold #5411FO).....	58.08	15.71
26 05 33 23-0575	EA		Tee Fitting (Wiremold #5415).....	67.08	19.47
26 05 33 23-0576	EA		Radiused Tee Fitting (Wiremold #5415FO).....	70.17	19.47
26 05 33 23-0577	EA		Radiused Internal Elbow (Wiremold #5417FO).....	55.73	19.47
26 05 33 23-0578	EA		External Elbow (Wiremold #5418).....	56.50	19.47
26 05 33 23-0579	EA		Radiused External Elbow (Wiremold #5418FO).....	57.22	19.47
26 05 33 23-0580	EA		5-5/32" x 6" Device Bracket (Wiremold #5450).....	26.76	6.28
26 05 33 23-0581	EA		7-19/32" x 7-1/2" Device Bracket (Wiremold #5450A3).....	35.20	6.28
26 05 33 23-0582	EA		2-1/2" x 4-7/8" Twin Snap Device Bracket (Wiremold #5450T).....	20.52	6.28
26 05 33 23-0583	EA		Transition Fitting (Wiremold #5474).....	58.67	19.47
26 05 33 23-0584			6-11/16" x 1-11/16" Two Piece Surface Non-Metallic Raceways (Wiremold #5500) ^(26 05 33 23-0538)		
26 05 33 23-0585	LF		6-11/16" x 1-11/16", Three Compartment Divided, Two Piece Surface Non-Metallic Raceway Base (Wiremold #5500BD3).....	21.40	5.65
			<i>For Concrete Or Masonry Surface, Add</i>	0.57	
26 05 33 23-0586	LF		Cover (Wiremold #5500C).....	7.44	0.63
26 05 33 23-0587	EA		Wire Clips (Wiremold #5500WC).....	7.95	3.14
26 05 33 23-0588	EA		Cover Clip (Wiremold #5506).....	12.60	3.77
26 05 33 23-0589	EA		Base Seam Clip Fitting (Wiremold #5506B).....	9.18	3.77
26 05 33 23-0590	EA		Modular Furniture Adapter (Wiremold #5507AD).....	11.81	3.77
26 05 33 23-0591	EA		Blank Faceplate (Wiremold #5507B).....	11.85	3.77
26 05 33 23-0592	EA		Duplex Receptacle Faceplate (Wiremold #5507D).....	11.91	3.77
26 05 33 23-0593	EA		Dual RJ Connector Faceplate (Wiremold #5507FRJ).....	11.91	3.77
26 05 33 23-0594	EA		Rectangular Receptacle Faceplate (Wiremold #5507R).....	11.80	3.77
26 05 33 23-0595	EA		Dual RJ Connector Faceplate (Wiremold #5507RJ).....	11.83	3.77
26 05 33 23-0596	EA		Rectangular Spacer Fitting (Wiremold #5507S).....	11.74	3.77
26 05 33 23-0597	EA		Switch Faceplate (Wiremold #5507SW).....	11.77	3.77
26 05 33 23-0598	EA		Twistlock Faceplate (Wiremold #5507T1).....	11.85	3.77
26 05 33 23-0599	EA		Single Receptacle Faceplate (Wiremold #5507T2).....	11.62	3.77
26 05 33 23-0600	EA		6-5/8" x 6" Device Bracket (Wiremold #5550).....	30.19	6.28
26 05 33 23-0601	EA		9-5/8" x 7-1/2" Device Bracket (Wiremold #5550A4).....	40.10	6.28
26 05 33 23-0602	EA		End Cap (Wiremold #5510).....	34.41	11.94
26 05 33 23-0603	EA		Entrance End Fitting (Wiremold #5510D).....	69.52	19.47
26 05 33 23-0604	EA		Radiused Flat 90 Degree Elbow (Wiremold #5511FO).....	63.01	15.71
26 05 33 23-0605	EA		Backfeed Connector (Wiremold #5514A).....	51.30	15.71
26 05 33 23-0606	EA		Tee Fitting (Wiremold #5515).....	72.86	19.47
26 05 33 23-0607	EA		Radiused Internal Elbow (Wiremold #5517FO).....	59.30	19.47

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0608 EA External Elbow (Wiremold #5518)	60.65	19.47
26 05 33 23-0609 EA Radiused External Elbow (Wiremold #5518FO)	63.51	19.47
26 05 33 23-0610 EA Transition Fitting (Wiremold #5574)	57.94	19.47
26 05 33 23-0611 EA Transition Fitting (Wiremold #5574A)	76.46	19.47
26 05 33 23-0612 Surface Cable Protection System (26 05 33 23)		
26 05 33 23-0613 EA 35-1/2" Long x 18-9/16" Wide x 3" High, Three Channel, Heavy-Duty Polyurethane, Surface Cable Protector (Yellow Jacket® CP-YJHD-3)	662.39	
Note: Modular interlocking design with hinged lid.		
26 05 33 23-0614 EA 35-3/4" Long x 19-3/4" Wide x 1-7/8" High, Five Channel, Heavy-Duty Polyurethane, Surface Cable Protector (Yellow Jacket® CP-YJHD-5)	499.68	
Note: Modular interlocking design with hinged lid.		
26 05 36 Cable Trays for Electrical Systems (26 05)		
26 05 36 00-0001 Cable Trays (26 05 36)		
Note: Excludes supporting hangers.		
26 05 36 00-0002 Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0001)		
26 05 36 00-0003 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0002)		
26 05 36 00-0004 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0003)		
26 05 36 00-0005 LF 6" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	46.14	13.21
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.51	
26 05 36 00-0006 LF 9" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	49.86	14.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.81	
26 05 36 00-0007 LF 12" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	54.50	15.27
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.17	
26 05 36 00-0008 LF 18" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	60.66	16.23
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.72	
26 05 36 00-0009 LF 24" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	66.59	16.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-5.27	
26 05 36 00-0010 LF 30" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	81.13	19.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-6.50	
26 05 36 00-0011 LF 36" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	91.04	22.14
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-7.26	
26 05 36 00-0012 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0003)		
26 05 36 00-0013 LF 6" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	43.52	12.93
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.27	
26 05 36 00-0014 LF 9" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	47.09	13.76
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.56	
26 05 36 00-0015 LF 12" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	50.26	14.99
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.78	
26 05 36 00-0016 LF 18" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	55.09	15.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.20	
26 05 36 00-0017 LF 24" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	59.40	16.36
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.58	
26 05 36 00-0018 LF 30" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	69.81	18.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-5.41	
26 05 36 00-0019 LF 36" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	76.28	20.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-5.91	
26 05 36 00-0020 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0003)		
26 05 36 00-0021 LF 6" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	41.93	12.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.13	
26 05 36 00-0022 LF 9" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	43.19	13.21
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.22	
26 05 36 00-0023 LF 12" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	47.58	14.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.59	
26 05 36 00-0024 LF 18" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	52.10	14.72
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.98	
26 05 36 00-0025 LF 24" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	56.47	15.13
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.38	
26 05 36 00-0026 LF 30" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	61.56	16.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.79	
26 05 36 00-0027 LF 36" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	66.13	17.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-5.12	
26 05 36 00-0028 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0003)		
26 05 36 00-0029 LF 6" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray	40.68	12.24
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0030	LF		9" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	41.53	12.51
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.11	
26 05 36 00-0031	LF		12" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	43.98	13.21
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.30	
26 05 36 00-0032	LF		18" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	46.58	13.89
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.50	
26 05 36 00-0033	LF		24" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	48.52	13.89
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.70	
26 05 36 00-0034	LF		30" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	53.62	14.99
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.12	
26 05 36 00-0035	LF		36" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	56.48	15.68
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.34	
26 05 36 00-0036			18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0003)		
26 05 36 00-0037	LF		6" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	40.12	11.96
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.01	
26 05 36 00-0038	LF		9" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	40.83	12.24
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.06	
26 05 36 00-0039	LF		12" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	43.28	12.93
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.25	
26 05 36 00-0040	LF		18" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	45.44	13.48
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.42	
26 05 36 00-0041	LF		24" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	46.19	13.62
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.48	
26 05 36 00-0042	LF		30" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	49.09	14.58
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.69	
26 05 36 00-0043	LF		36" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	51.20	15.40
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.84	
26 05 36 00-0044			4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-0002)		
26 05 36 00-0045			12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0046	EA		6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	360.20	137.94
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.53	
26 05 36 00-0047	EA		9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	402.58	157.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.17	
26 05 36 00-0048	EA		12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	442.54	173.70
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.78	
26 05 36 00-0049	EA		18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	553.47	212.89
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.61	
26 05 36 00-0050	EA		24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	630.86	244.39
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.72	
26 05 36 00-0051	EA		30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	752.28	275.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.31	
26 05 36 00-0052	EA		36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	867.47	314.38
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-60.55	
26 05 36 00-0053			24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0054	EA		6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	508.12	143.44
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.86	
26 05 36 00-0055	EA		9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	552.14	164.89
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.47	
26 05 36 00-0056	EA		12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	593.27	183.33
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.05	
26 05 36 00-0057	EA		18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	689.90	227.74
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.02	
26 05 36 00-0058	EA		24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	773.41	264.18
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.33	
26 05 36 00-0059	EA		30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	861.88	299.80
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.20	
26 05 36 00-0060	EA		36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,009.26	347.26
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-71.99	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 36 00-0061	36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0062	EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	547.87		149.90	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.29			
26 05 36 00-0063	EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	603.71		173.56	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.91			
26 05 36 00-0064	EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	652.78		194.19	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.09			
26 05 36 00-0065	EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	783.99		244.39	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-58.03			
26 05 36 00-0066	EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	892.06		286.88	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-65.30			
26 05 36 00-0067	EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,046.76		330.06	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-77.17			
26 05 36 00-0068	EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,188.46		387.83	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.53			
26 05 36 00-0069	12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0070	EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	267.97		99.98	
	For 60 Degree Bend, Deduct	-50.12			
	For 30 Degree Bend, Deduct	-89.08			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.47			
26 05 36 00-0071	EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	305.32		119.92	
	For 60 Degree Bend, Deduct	-54.81			
	For 30 Degree Bend, Deduct	-98.00			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.54			
26 05 36 00-0072	EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	338.89		137.53	
	For 60 Degree Bend, Deduct	-59.12			
	For 30 Degree Bend, Deduct	-106.17			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.43			
26 05 36 00-0073	EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	405.54		173.83	
	For 60 Degree Bend, Deduct	-67.21			
	For 30 Degree Bend, Deduct	-121.67			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.07			
26 05 36 00-0074	EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	503.81		212.89	
	For 60 Degree Bend, Deduct	-84.65			
	For 30 Degree Bend, Deduct	-152.91			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.64			
26 05 36 00-0075	EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	597.75		244.39	
	For 60 Degree Bend, Deduct	-103.56			
	For 30 Degree Bend, Deduct	-186.19			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.41			
26 05 36 00-0076	EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	676.84		286.88	
	For 60 Degree Bend, Deduct	-113.38			
	For 30 Degree Bend, Deduct	-204.90			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.78			
26 05 36 00-0077	24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0078	EA 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	300.12		103.14	
	For 60 Degree Bend, Deduct	-59.52			
	For 30 Degree Bend, Deduct	-104.93			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.42			
26 05 36 00-0079	EA 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	343.82		124.32	
	For 60 Degree Bend, Deduct	-65.80			
	For 30 Degree Bend, Deduct	-116.57			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.02			
26 05 36 00-0080	EA 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	392.40		143.58	
	For 60 Degree Bend, Deduct	-74.46			
	For 30 Degree Bend, Deduct	-132.08			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.28			



		Electrical	26
		Common Work Results for Electrical	26 05
		Cable Trays for Electrical Systems	26 05 36

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0081	EA		18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	462.90	183.33
			For 60 Degree Bend, Deduct	-82.46	
			For 30 Degree Bend, Deduct	-147.63	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.01	
26 05 36 00-0082	EA		24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	569.88	227.74
			For 60 Degree Bend, Deduct	-100.78	
			For 30 Degree Bend, Deduct	-180.61	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.01	
26 05 36 00-0083	EA		30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	667.87	264.18
			For 60 Degree Bend, Deduct	-119.14	
			For 30 Degree Bend, Deduct	-213.25	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.78	
26 05 36 00-0084	EA		36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	784.86	314.52
			For 60 Degree Bend, Deduct	-138.46	
			For 30 Degree Bend, Deduct	-248.23	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.28	
26 05 36 00-0085 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)					
26 05 36 00-0086	EA		6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	361.50	106.45
			For 60 Degree Bend, Deduct	-78.51	
			For 30 Degree Bend, Deduct	-136.76	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.28	
26 05 36 00-0087	EA		9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	409.94	129.27
			For 60 Degree Bend, Deduct	-85.73	
			For 30 Degree Bend, Deduct	-150.07	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.22	
26 05 36 00-0088	EA		12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	448.71	150.04
			For 60 Degree Bend, Deduct	-90.56	
			For 30 Degree Bend, Deduct	-159.27	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.37	
26 05 36 00-0089	EA		18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	538.96	194.19
			For 60 Degree Bend, Deduct	-103.40	
			For 30 Degree Bend, Deduct	-183.12	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.71	
26 05 36 00-0090	EA		24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	635.00	244.39
			For 60 Degree Bend, Deduct	-115.86	
			For 30 Degree Bend, Deduct	-206.67	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.13	
26 05 36 00-0091	EA		30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	772.04	286.88
			For 60 Degree Bend, Deduct	-144.79	
			For 30 Degree Bend, Deduct	-257.26	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.30	
26 05 36 00-0092	EA		36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	905.79	347.26
			For 60 Degree Bend, Deduct	-165.78	
			For 30 Degree Bend, Deduct	-295.60	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.64	
26 05 36 00-0093 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)					
26 05 36 00-0094	EA		6" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	389.96	137.53
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.54	
26 05 36 00-0095	EA		9" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	426.30	157.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.54	
26 05 36 00-0096	EA		12" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	459.39	173.70
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.47	
26 05 36 00-0097	EA		18" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	532.19	212.89
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.48	
26 05 36 00-0098	EA		24" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	592.13	244.39
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.85	
26 05 36 00-0099	EA		30" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	657.97	275.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.88	
26 05 36 00-0100	EA		36" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	730.25	313.97
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.86	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 36 00-0101	24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0102	EA 6" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	466.37		143.44	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.68			
26 05 36 00-0103	EA 9" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	507.87		165.03	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.03			
26 05 36 00-0104	EA 12" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	547.67		183.33	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.49			
26 05 36 00-0105	EA 18" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	634.47		227.74	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.47			
26 05 36 00-0106	EA 24" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	708.14		264.18	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.80			
26 05 36 00-0107	EA 30" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	782.43		299.80	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.26			
26 05 36 00-0108	EA 36" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	896.62		347.26	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-60.72			
26 05 36 00-0109	36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0110	EA 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	556.59		149.90	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.17			
26 05 36 00-0111	EA 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	607.20		173.70	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.25			
26 05 36 00-0112	EA 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	645.24		194.19	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.34			
26 05 36 00-0113	EA 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	754.73		244.39	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.11			
26 05 36 00-0114	EA 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	829.24		286.88	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.02			
26 05 36 00-0115	EA 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	949.20		330.06	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-67.42			
26 05 36 00-0116	EA 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,071.24		387.83	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-74.81			
26 05 36 00-0117	12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0118	EA 6" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	697.72		264.18	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.76			
26 05 36 00-0119	EA 9" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	754.89		286.88	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.58			
26 05 36 00-0120	EA 12" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	791.81		299.80	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.19			
26 05 36 00-0121	EA 18" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	884.46		330.06	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-60.94			
26 05 36 00-0122	EA 24" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,002.70		366.37	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-69.74			
26 05 36 00-0123	EA 30" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,116.36		388.52	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-79.26			
26 05 36 00-0124	EA 36" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,263.45		439.81	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-89.69			
26 05 36 00-0125	24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0126	EA 6" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	881.72		286.88	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.26			



		Electrical	26
		Common Work Results for Electrical	26 05
		Cable Trays for Electrical Systems	26 05 36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0127	EA	9" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	946.86	314.52
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.48	
26 05 36 00-0128	EA	12" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	988.22	330.06
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.32	
26 05 36 00-0129	EA	18" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,083.40	366.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.81	
26 05 36 00-0130	EA	24" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,202.62	412.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-85.88	
26 05 36 00-0131	EA	30" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,294.20	439.81
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.77	
26 05 36 00-0132	EA	36" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,565.52	508.16
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-114.21	
26 05 36 00-0133 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0134	EA	6" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,127.49	314.52
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.54	
26 05 36 00-0135	EA	9" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,205.26	347.26
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.59	
26 05 36 00-0136	EA	12" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,279.41	366.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.41	
26 05 36 00-0137	EA	18" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,406.31	412.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.25	
26 05 36 00-0138	EA	24" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,595.88	471.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-120.34	
26 05 36 00-0139	EA	30" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,730.77	508.16
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-130.74	
26 05 36 00-0140	EA	36" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,948.74	599.62
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-144.90	
26 05 36 00-0141 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0142	EA	6" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	845.48	244.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.18	
26 05 36 00-0143	EA	9" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	865.38	254.01
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.37	
26 05 36 00-0144	EA	12" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	886.04	264.18
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.59	
26 05 36 00-0145	EA	18" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	931.68	286.88
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.26	
26 05 36 00-0146	EA	24" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	960.91	299.80
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.10	
26 05 36 00-0147	EA	30" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,042.03	330.06
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.70	
26 05 36 00-0148	EA	36" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,121.83	366.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.65	
26 05 36 00-0149 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0150	EA	6" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,231.93	264.18
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-101.18	
26 05 36 00-0151	EA	9" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,261.65	275.06
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-103.24	
26 05 36 00-0152	EA	12" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,292.94	286.88
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-105.39	
26 05 36 00-0153	EA	18" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,361.93	314.52
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-109.99	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0154 EA 24" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,410.97	330.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-173.59	
26 05 36 00-0155 EA 30" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,494.62	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-178.93	
26 05 36 00-0156 EA 36" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,610.00	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-126.62	
26 05 36 00-0157 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0158 EA 6" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,957.81	286.88
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-171.87	
26 05 36 00-0159 EA 9" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,998.57	299.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-174.87	
26 05 36 00-0160 EA 12" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,042.17	314.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-178.01	
26 05 36 00-0161 EA 18" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,116.10	347.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-182.67	
26 05 36 00-0162 EA 24" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,167.18	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-186.18	
26 05 36 00-0163 EA 30" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,301.77	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-195.80	
26 05 36 00-0164 EA 36" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,418.33	471.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-202.58	
26 05 36 00-0165 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0166 EA 6" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	869.08	330.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.40	
26 05 36 00-0167 EA 9" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	913.18	347.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.38	
26 05 36 00-0168 EA 12" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	975.79	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-67.04	
26 05 36 00-0169 EA 18" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,047.18	388.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.34	
26 05 36 00-0170 EA 24" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,178.90	439.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-81.24	
26 05 36 00-0171 EA 30" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,319.17	471.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.67	
26 05 36 00-0172 EA 36" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,442.53	508.16
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-101.91	
26 05 36 00-0173 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0174 EA 6" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,229.44	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.41	
26 05 36 00-0175 EA 9" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,285.46	388.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-96.17	
26 05 36 00-0176 EA 12" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,344.82	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-100.10	
26 05 36 00-0177 EA 18" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,432.55	439.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-106.60	
26 05 36 00-0178 EA 24" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,592.42	508.16
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-116.90	
26 05 36 00-0179 EA 30" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,712.39	550.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-125.40	
26 05 36 00-0180 EA 36" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,921.84	599.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-142.21	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0181			36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0182	EA		6" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,552.35	412.58
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-120.85	
26 05 36 00-0183	EA		9" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,636.24	439.81
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-126.97	
26 05 36 00-0184	EA		12" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,726.55	471.03
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-133.41	
26 05 36 00-0185	EA		18" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,884.50	508.16
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-146.11	
26 05 36 00-0186	EA		24" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,152.43	599.62
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-165.27	
26 05 36 00-0187	EA		30" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,347.49	659.02
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-179.83	
26 05 36 00-0188	EA		36" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,568.66	734.12
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-195.69	
26 05 36 00-0189			12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0190	EA		6" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,012.63	330.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-73.76	
26 05 36 00-0191	EA		9" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,063.83	347.40
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-77.43	
26 05 36 00-0192	EA		12" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,139.98	366.37
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-83.47	
26 05 36 00-0193	EA		18" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,227.28	388.65
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-90.34	
26 05 36 00-0194	EA		24" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,379.51	439.81
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-101.30	
26 05 36 00-0195	EA		30" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,559.93	471.17
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-116.73	
26 05 36 00-0196	EA		36" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,709.56	507.47
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-128.67	
26 05 36 00-0197			24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0198	EA		6" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,507.88	366.37
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-120.25	
26 05 36 00-0199	EA		9" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,572.55	388.52
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-124.88	
26 05 36 00-0200	EA		12" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,640.55	412.58
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-129.67	
26 05 36 00-0201	EA		18" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,747.31	439.81
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-138.08	
26 05 36 00-0202	EA		24" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,927.93	508.16
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-150.45	
26 05 36 00-0203	EA		30" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,070.38	550.10
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-161.20	
26 05 36 00-0204	EA		36" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,336.90	599.62
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-183.72	
26 05 36 00-0205			36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0206	EA		6" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,941.47	412.58
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-159.77	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0207	EA	9" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,042.66	439.81
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-167.61	
26 05 36 00-0208	EA	12" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,150.26	471.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-175.78	
26 05 36 00-0209	EA	18" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,351.45	508.16
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-192.80	
26 05 36 00-0210	EA	24" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,671.26	599.62
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-217.15	
26 05 36 00-0211	EA	30" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,909.55	659.02
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-236.03	
26 05 36 00-0212	EA	36" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	3,173.96	734.12
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-256.22	
26 05 36 00-0213		6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-0002)		
26 05 36 00-0214		12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0215	EA	6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	341.58	137.94
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.67	
26 05 36 00-0216	EA	9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	382.48	157.06
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.16	
26 05 36 00-0217	EA	12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	420.66	173.70
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.60	
26 05 36 00-0218	EA	18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	525.09	212.89
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.77	
26 05 36 00-0219	EA	24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	598.93	244.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.53	
26 05 36 00-0220	EA	30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	710.30	275.06
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.11	
26 05 36 00-0221	EA	36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	818.40	314.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.64	
26 05 36 00-0222		24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0223	EA	6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	469.69	143.44
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.01	
26 05 36 00-0224	EA	9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	512.53	164.89
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.51	
26 05 36 00-0225	EA	12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	552.18	183.33
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.94	
26 05 36 00-0226	EA	18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	645.56	227.74
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.58	
26 05 36 00-0227	EA	24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	725.81	264.18
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.57	
26 05 36 00-0228	EA	30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	810.14	299.80
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.03	
26 05 36 00-0229	EA	36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	947.77	347.26
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.84	
26 05 36 00-0230		36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0231	EA	6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	505.29	149.90
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.04	
26 05 36 00-0232	EA	9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	558.77	173.56
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0233	EA		12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	605.77	194.19
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.39	
26 05 36 00-0234	EA		18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	730.19	244.39
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.65	
26 05 36 00-0235	EA		24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	832.94	286.88
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.39	
26 05 36 00-0236	EA		30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	975.81	330.06
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.08	
26 05 36 00-0237	EA		36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,111.00	387.83
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.79	
26 05 36 00-0238			12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0239	EA		6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	253.49	99.98
			<i>For 60 Degree Bend, Deduct</i>	-45.34	
			<i>For 30 Degree Bend, Deduct</i>	-81.12	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.02	
26 05 36 00-0240	EA		9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	290.24	119.92
			<i>For 60 Degree Bend, Deduct</i>	-49.83	
			<i>For 30 Degree Bend, Deduct</i>	-89.71	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.04	
26 05 36 00-0241	EA		12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	323.22	137.53
			<i>For 60 Degree Bend, Deduct</i>	-53.94	
			<i>For 30 Degree Bend, Deduct</i>	-97.55	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.86	
26 05 36 00-0242	EA		18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	388.98	173.83
			<i>For 60 Degree Bend, Deduct</i>	-61.74	
			<i>For 30 Degree Bend, Deduct</i>	-112.56	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.42	
26 05 36 00-0243	EA		24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	482.52	212.89
			<i>For 60 Degree Bend, Deduct</i>	-77.63	
			<i>For 30 Degree Bend, Deduct</i>	-141.20	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.51	
26 05 36 00-0244	EA		30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	570.55	244.39
			<i>For 60 Degree Bend, Deduct</i>	-94.59	
			<i>For 30 Degree Bend, Deduct</i>	-171.23	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.69	
26 05 36 00-0245	EA		36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	648.46	286.88
			<i>For 60 Degree Bend, Deduct</i>	-104.01	
			<i>For 30 Degree Bend, Deduct</i>	-189.29	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.94	
26 05 36 00-0246			24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0247	EA		6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	281.79	103.14
			<i>For 60 Degree Bend, Deduct</i>	-53.47	
			<i>For 30 Degree Bend, Deduct</i>	-94.85	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.59	
26 05 36 00-0248	EA		9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	324.31	124.32
			<i>For 60 Degree Bend, Deduct</i>	-59.36	
			<i>For 30 Degree Bend, Deduct</i>	-105.84	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.07	
26 05 36 00-0249	EA		12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	370.52	143.58
			<i>For 60 Degree Bend, Deduct</i>	-67.24	
			<i>For 30 Degree Bend, Deduct</i>	-120.05	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.09	
26 05 36 00-0250	EA		18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	440.43	183.33
			<i>For 60 Degree Bend, Deduct</i>	-75.05	
			<i>For 30 Degree Bend, Deduct</i>	-135.27	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.76	
26 05 36 00-0251	EA		24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	542.68	227.74
			<i>For 60 Degree Bend, Deduct</i>	-91.80	
			<i>For 30 Degree Bend, Deduct</i>	-165.65	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.29	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0252	EA		30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 635.35	264.18	
			For 60 Degree Bend, Deduct .....-108.41		
			For 30 Degree Bend, Deduct .....-195.36		
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-41.52		
26 05 36 00-0253	EA		36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 747.61	314.52	
			For 60 Degree Bend, Deduct .....-126.17		
			For 30 Degree Bend, Deduct .....-227.75		
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-48.56		
26 05 36 00-0254 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)					
26 05 36 00-0255	EA		6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 335.19	106.45	
			For 60 Degree Bend, Deduct .....-69.83		
			For 30 Degree Bend, Deduct .....-122.29		
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-24.65		
26 05 36 00-0256	EA		9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 382.16	129.27	
			For 60 Degree Bend, Deduct .....-76.57		
			For 30 Degree Bend, Deduct .....-134.79		
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-27.45		
26 05 36 00-0257	EA		12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 420.33	150.04	
			For 60 Degree Bend, Deduct .....-81.20		
			For 30 Degree Bend, Deduct .....-143.66		
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-29.53		
26 05 36 00-0258	EA		18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 508.21	194.19	
			For 60 Degree Bend, Deduct .....-93.25		
			For 30 Degree Bend, Deduct .....-166.21		
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-34.63		
26 05 36 00-0259	EA		24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 602.48	244.39	
			For 60 Degree Bend, Deduct .....-105.13		
			For 30 Degree Bend, Deduct .....-188.79		
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-39.88		
26 05 36 00-0260	EA		30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 730.06	286.88	
			For 60 Degree Bend, Deduct .....-130.94		
			For 30 Degree Bend, Deduct .....-234.17		
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-49.10		
26 05 36 00-0261	EA		36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 859.08	347.26	
			For 60 Degree Bend, Deduct .....-150.37		
			For 30 Degree Bend, Deduct .....-269.91		
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-56.97		
26 05 36 00-0262 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)					
26 05 36 00-0263	EA		6" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 377.10	137.53	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-26.25		
26 05 36 00-0264	EA		9" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 413.15	157.06	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-28.22		
26 05 36 00-0265	EA		12" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 445.79	173.70	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-30.11		
26 05 36 00-0266	EA		18" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 518.00	212.89	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-34.06		
26 05 36 00-0267	EA		24" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 577.35	244.39	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-37.37		
26 05 36 00-0268	EA		30" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 642.01	275.06	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-41.28		
26 05 36 00-0269	EA		36" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 713.70	313.97	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-45.20		
26 05 36 00-0270 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)					
26 05 36 00-0271	EA		6" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 448.18	143.44	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-32.86		
26 05 36 00-0272	EA		9" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 489.24	165.03	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-35.17		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0273	EA		12" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 528.30		183.33
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-37.55		
26 05 36 00-0274	EA		18" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 614.07		227.74
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-42.43		
26 05 36 00-0275	EA		24" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 686.71		264.18
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-46.66		
26 05 36 00-0276	EA		30" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 759.81		299.80
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-50.99		
26 05 36 00-0277	EA		36" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 871.20		347.26
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-58.18		
26 05 36 00-0278			36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0279	EA		6" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 532.05		149.90
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-40.71		
26 05 36 00-0280	EA		9" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 581.78		173.70
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-43.71		
26 05 36 00-0281	EA		12" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 619.52		194.19
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-45.77		
26 05 36 00-0282	EA		18" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 726.94		244.39
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-52.33		
26 05 36 00-0283	EA		24" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 801.16		286.88
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-56.21		
26 05 36 00-0284	EA		30" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 917.27		330.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-64.22		
26 05 36 00-0285	EA		36" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 1,037.24		387.83
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-71.41		
26 05 36 00-0286			12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0287	EA		6" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 677.92		264.18
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-45.78		
26 05 36 00-0288	EA		9" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 733.60		286.88
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-49.45		
26 05 36 00-0289	EA		12" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 769.34		299.80
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-51.95		
26 05 36 00-0290	EA		18" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 858.74		330.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-58.37		
26 05 36 00-0291	EA		24" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 972.54		366.37
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-66.72		
26 05 36 00-0292	EA		30" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 1,080.29		388.52
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-75.65		
26 05 36 00-0293	EA		36" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 1,222.65		439.81
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-85.61		
26 05 36 00-0294			24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0295	EA		6" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 850.67		286.88
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-61.16		
26 05 36 00-0296	EA		9" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 914.34		314.52
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-65.23		
26 05 36 00-0297	EA		12" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 954.52		330.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-67.95		
26 05 36 00-0298	EA		18" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 1,047.04		366.37
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-74.17		
26 05 36 00-0299	EA		24" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting 1,163.00		412.58
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct .....-81.92		

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0300	EA		30" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,251.03	439.81
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.45	
26 05 36 00-0301	EA		36" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,510.23	508.16
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-108.68	
26 05 36 00-0302 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)					
26 05 36 00-0303	EA		6" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,081.08	314.52
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.90	
26 05 36 00-0304	EA		9" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,157.07	347.26
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.77	
26 05 36 00-0305	EA		12" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,227.97	366.37
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.26	
26 05 36 00-0306	EA		18" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,351.02	412.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.72	
26 05 36 00-0307	EA		24" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,533.51	471.03
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-114.10	
26 05 36 00-0308	EA		30" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,662.78	508.16
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-123.94	
26 05 36 00-0309	EA		36" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,875.72	599.62
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-137.60	
26 05 36 00-0310 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)					
26 05 36 00-0311	EA		6" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	811.78	244.39
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.81	
26 05 36 00-0312	EA		9" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	831.38	254.01
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.97	
26 05 36 00-0313	EA		12" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	851.75	264.18
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.16	
26 05 36 00-0314	EA		18" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	896.79	286.88
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.77	
26 05 36 00-0315	EA		24" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	925.44	299.80
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.56	
26 05 36 00-0316	EA		30" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,004.19	330.06
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.91	
26 05 36 00-0317	EA		36" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,082.52	366.37
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.72	
26 05 36 00-0318 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)					
26 05 36 00-0319	EA		6" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,171.03	264.18
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.09	
26 05 36 00-0320	EA		9" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,199.86	275.06
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.07	
26 05 36 00-0321	EA		12" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,230.26	286.88
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.12	
26 05 36 00-0322	EA		18" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,297.48	314.52
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-103.54	
26 05 36 00-0323	EA		24" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,344.75	330.06
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.97	
26 05 36 00-0324	EA		30" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,426.63	366.37
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.13	
26 05 36 00-0325	EA		36" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,539.04	412.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-119.52	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0326		36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0327	EA	6" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,843.99	286.88
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-160.49	
26 05 36 00-0328	EA	9" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,883.28	299.80
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-163.34	
26 05 36 00-0329	EA	12" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,925.40	314.52
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-166.33	
26 05 36 00-0330	EA	18" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,997.84	347.26
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-170.84	
26 05 36 00-0331	EA	24" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,047.45	366.37
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-174.21	
26 05 36 00-0332	EA	30" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,177.61	412.58
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-183.38	
26 05 36 00-0333	EA	36" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,292.68	471.03
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-190.02	
26 05 36 00-0334		12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0335	EA	6" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	844.55	330.06
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.95	
26 05 36 00-0336	EA	9" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	887.46	347.26
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.81	
26 05 36 00-0337	EA	12" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	947.71	366.37
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.24	
26 05 36 00-0338	EA	18" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,016.44	388.52
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-69.27	
26 05 36 00-0339	EA	24" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,144.61	439.81
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-77.81	
26 05 36 00-0340	EA	30" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,278.08	471.03
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-88.56	
26 05 36 00-0341	EA	36" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,396.71	508.16
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-97.33	
26 05 36 00-0342		24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0343	EA	6" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,181.85	366.37
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-87.65	
26 05 36 00-0344	EA	9" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,236.39	388.52
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-91.26	
26 05 36 00-0345	EA	12" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,294.26	412.58
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-95.04	
26 05 36 00-0346	EA	18" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,378.75	439.81
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-101.22	
26 05 36 00-0347	EA	24" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,535.07	508.16
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-111.17	
26 05 36 00-0348	EA	30" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,651.19	550.10
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-119.28	
26 05 36 00-0349	EA	36" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,850.88	599.62
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-135.11	
26 05 36 00-0350		36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0351	EA	6" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,485.83	412.58
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-114.20	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0352	EA	9" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,566.77 -120.02	439.81
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0353	EA	12" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,654.12 -126.16	471.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0354	EA	18" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,804.68 -138.13	508.16
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0355	EA	24" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,063.74 -156.40	599.62
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0356	EA	30" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,251.41 -170.22	659.02
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0357	EA	36" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,465.19 -185.34	734.12
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0358 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0359	EA	6" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	977.05 -70.20	330.06
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0360	EA	9" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,026.53 -73.70	347.40
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0361	EA	12" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,099.26 -79.40	366.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0362	EA	18" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,182.70 -85.88	388.65
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0363	EA	24" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,329.79 -96.32	439.81
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0364	EA	30" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,500.34 -110.77	471.17
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0365	EA	36" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,643.11 -122.02	507.47
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0366 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0367	EA	6" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,438.87 -113.35	366.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0368	EA	9" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,501.39 -117.76	388.52
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0369	EA	12" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,567.25 -122.34	412.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0370	EA	18" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,669.29 -130.27	439.81
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0371	EA	24" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,844.77 -142.14	508.16
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0372	EA	30" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,981.65 -152.32	550.10
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0373	EA	36" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,234.02 -173.43	599.62
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0374 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0375	EA	6" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,845.02 -150.12	412.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0376	EA	9" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,941.92 -157.54	439.81
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0377	EA	12" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,045.24 -165.28	471.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0378	EA	18" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,235.71 -181.23	508.16
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0379	EA	24" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,542.66	599.62
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-204.29	
26 05 36 00-0380	EA	30" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,770.24	659.02
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-222.10	
26 05 36 00-0381	EA	36" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	3,023.93	734.12
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-241.22	
26 05 36 00-0382		9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-0002)		
26 05 36 00-0383		12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0384	EA	6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	322.95	137.94
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.80	
26 05 36 00-0385	EA	9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	362.37	157.06
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.14	
26 05 36 00-0386	EA	12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	398.78	173.70
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.41	
26 05 36 00-0387	EA	18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	496.71	212.89
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.93	
26 05 36 00-0388	EA	24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	567.00	244.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.33	
26 05 36 00-0389	EA	30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	668.32	275.06
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.91	
26 05 36 00-0390	EA	36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	769.32	314.38
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.73	
26 05 36 00-0391		24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0392	EA	6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	431.26	143.44
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.17	
26 05 36 00-0393	EA	9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	472.91	164.89
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.55	
26 05 36 00-0394	EA	12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	511.08	183.33
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.83	
26 05 36 00-0395	EA	18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	601.21	227.74
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.15	
26 05 36 00-0396	EA	24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	678.21	264.18
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.81	
26 05 36 00-0397	EA	30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	758.41	299.80
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.85	
26 05 36 00-0398	EA	36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	886.28	347.26
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.69	
26 05 36 00-0399		36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0400	EA	6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	462.72	149.90
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.78	
26 05 36 00-0401	EA	9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	513.84	173.56
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.93	
26 05 36 00-0402	EA	12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	558.77	194.19
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.69	
26 05 36 00-0403	EA	18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	676.38	244.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.27	
26 05 36 00-0404	EA	24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	773.81	286.88
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.47	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0405	EA	30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	904.86 -62.98	330.06
26 05 36 00-0406	EA	36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	1,033.55 -71.04	387.83
26 05 36 00-0407 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)				
26 05 36 00-0408	EA	6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	239.00 -40.56 -73.15 -15.57	99.98
26 05 36 00-0409	EA	9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	275.17 -44.86 -81.42 -17.53	119.92
26 05 36 00-0410	EA	12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	307.55 -48.77 -88.93 -19.29	137.53
26 05 36 00-0411	EA	18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	372.43 -56.28 -103.46 -22.76	173.83
26 05 36 00-0412	EA	24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	461.24 -70.60 -129.50 -28.38	212.89
26 05 36 00-0413	EA	30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	543.35 -85.61 -156.27 -33.97	244.39
26 05 36 00-0414	EA	36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	620.08 -94.65 -173.68 -38.10	286.88
26 05 36 00-0415 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)				
26 05 36 00-0416	EA	6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	263.47 -47.43 -84.77 -17.76	103.14
26 05 36 00-0417	EA	9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	304.80 -52.92 -95.11 -20.12	124.32
26 05 36 00-0418	EA	12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	348.64 -60.02 -108.01 -22.90	143.58
26 05 36 00-0419	EA	18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	417.96 -67.63 -122.91 -26.52	183.33
26 05 36 00-0420	EA	24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	515.48 -82.83 -150.69 -32.57	227.74
26 05 36 00-0421	EA	30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	602.83 -97.68 -177.48 -38.27	264.18
26 05 36 00-0422	EA	36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	710.36 -113.87 -207.26 -44.83	314.52



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0423			36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0424	EA		6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	308.88	106.45
			For 60 Degree Bend, Deduct	-61.15	
			For 30 Degree Bend, Deduct	-107.82	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.02	
26 05 36 00-0425	EA		9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	354.37	129.27
			For 60 Degree Bend, Deduct	-67.40	
			For 30 Degree Bend, Deduct	-119.51	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.67	
26 05 36 00-0426	EA		12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	391.95	150.04
			For 60 Degree Bend, Deduct	-71.83	
			For 30 Degree Bend, Deduct	-128.06	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.69	
26 05 36 00-0427	EA		18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	477.47	194.19
			For 60 Degree Bend, Deduct	-83.10	
			For 30 Degree Bend, Deduct	-149.30	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.56	
26 05 36 00-0428	EA		24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	569.96	244.39
			For 60 Degree Bend, Deduct	-94.39	
			For 30 Degree Bend, Deduct	-170.90	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.63	
26 05 36 00-0429	EA		30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	688.08	286.88
			For 60 Degree Bend, Deduct	-117.09	
			For 30 Degree Bend, Deduct	-211.08	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.90	
26 05 36 00-0430	EA		36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	812.37	347.26
			For 60 Degree Bend, Deduct	-134.95	
			For 30 Degree Bend, Deduct	-244.22	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.30	
26 05 36 00-0431			12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0432	EA		6" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	357.81	137.53
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.32	
26 05 36 00-0433	EA		9" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	393.42	157.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.25	
26 05 36 00-0434	EA		12" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	425.39	173.70
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.07	
26 05 36 00-0435	EA		18" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	496.71	212.89
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.93	
26 05 36 00-0436	EA		24" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	555.18	244.39
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.15	
26 05 36 00-0437	EA		30" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	618.06	275.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.89	
26 05 36 00-0438	EA		36" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	688.86	313.97
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.72	
26 05 36 00-0439			24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0440	EA		6" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	420.91	143.44
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.14	
26 05 36 00-0441	EA		9" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	461.31	165.03
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.38	
26 05 36 00-0442	EA		12" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	499.26	183.33
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.65	
26 05 36 00-0443	EA		18" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	583.47	227.74
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.37	
26 05 36 00-0444	EA		24" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	654.56	264.18
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.44	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0445	EA	30" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	725.89	299.80	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.60		
26 05 36 00-0446	EA	36" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	833.06	347.26	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.37		
26 05 36 00-0447 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)					
26 05 36 00-0448	EA	6" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	495.24	149.90	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.03		
26 05 36 00-0449	EA	9" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	543.64	173.70	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.89		
26 05 36 00-0450	EA	12" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	580.94	194.19	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.91		
26 05 36 00-0451	EA	18" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	685.25	244.39	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.16		
26 05 36 00-0452	EA	24" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	759.03	286.88	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.99		
26 05 36 00-0453	EA	30" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	869.38	330.06	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.43		
26 05 36 00-0454	EA	36" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	986.24	387.83	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.31		
26 05 36 00-0455 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)					
26 05 36 00-0456	EA	6" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	638.30	264.18	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.82		
26 05 36 00-0457	EA	9" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	691.03	286.88	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.19		
26 05 36 00-0458	EA	12" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	724.41	299.80	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.45		
26 05 36 00-0459	EA	18" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	807.30	330.06	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.23		
26 05 36 00-0460	EA	24" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	912.23	366.37	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.69		
26 05 36 00-0461	EA	30" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,008.16	388.52	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.44		
26 05 36 00-0462	EA	36" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,141.06	439.81	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.45		
26 05 36 00-0463 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)					
26 05 36 00-0464	EA	6" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	788.59	286.88	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.95		
26 05 36 00-0465	EA	9" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	849.30	314.52	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.72		
26 05 36 00-0466	EA	12" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	887.12	330.06	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.21		
26 05 36 00-0467	EA	18" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	974.31	366.37	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.90		
26 05 36 00-0468	EA	24" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,083.77	412.58	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-74.00		
26 05 36 00-0469	EA	30" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,164.71	439.81	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-79.82		
26 05 36 00-0470	EA	36" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,399.67	508.16	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.63		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0471 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0472 EA 6" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	988.25	314.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.62	
26 05 36 00-0473 EA 9" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,060.70	347.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-77.13	
26 05 36 00-0474 EA 12" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,125.09	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-81.97	
26 05 36 00-0475 EA 18" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,240.46	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-89.66	
26 05 36 00-0476 EA 24" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,408.75	471.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-101.63	
26 05 36 00-0477 EA 30" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,526.79	508.16
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-110.34	
26 05 36 00-0478 EA 36" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,729.68	599.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-122.99	
26 05 36 00-0479 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0480 EA 6" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	744.38	244.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.07	
26 05 36 00-0481 EA 9" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	763.38	254.01
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.17	
26 05 36 00-0482 EA 12" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	783.16	264.18
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.30	
26 05 36 00-0483 EA 18" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	827.02	286.88
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-58.79	
26 05 36 00-0484 EA 24" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	854.49	299.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-60.46	
26 05 36 00-0485 EA 30" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	928.51	330.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-65.35	
26 05 36 00-0486 EA 36" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,003.88	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-69.85	
26 05 36 00-0487 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0488 EA 6" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,049.23	264.18
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-82.91	
26 05 36 00-0489 EA 9" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,076.29	275.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-84.71	
26 05 36 00-0490 EA 12" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,104.92	286.88
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.58	
26 05 36 00-0491 EA 18" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,168.58	314.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-90.65	
26 05 36 00-0492 EA 24" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,212.31	330.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-93.73	
26 05 36 00-0493 EA 30" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,290.64	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-98.53	
26 05 36 00-0494 EA 36" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,397.14	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-105.33	
26 05 36 00-0495 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0496 EA 6" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,616.36	286.88
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-137.73	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0497	EA	9" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,652.69	299.80	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-140.28		
26 05 36 00-0498	EA	12" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,691.85	314.52	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-142.98		
26 05 36 00-0499	EA	18" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,761.34	347.26	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-147.19		
26 05 36 00-0500	EA	24" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,807.99	366.37	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-150.26		
26 05 36 00-0501	EA	30" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,929.28	412.58	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-158.55		
26 05 36 00-0502	EA	36" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,041.40	471.03	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-164.89		
26 05 36 00-0503 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)					
26 05 36 00-0504	EA	6" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	795.47	330.06	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.04		
26 05 36 00-0505	EA	9" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	836.02	347.26	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.66		
26 05 36 00-0506	EA	12" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	891.54	366.37	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.62		
26 05 36 00-0507	EA	18" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	954.95	388.52	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.12		
26 05 36 00-0508	EA	24" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,076.02	439.81	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.95		
26 05 36 00-0509	EA	30" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,195.90	471.03	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.34		
26 05 36 00-0510	EA	36" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,305.07	508.16	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.17		
26 05 36 00-0511 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)					
26 05 36 00-0512	EA	6" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,086.65	366.37	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.13		
26 05 36 00-0513	EA	9" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,138.24	388.52	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.45		
26 05 36 00-0514	EA	12" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,193.16	412.58	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.93		
26 05 36 00-0515	EA	18" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,271.14	439.81	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-90.46		
26 05 36 00-0516	EA	24" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,420.36	508.16	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.69		
26 05 36 00-0517	EA	30" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,528.80	550.10	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.04		
26 05 36 00-0518	EA	36" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,708.98	599.62	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-120.92		
26 05 36 00-0519 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)					
26 05 36 00-0520	EA	6" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,352.80	412.58	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.90		
26 05 36 00-0521	EA	9" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,427.82	439.81	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.13		
26 05 36 00-0522	EA	12" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,509.26	471.03	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-111.68		
26 05 36 00-0523	EA	18" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,645.04	508.16	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-122.16		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0524	EA		24" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,886.36	599.62
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-138.66	
26 05 36 00-0525	EA		30" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,059.25	659.02
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-151.00	
26 05 36 00-0526	EA		36" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,258.24	734.12
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-164.65	
26 05 36 00-0527			12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0528	EA		6" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	905.89	330.06
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.08	
26 05 36 00-0529	EA		9" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	951.95	347.40
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.24	
26 05 36 00-0530	EA		12" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,017.81	366.37
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.25	
26 05 36 00-0531	EA		18" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,093.54	388.65
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.97	
26 05 36 00-0532	EA		24" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,230.34	439.81
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.38	
26 05 36 00-0533	EA		30" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,381.17	471.17
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.85	
26 05 36 00-0534	EA		36" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,510.23	507.47
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-108.73	
26 05 36 00-0535			24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0536	EA		6" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,300.84	366.37
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.55	
26 05 36 00-0537	EA		9" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,359.07	388.52
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-103.53	
26 05 36 00-0538	EA		12" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,420.64	412.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.68	
26 05 36 00-0539	EA		18" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,513.26	439.81
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-114.67	
26 05 36 00-0540	EA		24" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,678.45	508.16
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-125.50	
26 05 36 00-0541	EA		30" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,804.18	550.10
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-134.58	
26 05 36 00-0542	EA		36" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,028.26	599.62
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-152.85	
26 05 36 00-0543			36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0544	EA		6" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,652.12	412.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-130.83	
26 05 36 00-0545	EA		9" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,740.45	439.81
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-137.39	
26 05 36 00-0546	EA		12" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,835.20	471.03
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-144.27	
26 05 36 00-0547	EA		18" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,004.23	508.16
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-158.08	
26 05 36 00-0548	EA		24" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,285.46	599.62
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-178.57	
26 05 36 00-0549	EA		30" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,491.61	659.02
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-194.24	
26 05 36 00-0550	EA		36" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,723.86	734.12
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-211.21	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0551	12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-0002)		
26 05 36 00-0552	12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0553	EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	316.43	137.94
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.15	
26 05 36 00-0554	EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	355.34	157.06
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.44	
26 05 36 00-0555	EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	391.13	173.70
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.64	
26 05 36 00-0556	EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	486.78	212.89
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.94	
26 05 36 00-0557	EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	555.83	244.39
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.22	
26 05 36 00-0558	EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	653.62	275.06
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.44	
26 05 36 00-0559	EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	752.15	314.38
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.02	
26 05 36 00-0560	24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0561	EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	417.81	143.44
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.83	
26 05 36 00-0562	EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	459.05	164.89
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.16	
26 05 36 00-0563	EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	496.70	183.33
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.39	
26 05 36 00-0564	EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	585.69	227.74
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.59	
26 05 36 00-0565	EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	661.55	264.18
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.14	
26 05 36 00-0566	EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	740.30	299.80
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.04	
26 05 36 00-0567	EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	864.75	347.26
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.53	
26 05 36 00-0568	36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0569	EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	447.82	149.90
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.29	
26 05 36 00-0570	EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	498.11	173.56
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.35	
26 05 36 00-0571	EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	542.31	194.19
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.04	
26 05 36 00-0572	EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	657.55	244.39
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.39	
26 05 36 00-0573	EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	753.12	286.88
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.40	
26 05 36 00-0574	EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	880.02	330.06
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-60.50	
26 05 36 00-0575	EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,006.44	387.83
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.33	
26 05 36 00-0576	12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0577	EA	6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	233.93	99.98
		For 60 Degree Bend, Deduct	-38.89	
		For 30 Degree Bend, Deduct	-70.36	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.06	
26 05 36 00-0578	EA	9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	269.89	119.92
		For 60 Degree Bend, Deduct	-43.11	
		For 30 Degree Bend, Deduct	-78.52	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.00	
26 05 36 00-0579	EA	12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	302.07	137.53
		For 60 Degree Bend, Deduct	-46.96	
		For 30 Degree Bend, Deduct	-85.92	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.75	
26 05 36 00-0580	EA	18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	366.63	173.83
		For 60 Degree Bend, Deduct	-54.37	
		For 30 Degree Bend, Deduct	-100.27	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.18	
26 05 36 00-0581	EA	24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	453.79	212.89
		For 60 Degree Bend, Deduct	-68.14	
		For 30 Degree Bend, Deduct	-125.40	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.64	
26 05 36 00-0582	EA	30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	533.83	244.39
		For 60 Degree Bend, Deduct	-82.47	
		For 30 Degree Bend, Deduct	-151.03	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.02	
26 05 36 00-0583	EA	36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	610.15	286.88
		For 60 Degree Bend, Deduct	-91.37	
		For 30 Degree Bend, Deduct	-168.22	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.11	
26 05 36 00-0584		24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0585	EA	6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	257.05	103.14
		For 60 Degree Bend, Deduct	-45.31	
		For 30 Degree Bend, Deduct	-81.24	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.11	
26 05 36 00-0586	EA	9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	297.97	124.32
		For 60 Degree Bend, Deduct	-50.66	
		For 30 Degree Bend, Deduct	-91.35	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.44	
26 05 36 00-0587	EA	12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	340.99	143.58
		For 60 Degree Bend, Deduct	-57.50	
		For 30 Degree Bend, Deduct	-103.80	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.14	
26 05 36 00-0588	EA	18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	410.10	183.33
		For 60 Degree Bend, Deduct	-65.04	
		For 30 Degree Bend, Deduct	-118.59	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.73	
26 05 36 00-0589	EA	24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	505.96	227.74
		For 60 Degree Bend, Deduct	-79.68	
		For 30 Degree Bend, Deduct	-145.46	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.62	
26 05 36 00-0590	EA	30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	591.44	264.18
		For 60 Degree Bend, Deduct	-93.92	
		For 30 Degree Bend, Deduct	-171.21	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.13	
26 05 36 00-0591	EA	36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	697.32	314.52
		For 60 Degree Bend, Deduct	-109.57	
		For 30 Degree Bend, Deduct	-200.09	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.53	
26 05 36 00-0592		36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0593	EA	6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	299.67	106.45
		For 60 Degree Bend, Deduct	-58.11	
		For 30 Degree Bend, Deduct	-102.76	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.10	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0594	EA	9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	344.64 -64.18 -114.16 -23.69	129.27
26 05 36 00-0595	EA	12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	382.02 -68.56 -122.59 -25.70	150.04
26 05 36 00-0596	EA	18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	466.71 -79.55 -143.38 -30.48	194.19
26 05 36 00-0597	EA	24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	558.57 -90.64 -164.64 -35.49	244.39
26 05 36 00-0598	EA	30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	673.38 -112.23 -203.00 -43.43	286.88
26 05 36 00-0599	EA	36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	796.02 -129.56 -235.22 -50.66	347.26
26 05 36 00-0600		12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0601	EA	6" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	348.81 -23.42	137.53
26 05 36 00-0602	EA	9" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	384.21 -25.33	157.06
26 05 36 00-0603	EA	12" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	415.87 -27.12	173.70
26 05 36 00-0604	EA	18" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	486.78 -30.94	212.89
26 05 36 00-0605	EA	24" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	544.83 -34.12	244.39
26 05 36 00-0606	EA	30" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	606.89 -37.77	275.06
26 05 36 00-0607	EA	36" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	677.27 -41.56	313.97
26 05 36 00-0608		24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0609	EA	6" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	408.19 -28.86	143.44
26 05 36 00-0610	EA	9" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	448.27 -31.07	165.03
26 05 36 00-0611	EA	12" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	485.70 -33.29	183.33
26 05 36 00-0612	EA	18" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	569.20 -37.95	227.74
26 05 36 00-0613	EA	24" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	639.56 -41.94	264.18
26 05 36 00-0614	EA	30" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	710.06 -46.02	299.80
26 05 36 00-0615	EA	36" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	815.26 -52.59	347.26
26 05 36 00-0616		36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0617	EA	6" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	478.07 -35.31	149.90
26 05 36 00-0618	EA	9" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	525.84 -38.11	173.70
26 05 36 00-0619	EA	12" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	562.93 -40.11	194.19
26 05 36 00-0620	EA	18" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	665.80 -46.21	244.39
26 05 36 00-0621	EA	24" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	739.37 -50.03	286.88
26 05 36 00-0622	EA	30" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	847.03 -57.20	330.06
26 05 36 00-0623	EA	36" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	962.45 -63.93	387.83
26 05 36 00-0624		12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0625	EA	6" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	618.49 -39.84	264.18
26 05 36 00-0626	EA	9" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	669.75 -43.07	286.88
26 05 36 00-0627	EA	12" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	701.94 -45.21	299.80
26 05 36 00-0628	EA	18" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	781.58 -50.65	330.06
26 05 36 00-0629	EA	24" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	882.08 -57.67	366.37
26 05 36 00-0630	EA	30" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	972.09 -64.83	388.52
26 05 36 00-0631	EA	36" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	1,100.26 -73.37	439.81
26 05 36 00-0632		24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0633	EA	6" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	757.55 -51.85	286.88
26 05 36 00-0634	EA	9" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	816.78 -55.47	314.52
26 05 36 00-0635	EA	12" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	853.42 -57.84	330.06
26 05 36 00-0636	EA	18" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	937.95 -63.26	366.37
26 05 36 00-0637	EA	24" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	1,044.16 -70.03	412.58
26 05 36 00-0638	EA	30" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	1,121.55 -75.50	439.81
26 05 36 00-0639	EA	36" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	1,344.39 -92.10	508.16
26 05 36 00-0640		36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0641	EA	6" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	941.84 -67.98	314.52
26 05 36 00-0642	EA	9" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	1,012.51 -72.31	347.26

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0643	EA	12" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,073.65	366.37	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.83		
26 05 36 00-0644	EA	18" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,185.18	412.58	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.14		
26 05 36 00-0645	EA	24" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,346.37	471.03	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.39		
26 05 36 00-0646	EA	30" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,458.79	508.16	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-103.54		
26 05 36 00-0647	EA	36" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,656.66	599.62	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-115.69		
26 05 36 00-0648 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)					
26 05 36 00-0649	EA	6" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	710.68	244.39	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.70		
26 05 36 00-0650	EA	9" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	729.39	254.01	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.77		
26 05 36 00-0651	EA	12" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	748.87	264.18	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.88		
26 05 36 00-0652	EA	18" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	792.14	286.88	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.31		
26 05 36 00-0653	EA	24" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	819.01	299.80	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.91		
26 05 36 00-0654	EA	30" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	890.67	330.06	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.56		
26 05 36 00-0655	EA	36" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	964.56	366.37	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.92		
26 05 36 00-0656 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)					
26 05 36 00-0657	EA	6" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	988.33	264.18	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.82		
26 05 36 00-0658	EA	9" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,014.50	275.06	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.53		
26 05 36 00-0659	EA	12" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,042.24	286.88	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.32		
26 05 36 00-0660	EA	18" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,104.14	314.52	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.21		
26 05 36 00-0661	EA	24" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,146.09	330.06	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.10		
26 05 36 00-0662	EA	30" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,222.64	366.37	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.73		
26 05 36 00-0663	EA	36" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,326.19	412.58	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.24		
26 05 36 00-0664 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)					
26 05 36 00-0665	EA	6" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,502.54	286.88	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-126.35		
26 05 36 00-0666	EA	9" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,537.39	299.80	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-128.75		
26 05 36 00-0667	EA	12" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,575.07	314.52	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-131.30		
26 05 36 00-0668	EA	18" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,643.09	347.26	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-135.37		
26 05 36 00-0669	EA	24" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,688.26	366.37	
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-138.29		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0670	EA	30" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,805.11	412.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-146.13	
26 05 36 00-0671	EA	36" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,915.75	471.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-152.33	
26 05 36 00-0672		12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0673	EA	6" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	770.94	330.06
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.59	
26 05 36 00-0674	EA	9" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	810.30	347.26
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.09	
26 05 36 00-0675	EA	12" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	863.45	366.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.81	
26 05 36 00-0676	EA	18" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	924.20	388.52
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.05	
26 05 36 00-0677	EA	24" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,041.73	439.81
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.52	
26 05 36 00-0678	EA	30" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,154.80	471.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.23	
26 05 36 00-0679	EA	36" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,259.24	508.16
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.58	
26 05 36 00-0680		24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0681	EA	6" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,039.06	366.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.37	
26 05 36 00-0682	EA	9" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,089.16	388.52
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.54	
26 05 36 00-0683	EA	12" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,142.60	412.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-79.88	
26 05 36 00-0684	EA	18" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,217.33	439.81
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-85.08	
26 05 36 00-0685	EA	24" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,363.01	508.16
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-93.96	
26 05 36 00-0686	EA	30" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,467.61	550.10
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.92	
26 05 36 00-0687	EA	36" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,638.03	599.62
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-113.83	
26 05 36 00-0688		36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0689	EA	6" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,286.28	412.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-94.25	
26 05 36 00-0690	EA	9" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,358.35	439.81
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.18	
26 05 36 00-0691	EA	12" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,436.83	471.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-104.43	
26 05 36 00-0692	EA	18" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,565.22	508.16
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-114.18	
26 05 36 00-0693	EA	24" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,797.67	599.62
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-129.79	
26 05 36 00-0694	EA	30" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,963.17	659.02
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-141.39	
26 05 36 00-0695	EA	36" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,154.77	734.12
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-154.30	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 36 00-0696	12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)				
26 05 36 00-0697	EA 6" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	870.31		330.06	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.53			
26 05 36 00-0698	EA 9" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	914.65		347.40	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.51			
26 05 36 00-0699	EA 12" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	977.09		366.37	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-67.18			
26 05 36 00-0700	EA 18" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,048.96		388.65	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.51			
26 05 36 00-0701	EA 24" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,180.61		439.81	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-81.41			
26 05 36 00-0702	EA 30" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,321.59		471.17	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.89			
26 05 36 00-0703	EA 36" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,443.79		507.47	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-102.09			
26 05 36 00-0704	24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)				
26 05 36 00-0705	EA 6" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,231.82		366.37	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.65			
26 05 36 00-0706	EA 9" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,287.91		388.52	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-96.42			
26 05 36 00-0707	EA 12" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,347.34		412.58	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-100.35			
26 05 36 00-0708	EA 18" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,435.24		439.81	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-106.87			
26 05 36 00-0709	EA 24" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,595.29		508.16	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-117.19			
26 05 36 00-0710	EA 30" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,715.45		550.10	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-125.70			
26 05 36 00-0711	EA 36" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,925.38		599.62	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-142.56			
26 05 36 00-0712	36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)				
26 05 36 00-0713	EA 6" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,555.67		412.58	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-121.19			
26 05 36 00-0714	EA 9" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,639.71		439.81	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-127.32			
26 05 36 00-0715	EA 12" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,730.17		471.03	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-133.77			
26 05 36 00-0716	EA 18" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,888.49		508.16	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-146.51			
26 05 36 00-0717	EA 24" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,156.86		599.62	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-165.71			
26 05 36 00-0718	EA 30" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,352.29		659.02	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-180.31			
26 05 36 00-0719	EA 36" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,573.83		734.12	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-196.21			
26 05 36 00-0720	Dropout Or End Plates And Reducers (26 05 36 00-0002)				
26 05 36 00-0721	Straight Reducers (26 05 36 00-0720)				
26 05 36 00-0722	EA 9" To 6" Reducer, Steel Cable Tray.....	305.19		101.50	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.06			
26 05 36 00-0723	EA 12" To 9" Reducer, Steel Cable Tray.....	322.13		109.88	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.05			



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0724	EA	18" To 12" Reducer, Steel Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	350.40 -24.47	126.80
26 05 36 00-0725	EA	24" To 18" Reducer, Steel Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	386.44 -26.42	146.74
26 05 36 00-0726	EA	30" To 24" Reducer, Steel Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	419.92 -28.24	165.03
26 05 36 00-0727	EA	36" To 30" Reducer, Steel Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	476.87 -31.97	188.55
26 05 36 00-0728 Reducers (26 05 36 00-0720)				
26 05 36 00-0729	EA	18" To 6" Reducer, Steel Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	356.44 -25.07	126.94
26 05 36 00-0730	EA	24" To 12" Reducer, Steel Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	392.71 -27.03	146.88
26 05 36 00-0731	EA	30" To 12" Reducer, Steel Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	431.52 -29.41	164.89
26 05 36 00-0732	EA	30" To 18" Reducer, Steel Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	437.22 -29.99	164.76
26 05 36 00-0733	EA	36" To 12" Reducer, Steel Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	479.82 -32.27	188.55
26 05 36 00-0734	EA	36" To 18" Reducer, Steel Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	494.00 -33.27	193.50
26 05 36 00-0735	EA	36" To 24" Reducer, Steel Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	510.21 -34.38	199.69
26 05 36 00-0736 Dropout Or End Plate (26 05 36 00-0720)				
26 05 36 00-0737	EA	6" Dropout Or End Plate, Steel Cable Tray.....	83.98	41.26
26 05 36 00-0738	EA	9" Dropout Or End Plate, Steel Cable Tray.....	96.42	47.17
26 05 36 00-0739	EA	12" Dropout Or End Plate, Steel Cable Tray.....	104.08	50.75
26 05 36 00-0740	EA	18" Dropout Or End Plate, Steel Cable Tray.....	122.88	59.96
26 05 36 00-0741	EA	24" Dropout Or End Plate, Steel Cable Tray.....	137.81	66.01
26 05 36 00-0742	EA	30" Dropout Or End Plate, Steel Cable Tray.....	152.72	73.30
26 05 36 00-0743	EA	36" Dropout Or End Plate, Steel Cable Tray.....	172.41	82.52
26 05 36 00-0744 Ladder Bottom Aluminum Cable Tray (26 05 36 00-0001) Note: 4-5/8" Height				
26 05 36 00-0745 Straight Tray Sections (26 05 36 00-0744)				
26 05 36 00-0746 4" Rung Spacing (26 05 36 00-0745)				
26 05 36 00-0747	LF	6" Aluminum Cable Tray, 4" Rung Spacing, Straight Section..... <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	123.27 16.88 -11.52 6.16	9.63
26 05 36 00-0748	LF	9" Aluminum Cable Tray, 4" Rung Spacing, Straight Section..... <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	130.35 17.86 -12.19 6.52	10.18
26 05 36 00-0749	LF	12" Aluminum Cable Tray, 4" Rung Spacing, Straight Section..... <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	137.41 18.84 -12.86 6.87	10.59
26 05 36 00-0750	LF	18" Aluminum Cable Tray, 4" Rung Spacing, Straight Section..... <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	152.66 20.96 -14.30 7.63	11.55
26 05 36 00-0751	LF	24" Aluminum Cable Tray, 4" Rung Spacing, Straight Section..... <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	176.30 24.39 -16.60 8.82	12.37
26 05 36 00-0752	LF	30" Aluminum Cable Tray, 4" Rung Spacing, Straight Section..... <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	193.39 26.82 -18.24 9.67	13.21
26 05 36 00-0753	LF	36" Aluminum Cable Tray, 4" Rung Spacing, Straight Section..... <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	208.49 28.93 -19.68 10.42	14.03
26 05 36 00-0754 6" Rung Spacing (26 05 36 00-0745)				
26 05 36 00-0755	LF	6" Aluminum Cable Tray, 6" Rung Spacing, Straight Section..... <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	113.52 15.42 -10.55 5.68	9.63
26 05 36 00-0756	LF	9" Aluminum Cable Tray, 6" Rung Spacing, Straight Section..... <i>For Class 12C Instead Of Class 12B, Add</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	120.04 16.32 -11.16 6.00	10.18

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0757	LF	12" Aluminum Cable Tray, 6" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	126.53 17.21 -11.77 6.33	10.59
26 05 36 00-0758	LF	18" Aluminum Cable Tray, 6" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	140.55 19.15 -13.09 7.03	11.55
26 05 36 00-0759	LF	24" Aluminum Cable Tray, 6" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	162.14 22.27 -15.19 8.11	12.37
26 05 36 00-0760	LF	30" Aluminum Cable Tray, 6" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	177.80 24.48 -16.68 8.89	13.21
26 05 36 00-0761	LF	36" Aluminum Cable Tray, 6" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	191.67 26.41 -18.00 9.58	14.03
26 05 36 00-0762 9" Rung Spacing (26 05 36 00-0745)				
26 05 36 00-0763	LF	6" Aluminum Cable Tray, 9" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	100.96 13.60 -9.33 5.05	9.22
26 05 36 00-0764	LF	9" Aluminum Cable Tray, 9" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	102.12 13.71 -9.41 5.11	9.63
26 05 36 00-0765	LF	12" Aluminum Cable Tray, 9" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	109.55 14.74 -10.11 5.48	10.18
26 05 36 00-0766	LF	18" Aluminum Cable Tray, 9" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	116.97 15.73 -10.79 5.85	10.86
26 05 36 00-0767	LF	24" Aluminum Cable Tray, 9" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	132.82 18.05 -12.34 6.64	11.28
26 05 36 00-0768	LF	30" Aluminum Cable Tray, 9" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	147.17 20.05 -13.70 7.36	12.10
26 05 36 00-0769	LF	36" Aluminum Cable Tray, 9" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	156.06 21.21 -14.50 7.80	13.21
26 05 36 00-0770 12" Rung Spacing (26 05 36 00-0745)				
26 05 36 00-0771	LF	6" Aluminum Cable Tray, 12" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	99.00 13.36 -9.16 4.95	8.94
26 05 36 00-0772	LF	9" Aluminum Cable Tray, 12" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	100.01 13.46 -9.23 5.00	9.22
26 05 36 00-0773	LF	12" Aluminum Cable Tray, 12" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	103.77 13.93 -9.56 5.19	9.77
26 05 36 00-0774	LF	18" Aluminum Cable Tray, 12" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	109.95 14.76 -10.13 5.50	10.31
26 05 36 00-0775	LF	24" Aluminum Cable Tray, 12" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	120.66 16.35 -11.19 6.03	10.45
26 05 36 00-0776	LF	30" Aluminum Cable Tray, 12" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	129.45 17.50 -11.99 6.47	11.55
26 05 36 00-0777	LF	36" Aluminum Cable Tray, 12" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	136.77 18.43 -12.64 6.84	12.51
26 05 36 00-0778 18" Rung Spacing (26 05 36 00-0745)				



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0779	LF		6" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	98.12	8.67
			For Class 12C Instead Of Class 12B, Add	13.27	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-9.09	
			For 6" Overall Height Instead Of 4-5/8", Add	4.91	
26 05 36 00-0780	LF		9" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	97.71	9.08
			For Class 12C Instead Of Class 12B, Add	13.15	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-9.02	
			For 6" Overall Height Instead Of 4-5/8", Add	4.89	
26 05 36 00-0781	LF		12" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	103.09	9.35
			For Class 12C Instead Of Class 12B, Add	13.90	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-9.53	
			For 6" Overall Height Instead Of 4-5/8", Add	5.15	
26 05 36 00-0782	LF		18" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	108.65	9.90
			For Class 12C Instead Of Class 12B, Add	14.65	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.04	
			For 6" Overall Height Instead Of 4-5/8", Add	5.43	
26 05 36 00-0783	LF		24" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	116.04	10.04
			For Class 12C Instead Of Class 12B, Add	15.74	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.77	
			For 6" Overall Height Instead Of 4-5/8", Add	5.80	
26 05 36 00-0784	LF		30" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	120.88	11.00
			For Class 12C Instead Of Class 12B, Add	16.31	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.18	
			For 6" Overall Height Instead Of 4-5/8", Add	6.04	
26 05 36 00-0785	LF		36" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	127.38	11.96
			For Class 12C Instead Of Class 12B, Add	17.11	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.74	
			For 6" Overall Height Instead Of 4-5/8", Add	6.37	
26 05 36 00-0786			4" Rung Tray Fittings (26 05 36 00-0744)		
26 05 36 00-0787			90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0788	EA		6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	386.16	137.94
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.12	
			For 6" Overall Height Instead Of 4-5/8", Add	19.31	
26 05 36 00-0789	EA		9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	422.15	157.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.12	
			For 6" Overall Height Instead Of 4-5/8", Add	21.11	
26 05 36 00-0790	EA		12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	479.37	173.70
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.47	
			For 6" Overall Height Instead Of 4-5/8", Add	23.97	
26 05 36 00-0791	EA		18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	568.53	212.89
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.11	
			For 6" Overall Height Instead Of 4-5/8", Add	28.43	
26 05 36 00-0792	EA		24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	672.53	244.39
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.89	
			For 6" Overall Height Instead Of 4-5/8", Add	33.63	
26 05 36 00-0793	EA		30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	739.42	275.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.02	
			For 6" Overall Height Instead Of 4-5/8", Add	36.97	
26 05 36 00-0794	EA		36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	864.31	314.38
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-60.23	
			For 6" Overall Height Instead Of 4-5/8", Add	43.22	
26 05 36 00-0795			90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0796	EA		6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	516.14	143.44
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.66	
			For 6" Overall Height Instead Of 4-5/8", Add	25.81	
26 05 36 00-0797	EA		9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	563.75	164.89
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.63	
			For 6" Overall Height Instead Of 4-5/8", Add	28.19	
26 05 36 00-0798	EA		12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	608.38	183.33
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.56	
			For 6" Overall Height Instead Of 4-5/8", Add	30.42	
26 05 36 00-0799	EA		18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	707.98	227.74
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.82	
			For 6" Overall Height Instead Of 4-5/8", Add	35.40	
26 05 36 00-0800	EA		24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	800.38	264.18
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-58.03	
			For 6" Overall Height Instead Of 4-5/8", Add	40.02	
26 05 36 00-0801	EA		30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	893.52	299.80
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.37	
			For 6" Overall Height Instead Of 4-5/8", Add	44.68	
26 05 36 00-0802	EA		36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,022.08	347.26
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-73.27	
			For 6" Overall Height Instead Of 4-5/8", Add	51.10	
26 05 36 00-0803			90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0804	EA		6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	554.61	149.90
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.97	
			For 6" Overall Height Instead Of 4-5/8", Add	27.73	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0805	EA	9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	601.82	173.56
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.72	
		For 6" Overall Height Instead Of 4-5/8", Add	30.09	
26 05 36 00-0806	EA	12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	672.02	194.19
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.02	
		For 6" Overall Height Instead Of 4-5/8", Add	33.60	
26 05 36 00-0807	EA	18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	799.17	244.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.55	
		For 6" Overall Height Instead Of 4-5/8", Add	39.96	
26 05 36 00-0808	EA	24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	921.44	286.88
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.24	
		For 6" Overall Height Instead Of 4-5/8", Add	46.07	
26 05 36 00-0809	EA	30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,036.90	330.06
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.19	
		For 6" Overall Height Instead Of 4-5/8", Add	51.85	
26 05 36 00-0810	EA	36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,204.31	387.83
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-88.12	
		For 6" Overall Height Instead Of 4-5/8", Add	60.22	
26 05 36 00-0811		45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0812	EA	6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	269.47	99.98
		For 60 Degree Bend, Deduct	-50.61	
		For 30 Degree Bend, Deduct	-89.91	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.62	
		For 6" Overall Height Instead Of 4-5/8", Add	13.47	
26 05 36 00-0813	EA	9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	306.64	119.92
		For 60 Degree Bend, Deduct	-55.24	
		For 30 Degree Bend, Deduct	-98.73	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.68	
		For 6" Overall Height Instead Of 4-5/8", Add	15.33	
26 05 36 00-0814	EA	12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	340.03	137.53
		For 60 Degree Bend, Deduct	-59.49	
		For 30 Degree Bend, Deduct	-106.79	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.54	
		For 6" Overall Height Instead Of 4-5/8", Add	17.00	
26 05 36 00-0815	EA	18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	420.25	173.83
		For 60 Degree Bend, Deduct	-72.06	
		For 30 Degree Bend, Deduct	-129.76	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.54	
		For 6" Overall Height Instead Of 4-5/8", Add	21.01	
26 05 36 00-0816	EA	24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	517.08	212.89
		For 60 Degree Bend, Deduct	-89.03	
		For 30 Degree Bend, Deduct	-160.21	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.97	
		For 6" Overall Height Instead Of 4-5/8", Add	25.85	
26 05 36 00-0817	EA	30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	593.37	244.39
		For 60 Degree Bend, Deduct	-102.12	
		For 30 Degree Bend, Deduct	-183.78	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.97	
		For 6" Overall Height Instead Of 4-5/8", Add	29.67	
26 05 36 00-0818	EA	36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	672.11	286.88
		For 60 Degree Bend, Deduct	-111.81	
		For 30 Degree Bend, Deduct	-202.30	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.30	
		For 6" Overall Height Instead Of 4-5/8", Add	33.61	
26 05 36 00-0819		45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0820	EA	6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	310.34	103.14
		For 60 Degree Bend, Deduct	-62.89	
		For 30 Degree Bend, Deduct	-110.55	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.44	
		For 6" Overall Height Instead Of 4-5/8", Add	15.52	
26 05 36 00-0821	EA	9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	361.59	124.32
		For 60 Degree Bend, Deduct	-71.66	
		For 30 Degree Bend, Deduct	-126.34	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.80	
		For 6" Overall Height Instead Of 4-5/8", Add	18.08	
26 05 36 00-0822	EA	12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	397.57	143.58
		For 60 Degree Bend, Deduct	-76.17	
		For 30 Degree Bend, Deduct	-134.92	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.79	
		For 6" Overall Height Instead Of 4-5/8", Add	19.88	
26 05 36 00-0823	EA	18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	475.80	183.33
		For 60 Degree Bend, Deduct	-86.72	
		For 30 Degree Bend, Deduct	-154.72	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.30	
		For 6" Overall Height Instead Of 4-5/8", Add	23.79	
26 05 36 00-0824	EA	24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	577.38	227.74
		For 60 Degree Bend, Deduct	-103.25	
		For 30 Degree Bend, Deduct	-184.74	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.76	
		For 6" Overall Height Instead Of 4-5/8", Add	28.87	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0825	EA	30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	677.69	264.18
		For 60 Degree Bend, Deduct	-122.38	
		For 30 Degree Bend, Deduct	-218.65	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.76	
		For 6" Overall Height Instead Of 4-5/8", Add	33.88	
26 05 36 00-0826	EA	36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	773.45	314.52
		For 60 Degree Bend, Deduct	-134.69	
		For 30 Degree Bend, Deduct	-241.96	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.14	
		For 6" Overall Height Instead Of 4-5/8", Add	38.67	
26 05 36 00-0827		45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0828	EA	6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	363.33	106.45
		For 60 Degree Bend, Deduct	-79.12	
		For 30 Degree Bend, Deduct	-137.77	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.47	
		For 6" Overall Height Instead Of 4-5/8", Add	18.17	
26 05 36 00-0829	EA	9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	405.39	129.27
		For 60 Degree Bend, Deduct	-84.23	
		For 30 Degree Bend, Deduct	-147.57	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.77	
		For 6" Overall Height Instead Of 4-5/8", Add	20.27	
26 05 36 00-0830	EA	12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	443.98	150.04
		For 60 Degree Bend, Deduct	-89.00	
		For 30 Degree Bend, Deduct	-156.67	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.90	
		For 6" Overall Height Instead Of 4-5/8", Add	22.20	
26 05 36 00-0831	EA	18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	537.46	194.19
		For 60 Degree Bend, Deduct	-102.90	
		For 30 Degree Bend, Deduct	-182.29	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.56	
		For 6" Overall Height Instead Of 4-5/8", Add	26.87	
26 05 36 00-0832	EA	24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	668.57	244.39
		For 60 Degree Bend, Deduct	-126.94	
		For 30 Degree Bend, Deduct	-225.14	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.49	
		For 6" Overall Height Instead Of 4-5/8", Add	33.43	
26 05 36 00-0833	EA	30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	755.22	286.88
		For 60 Degree Bend, Deduct	-139.24	
		For 30 Degree Bend, Deduct	-248.01	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.61	
		For 6" Overall Height Instead Of 4-5/8", Add	37.76	
26 05 36 00-0834	EA	36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	883.56	347.26
		For 60 Degree Bend, Deduct	-158.45	
		For 30 Degree Bend, Deduct	-283.37	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.42	
		For 6" Overall Height Instead Of 4-5/8", Add	44.18	
26 05 36 00-0835		90 Degree, 12" Radius Vertical Risers (26 05 36 00-0786)		
26 05 36 00-0836	EA	6" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	423.56	137.53
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.90	
		For 6" Overall Height Instead Of 4-5/8", Add	21.18	
26 05 36 00-0837	EA	9" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	466.81	157.06
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.59	
		For 6" Overall Height Instead Of 4-5/8", Add	23.34	
26 05 36 00-0838	EA	12" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	497.89	173.70
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.32	
		For 6" Overall Height Instead Of 4-5/8", Add	24.89	
26 05 36 00-0839	EA	18" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	570.36	212.89
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.30	
		For 6" Overall Height Instead Of 4-5/8", Add	28.52	
26 05 36 00-0840	EA	24" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	633.51	244.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.98	
		For 6" Overall Height Instead Of 4-5/8", Add	31.68	
26 05 36 00-0841	EA	30" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	695.18	275.06
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.60	
		For 6" Overall Height Instead Of 4-5/8", Add	34.76	
26 05 36 00-0842	EA	36" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	767.13	313.97
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.55	
		For 6" Overall Height Instead Of 4-5/8", Add	38.36	
26 05 36 00-0843		90 Degree, 24" Radius Vertical Risers (26 05 36 00-0786)		
26 05 36 00-0844	EA	6" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	449.35	143.44
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.98	
		For 6" Overall Height Instead Of 4-5/8", Add	22.47	
26 05 36 00-0845	EA	9" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	494.15	165.03
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.66	
		For 6" Overall Height Instead Of 4-5/8", Add	24.71	
26 05 36 00-0846	EA	12" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	530.01	183.33
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.72	
		For 6" Overall Height Instead Of 4-5/8", Add	26.50	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0847 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	616.25 -42.65 30.81	227.74
26 05 36 00-0848 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	691.12 -47.10 34.56	264.18
26 05 36 00-0849 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	764.75 -51.49 38.24	299.80
26 05 36 00-0850 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	861.51 -57.21 43.08	347.26
26 05 36 00-0851 90 Degree, 36" Radius Vertical Risers (26 05 36 00-0786)		
26 05 36 00-0852 EA 6" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	574.97 -45.00 28.75	149.90
26 05 36 00-0853 EA 9" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	621.56 -47.69 31.08	173.70
26 05 36 00-0854 EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	677.11 -51.52 33.86	194.19
26 05 36 00-0855 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	774.86 -57.12 38.74	244.39
26 05 36 00-0856 EA 24" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	859.82 -62.07 42.99	286.88
26 05 36 00-0857 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	960.00 -68.50 48.00	330.06
26 05 36 00-0858 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,073.84 -75.07 53.69	387.83
26 05 36 00-0859 12" Radius Horizontal Tees (26 05 36 00-0786)		
26 05 36 00-0860 EA 6" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	664.41 -44.43 33.22	264.18
26 05 36 00-0861 EA 9" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	717.06 -47.80 35.85	286.88
26 05 36 00-0862 EA 12" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	742.28 -49.24 37.11	299.80
26 05 36 00-0863 EA 18" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	840.43 -56.54 42.02	330.06
26 05 36 00-0864 EA 24" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	930.42 -62.51 46.52	366.37
26 05 36 00-0865 EA 30" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,018.67 -69.49 50.93	388.52
26 05 36 00-0866 EA 36" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,177.77 -81.12 58.89	439.81
26 05 36 00-0867 24" Radius Horizontal Tees (26 05 36 00-0786)		
26 05 36 00-0868 EA 6" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	860.38 -62.13 43.02	286.88
26 05 36 00-0869 EA 9" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	928.36 -66.63 46.42	314.52
26 05 36 00-0870 EA 12" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	965.38 -69.03 48.27	330.06
26 05 36 00-0871 EA 18" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,062.72 -75.74 53.14	366.37
26 05 36 00-0872 EA 24" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,180.08 -83.63 59.00	412.58
26 05 36 00-0873 EA 30" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,273.32 -90.68 63.67	439.81
26 05 36 00-0874 EA 36" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,673.72 -125.03 83.69	508.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0875 36" Radius Horizontal Tees (26 05 36 00-0786)		
26 05 36 00-0876 EA 6" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,064.34	314.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.23	
For 6" Overall Height Instead Of 4-5/8", Add	53.22	
26 05 36 00-0877 EA 9" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,133.75	347.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-84.43	
For 6" Overall Height Instead Of 4-5/8", Add	56.69	
26 05 36 00-0878 EA 12" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,217.07	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-91.17	
For 6" Overall Height Instead Of 4-5/8", Add	60.85	
26 05 36 00-0879 EA 18" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,327.08	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-98.33	
For 6" Overall Height Instead Of 4-5/8", Add	66.35	
26 05 36 00-0880 EA 24" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,490.57	471.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-109.81	
For 6" Overall Height Instead Of 4-5/8", Add	74.53	
26 05 36 00-0881 EA 30" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,739.87	508.16
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-131.65	
For 6" Overall Height Instead Of 4-5/8", Add	86.99	
26 05 36 00-0882 EA 36" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,991.72	599.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-149.20	
For 6" Overall Height Instead Of 4-5/8", Add	99.59	
26 05 36 00-0883 12" Radius Vertical Tees (26 05 36 00-0786)		
26 05 36 00-0884 EA 6" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	910.84	244.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-70.72	
For 6" Overall Height Instead Of 4-5/8", Add	45.54	
26 05 36 00-0885 EA 9" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	941.59	254.01
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.99	
For 6" Overall Height Instead Of 4-5/8", Add	47.08	
26 05 36 00-0886 EA 12" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	962.08	264.18
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-74.20	
For 6" Overall Height Instead Of 4-5/8", Add	48.10	
26 05 36 00-0887 EA 18" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,011.06	286.88
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-77.20	
For 6" Overall Height Instead Of 4-5/8", Add	50.55	
26 05 36 00-0888 EA 24" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,076.71	299.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-82.68	
For 6" Overall Height Instead Of 4-5/8", Add	53.84	
26 05 36 00-0889 EA 30" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,138.10	330.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.31	
For 6" Overall Height Instead Of 4-5/8", Add	56.91	
26 05 36 00-0890 EA 36" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,217.07	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-91.17	
For 6" Overall Height Instead Of 4-5/8", Add	60.85	
26 05 36 00-0891 24" Radius Vertical Tees (26 05 36 00-0786)		
26 05 36 00-0892 EA 6" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,292.83	264.18
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-107.27	
For 6" Overall Height Instead Of 4-5/8", Add	64.64	
26 05 36 00-0893 EA 9" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,322.05	275.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-109.28	
For 6" Overall Height Instead Of 4-5/8", Add	66.10	
26 05 36 00-0894 EA 12" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,352.83	286.88
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-111.37	
For 6" Overall Height Instead Of 4-5/8", Add	67.64	
26 05 36 00-0895 EA 18" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,424.49	314.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-116.24	
For 6" Overall Height Instead Of 4-5/8", Add	71.22	
26 05 36 00-0896 EA 24" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,472.53	330.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-119.75	
For 6" Overall Height Instead Of 4-5/8", Add	73.63	
26 05 36 00-0897 EA 30" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,555.17	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-124.98	
For 6" Overall Height Instead Of 4-5/8", Add	77.76	
26 05 36 00-0898 EA 36" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,716.63	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-137.28	
For 6" Overall Height Instead Of 4-5/8", Add	85.83	
26 05 36 00-0899 36" Radius Vertical Tee (26 05 36 00-0786)		
26 05 36 00-0900 EA 6" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,100.15	286.88
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-186.11	
For 6" Overall Height Instead Of 4-5/8", Add	105.01	
26 05 36 00-0901 EA 9" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,142.75	299.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-189.29	
For 6" Overall Height Instead Of 4-5/8", Add	107.14	
26 05 36 00-0902 EA 12" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,188.19	314.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-192.61	
For 6" Overall Height Instead Of 4-5/8", Add	109.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0903	EA	18" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	2,264.00 -197.46 113.20	347.26
26 05 36 00-0904	EA	24" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	2,316.92 -201.16 115.85	366.37
26 05 36 00-0905	EA	30" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	2,457.04 -211.32 122.85	412.58
26 05 36 00-0906	EA	36" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	2,575.43 -218.29 128.77	471.03
26 05 36 00-0907 12" Radius Horizontal Crosses (26 05 36 00-0786)				
26 05 36 00-0908	EA	6" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	862.48 -58.74 43.12	330.06
26 05 36 00-0909	EA	9" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	924.27 -63.49 46.21	347.26
26 05 36 00-0910	EA	12" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	959.82 -65.45 47.99	366.37
26 05 36 00-0911	EA	18" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,070.12 -74.64 53.51	388.52
26 05 36 00-0912	EA	24" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,170.42 -80.39 58.52	439.81
26 05 36 00-0913	EA	30" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,299.47 -90.70 64.97	471.03
26 05 36 00-0914	EA	36" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,489.97 -106.66 74.50	508.16
26 05 36 00-0915 24" Radius Horizontal Crosses (26 05 36 00-0786)				
26 05 36 00-0916	EA	6" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,209.72 -90.44 60.49	366.37
26 05 36 00-0917	EA	9" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,264.89 -94.11 63.24	388.52
26 05 36 00-0918	EA	12" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,323.41 -97.96 66.17	412.58
26 05 36 00-0919	EA	18" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,401.94 -103.54 70.10	439.81
26 05 36 00-0920	EA	24" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,574.49 -115.11 78.72	508.16
26 05 36 00-0921	EA	30" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,731.61 -127.32 86.58	550.10
26 05 36 00-0922	EA	36" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,917.99 -141.83 95.90	599.62
26 05 36 00-0923 36" Radius Horizontal Crosses (26 05 36 00-0786)				
26 05 36 00-0924	EA	6" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,393.23 -104.94 69.66	412.58
26 05 36 00-0925	EA	9" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,501.73 -113.52 75.09	439.81
26 05 36 00-0926	EA	12" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,599.73 -120.72 79.99	471.03
26 05 36 00-0927	EA	18" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,677.39 -125.40 83.87	508.16
26 05 36 00-0928	EA	24" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	2,028.47 -152.87 101.42	599.62
26 05 36 00-0929	EA	30" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	2,237.70 -168.85 111.89	659.02
26 05 36 00-0930	EA	36" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	2,491.42 -187.97 124.57	734.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0931 12" Radius Vertical Cross (26 05 36 00-0786)		
26 05 36 00-0932 EA 6" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	862.48	330.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-58.74	
For 6" Overall Height Instead Of 4-5/8", Add	43.12	
26 05 36 00-0933 EA 9" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	924.46	347.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.50	
For 6" Overall Height Instead Of 4-5/8", Add	46.22	
26 05 36 00-0934 EA 12" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	959.71	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-65.44	
For 6" Overall Height Instead Of 4-5/8", Add	47.99	
26 05 36 00-0935 EA 18" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,070.36	388.65
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-74.65	
For 6" Overall Height Instead Of 4-5/8", Add	53.52	
26 05 36 00-0936 EA 24" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,170.42	439.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.39	
For 6" Overall Height Instead Of 4-5/8", Add	58.52	
26 05 36 00-0937 EA 30" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,299.83	471.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-90.72	
For 6" Overall Height Instead Of 4-5/8", Add	64.99	
26 05 36 00-0938 EA 36" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,488.93	507.47
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-106.60	
For 6" Overall Height Instead Of 4-5/8", Add	74.45	
26 05 36 00-0939 24" Radius Vertical Crosses (26 05 36 00-0786)		
26 05 36 00-0940 EA 6" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,209.72	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-90.44	
For 6" Overall Height Instead Of 4-5/8", Add	60.49	
26 05 36 00-0941 EA 9" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,264.89	388.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-94.11	
For 6" Overall Height Instead Of 4-5/8", Add	63.24	
26 05 36 00-0942 EA 12" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,323.41	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-97.96	
For 6" Overall Height Instead Of 4-5/8", Add	66.17	
26 05 36 00-0943 EA 18" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,401.94	439.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-103.54	
For 6" Overall Height Instead Of 4-5/8", Add	70.10	
26 05 36 00-0944 EA 24" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,574.49	508.16
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-115.11	
For 6" Overall Height Instead Of 4-5/8", Add	78.72	
26 05 36 00-0945 EA 30" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,695.95	550.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-123.75	
For 6" Overall Height Instead Of 4-5/8", Add	84.80	
26 05 36 00-0946 EA 36" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,877.80	599.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-137.81	
For 6" Overall Height Instead Of 4-5/8", Add	93.89	
26 05 36 00-0947 36" Radius Vertical Crosses (26 05 36 00-0786)		
26 05 36 00-0948 EA 6" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,710.75	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-136.69	
For 6" Overall Height Instead Of 4-5/8", Add	85.54	
26 05 36 00-0949 EA 9" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,798.84	439.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-143.23	
For 6" Overall Height Instead Of 4-5/8", Add	89.94	
26 05 36 00-0950 EA 12" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,914.67	471.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-152.22	
For 6" Overall Height Instead Of 4-5/8", Add	95.73	
26 05 36 00-0951 EA 18" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,051.14	508.16
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-162.77	
For 6" Overall Height Instead Of 4-5/8", Add	102.56	
26 05 36 00-0952 EA 24" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,491.52	599.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-199.18	
For 6" Overall Height Instead Of 4-5/8", Add	124.58	
26 05 36 00-0953 EA 30" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,750.37	659.02
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-220.11	
For 6" Overall Height Instead Of 4-5/8", Add	137.52	
26 05 36 00-0954 EA 36" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	3,061.96	734.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-245.02	
For 6" Overall Height Instead Of 4-5/8", Add	153.10	
26 05 36 00-0955 6" Rung Tray Fittings (26 05 36 00-0744)		
26 05 36 00-0956 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0957 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	363.83	137.94
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.89	
For 6" Overall Height Instead Of 4-5/8", Add	18.19	
26 05 36 00-0958 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	399.25	157.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.83	
For 6" Overall Height Instead Of 4-5/8", Add	19.96	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0959 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	452.23	173.70
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.75	
For 6" Overall Height Instead Of 4-5/8", Add	22.61	
26 05 36 00-0960 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	538.00	212.89
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.06	
For 6" Overall Height Instead Of 4-5/8", Add	26.90	
26 05 36 00-0961 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	634.65	244.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.10	
For 6" Overall Height Instead Of 4-5/8", Add	31.73	
26 05 36 00-0962 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	699.27	275.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.01	
For 6" Overall Height Instead Of 4-5/8", Add	34.96	
26 05 36 00-0963 EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	815.69	314.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.37	
For 6" Overall Height Instead Of 4-5/8", Add	40.78	
26 05 36 00-0964 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0965 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	476.56	143.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.70	
For 6" Overall Height Instead Of 4-5/8", Add	23.83	
26 05 36 00-0966 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	522.48	164.89
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.51	
For 6" Overall Height Instead Of 4-5/8", Add	26.12	
26 05 36 00-0967 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	565.13	183.33
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.23	
For 6" Overall Height Instead Of 4-5/8", Add	28.26	
26 05 36 00-0968 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	661.05	227.74
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.13	
For 6" Overall Height Instead Of 4-5/8", Add	33.05	
26 05 36 00-0969 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	748.93	264.18
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.88	
For 6" Overall Height Instead Of 4-5/8", Add	37.45	
26 05 36 00-0970 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	837.27	299.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-58.74	
For 6" Overall Height Instead Of 4-5/8", Add	41.86	
26 05 36 00-0971 EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	958.76	347.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.94	
For 6" Overall Height Instead Of 4-5/8", Add	47.94	
26 05 36 00-0972 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0973 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	511.08	149.90
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.61	
For 6" Overall Height Instead Of 4-5/8", Add	25.55	
26 05 36 00-0974 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	557.15	173.56
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.26	
For 6" Overall Height Instead Of 4-5/8", Add	27.86	
26 05 36 00-0975 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	622.26	194.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.04	
For 6" Overall Height Instead Of 4-5/8", Add	31.11	
26 05 36 00-0976 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	743.20	244.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.95	
For 6" Overall Height Instead Of 4-5/8", Add	37.16	
26 05 36 00-0977 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	858.12	286.88
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.90	
For 6" Overall Height Instead Of 4-5/8", Add	42.91	
26 05 36 00-0978 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	967.35	330.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-69.23	
For 6" Overall Height Instead Of 4-5/8", Add	48.37	
26 05 36 00-0979 EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,124.59	387.83
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.15	
For 6" Overall Height Instead Of 4-5/8", Add	56.23	
26 05 36 00-0980 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0981 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	254.77	99.98
For 60 Degree Bend, Deduct	-45.76	
For 30 Degree Bend, Deduct	-81.82	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.15	
For 6" Overall Height Instead Of 4-5/8", Add	12.74	
26 05 36 00-0982 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	291.37	119.92
For 60 Degree Bend, Deduct	-50.20	
For 30 Degree Bend, Deduct	-90.33	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.15	
For 6" Overall Height Instead Of 4-5/8", Add	14.57	
26 05 36 00-0983 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	324.19	137.53
For 60 Degree Bend, Deduct	-54.26	
For 30 Degree Bend, Deduct	-98.08	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.96	
For 6" Overall Height Instead Of 4-5/8", Add	16.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0984 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	401.60	173.83
For 60 Degree Bend, Deduct	-65.91	
For 30 Degree Bend, Deduct	-119.50	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.68	
For 6" Overall Height Instead Of 4-5/8", Add	20.08	
26 05 36 00-0985 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	493.89	212.89
For 60 Degree Bend, Deduct	-81.38	
For 30 Degree Bend, Deduct	-147.46	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.65	
For 6" Overall Height Instead Of 4-5/8", Add	24.69	
26 05 36 00-0986 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	566.80	244.39
For 60 Degree Bend, Deduct	-93.35	
For 30 Degree Bend, Deduct	-169.16	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.31	
For 6" Overall Height Instead Of 4-5/8", Add	28.34	
26 05 36 00-0987 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	644.40	286.88
For 60 Degree Bend, Deduct	-102.67	
For 30 Degree Bend, Deduct	-187.06	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.53	
For 6" Overall Height Instead Of 4-5/8", Add	32.22	
26 05 36 00-0988 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0989 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	290.55	103.14
For 60 Degree Bend, Deduct	-56.36	
For 30 Degree Bend, Deduct	-99.67	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.46	
For 6" Overall Height Instead Of 4-5/8", Add	14.53	
26 05 36 00-0990 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	339.54	124.32
For 60 Degree Bend, Deduct	-64.38	
For 30 Degree Bend, Deduct	-114.21	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.59	
For 6" Overall Height Instead Of 4-5/8", Add	16.98	
26 05 36 00-0991 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	374.95	143.58
For 60 Degree Bend, Deduct	-68.70	
For 30 Degree Bend, Deduct	-122.48	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.53	
For 6" Overall Height Instead Of 4-5/8", Add	18.75	
26 05 36 00-0992 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	451.49	183.33
For 60 Degree Bend, Deduct	-78.70	
For 30 Degree Bend, Deduct	-141.35	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.87	
For 6" Overall Height Instead Of 4-5/8", Add	22.57	
26 05 36 00-0993 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	549.11	227.74
For 60 Degree Bend, Deduct	-93.92	
For 30 Degree Bend, Deduct	-169.19	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.94	
For 6" Overall Height Instead Of 4-5/8", Add	27.46	
26 05 36 00-0994 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	643.77	264.18
For 60 Degree Bend, Deduct	-111.19	
For 30 Degree Bend, Deduct	-199.99	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.37	
For 6" Overall Height Instead Of 4-5/8", Add	32.19	
26 05 36 00-0995 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	737.83	314.52
For 60 Degree Bend, Deduct	-122.94	
For 30 Degree Bend, Deduct	-222.37	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.58	
For 6" Overall Height Instead Of 4-5/8", Add	36.89	
26 05 36 00-0996 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0997 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	336.76	106.45
For 60 Degree Bend, Deduct	-70.35	
For 30 Degree Bend, Deduct	-123.16	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.81	
For 6" Overall Height Instead Of 4-5/8", Add	16.84	
26 05 36 00-0998 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	378.25	129.27
For 60 Degree Bend, Deduct	-75.28	
For 30 Degree Bend, Deduct	-132.64	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.05	
For 6" Overall Height Instead Of 4-5/8", Add	18.91	
26 05 36 00-0999 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	416.27	150.04
For 60 Degree Bend, Deduct	-79.86	
For 30 Degree Bend, Deduct	-141.43	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.12	
For 6" Overall Height Instead Of 4-5/8", Add	20.81	
26 05 36 00-1000 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	506.93	194.19
For 60 Degree Bend, Deduct	-92.83	
For 30 Degree Bend, Deduct	-165.50	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.51	
For 6" Overall Height Instead Of 4-5/8", Add	25.35	
26 05 36 00-1001 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	631.25	244.39
For 60 Degree Bend, Deduct	-114.62	
For 30 Degree Bend, Deduct	-204.61	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.76	
For 6" Overall Height Instead Of 4-5/8", Add	31.56	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1002	EA	30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	715.64	286.88
		For 60 Degree Bend, Deduct	-126.18	
		For 30 Degree Bend, Deduct	-226.24	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.66	
		For 6" Overall Height Instead Of 4-5/8", Add	35.78	
26 05 36 00-1003	EA	36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	840.03	347.26
		For 60 Degree Bend, Deduct	-144.08	
		For 30 Degree Bend, Deduct	-259.43	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.06	
		For 6" Overall Height Instead Of 4-5/8", Add	42.00	
26 05 36 00-1004 90 Degree, 12" Radius Vertical Risers (26 05 36 00-0955)				
26 05 36 00-1005	EA	6" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray	408.01	137.53
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.34	
		For 6" Overall Height Instead Of 4-5/8", Add	20.40	
26 05 36 00-1006	EA	9" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray	450.42	157.06
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.95	
		For 6" Overall Height Instead Of 4-5/8", Add	22.52	
26 05 36 00-1007	EA	12" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray	481.21	173.70
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.65	
		For 6" Overall Height Instead Of 4-5/8", Add	24.06	
26 05 36 00-1008	EA	18" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray	553.12	212.89
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.57	
		For 6" Overall Height Instead Of 4-5/8", Add	27.66	
26 05 36 00-1009	EA	24" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray	615.42	244.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.17	
		For 6" Overall Height Instead Of 4-5/8", Add	30.77	
26 05 36 00-1010	EA	30" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray	676.24	275.06
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.70	
		For 6" Overall Height Instead Of 4-5/8", Add	33.81	
26 05 36 00-1011	EA	36" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray	747.63	313.97
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.60	
		For 6" Overall Height Instead Of 4-5/8", Add	37.38	
26 05 36 00-1012 90 Degree, 24" Radius Vertical Risers (26 05 36 00-0955)				
26 05 36 00-1013	EA	6" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray	432.53	143.44
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.30	
		For 6" Overall Height Instead Of 4-5/8", Add	21.63	
26 05 36 00-1014	EA	9" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray	476.62	165.03
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.91	
		For 6" Overall Height Instead Of 4-5/8", Add	23.83	
26 05 36 00-1015	EA	12" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray	512.06	183.33
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.93	
		For 6" Overall Height Instead Of 4-5/8", Add	25.60	
26 05 36 00-1016	EA	18" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray	597.31	227.74
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.76	
		For 6" Overall Height Instead Of 4-5/8", Add	29.87	
26 05 36 00-1017	EA	24" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray	671.05	264.18
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.09	
		For 6" Overall Height Instead Of 4-5/8", Add	33.55	
26 05 36 00-1018	EA	30" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray	743.55	299.80
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.37	
		For 6" Overall Height Instead Of 4-5/8", Add	37.18	
26 05 36 00-1019	EA	36" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray	838.90	347.26
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.95	
		For 6" Overall Height Instead Of 4-5/8", Add	41.95	
26 05 36 00-1020 90 Degree, 36" Radius Vertical Risers (26 05 36 00-0955)				
26 05 36 00-1021	EA	6" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray	548.96	149.90
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.40	
		For 6" Overall Height Instead Of 4-5/8", Add	27.45	
26 05 36 00-1022	EA	9" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray	594.99	173.70
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.03	
		For 6" Overall Height Instead Of 4-5/8", Add	29.75	
26 05 36 00-1023	EA	12" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray	648.84	194.19
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.70	
		For 6" Overall Height Instead Of 4-5/8", Add	32.44	
26 05 36 00-1024	EA	18" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray	745.46	244.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.18	
		For 6" Overall Height Instead Of 4-5/8", Add	37.27	
26 05 36 00-1025	EA	24" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray	829.28	286.88
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.02	
		For 6" Overall Height Instead Of 4-5/8", Add	41.46	
26 05 36 00-1026	EA	30" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray	927.21	330.06
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-65.22	
		For 6" Overall Height Instead Of 4-5/8", Add	46.36	
26 05 36 00-1027	EA	36" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray	1,039.64	387.83
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-71.65	
		For 6" Overall Height Instead Of 4-5/8", Add	51.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1028			12" Radius Horizontal Tees (26 05 36 00-0955)		
26 05 36 00-1029	EA		6" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	647.16	264.18
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.70	
			For 6" Overall Height Instead Of 4-5/8", Add	32.36	
26 05 36 00-1030	EA		9" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	698.68	286.88
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.96	
			For 6" Overall Height Instead Of 4-5/8", Add	34.93	
26 05 36 00-1031	EA		12" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	723.62	299.80
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.38	
			For 6" Overall Height Instead Of 4-5/8", Add	36.18	
26 05 36 00-1032	EA		18" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	818.09	330.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.30	
			For 6" Overall Height Instead Of 4-5/8", Add	40.90	
26 05 36 00-1033	EA		24" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	905.82	366.37
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-60.05	
			For 6" Overall Height Instead Of 4-5/8", Add	45.29	
26 05 36 00-1034	EA		30" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	990.11	388.52
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.64	
			For 6" Overall Height Instead Of 4-5/8", Add	49.51	
26 05 36 00-1035	EA		36" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,143.56	439.81
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-77.70	
			For 6" Overall Height Instead Of 4-5/8", Add	57.18	
26 05 36 00-1036			24" Radius Horizontal Tees (26 05 36 00-0955)		
26 05 36 00-1037	EA		6" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	830.98	286.88
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.19	
			For 6" Overall Height Instead Of 4-5/8", Add	41.55	
26 05 36 00-1038	EA		9" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	897.26	314.52
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.52	
			For 6" Overall Height Instead Of 4-5/8", Add	44.86	
26 05 36 00-1039	EA		12" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	933.43	330.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-65.84	
			For 6" Overall Height Instead Of 4-5/8", Add	46.67	
26 05 36 00-1040	EA		18" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,027.94	366.37
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.26	
			For 6" Overall Height Instead Of 4-5/8", Add	51.40	
26 05 36 00-1041	EA		24" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,142.20	412.58
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-79.84	
			For 6" Overall Height Instead Of 4-5/8", Add	57.11	
26 05 36 00-1042	EA		30" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,231.76	439.81
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.52	
			For 6" Overall Height Instead Of 4-5/8", Add	61.59	
26 05 36 00-1043	EA		36" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,610.11	508.16
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-118.67	
			For 6" Overall Height Instead Of 4-5/8", Add	80.51	
26 05 36 00-1044			36" Radius Horizontal Tees (26 05 36 00-0955)		
26 05 36 00-1045	EA		6" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,022.78	314.52
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.07	
			For 6" Overall Height Instead Of 4-5/8", Add	51.14	
26 05 36 00-1046	EA		9" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,091.06	347.26
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.17	
			For 6" Overall Height Instead Of 4-5/8", Add	54.55	
26 05 36 00-1047	EA		12" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,170.42	366.37
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.51	
			For 6" Overall Height Instead Of 4-5/8", Add	58.52	
26 05 36 00-1048	EA		18" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,277.89	412.58
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-93.41	
			For 6" Overall Height Instead Of 4-5/8", Add	63.89	
26 05 36 00-1049	EA		24" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,436.29	471.03
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-104.38	
			For 6" Overall Height Instead Of 4-5/8", Add	71.81	
26 05 36 00-1050	EA		30" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,671.17	508.16
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-124.78	
			For 6" Overall Height Instead Of 4-5/8", Add	83.56	
26 05 36 00-1051	EA		36" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,915.40	599.62
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-141.57	
			For 6" Overall Height Instead Of 4-5/8", Add	95.77	
26 05 36 00-1052			12" Radius Vertical Tees (26 05 36 00-0955)		
26 05 36 00-1053	EA		6" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	872.11	244.39
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.84	
			For 6" Overall Height Instead Of 4-5/8", Add	43.61	
26 05 36 00-1054	EA		9" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	901.73	254.01
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-69.00	
			For 6" Overall Height Instead Of 4-5/8", Add	45.09	
26 05 36 00-1055	EA		12" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	921.94	264.18
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-70.18	
			For 6" Overall Height Instead Of 4-5/8", Add	46.10	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1056	EA	18" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	970.07 -73.10 48.50	286.88
26 05 36 00-1057	EA	24" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,032.32 -78.25 51.62	299.80
26 05 36 00-1058	EA	30" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,092.87 -81.78 54.64	330.06
26 05 36 00-1059	EA	36" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,170.42 -86.51 58.52	366.37
26 05 36 00-1060 24" Radius Vertical Tees (26 05 36 00-0955)				
26 05 36 00-1061	EA	6" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,227.25 -100.71 61.36	264.18
26 05 36 00-1062	EA	9" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,255.61 -102.64 62.78	275.06
26 05 36 00-1063	EA	12" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,285.55 -104.65 64.28	286.88
26 05 36 00-1064	EA	18" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,355.23 -109.32 67.76	314.52
26 05 36 00-1065	EA	24" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,401.57 -112.65 70.08	330.06
26 05 36 00-1066	EA	30" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,482.52 -117.72 74.13	366.37
26 05 36 00-1067	EA	36" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,637.48 -129.37 81.87	412.58
26 05 36 00-1068 36" Radius Vertical Tees (26 05 36 00-0955)				
26 05 36 00-1069	EA	6" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,975.38 -173.63 98.77	286.88
26 05 36 00-1070	EA	9" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,016.37 -176.65 100.82	299.80
26 05 36 00-1071	EA	12" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,060.18 -179.81 103.01	314.52
26 05 36 00-1072	EA	18" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,134.37 -184.50 106.72	347.26
26 05 36 00-1073	EA	24" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,185.67 -188.03 109.28	366.37
26 05 36 00-1074	EA	30" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,320.93 -197.71 116.05	412.58
26 05 36 00-1075	EA	36" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,437.71 -204.52 121.89	471.03
26 05 36 00-1076 12" Radius Horizontal Crosses (26 05 36 00-0955)				
26 05 36 00-1077	EA	6" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	838.45 -56.34 41.92	330.06
26 05 36 00-1078	EA	9" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	897.70 -60.83 44.89	347.26
26 05 36 00-1079	EA	12" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	932.96 -62.76 46.65	366.37
26 05 36 00-1080	EA	18" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,037.61 -71.39 51.88	388.52
26 05 36 00-1081	EA	24" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,136.78 -77.02 56.84	439.81
26 05 36 00-1082	EA	30" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,259.89 -86.74 62.99	471.03
26 05 36 00-1083	EA	36" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,440.50 -101.71 72.03	508.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1084 24" Radius Horizontal Crosses (26 05 36 00-0955)		
26 05 36 00-1085 EA 6" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,163.64	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-85.83	
For 6" Overall Height Instead Of 4-5/8", Add	58.18	
26 05 36 00-1086 EA 9" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,217.40	388.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-89.37	
For 6" Overall Height Instead Of 4-5/8", Add	60.87	
26 05 36 00-1087 EA 12" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,274.50	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-93.07	
For 6" Overall Height Instead Of 4-5/8", Add	63.73	
26 05 36 00-1088 EA 18" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,350.49	439.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-98.39	
For 6" Overall Height Instead Of 4-5/8", Add	67.52	
26 05 36 00-1089 EA 24" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,518.52	508.16
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-109.51	
For 6" Overall Height Instead Of 4-5/8", Add	75.93	
26 05 36 00-1090 EA 30" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,636.02	550.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-117.76	
For 6" Overall Height Instead Of 4-5/8", Add	81.80	
26 05 36 00-1091 EA 36" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,810.23	599.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-131.05	
For 6" Overall Height Instead Of 4-5/8", Add	90.51	
26 05 36 00-1092 36" Radius Horizontal Crosses (26 05 36 00-0955)		
26 05 36 00-1093 EA 6" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,338.95	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-99.51	
For 6" Overall Height Instead Of 4-5/8", Add	66.95	
26 05 36 00-1094 EA 9" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,411.55	439.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-104.50	
For 6" Overall Height Instead Of 4-5/8", Add	70.58	
26 05 36 00-1095 EA 12" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,504.14	471.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-111.17	
For 6" Overall Height Instead Of 4-5/8", Add	75.21	
26 05 36 00-1096 EA 18" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,613.50	508.16
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-119.01	
For 6" Overall Height Instead Of 4-5/8", Add	80.68	
26 05 36 00-1097 EA 24" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,949.32	599.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-144.96	
For 6" Overall Height Instead Of 4-5/8", Add	97.47	
26 05 36 00-1098 EA 30" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,150.07	659.02
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-160.08	
For 6" Overall Height Instead Of 4-5/8", Add	107.50	
26 05 36 00-1099 EA 36" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,393.89	734.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-178.21	
For 6" Overall Height Instead Of 4-5/8", Add	119.69	
26 05 36 00-1100 12" Radius Vertical Crosses (26 05 36 00-0955)		
26 05 36 00-1101 EA 6" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	838.45	330.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.34	
For 6" Overall Height Instead Of 4-5/8", Add	41.92	
26 05 36 00-1102 EA 9" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	897.89	347.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-60.84	
For 6" Overall Height Instead Of 4-5/8", Add	44.89	
26 05 36 00-1103 EA 12" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	932.85	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.76	
For 6" Overall Height Instead Of 4-5/8", Add	46.64	
26 05 36 00-1104 EA 18" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,037.85	388.65
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-71.40	
For 6" Overall Height Instead Of 4-5/8", Add	51.89	
26 05 36 00-1105 EA 24" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,136.78	439.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-77.02	
For 6" Overall Height Instead Of 4-5/8", Add	56.84	
26 05 36 00-1106 EA 30" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,260.25	471.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.76	
For 6" Overall Height Instead Of 4-5/8", Add	63.01	
26 05 36 00-1107 EA 36" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,439.46	507.47
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-101.66	
For 6" Overall Height Instead Of 4-5/8", Add	71.97	
26 05 36 00-1108 24" Radius Vertical Crosses (26 05 36 00-0955)		
26 05 36 00-1109 EA 6" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,163.64	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-85.83	
For 6" Overall Height Instead Of 4-5/8", Add	58.18	
26 05 36 00-1110 EA 9" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,217.40	388.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-89.37	
For 6" Overall Height Instead Of 4-5/8", Add	60.87	
26 05 36 00-1111 EA 12" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,274.50	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-93.07	
For 6" Overall Height Instead Of 4-5/8", Add	63.73	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1112	EA	18" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,350.49 -98.39 67.52	439.81
26 05 36 00-1113	EA	24" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,518.52 -109.51 75.93	508.16
26 05 36 00-1114	EA	30" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,636.02 -117.76 81.80	550.10
26 05 36 00-1115	EA	36" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,810.23 -131.05 90.51	599.62
26 05 36 00-1116 36" Radius Vertical Crosses (26 05 36 00-0955)				
26 05 36 00-1117	EA	6" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,632.05 -128.82 81.60	412.58
26 05 36 00-1118	EA	9" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,716.86 -135.03 85.84	439.81
26 05 36 00-1119	EA	12" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,827.77 -143.53 91.39	471.03
26 05 36 00-1120	EA	18" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,958.50 -153.51 97.93	508.16
26 05 36 00-1121	EA	24" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,376.75 -187.70 118.84	599.62
26 05 36 00-1122	EA	30" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,623.30 -207.41 131.17	659.02
26 05 36 00-1123	EA	36" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,920.55 -230.88 146.03	734.12
26 05 36 00-1124 9" Rung Tray Fittings (26 05 36 00-0744)				
26 05 36 00-1125 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1124)				
26 05 36 00-1126	EA	6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	341.49 -22.66 17.07	137.94
26 05 36 00-1127	EA	9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	376.35 -24.54 18.82	157.06
26 05 36 00-1128	EA	12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	425.09 -28.04 21.25	173.70
26 05 36 00-1129	EA	18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	507.46 -33.01 25.37	212.89
26 05 36 00-1130	EA	24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	596.76 -39.31 29.84	244.39
26 05 36 00-1131	EA	30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	659.13 -42.99 32.96	275.06
26 05 36 00-1132	EA	36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	767.07 -50.51 38.35	314.38
26 05 36 00-1133 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1124)				
26 05 36 00-1134	EA	6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	436.99 -31.74 21.85	143.44
26 05 36 00-1135	EA	9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	481.21 -34.38 24.06	164.89
26 05 36 00-1136	EA	12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	521.88 -36.91 26.09	183.33
26 05 36 00-1137	EA	18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	614.13 -42.44 30.71	227.74
26 05 36 00-1138	EA	24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	697.48 -47.74 34.87	264.18
26 05 36 00-1139	EA	30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	781.01 -53.11 39.05	299.80



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1140	EA		36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	895.44 -60.60 44.77	347.26
26 05 36 00-1141			90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1142	EA		6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	467.54 -34.26 23.38	149.90
26 05 36 00-1143	EA		9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	512.49 -36.79 25.62	173.56
26 05 36 00-1144	EA		12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	572.51 -41.06 28.63	194.19
26 05 36 00-1145	EA		18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	687.23 -48.36 34.36	244.39
26 05 36 00-1146	EA		24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	794.80 -55.57 39.74	286.88
26 05 36 00-1147	EA		30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	897.81 -62.28 44.89	330.06
26 05 36 00-1148	EA		36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,044.87 -72.17 52.24	387.83
26 05 36 00-1149			45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1150	EA		6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	240.07 -40.91 -73.74 -15.68 12.00	99.98
26 05 36 00-1151	EA		9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	276.11 -45.17 -81.94 -17.62 13.81	119.92
26 05 36 00-1152	EA		12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	308.36 -49.04 -89.37 -19.38 15.42	137.53
26 05 36 00-1153	EA		18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	382.94 -59.75 -109.24 -23.81 19.15	173.83
26 05 36 00-1154	EA		24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	470.71 -73.73 -134.71 -29.33 23.54	212.89
26 05 36 00-1155	EA		30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	540.23 -84.58 -154.55 -33.66 27.01	244.39
26 05 36 00-1156	EA		36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	616.70 -93.53 -171.82 -37.76 30.84	286.88
26 05 36 00-1157			45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1158	EA		6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	270.76 -49.83 -88.78 -18.49 13.54	103.14
26 05 36 00-1159	EA		9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	317.49 -57.11 -102.09 -21.39 15.87	124.32
26 05 36 00-1160	EA		12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	352.34 -61.24 -110.05 -23.27 17.62	143.58

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1161	EA	18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	427.18	183.33
		For 60 Degree Bend, Deduct	-70.68	
		For 30 Degree Bend, Deduct	-127.98	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.44	
		For 6" Overall Height Instead Of 4-5/8", Add	21.36	
26 05 36 00-1162	EA	24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	520.84	227.74
		For 60 Degree Bend, Deduct	-84.59	
		For 30 Degree Bend, Deduct	-153.64	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.11	
		For 6" Overall Height Instead Of 4-5/8", Add	26.04	
26 05 36 00-1163	EA	30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	509.85	264.18
		For 60 Degree Bend, Deduct	-100.00	
		For 30 Degree Bend, Deduct	-181.34	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.97	
		For 6" Overall Height Instead Of 4-5/8", Add	30.49	
26 05 36 00-1164	EA	36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	702.21	314.52
		For 60 Degree Bend, Deduct	-111.18	
		For 30 Degree Bend, Deduct	-202.78	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.02	
		For 6" Overall Height Instead Of 4-5/8", Add	35.11	
26 05 36 00-1165 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1124)				
26 05 36 00-1166	EA	6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	310.19	106.45
		For 60 Degree Bend, Deduct	-61.58	
		For 30 Degree Bend, Deduct	-108.54	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.15	
		For 6" Overall Height Instead Of 4-5/8", Add	15.51	
26 05 36 00-1167	EA	9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	351.11	129.27
		For 60 Degree Bend, Deduct	-66.32	
		For 30 Degree Bend, Deduct	-117.71	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.34	
		For 6" Overall Height Instead Of 4-5/8", Add	17.56	
26 05 36 00-1168	EA	12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	388.57	150.04
		For 60 Degree Bend, Deduct	-70.72	
		For 30 Degree Bend, Deduct	-126.20	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.35	
		For 6" Overall Height Instead Of 4-5/8", Add	19.43	
26 05 36 00-1169	EA	18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	476.39	194.19
		For 60 Degree Bend, Deduct	-82.75	
		For 30 Degree Bend, Deduct	-148.71	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.45	
		For 6" Overall Height Instead Of 4-5/8", Add	23.82	
26 05 36 00-1170	EA	24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	593.94	244.39
		For 60 Degree Bend, Deduct	-102.31	
		For 30 Degree Bend, Deduct	-184.09	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.03	
		For 6" Overall Height Instead Of 4-5/8", Add	29.70	
26 05 36 00-1171	EA	30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	676.07	286.88
		For 60 Degree Bend, Deduct	-113.12	
		For 30 Degree Bend, Deduct	-204.48	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.70	
		For 6" Overall Height Instead Of 4-5/8", Add	33.80	
26 05 36 00-1172	EA	36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	796.49	347.26
		For 60 Degree Bend, Deduct	-129.71	
		For 30 Degree Bend, Deduct	-235.48	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.71	
		For 6" Overall Height Instead Of 4-5/8", Add	39.82	
26 05 36 00-1173 90 Degree, 12" Radius Vertical Risers (26 05 36 00-1124)				
26 05 36 00-1174	EA	6" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	384.69	137.53
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.01	
		For 6" Overall Height Instead Of 4-5/8", Add	19.23	
26 05 36 00-1175	EA	9" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	425.82	157.06
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.49	
		For 6" Overall Height Instead Of 4-5/8", Add	21.29	
26 05 36 00-1176	EA	12" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	456.19	173.70
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.15	
		For 6" Overall Height Instead Of 4-5/8", Add	22.81	
26 05 36 00-1177	EA	18" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	527.25	212.89
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.98	
		For 6" Overall Height Instead Of 4-5/8", Add	26.36	
26 05 36 00-1178	EA	24" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	588.28	244.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.46	
		For 6" Overall Height Instead Of 4-5/8", Add	29.41	
26 05 36 00-1179	EA	30" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	647.82	275.06
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.86	
		For 6" Overall Height Instead Of 4-5/8", Add	32.39	
26 05 36 00-1180	EA	36" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	718.37	313.97
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.67	
		For 6" Overall Height Instead Of 4-5/8", Add	35.92	
26 05 36 00-1181 90 Degree, 24" Radius Vertical Risers (26 05 36 00-1124)				



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1182	EA		6" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	407.30 -28.78 20.37	143.44
26 05 36 00-1183	EA		9" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	450.33 -31.28 22.52	165.03
26 05 36 00-1184	EA		12" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	485.13 -33.23 24.26	183.33
26 05 36 00-1185	EA		18" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	568.89 -37.91 28.44	227.74
26 05 36 00-1186	EA		24" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	640.94 -42.08 32.05	264.18
26 05 36 00-1187	EA		30" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	711.75 -46.19 35.59	299.80
26 05 36 00-1188	EA		36" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	804.97 -51.56 40.25	347.26
26 05 36 00-1189 90 Degree, 36" Radius Vertical Risers (26 05 36 00-1124)					
26 05 36 00-1190	EA		6" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	509.95 -38.50 25.50	149.90
26 05 36 00-1191	EA		9" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	555.13 -41.04 27.76	173.70
26 05 36 00-1192	EA		12" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	606.43 -44.46 30.32	194.19
26 05 36 00-1193	EA		18" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	701.36 -49.77 35.07	244.39
26 05 36 00-1194	EA		24" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	783.49 -54.44 39.17	286.88
26 05 36 00-1195	EA		30" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	878.02 -60.30 43.90	330.06
26 05 36 00-1196	EA		36" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	988.33 -66.52 49.42	387.83
26 05 36 00-1197 12" Radius Horizontal Tees (26 05 36 00-1124)					
26 05 36 00-1198	EA		6" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	612.67 -39.26 30.63	264.18
26 05 36 00-1199	EA		9" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	661.93 -42.28 33.10	286.88
26 05 36 00-1200	EA		12" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	686.31 -43.64 34.32	299.80
26 05 36 00-1201	EA		18" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	773.43 -49.84 38.67	330.06
26 05 36 00-1202	EA		24" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	856.63 -55.13 42.83	366.37
26 05 36 00-1203	EA		30" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	933.01 -60.93 46.65	388.52
26 05 36 00-1204	EA		36" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,075.15 -70.86 53.76	439.81
26 05 36 00-1205 24" Radius Horizontal Tees (26 05 36 00-1124)					
26 05 36 00-1206	EA		6" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	772.18 -53.31 38.61	286.88
26 05 36 00-1207	EA		9" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	835.07 -57.30 41.75	314.52
26 05 36 00-1208	EA		12" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	869.54 -59.45 43.48	330.06
26 05 36 00-1209	EA		18" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	958.40 -65.31 47.92	366.37

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1210 EA 24" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,066.44 -72.26 53.32	412.58
26 05 36 00-1211 EA 30" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,148.65 -78.21 57.43	439.81
26 05 36 00-1212 EA 36" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,482.90 -105.95 74.15	508.16
26 05 36 00-1213 36" Radius Horizontal Tees (26 05 36 00-1124)		
26 05 36 00-1214 EA 6" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	939.67 -67.76 46.98	314.52
26 05 36 00-1215 EA 9" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,005.69 -71.63 50.28	347.26
26 05 36 00-1216 EA 12" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,077.13 -77.18 53.86	366.37
26 05 36 00-1217 EA 18" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,179.52 -83.57 58.98	412.58
26 05 36 00-1218 EA 24" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,327.74 -93.53 66.39	471.03
26 05 36 00-1219 EA 30" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,533.78 -111.04 76.69	508.16
26 05 36 00-1220 EA 36" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,762.74 -126.30 88.14	599.62
26 05 36 00-1221 12" Radius Vertical Tees (26 05 36 00-1124)		
26 05 36 00-1222 EA 6" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	794.65 -59.10 39.73	244.39
26 05 36 00-1223 EA 9" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	822.01 -61.03 41.10	254.01
26 05 36 00-1224 EA 12" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	841.65 -62.15 42.08	264.18
26 05 36 00-1225 EA 18" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	888.08 -64.90 44.40	286.88
26 05 36 00-1226 EA 24" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	943.56 -69.37 47.18	299.80
26 05 36 00-1227 EA 30" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,002.41 -72.74 50.12	330.06
26 05 36 00-1228 EA 36" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,077.13 -77.18 53.86	366.37
26 05 36 00-1229 24" Radius Vertical Tees (26 05 36 00-1124)		
26 05 36 00-1230 EA 6" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,096.08 -87.60 54.80	264.18
26 05 36 00-1231 EA 9" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,122.75 -89.35 56.14	275.06
26 05 36 00-1232 EA 12" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,150.99 -91.19 57.55	286.88
26 05 36 00-1233 EA 18" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,216.71 -95.47 60.84	314.52
26 05 36 00-1234 EA 24" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,259.66 -98.46 62.98	330.06
26 05 36 00-1235 EA 30" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,337.21 -103.19 66.86	366.37
26 05 36 00-1236 EA 36" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,479.17 -113.54 73.96	412.58
26 05 36 00-1237 36" Radius Vertical Tees (26 05 36 00-1124)		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1238	EA	6" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,725.85 -148.68 86.29	286.88
26 05 36 00-1239	EA	9" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,763.59 -151.37 88.18	299.80
26 05 36 00-1240	EA	12" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,804.17 -154.21 90.21	314.52
26 05 36 00-1241	EA	18" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,875.11 -158.57 93.76	347.26
26 05 36 00-1242	EA	24" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,923.18 -161.78 96.16	366.37
26 05 36 00-1243	EA	30" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,048.71 -170.49 102.44	412.58
26 05 36 00-1244	EA	36" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,162.25 -176.98 108.11	471.03
26 05 36 00-1245 12" Radius Horizontal Crosses (26 05 36 00-1124)				
26 05 36 00-1246	EA	6" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	790.39 -51.53 39.52	330.06
26 05 36 00-1247	EA	9" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	844.55 -55.51 42.23	347.26
26 05 36 00-1248	EA	12" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	879.25 -57.39 43.96	366.37
26 05 36 00-1249	EA	18" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	972.59 -64.88 48.63	388.52
26 05 36 00-1250	EA	24" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,069.49 -70.29 53.47	439.81
26 05 36 00-1251	EA	30" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,180.74 -78.83 59.04	471.03
26 05 36 00-1252	EA	36" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,341.55 -91.81 67.08	508.16
26 05 36 00-1253 24" Radius Horizontal Crosses (26 05 36 00-1124)				
26 05 36 00-1254	EA	6" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,071.48 -76.61 53.57	366.37
26 05 36 00-1255	EA	9" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,122.41 -79.87 56.12	388.52
26 05 36 00-1256	EA	12" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,176.69 -83.29 58.83	412.58
26 05 36 00-1257	EA	18" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,247.59 -88.10 62.38	439.81
26 05 36 00-1258	EA	24" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,406.57 -98.32 70.33	508.16
26 05 36 00-1259	EA	30" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,516.16 -105.77 75.81	550.10
26 05 36 00-1260	EA	36" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,675.11 -117.54 83.76	599.62
26 05 36 00-1261 36" Radius Horizontal Crosses (26 05 36 00-1124)				
26 05 36 00-1262	EA	6" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,230.40 -88.66 61.52	412.58
26 05 36 00-1263	EA	9" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,298.48 -93.19 64.92	439.81
26 05 36 00-1264	EA	12" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,384.28 -99.18 69.21	471.03
26 05 36 00-1265	EA	18" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,485.73 -106.23 74.29	508.16

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1266 EA 24" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,791.01	599.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-129.13	
For 6" Overall Height Instead Of 4-5/8", Add	89.55	
26 05 36 00-1267 EA 30" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,974.80	659.02
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-142.56	
For 6" Overall Height Instead Of 4-5/8", Add	98.74	
26 05 36 00-1268 EA 36" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,198.83	734.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-158.71	
For 6" Overall Height Instead Of 4-5/8", Add	109.94	
26 05 36 00-1269 12" Radius Vertical Crosses (26 05 36 00-1124)		
26 05 36 00-1270 EA 6" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	790.39	330.06
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.53	
For 6" Overall Height Instead Of 4-5/8", Add	39.52	
26 05 36 00-1271 EA 9" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	844.55	347.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.51	
For 6" Overall Height Instead Of 4-5/8", Add	42.23	
26 05 36 00-1272 EA 12" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	879.25	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.39	
For 6" Overall Height Instead Of 4-5/8", Add	43.96	
26 05 36 00-1273 EA 18" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	972.59	388.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.88	
For 6" Overall Height Instead Of 4-5/8", Add	48.63	
26 05 36 00-1274 EA 24" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,069.49	439.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-70.29	
For 6" Overall Height Instead Of 4-5/8", Add	53.47	
26 05 36 00-1275 EA 30" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,180.74	471.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-78.83	
For 6" Overall Height Instead Of 4-5/8", Add	59.04	
26 05 36 00-1276 EA 36" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,339.47	506.79
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-91.71	
For 6" Overall Height Instead Of 4-5/8", Add	66.97	
26 05 36 00-1277 24" Radius Vertical Crosses (26 05 36 00-1124)		
26 05 36 00-1278 EA 6" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,071.48	366.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.61	
For 6" Overall Height Instead Of 4-5/8", Add	53.57	
26 05 36 00-1279 EA 9" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,122.41	388.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-79.87	
For 6" Overall Height Instead Of 4-5/8", Add	56.12	
26 05 36 00-1280 EA 12" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,176.69	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-83.29	
For 6" Overall Height Instead Of 4-5/8", Add	58.83	
26 05 36 00-1281 EA 18" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,247.59	439.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-88.10	
For 6" Overall Height Instead Of 4-5/8", Add	62.38	
26 05 36 00-1282 EA 24" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,406.57	508.16
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-98.32	
For 6" Overall Height Instead Of 4-5/8", Add	70.33	
26 05 36 00-1283 EA 30" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,516.16	550.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-105.77	
For 6" Overall Height Instead Of 4-5/8", Add	75.81	
26 05 36 00-1284 EA 36" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,675.11	599.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-117.54	
For 6" Overall Height Instead Of 4-5/8", Add	83.76	
26 05 36 00-1285 36" Radius Vertical Crosses (26 05 36 00-1124)		
26 05 36 00-1286 EA 6" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,474.65	412.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-113.08	
For 6" Overall Height Instead Of 4-5/8", Add	73.73	
26 05 36 00-1287 EA 9" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,552.90	439.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-118.64	
For 6" Overall Height Instead Of 4-5/8", Add	77.65	
26 05 36 00-1288 EA 12" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,653.97	471.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-126.15	
For 6" Overall Height Instead Of 4-5/8", Add	82.70	
26 05 36 00-1289 EA 18" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,773.22	508.16
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-134.98	
For 6" Overall Height Instead Of 4-5/8", Add	88.66	
26 05 36 00-1290 EA 24" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,147.20	599.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-164.75	
For 6" Overall Height Instead Of 4-5/8", Add	107.36	
26 05 36 00-1291 EA 30" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,369.15	659.02
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-181.99	
For 6" Overall Height Instead Of 4-5/8", Add	118.46	
26 05 36 00-1292 EA 36" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,637.71	734.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-202.59	
For 6" Overall Height Instead Of 4-5/8", Add	131.89	
26 05 36 00-1293 12" Rung Tray Fittings (26 05 36 00-0744)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1294			90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1295	EA		6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	333.68	137.94
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.88	
			For 6" Overall Height Instead Of 4-5/8", Add	16.68	
26 05 36 00-1296	EA		9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	368.34	157.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.74	
			For 6" Overall Height Instead Of 4-5/8", Add	18.42	
26 05 36 00-1297	EA		12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	415.59	173.70
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.09	
			For 6" Overall Height Instead Of 4-5/8", Add	20.78	
26 05 36 00-1298	EA		18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	496.78	212.89
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.94	
			For 6" Overall Height Instead Of 4-5/8", Add	24.84	
26 05 36 00-1299	EA		24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	583.51	244.39
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.98	
			For 6" Overall Height Instead Of 4-5/8", Add	29.18	
26 05 36 00-1300	EA		30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	645.08	275.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.59	
			For 6" Overall Height Instead Of 4-5/8", Add	32.25	
26 05 36 00-1301	EA		36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	750.05	314.38
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.81	
			For 6" Overall Height Instead Of 4-5/8", Add	37.50	
26 05 36 00-1302			90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1303	EA		6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	423.13	143.44
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.36	
			For 6" Overall Height Instead Of 4-5/8", Add	21.16	
26 05 36 00-1304	EA		9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	466.76	164.89
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.93	
			For 6" Overall Height Instead Of 4-5/8", Add	23.34	
26 05 36 00-1305	EA		12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	506.74	183.33
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.39	
			For 6" Overall Height Instead Of 4-5/8", Add	25.34	
26 05 36 00-1306	EA		18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	597.70	227.74
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.80	
			For 6" Overall Height Instead Of 4-5/8", Add	29.89	
26 05 36 00-1307	EA		24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	679.47	264.18
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.94	
			For 6" Overall Height Instead Of 4-5/8", Add	33.97	
26 05 36 00-1308	EA		30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	761.32	299.80
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.15	
			For 6" Overall Height Instead Of 4-5/8", Add	38.07	
26 05 36 00-1309	EA		36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	873.27	347.26
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-58.39	
			For 6" Overall Height Instead Of 4-5/8", Add	43.66	
26 05 36 00-1310			90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1311	EA		6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	452.31	149.90
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.74	
			For 6" Overall Height Instead Of 4-5/8", Add	22.62	
26 05 36 00-1312	EA		9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	496.85	173.56
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.23	
			For 6" Overall Height Instead Of 4-5/8", Add	24.84	
26 05 36 00-1313	EA		12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	555.10	194.19
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.32	
			For 6" Overall Height Instead Of 4-5/8", Add	27.76	
26 05 36 00-1314	EA		18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	667.64	244.39
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.40	
			For 6" Overall Height Instead Of 4-5/8", Add	33.38	
26 05 36 00-1315	EA		24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	772.63	286.88
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.35	
			For 6" Overall Height Instead Of 4-5/8", Add	38.63	
26 05 36 00-1316	EA		30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	873.47	330.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.84	
			For 6" Overall Height Instead Of 4-5/8", Add	43.67	
26 05 36 00-1317	EA		36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,016.97	387.83
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-69.38	
			For 6" Overall Height Instead Of 4-5/8", Add	50.85	
26 05 36 00-1318			45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1319	EA		6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	234.93	99.98
			For 60 Degree Bend, Deduct	-39.22	
			For 30 Degree Bend, Deduct	-70.91	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.16	
			For 6" Overall Height Instead Of 4-5/8", Add	11.75	
26 05 36 00-1320	EA		9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	270.76	119.92
			For 60 Degree Bend, Deduct	-43.40	
			For 30 Degree Bend, Deduct	-79.00	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.09	
			For 6" Overall Height Instead Of 4-5/8", Add	13.54	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1321	EA	12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	302.82	137.53	
		For 60 Degree Bend, Deduct	-47.21		
		For 30 Degree Bend, Deduct	-86.33		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.82		
		For 6" Overall Height Instead Of 4-5/8", Add	15.14		
26 05 36 00-1322	EA	18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	376.41	173.83	
		For 60 Degree Bend, Deduct	-57.60		
		For 30 Degree Bend, Deduct	-105.65		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.16		
		For 6" Overall Height Instead Of 4-5/8", Add	18.82		
26 05 36 00-1323	EA	24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	462.60	212.89	
		For 60 Degree Bend, Deduct	-71.05		
		For 30 Degree Bend, Deduct	-130.25		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.52		
		For 6" Overall Height Instead Of 4-5/8", Add	23.13		
26 05 36 00-1324	EA	30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	530.93	244.39	
		For 60 Degree Bend, Deduct	-81.51		
		For 30 Degree Bend, Deduct	-149.44		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.73		
		For 6" Overall Height Instead Of 4-5/8", Add	26.55		
26 05 36 00-1325	EA	36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	607.00	286.88	
		For 60 Degree Bend, Deduct	-90.33		
		For 30 Degree Bend, Deduct	-166.49		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.79		
		For 6" Overall Height Instead Of 4-5/8", Add	30.35		
26 05 36 00-1326 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1293)					
26 05 36 00-1327	EA	6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	263.84	103.14	
		For 60 Degree Bend, Deduct	-47.55		
		For 30 Degree Bend, Deduct	-84.98		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.79		
		For 6" Overall Height Instead Of 4-5/8", Add	13.19		
26 05 36 00-1328	EA	9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	309.77	124.32	
		For 60 Degree Bend, Deduct	-54.56		
		For 30 Degree Bend, Deduct	-97.84		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.62		
		For 6" Overall Height Instead Of 4-5/8", Add	15.49		
26 05 36 00-1329	EA	12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	344.42	143.58	
		For 60 Degree Bend, Deduct	-58.63		
		For 30 Degree Bend, Deduct	-105.69		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.48		
		For 6" Overall Height Instead Of 4-5/8", Add	17.22		
26 05 36 00-1330	EA	18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	418.67	183.33	
		For 60 Degree Bend, Deduct	-67.87		
		For 30 Degree Bend, Deduct	-123.30		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.59		
		For 6" Overall Height Instead Of 4-5/8", Add	20.93		
26 05 36 00-1331	EA	24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	510.94	227.74	
		For 60 Degree Bend, Deduct	-81.33		
		For 30 Degree Bend, Deduct	-148.20		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.12		
		For 6" Overall Height Instead Of 4-5/8", Add	25.55		
26 05 36 00-1332	EA	30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	597.97	264.18	
		For 60 Degree Bend, Deduct	-96.08		
		For 30 Degree Bend, Deduct	-174.80		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.79		
		For 6" Overall Height Instead Of 4-5/8", Add	29.90		
26 05 36 00-1333	EA	36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	689.74	314.52	
		For 60 Degree Bend, Deduct	-107.07		
		For 30 Degree Bend, Deduct	-195.92		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.77		
		For 6" Overall Height Instead Of 4-5/8", Add	34.49		
26 05 36 00-1334 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1293)					
26 05 36 00-1335	EA	6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	300.89	106.45	
		For 60 Degree Bend, Deduct	-58.51		
		For 30 Degree Bend, Deduct	-103.43		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.22		
		For 6" Overall Height Instead Of 4-5/8", Add	15.04		
26 05 36 00-1336	EA	9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	341.61	129.27	
		For 60 Degree Bend, Deduct	-63.18		
		For 30 Degree Bend, Deduct	-112.49		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.39		
		For 6" Overall Height Instead Of 4-5/8", Add	17.08		
26 05 36 00-1337	EA	12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	378.87	150.04	
		For 60 Degree Bend, Deduct	-67.52		
		For 30 Degree Bend, Deduct	-120.86		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.38		
		For 6" Overall Height Instead Of 4-5/8", Add	18.94		
26 05 36 00-1338	EA	18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	465.71	194.19	
		For 60 Degree Bend, Deduct	-79.22		
		For 30 Degree Bend, Deduct	-142.83		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.38		
		For 6" Overall Height Instead Of 4-5/8", Add	23.29		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1339	EA		24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	580.88	244.39
			For 60 Degree Bend, Deduct	-98.00	
			For 30 Degree Bend, Deduct	-176.91	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.72	
			For 6" Overall Height Instead Of 4-5/8", Add	29.04	
26 05 36 00-1340	EA		30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	662.21	286.88
			For 60 Degree Bend, Deduct	-108.55	
			For 30 Degree Bend, Deduct	-196.85	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.31	
			For 6" Overall Height Instead Of 4-5/8", Add	33.11	
26 05 36 00-1341	EA		36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	781.26	347.26
			For 60 Degree Bend, Deduct	-124.69	
			For 30 Degree Bend, Deduct	-227.11	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.19	
			For 6" Overall Height Instead Of 4-5/8", Add	39.06	
26 05 36 00-1342			90 Degree, 12" Radius Vertical Risers (26 05 36 00-1293)		
26 05 36 00-1343	EA		6" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray	369.14	137.53
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.45	
			For 6" Overall Height Instead Of 4-5/8", Add	18.46	
26 05 36 00-1344	EA		9" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray	409.43	157.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.85	
			For 6" Overall Height Instead Of 4-5/8", Add	20.47	
26 05 36 00-1345	EA		12" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray	439.51	173.70
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.48	
			For 6" Overall Height Instead Of 4-5/8", Add	21.98	
26 05 36 00-1346	EA		18" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray	510.01	212.89
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.26	
			For 6" Overall Height Instead Of 4-5/8", Add	25.50	
26 05 36 00-1347	EA		24" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray	570.19	244.39
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.65	
			For 6" Overall Height Instead Of 4-5/8", Add	28.51	
26 05 36 00-1348	EA		30" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray	628.88	275.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.97	
			For 6" Overall Height Instead Of 4-5/8", Add	31.44	
26 05 36 00-1349	EA		36" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray	698.86	313.97
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.72	
			For 6" Overall Height Instead Of 4-5/8", Add	34.94	
26 05 36 00-1350			90 Degree, 24" Radius Vertical Risers (26 05 36 00-1293)		
26 05 36 00-1351	EA		6" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray	390.48	143.44
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.09	
			For 6" Overall Height Instead Of 4-5/8", Add	19.52	
26 05 36 00-1352	EA		9" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray	432.80	165.03
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.53	
			For 6" Overall Height Instead Of 4-5/8", Add	21.64	
26 05 36 00-1353	EA		12" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray	467.18	183.33
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.44	
			For 6" Overall Height Instead Of 4-5/8", Add	23.36	
26 05 36 00-1354	EA		18" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray	549.95	227.74
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.02	
			For 6" Overall Height Instead Of 4-5/8", Add	27.50	
26 05 36 00-1355	EA		24" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray	620.87	264.18
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.08	
			For 6" Overall Height Instead Of 4-5/8", Add	31.04	
26 05 36 00-1356	EA		30" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray	690.55	299.80
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.07	
			For 6" Overall Height Instead Of 4-5/8", Add	34.53	
26 05 36 00-1357	EA		36" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray	782.36	347.26
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.30	
			For 6" Overall Height Instead Of 4-5/8", Add	39.12	
26 05 36 00-1358			90 Degree, 36" Radius Vertical Risers (26 05 36 00-1293)		
26 05 36 00-1359	EA		6" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	483.94	149.90
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.90	
			For 6" Overall Height Instead Of 4-5/8", Add	24.20	
26 05 36 00-1360	EA		9" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	528.56	173.70
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.39	
			For 6" Overall Height Instead Of 4-5/8", Add	26.43	
26 05 36 00-1361	EA		12" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	578.16	194.19
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.63	
			For 6" Overall Height Instead Of 4-5/8", Add	28.91	
26 05 36 00-1362	EA		18" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	671.96	244.39
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.83	
			For 6" Overall Height Instead Of 4-5/8", Add	33.60	
26 05 36 00-1363	EA		24" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	752.96	286.88
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.39	
			For 6" Overall Height Instead Of 4-5/8", Add	37.65	
26 05 36 00-1364	EA		30" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray	845.23	330.06
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.02	
			For 6" Overall Height Instead Of 4-5/8", Add	42.26	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1365	EA	36" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	954.12 -63.10 47.71	387.83
26 05 36 00-1366 12" Radius Horizontal Tees (26 05 36 00-1293)				
26 05 36 00-1367	EA	6" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	595.43 -37.53 29.77	264.18
26 05 36 00-1368	EA	9" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	643.56 -40.45 32.18	286.88
26 05 36 00-1369	EA	12" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	667.65 -41.78 33.38	299.80
26 05 36 00-1370	EA	18" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	751.09 -47.60 37.55	330.06
26 05 36 00-1371	EA	24" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	832.04 -52.67 41.60	366.37
26 05 36 00-1372	EA	30" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	904.46 -58.07 45.22	388.52
26 05 36 00-1373	EA	36" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,040.94 -67.44 52.05	439.81
26 05 36 00-1374 24" Radius Horizontal Tees (26 05 36 00-1293)				
26 05 36 00-1375	EA	6" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	742.78 -50.37 37.14	286.88
26 05 36 00-1376	EA	9" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	803.98 -54.19 40.20	314.52
26 05 36 00-1377	EA	12" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	837.60 -56.26 41.88	330.06
26 05 36 00-1378	EA	18" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	923.63 -61.83 46.18	366.37
26 05 36 00-1379	EA	24" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,028.56 -68.47 51.43	412.58
26 05 36 00-1380	EA	30" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,107.09 -74.05 55.35	439.81
26 05 36 00-1381	EA	36" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,419.29 -99.59 70.96	508.16
26 05 36 00-1382 36" Radius Horizontal Tees (26 05 36 00-1293)				
26 05 36 00-1383	EA	6" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	898.11 -63.61 44.91	314.52
26 05 36 00-1384	EA	9" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	963.00 -67.36 48.15	347.26
26 05 36 00-1385	EA	12" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,030.49 -72.51 51.52	366.37
26 05 36 00-1386	EA	18" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,130.33 -78.65 56.52	412.58
26 05 36 00-1387	EA	24" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,273.46 -88.10 63.67	471.03
26 05 36 00-1388	EA	30" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,465.09 -104.17 73.25	508.16
26 05 36 00-1389	EA	36" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,686.41 -118.67 84.32	599.62
26 05 36 00-1390 12" Radius Vertical Tees (26 05 36 00-1293)				
26 05 36 00-1391	EA	6" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	755.92 -55.22 37.80	244.39
26 05 36 00-1392	EA	9" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	782.15 -57.04 39.11	254.01



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1393	EA		12" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	801.51 -58.14 40.08	264.18
26 05 36 00-1394	EA		18" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	847.09 -60.80 42.35	286.88
26 05 36 00-1395	EA		24" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	899.18 -64.93 44.96	299.80
26 05 36 00-1396	EA		30" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	957.18 -68.21 47.86	330.06
26 05 36 00-1397	EA		36" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,030.49 -72.51 51.52	366.37
26 05 36 00-1398 24" Radius Vertical Tees (26 05 36 00-1293)					
26 05 36 00-1399	EA		6" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,030.49 -81.04 51.52	264.18
26 05 36 00-1400	EA		9" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,056.32 -82.71 52.82	275.06
26 05 36 00-1401	EA		12" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,083.71 -84.46 54.19	286.88
26 05 36 00-1402	EA		18" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,147.45 -88.54 57.37	314.52
26 05 36 00-1403	EA		24" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,188.70 -91.37 59.44	330.06
26 05 36 00-1404	EA		30" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,264.56 -95.92 63.23	366.37
26 05 36 00-1405	EA		36" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,400.02 -105.62 70.00	412.58
26 05 36 00-1406 36" Radius Vertical Tees (26 05 36 00-1293)					
26 05 36 00-1407	EA		6" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,601.08 -136.20 80.05	286.88
26 05 36 00-1408	EA		9" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,637.21 -138.73 81.86	299.80
26 05 36 00-1409	EA		12" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,676.17 -141.41 83.81	314.52
26 05 36 00-1410	EA		18" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,745.48 -145.61 87.27	347.26
26 05 36 00-1411	EA		24" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,791.93 -148.66 89.60	366.37
26 05 36 00-1412	EA		30" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,912.60 -156.88 95.63	412.58
26 05 36 00-1413	EA		36" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,024.52 -163.20 101.23	471.03
26 05 36 00-1414 12" Radius Horizontal Crosses (26 05 36 00-1293)					
26 05 36 00-1415	EA		6" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	766.36 -49.13 38.32	330.06
26 05 36 00-1416	EA		9" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	817.98 -52.86 40.90	347.26
26 05 36 00-1417	EA		12" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	852.39 -54.70 42.62	366.37
26 05 36 00-1418	EA		18" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	940.08 -61.63 47.00	388.52
26 05 36 00-1419	EA		24" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,035.85 -66.93 51.79	439.81
26 05 36 00-1420	EA		30" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,141.16 -74.87 57.06	471.03

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1421	EA	36"	Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,292.08 -86.87 64.60	508.16
26 05 36 00-1422 24" Radius Horizontal Crosses (26 05 36 00-1293)					
26 05 36 00-1423	EA	6"	Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,025.40 -72.01 51.27	366.37
26 05 36 00-1424	EA	9"	Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,074.92 -75.12 53.75	388.52
26 05 36 00-1425	EA	12"	Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,127.78 -78.40 56.39	412.58
26 05 36 00-1426	EA	18"	Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,196.14 -82.96 59.81	439.81
26 05 36 00-1427	EA	24"	Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,350.60 -92.72 67.53	508.16
26 05 36 00-1428	EA	30"	Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,456.23 -99.78 72.81	550.10
26 05 36 00-1429	EA	36"	Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,607.54 -110.78 80.38	599.62
26 05 36 00-1430 36" Radius Horizontal Crosses (26 05 36 00-1293)					
26 05 36 00-1431	EA	6"	Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,176.12 -83.23 58.81	412.58
26 05 36 00-1432	EA	9"	Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,241.94 -87.54 62.10	439.81
26 05 36 00-1433	EA	12"	Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,324.35 -93.19 66.22	471.03
26 05 36 00-1434	EA	18"	Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,421.84 -99.84 71.09	508.16
26 05 36 00-1435	EA	24"	Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,711.86 -121.21 85.59	599.62
26 05 36 00-1436	EA	30"	Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,887.16 -133.79 94.36	659.02
26 05 36 00-1437	EA	36"	Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,101.30 -148.95 105.07	734.12
26 05 36 00-1438 12" Radius Vertical Crosses (26 05 36 00-1293)					
26 05 36 00-1439	EA	6"	Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	766.36 -49.13 38.32	330.06
26 05 36 00-1440	EA	9"	Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	818.17 -52.87 40.91	347.40
26 05 36 00-1441	EA	12"	Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	852.28 -54.70 42.61	366.37
26 05 36 00-1442	EA	18"	Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	940.32 -61.65 47.02	388.65
26 05 36 00-1443	EA	24"	Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,035.85 -66.93 51.79	439.81
26 05 36 00-1444	EA	30"	Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,141.52 -74.89 57.08	471.17
26 05 36 00-1445	EA	36"	Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,291.04 -86.81 64.55	507.47
26 05 36 00-1446 24" Radius Vertical Crosses (26 05 36 00-1293)					
26 05 36 00-1447	EA	6"	Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,025.40 -72.01 51.27	366.37
26 05 36 00-1448	EA	9"	Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,074.92 -75.12 53.75	388.52



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1449	EA	12"	Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,127.78 -78.40 56.39	412.58
26 05 36 00-1450	EA	18"	Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,196.14 -82.96 59.81	439.81
26 05 36 00-1451	EA	24"	Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,350.60 -92.72 67.53	508.16
26 05 36 00-1452	EA	30"	Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,456.23 -99.78 72.81	550.10
26 05 36 00-1453	EA	36"	Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,607.54 -110.78 80.38	599.62
26 05 36 00-1454			36" Radius Vertical Crosses (26 05 36 00-1293)		
26 05 36 00-1455	EA	6"	Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,395.95 -105.21 69.80	412.58
26 05 36 00-1456	EA	9"	Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,470.92 -110.44 73.55	439.81
26 05 36 00-1457	EA	12"	Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,567.07 -117.46 78.35	471.03
26 05 36 00-1458	EA	18"	Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,680.59 -125.72 84.03	508.16
26 05 36 00-1459	EA	24"	Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,032.43 -153.27 101.62	599.62
26 05 36 00-1460	EA	30"	Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,242.08 -169.29 112.10	659.02
26 05 36 00-1461	EA	36"	Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,496.29 -188.45 124.81	734.12
26 05 36 00-1462			Dropout Or End Plates And Reducers (26 05 36 00-0744)		
26 05 36 00-1463			Straight Reducers (26 05 36 00-1462)		
26 05 36 00-1464	EA	9" To 6"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	296.41 -21.18 14.82	101.50
26 05 36 00-1465	EA	12" To 9"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	313.22 -22.16 15.66	109.88
26 05 36 00-1466	EA	18" To 12"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	344.32 -23.86 17.22	126.80
26 05 36 00-1467	EA	24" To 18"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	380.23 -25.80 19.01	146.74
26 05 36 00-1468	EA	30" To 24"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	413.58 -27.61 20.68	165.03
26 05 36 00-1469	EA	36" To 30"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	461.27 -30.41 23.06	188.55
26 05 36 00-1470			Reducers (26 05 36 00-1462)		
26 05 36 00-1471	EA	18" To 6"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	344.45 -23.87 17.22	126.94
26 05 36 00-1472	EA	24" To 12"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	380.58 -25.81 19.03	146.88
26 05 36 00-1473	EA	30" To 12"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	413.36 -27.59 20.67	164.89
26 05 36 00-1474	EA	30" To 18"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	415.97 -27.87 20.80	164.76
26 05 36 00-1475	EA	36" To 12"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	458.44 -30.13 22.92	188.55
26 05 36 00-1476	EA	36" To 18"	Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	469.53 -30.83 23.48	193.50

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1477	EA	36" To 24" Reducer, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	485.48 -31.91 24.27	199.69
26 05 36 00-1478		Dropout Or End Plate (26 05 36 00-1462)		
26 05 36 00-1479	EA	6" Dropout Or End Plate, Aluminum Cable Tray	85.58	41.26
26 05 36 00-1480	EA	9" Dropout Or End Plate, Aluminum Cable Tray	96.48	47.17
26 05 36 00-1481	EA	12" Dropout Or End Plate, Aluminum Cable Tray	104.08	50.75
26 05 36 00-1482	EA	18" Dropout Or End Plate, Aluminum Cable Tray	126.12	59.96
26 05 36 00-1483	EA	24" Dropout Or End Plate, Aluminum Cable Tray	140.69	66.01
26 05 36 00-1484	EA	30" Dropout Or End Plate, Aluminum Cable Tray	158.74	73.30
26 05 36 00-1485	EA	36" Dropout Or End Plate, Aluminum Cable Tray	178.10	82.52
26 05 36 00-1486		Solid Bottom Cable Tray (26 05 36 00-0001) Note: 3-5/8" Height.		
26 05 36 00-1487		Solid Bottom Galvanized Steel Straight Tray Sections (26 05 36 00-1486)		
26 05 36 00-1488	LF	6" Solid Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	34.77 3.42	10.73
26 05 36 00-1489	LF	12" Solid Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	43.30 4.30	13.21
26 05 36 00-1490	LF	18" Solid Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	57.82 5.51	18.98
26 05 36 00-1491	LF	24" Solid Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	66.90 6.41	21.73
26 05 36 00-1492	LF	30" Solid Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	80.19 7.64	26.27
26 05 36 00-1493	LF	36" Solid Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	102.23 10.32	30.12
26 05 36 00-1494		Solid Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-1486)		
26 05 36 00-1495		90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1496	EA	6" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	356.38 30.52	137.67
26 05 36 00-1497	EA	12" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	465.08 37.48	193.64
26 05 36 00-1498	EA	18" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	569.93 44.75	244.39
26 05 36 00-1499	EA	24" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	698.61 54.74	300.22
26 05 36 00-1500	EA	30" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	816.03 64.43	347.94
26 05 36 00-1501	EA	36" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	916.75 72.76	388.52
26 05 36 00-1502		90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1503	EA	6" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	419.29 39.00	143.30
26 05 36 00-1504	EA	12" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	555.00 48.83	206.42
26 05 36 00-1505	EA	18" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	684.09 58.59	264.18
26 05 36 00-1506	EA	24" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	834.61 70.18	330.06
26 05 36 00-1507	EA	30" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	979.04 82.23	387.83
26 05 36 00-1508	EA	36" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,106.50 92.67	439.81
26 05 36 00-1509		90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1510	EA	6" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	513.69 52.10	149.76
26 05 36 00-1511	EA	12" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	664.54 62.95	220.46
26 05 36 00-1512	EA	18" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	842.10 78.43	287.29
26 05 36 00-1513	EA	24" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,004.42 89.59	366.37
26 05 36 00-1514	EA	30" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,205.57 107.53	439.81
26 05 36 00-1515	EA	36" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,375.67 121.87	506.79
26 05 36 00-1516		45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1517	EA	6" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	324.78 25.77	137.67



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1518	EA	12" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	429.52 32.15	193.64
26 05 36 00-1519	EA	18" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	528.81 38.63	244.11
26 05 36 00-1520	EA	24" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	648.33 47.28	299.80
26 05 36 00-1521	EA	30" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	756.97 55.57	347.94
26 05 36 00-1522	EA	36" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	848.22 62.61	387.83
26 05 36 00-1523		45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1524	EA	6" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	374.37 32.25	143.44
26 05 36 00-1525	EA	12" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	501.95 40.91	206.29
26 05 36 00-1526	EA	18" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	623.69 49.47	264.47
26 05 36 00-1527	EA	24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	763.48 59.51	330.06
26 05 36 00-1528	EA	30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	897.07 69.81	388.52
26 05 36 00-1529	EA	36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,013.15 78.66	439.81
26 05 36 00-1530		45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1531	EA	6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	448.01 42.21	149.90
26 05 36 00-1532	EA	12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	556.06 50.09	199.83
26 05 36 00-1533	EA	18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	751.29 64.81	287.29
26 05 36 00-1534	EA	24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	907.07 74.88	367.06
26 05 36 00-1535	EA	30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,087.45 89.81	439.81
26 05 36 00-1536	EA	36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,245.02 102.07	508.16
26 05 36 00-1537		90 Degree, 12" Radius Vertical Risers (26 05 36 00-1494)		
26 05 36 00-1538	EA	6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	383.71 34.68	137.25
26 05 36 00-1539	EA	12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	485.40 40.53	193.64
26 05 36 00-1540	EA	18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	572.47 45.13	244.39
26 05 36 00-1541	EA	24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	693.53 53.98	300.22
26 05 36 00-1542	EA	30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	785.55 59.85	347.94
26 05 36 00-1543	EA	36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	859.65 64.32	387.83
26 05 36 00-1544		90 Degree, 24" Radius Vertical Risers (26 05 36 00-1494)		
26 05 36 00-1545	EA	6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	457.39 44.72	143.30
26 05 36 00-1546	EA	12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	582.94 53.03	206.42
26 05 36 00-1547	EA	18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	699.33 60.88	264.18
26 05 36 00-1548	EA	24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	832.06 69.80	330.06
26 05 36 00-1549	EA	30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	943.48 76.90	387.83
26 05 36 00-1550	EA	36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,058.24 85.43	439.81
26 05 36 00-1551		90 Degree, 36" Radius Vertical Risers (26 05 36 00-1494)		
26 05 36 00-1552	EA	6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	546.72 57.06	149.76
26 05 36 00-1553	EA	12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	666.57 66.61	200.24
26 05 36 00-1554	EA	18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	842.10 78.43	287.29
26 05 36 00-1555	EA	24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,009.51 90.36	366.37
26 05 36 00-1556	EA	30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,167.47 101.81	439.81

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1557	EA	36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,317.24 113.11	506.79
26 05 36 00-1558		12" Radius Horizontal Tees (26 05 36 00-1494)		
26 05 36 00-1559	EA	6" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	618.05 48.68	264.18
26 05 36 00-1560	EA	12" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	742.29 56.42	329.51
26 05 36 00-1561	EA	18" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	876.11 66.67	388.52
26 05 36 00-1562	EA	24" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,043.32 77.82	471.99
26 05 36 00-1563	EA	30" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,138.97 86.16	508.16
26 05 36 00-1564	EA	36" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,334.78 100.27	599.62
26 05 36 00-1565		24" Radius Horizontal Tees (26 05 36 00-1494)		
26 05 36 00-1566	EA	6" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	755.06 65.44	286.88
26 05 36 00-1567	EA	12" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	933.30 78.93	366.37
26 05 36 00-1568	EA	18" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,091.26 90.38	439.81
26 05 36 00-1569	EA	24" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,402.03 118.62	550.10
26 05 36 00-1570	EA	30" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,527.84 129.23	599.62
26 05 36 00-1571	EA	36" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,795.09 146.91	734.12
26 05 36 00-1572		36" Radius Horizontal Tees (26 05 36 00-1494)		
26 05 36 00-1573	EA	6" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	958.49 91.36	314.52
26 05 36 00-1574	EA	12" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,172.81 107.16	412.58
26 05 36 00-1575	EA	18" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,375.21 121.60	508.16
26 05 36 00-1576	EA	24" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,677.71 151.71	599.62
26 05 36 00-1577	EA	30" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,838.65 165.60	661.23
26 05 36 00-1578	EA	36" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,137.34 183.07	825.16
26 05 36 00-1579		12" Radius Vertical Tees (26 05 36 00-1494)		
26 05 36 00-1580	EA	6" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	732.36 65.83	264.18
26 05 36 00-1581	EA	12" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	854.93 73.23	330.06
26 05 36 00-1582	EA	18" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	920.60 77.02	366.37
26 05 36 00-1583	EA	24" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	986.66 83.37	387.83
26 05 36 00-1584	EA	30" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,096.34 91.14	439.81
26 05 36 00-1585	EA	36" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,222.79 98.73	508.16
26 05 36 00-1586		24" Radius Vertical Tees (26 05 36 00-1494)		
26 05 36 00-1587	EA	6" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	910.02 88.69	286.88
26 05 36 00-1588	EA	12" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,062.85 98.36	366.37
26 05 36 00-1589	EA	18" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,162.65 105.63	412.58
26 05 36 00-1590	EA	24" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,230.97 111.34	439.81
26 05 36 00-1591	EA	30" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,392.99 124.26	508.16
26 05 36 00-1592	EA	36" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,571.02 135.71	599.62
26 05 36 00-1593		36" Radius Vertical Tees (26 05 36 00-1494)		
26 05 36 00-1594	EA	6" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,196.47 127.14	313.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1595 EA 12" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,373.49 137.26	412.58
26 05 36 00-1596 EA 18" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,521.64 149.75	471.03
26 05 36 00-1597 EA 24" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,608.91 156.65	508.16
26 05 36 00-1598 EA 30" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,888.55 183.34	599.62
26 05 36 00-1599 EA 36" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	2,038.33 195.90	659.02
26 05 36 00-1600 12" Radius Horizontal Crosses (26 05 36 00-1494)		
26 05 36 00-1601 EA 6" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	763.48 59.51	330.06
26 05 36 00-1602 EA 12" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	878.65 67.05	388.52
26 05 36 00-1603 EA 18" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,056.77 80.02	471.03
26 05 36 00-1604 EA 24" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,221.68 91.57	550.10
26 05 36 00-1605 EA 30" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,438.84 105.98	659.02
26 05 36 00-1606 EA 36" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,596.95 117.19	734.12
26 05 36 00-1607 24" Radius Horizontal Crosses (26 05 36 00-1494)		
26 05 36 00-1608 EA 6" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,000.42 88.89	367.06
26 05 36 00-1609 EA 12" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,167.47 101.81	439.81
26 05 36 00-1610 EA 18" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,402.03 118.62	550.10
26 05 36 00-1611 EA 24" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,724.34 148.45	661.23
26 05 36 00-1612 EA 30" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,896.70 162.15	734.12
26 05 36 00-1613 EA 36" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	2,086.53 175.45	825.16
26 05 36 00-1614 36" Radius Horizontal Crosses (26 05 36 00-1494)		
26 05 36 00-1615 EA 6" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,322.69 129.64	412.58
26 05 36 00-1616 EA 12" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,545.40 147.13	508.16
26 05 36 00-1617 EA 18" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,864.05 169.41	661.23
26 05 36 00-1618 EA 24" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	2,125.32 196.44	734.12
26 05 36 00-1619 EA 30" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	2,353.26 215.46	825.16
26 05 36 00-1620 EA 36" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	2,611.43 234.72	941.92
26 05 36 00-1621 Straight Reducers (26 05 36 00-1494)		
26 05 36 00-1622 EA 12" To 6" Reducer, Solid Bottom, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	307.84 27.84	110.02
26 05 36 00-1623 EA 18" To 12" Reducer, Solid Bottom, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	334.25 29.41	124.32
26 05 36 00-1624 EA 24" To 18" Reducer, Solid Bottom, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	370.86 31.75	143.30
26 05 36 00-1625 EA 30" To 24" Reducer, Solid Bottom, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	417.31 35.09	165.03
26 05 36 00-1626 EA 36" To 30" Reducer, Solid Bottom, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	452.40 37.35	183.05
26 05 36 00-1627 Reducers (26 05 36 00-1494)		
26 05 36 00-1628 EA 18" To 6" Reducer, Solid Bottom, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	334.37 29.42	124.46
26 05 36 00-1629 EA 24" To 12" Reducer, Solid Bottom, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	368.81 31.40	143.58
26 05 36 00-1630 EA 30" To 12" Reducer, Solid Bottom, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	412.01 34.32	164.89
26 05 36 00-1631 EA 30" To 18" Reducer, Solid Bottom, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	414.33 34.69	164.76
26 05 36 00-1632 EA 36" To 12" Reducer, Solid Bottom, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	449.86 36.97	183.05
26 05 36 00-1633 EA 36" To 18" Reducer, Solid Bottom, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	452.40 37.35	183.05

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1634	EA	36" To 24" Reducer, Solid Bottom, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	455.49 37.76	183.33
26 05 36 00-1635		Dropout Or End Plate (26 05 36 00-1494)		
26 05 36 00-1636	EA	6" Dropout Or End Plate, Solid Bottom, Steel Cable Tray	94.67	41.26
26 05 36 00-1637	EA	12" Dropout Or End Plate, Solid Bottom, Steel Cable Tray	116.16	50.34
26 05 36 00-1638	EA	18" Dropout Or End Plate, Solid Bottom, Steel Cable Tray	134.12	59.69
26 05 36 00-1639	EA	24" Dropout Or End Plate, Solid Bottom, Steel Cable Tray	150.79	66.01
26 05 36 00-1640	EA	30" Dropout Or End Plate, Solid Bottom, Steel Cable Tray	167.86	73.30
26 05 36 00-1641	EA	36" Dropout Or End Plate, Solid Bottom, Steel Cable Tray	186.43	82.52
26 05 36 00-1642		Solid Bottom Aluminum Straight Cable Tray Sections (26 05 36 00-1486)		
26 05 36 00-1643	LF	6" Solid Bottom Aluminum Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	30.74 3.16	8.67
26 05 36 00-1644	LF	12" Solid Bottom Aluminum Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	38.25 4.05	10.18
26 05 36 00-1645	LF	18" Solid Bottom Aluminum Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	48.91 5.12	13.21
26 05 36 00-1646	LF	24" Solid Bottom Aluminum Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	58.04 6.29	14.58
26 05 36 00-1647	LF	30" Solid Bottom Aluminum Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	71.26 7.55	18.84
26 05 36 00-1648	LF	36" Solid Bottom Steel Aluminum Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	84.56 9.24	20.63
26 05 36 00-1649		Solid Bottom Aluminum Cable Tray Fittings (26 05 36 00-1486)		
26 05 36 00-1650		90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1651	EA	6" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	360.27	137.67
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	31.10	
26 05 36 00-1652	EA	12" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	436.18	173.29
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	36.54	
26 05 36 00-1653	EA	18" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	503.42	194.05
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	43.17	
26 05 36 00-1654	EA	24" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	586.48	227.88
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	49.98	
26 05 36 00-1655	EA	30" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	692.36	264.47
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	59.78	
26 05 36 00-1656	EA	36" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	782.72	300.22
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	67.36	
26 05 36 00-1657		90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1658	EA	6" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	425.05	143.30
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	39.86	
26 05 36 00-1659	EA	12" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	526.78	183.60
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	48.43	
26 05 36 00-1660	EA	18" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	595.39	206.29
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	54.93	
26 05 36 00-1661	EA	24" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	718.24	244.39
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	67.00	
26 05 36 00-1662	EA	30" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	833.40	286.47
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	77.26	
26 05 36 00-1663	EA	36" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	959.15	330.06
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	88.86	
26 05 36 00-1664		90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1665	EA	6" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	525.62	149.76
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	53.89	
26 05 36 00-1666	EA	12" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	655.38	194.46
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	65.90	
26 05 36 00-1667	EA	18" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	760.02	220.46
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	77.27	
26 05 36 00-1668	EA	24" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	861.00	263.77
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	85.18	
26 05 36 00-1669	EA	30" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	1,000.66	314.52
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	97.69	
26 05 36 00-1670	EA	36" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	1,167.97	365.82
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	114.23	
26 05 36 00-1671		45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1672	EA	6" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	331.62	137.67
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	26.79	
26 05 36 00-1673	EA	12" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	403.78	173.29
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	31.68	
26 05 36 00-1674	EA	18" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	463.53	193.91
		<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	37.22	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1675	EA		24" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	540.20 43.12	227.47
26 05 36 00-1676	EA		30" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	637.01 51.47	264.47
26 05 36 00-1677	EA		36" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	719.16 57.97	299.39
26 05 36 00-1678			45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1679	EA		6" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	384.27 33.73	143.44
26 05 36 00-1680	EA		12" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	477.91 41.12	183.33
26 05 36 00-1681	EA		18" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	540.72 46.66	206.70
26 05 36 00-1682	EA		24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	649.85 56.74	244.39
26 05 36 00-1683	EA		30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	756.43 65.58	287.29
26 05 36 00-1684	EA		36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	869.16 75.36	330.06
26 05 36 00-1685			45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1686	EA		6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	465.24 44.80	149.90
26 05 36 00-1687	EA		12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	581.88 54.94	194.05
26 05 36 00-1688	EA		18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	673.63 64.31	220.46
26 05 36 00-1689	EA		24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	769.42 71.33	264.47
26 05 36 00-1690	EA		30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	895.82 81.96	314.52
26 05 36 00-1691	EA		36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,047.29 95.92	367.06
26 05 36 00-1692			90 Degree, 12" Radius Vertical Risers (26 05 36 00-1649)		
26 05 36 00-1693	EA		6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	384.20 34.75	137.25
26 05 36 00-1694	EA		12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	450.50 38.68	173.29
26 05 36 00-1695	EA		18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	505.47 43.48	194.05
26 05 36 00-1696	EA		24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	572.17 47.83	227.88
26 05 36 00-1697	EA		30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	645.32 52.72	264.47
26 05 36 00-1698	EA		36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	709.67 56.55	299.39
26 05 36 00-1699			90 Degree, 24" Radius Vertical Risers (26 05 36 00-1649)		
26 05 36 00-1700	EA		6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	459.82 45.08	143.30
26 05 36 00-1701	EA		12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	545.19 51.19	183.60
26 05 36 00-1702	EA		18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	601.52 55.85	206.29
26 05 36 00-1703	EA		24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	687.56 62.40	244.39
26 05 36 00-1704	EA		30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	774.08 68.36	286.47
26 05 36 00-1705	EA		36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	877.34 76.59	330.06
26 05 36 00-1706			90 Degree, 36" Radius Vertical Risers (26 05 36 00-1649)		
26 05 36 00-1707	EA		6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	539.94 56.04	149.76
26 05 36 00-1708	EA		12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	651.29 65.29	194.46
26 05 36 00-1709	EA		18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	723.21 71.75	220.46
26 05 36 00-1710	EA		24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	809.86 77.51	263.77
26 05 36 00-1711	EA		30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	933.16 87.56	314.52
26 05 36 00-1712	EA		36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,035.03 94.29	365.82

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 36 00-1713 12" Radius Horizontal Tees (26 05 36 00-1649)					
26 05 36 00-1714	EA	6" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	642.71		264.18
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	52.38		
26 05 36 00-1715	EA	12" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	744.44		299.39
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	61.77		
26 05 36 00-1716	EA	18" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	826.21		330.06
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	68.92		
26 05 36 00-1717	EA	24" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	920.61		367.06
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	76.91		
26 05 36 00-1718	EA	30" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	1,088.97		439.81
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	90.04		
26 05 36 00-1719	EA	36" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	1,325.90		550.10
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	107.20		
26 05 36 00-1720 24" Radius Horizontal Tees (26 05 36 00-1649)					
26 05 36 00-1721	EA	6" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	811.56		286.88
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	73.92		
26 05 36 00-1722	EA	12" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	926.43		330.06
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	83.95		
26 05 36 00-1723	EA	18" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	1,036.11		366.37
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	94.35		
26 05 36 00-1724	EA	24" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	1,254.63		439.81
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	114.89		
26 05 36 00-1725	EA	30" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	1,509.98		550.10
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	134.81		
26 05 36 00-1726	EA	36" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	1,667.09		601.40
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	149.83		
26 05 36 00-1727 36" Radius Horizontal Tees (26 05 36 00-1649)					
26 05 36 00-1728	EA	6" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray	1,066.11		314.52
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	107.51		
26 05 36 00-1729	EA	12" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray	1,203.82		366.37
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	119.50		
26 05 36 00-1730	EA	18" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray	1,372.80		412.58
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	137.16		
26 05 36 00-1731	EA	24" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray	1,642.42		506.79
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	161.89		
26 05 36 00-1732	EA	30" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray	1,981.45		661.23
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	187.02		
26 05 36 00-1733	EA	36" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray	2,205.27		734.12
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	208.44		
26 05 36 00-1734 12" Radius Vertical Tees (26 05 36 00-1649)					
26 05 36 00-1735	EA	6" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	728.61		264.18
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	65.27		
26 05 36 00-1736	EA	12" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	794.25		299.80
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	69.16		
26 05 36 00-1737	EA	18" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	830.10		313.97
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	72.18		
26 05 36 00-1738	EA	24" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	876.47		329.51
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	76.55		
26 05 36 00-1739	EA	30" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	966.57		366.37
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	83.92		
26 05 36 00-1740	EA	36" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray	1,109.42		439.81
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	93.10		
26 05 36 00-1741 24" Radius Vertical Tees (26 05 36 00-1649)					
26 05 36 00-1742	EA	6" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	903.60		286.88
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	87.72		
26 05 36 00-1743	EA	12" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	1,000.06		330.06
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	95.00		
26 05 36 00-1744	EA	18" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	1,059.46		347.26
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	101.04		
26 05 36 00-1745	EA	24" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	1,132.23		366.37
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	108.77		
26 05 36 00-1746	EA	30" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	1,260.31		412.58
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	120.28		
26 05 36 00-1747	EA	36" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray	1,448.11		506.79
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	132.74		
26 05 36 00-1748 36" Radius Vertical Tees (26 05 36 00-1649)					
26 05 36 00-1749	EA	6" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray	1,188.02		313.97
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	125.87		
26 05 36 00-1750	EA	12" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray	1,298.58		361.97
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	134.47		
26 05 36 00-1751	EA	18" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray	1,382.57		387.83
		For 4-5/8" Overall Height Instead Of 3-5/8", Add	142.76		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1752	EA		24" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,444.38 147.89	412.58
26 05 36 00-1753	EA		30" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,603.08 161.97	471.03
26 05 36 00-1754	EA		36" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,089.46 63.47	599.62
26 05 36 00-1755			12" Radius Horizontal Crosses (26 05 36 00-1649)		
26 05 36 00-1756	EA		6" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	757.43 63.64	299.80
26 05 36 00-1757	EA		12" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	840.53 71.07	330.06
26 05 36 00-1758	EA		18" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	977.60 82.01	387.83
26 05 36 00-1759	EA		24" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,161.30 95.70	471.03
26 05 36 00-1760	EA		30" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,270.18 106.05	506.79
26 05 36 00-1761	EA		36" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,472.79 120.68	601.40
26 05 36 00-1762			24" Radius Horizontal Crosses (26 05 36 00-1649)		
26 05 36 00-1763	EA		6" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,000.94 95.04	330.61
26 05 36 00-1764	EA		12" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,132.23 108.77	366.37
26 05 36 00-1765	EA		18" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,299.63 121.64	439.81
26 05 36 00-1766	EA		24" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,604.46 148.74	551.61
26 05 36 00-1767	EA		30" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,759.13 163.63	601.40
26 05 36 00-1768	EA		36" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,010.97 179.29	734.12
26 05 36 00-1769			36" Radius Horizontal Crosses (26 05 36 00-1649)		
26 05 36 00-1770	EA		6" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,377.67 145.58	366.37
26 05 36 00-1771	EA		12" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,515.96 158.63	412.58
26 05 36 00-1772	EA		18" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,767.21 180.40	508.16
26 05 36 00-1773	EA		24" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,104.16 205.43	661.23
26 05 36 00-1774	EA		30" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,307.53 223.78	734.12
26 05 36 00-1775	EA		36" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,643.34 258.97	825.16
26 05 36 00-1776			Straight Reducers (26 05 36 00-1649)		
26 05 36 00-1777	EA		12" To 6" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	284.09 26.89	94.34
26 05 36 00-1778	EA		18" To 12" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	313.98 28.79	109.88
26 05 36 00-1779	EA		24" To 18" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	346.32 31.22	124.32
26 05 36 00-1780	EA		30" To 24" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	390.45 34.66	143.44
26 05 36 00-1781	EA		36" To 30" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	434.15 37.66	164.76
26 05 36 00-1782			Reducers (26 05 36 00-1649)		
26 05 36 00-1783	EA		18" To 6" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	312.03 28.49	109.88
26 05 36 00-1784	EA		24" To 12" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	344.64 30.94	124.60
26 05 36 00-1785	EA		30" To 12" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	386.19 34.04	143.30
26 05 36 00-1786	EA		30" To 18" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	388.07 34.33	143.30
26 05 36 00-1787	EA		36" To 12" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	434.15 37.66	164.76
26 05 36 00-1788	EA		36" To 18" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	436.20 37.97	164.76
26 05 36 00-1789	EA		36" To 24" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	440.73 38.60	165.03

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1790		Dropout Or End Plate (26 05 36 00-1649)		
26 05 36 00-1791	EA	6" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	94.63	41.26
26 05 36 00-1792	EA	12" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	113.15	50.34
26 05 36 00-1793	EA	18" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	134.54	59.69
26 05 36 00-1794	EA	24" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	148.57	66.01
26 05 36 00-1795	EA	30" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	167.14	73.30
26 05 36 00-1796	EA	36" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	189.68	82.52
26 05 36 00-1797		Vented Bottom Cable Tray (26 05 36 00-0001) Note: 6" Height.		
26 05 36 00-1798		Vented Bottom Galvanized Steel Cable Tray (26 05 36 00-1797)		
26 05 36 00-1799	LF	6" Vented Bottom Steel Cable Tray, Straight Section.....	44.74	14.44
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-3.27	
26 05 36 00-1800	LF	12" Vented Bottom Steel Cable Tray, Straight Section.....	52.62	16.50
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-3.89	
26 05 36 00-1801	LF	18" Vented Bottom Steel Cable Tray, Straight Section.....	61.94	18.98
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-4.61	
26 05 36 00-1802	LF	24" Vented Bottom Steel Cable Tray, Straight Section.....	71.08	21.73
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-5.29	
26 05 36 00-1803	LF	30" Vented Bottom Steel Cable Tray, Straight Section.....	93.73	26.27
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-7.18	
26 05 36 00-1804	LF	36" Vented Bottom Steel Cable Tray, Straight Section.....	110.93	33.00
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-8.34	
26 05 36 00-1805		Vented Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-1797)		
26 05 36 00-1806		90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1807	EA	6" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	416.70	173.83
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-27.19	
26 05 36 00-1808	EA	12" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	542.83	235.17
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-34.68	
26 05 36 00-1809	EA	18" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	673.09	299.80
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-42.32	
26 05 36 00-1810	EA	24" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	825.50	367.06
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-51.96	
26 05 36 00-1811	EA	30" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	931.24	413.41
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-58.67	
26 05 36 00-1812	EA	36" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,066.99	471.99
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-67.36	
26 05 36 00-1813		90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1814	EA	6" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	492.95	183.19
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-34.03	
26 05 36 00-1815	EA	12" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	639.52	254.01
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-42.78	
26 05 36 00-1816	EA	18" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	811.33	330.06
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-53.63	
26 05 36 00-1817	EA	24" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	982.11	412.58
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-63.83	
26 05 36 00-1818	EA	30" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,049.96	426.19
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-69.48	
26 05 36 00-1819	EA	36" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,311.07	550.10
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-85.26	
26 05 36 00-1820		90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1821	EA	6" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	603.06	193.64
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-44.16	
26 05 36 00-1822	EA	12" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	779.63	275.47
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-55.01	
26 05 36 00-1823	EA	18" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	996.49	367.06
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-69.06	
26 05 36 00-1824	EA	24" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,191.06	471.03
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-79.86	
26 05 36 00-1825	EA	30" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,372.81	550.10
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-91.44	
26 05 36 00-1826	EA	36" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,606.66	659.02
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-105.74	
26 05 36 00-1827		45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1828	EA	6" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	388.99	173.97
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-24.40	
26 05 36 00-1829	EA	12" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	509.65	235.17
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-31.36	
26 05 36 00-1830	EA	18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	634.23	299.39
		For 4-5/8" Overall Height Instead Of 6", Deduct.....	-38.47	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1831	EA		24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	777.40 -47.21	366.37
26 05 36 00-1832	EA		30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	877.95 -53.34	413.41
26 05 36 00-1833	EA		36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,003.55 -61.11	471.03
26 05 36 00-1834			45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1835	EA		6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	451.96 -29.92	183.33
26 05 36 00-1836	EA		12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	591.97 -38.03	254.01
26 05 36 00-1837	EA		18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	754.74 -47.93	330.61
26 05 36 00-1838	EA		24" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	917.32 -57.35	412.58
26 05 36 00-1839	EA		30" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,051.65 -65.83	471.99
26 05 36 00-1840	EA		36" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,224.34 -76.59	550.10
26 05 36 00-1841			45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1842	EA		6" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	542.02 -38.03	194.05
26 05 36 00-1843	EA		12" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	707.88 -47.90	274.65
26 05 36 00-1844	EA		18" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	911.85 -60.60	367.06
26 05 36 00-1845	EA		24" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,103.51 -71.01	471.99
26 05 36 00-1846	EA		30" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,272.50 -81.41	550.10
26 05 36 00-1847	EA		36" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,498.38 -94.74	661.23
26 05 36 00-1848			90 Degree, 12" Radius Vertical Risers (26 05 36 00-1805)		
26 05 36 00-1849	EA		6" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	452.78 -30.83	173.29
26 05 36 00-1850	EA		12" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	574.89 -37.89	235.17
26 05 36 00-1851	EA		18" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	684.97 -43.51	299.80
26 05 36 00-1852	EA		24" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	823.13 -51.72	367.06
26 05 36 00-1853	EA		30" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	905.12 -56.06	413.41
26 05 36 00-1854	EA		36" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,012.95 -62.05	471.03
26 05 36 00-1855			90 Degree, 24" Radius Vertical Risers (26 05 36 00-1805)		
26 05 36 00-1856	EA		6" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	540.45 -38.78	183.19
26 05 36 00-1857	EA		12" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	672.77 -46.11	254.01
26 05 36 00-1858	EA		18" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	825.58 -55.05	330.06
26 05 36 00-1859	EA		24" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	972.61 -62.88	412.58
26 05 36 00-1860	EA		30" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,105.57 -71.31	471.03
26 05 36 00-1861	EA		36" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,251.70 -79.33	550.10
26 05 36 00-1862			90 Degree, 36" Radius Vertical Risers (26 05 36 00-1805)		
26 05 36 00-1863	EA		6" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	641.06 -47.96	193.64
26 05 36 00-1864	EA		12" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	796.25 -56.67	275.47
26 05 36 00-1865	EA		18" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	986.99 -68.11	367.06
26 05 36 00-1866	EA		24" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,186.31 -79.38	471.03
26 05 36 00-1867	EA		30" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,327.69 -86.93	550.10
26 05 36 00-1868	EA		36" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,554.41 -100.52	659.02

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 36 00-1869	12" Radius Horizontal Tees (26 05 36 00-1805)				
26 05 36 00-1870	EA 6" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	742.46		330.06	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-46.74			
26 05 36 00-1871	EA 12" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	899.99		411.75	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-55.69			
26 05 36 00-1872	EA 18" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,028.99		471.99	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-63.56			
26 05 36 00-1873	EA 24" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,197.08		550.10	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-73.87			
26 05 36 00-1874	EA 30" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,320.07		599.62	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-82.03			
26 05 36 00-1875	EA 36" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,449.92		659.02	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-90.07			
26 05 36 00-1876	24" Radius Horizontal Tees (26 05 36 00-1805)				
26 05 36 00-1877	EA 6" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	928.92		366.37	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-62.36			
26 05 36 00-1878	EA 12" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,131.69		471.03	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-73.92			
26 05 36 00-1879	EA 18" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,303.94		550.10	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-84.55			
26 05 36 00-1880	EA 24" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,601.91		659.02	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-105.27			
26 05 36 00-1881	EA 30" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,769.75		734.12	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-115.80			
26 05 36 00-1882	EA 36" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,978.47		825.16	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-129.08			
26 05 36 00-1883	36" Radius Horizontal Tees (26 05 36 00-1805)				
26 05 36 00-1884	EA 6" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,143.59		412.58	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-79.98			
26 05 36 00-1885	EA 12" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,436.93		550.10	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-97.85			
26 05 36 00-1886	EA 18" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,669.56		661.23	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-111.86			
26 05 36 00-1887	EA 24" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	2,059.22		825.16	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-137.16			
26 05 36 00-1888	EA 30" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	2,301.46		946.32	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-151.29			
26 05 36 00-1889	EA 36" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	2,683.74		1,097.33	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-176.93			
26 05 36 00-1890	12" Radius Vertical Tees (26 05 36 00-1805)				
26 05 36 00-1891	EA 6" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	870.70		330.06	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-59.57			
26 05 36 00-1892	EA 12" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,012.98		412.58	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-66.92			
26 05 36 00-1893	EA 18" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,065.56		439.81	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-69.90			
26 05 36 00-1894	EA 24" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,136.44		471.03	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-74.40			
26 05 36 00-1895	EA 30" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,219.69		508.16	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-79.63			
26 05 36 00-1896	EA 36" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,379.44		599.62	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-87.97			
26 05 36 00-1897	24" Radius Vertical Tees (26 05 36 00-1805)				
26 05 36 00-1898	EA 6" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,040.53		366.37	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-73.52			
26 05 36 00-1899	EA 12" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,236.18		471.03	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-84.37			
26 05 36 00-1900	EA 18" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,319.43		508.16	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-89.60			
26 05 36 00-1901	EA 24" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,425.06		550.10	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-96.66			
26 05 36 00-1902	EA 30" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,533.80		599.62	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-103.41			
26 05 36 00-1903	EA 36" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,802.99		734.12	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-119.12			
26 05 36 00-1904	36" Radius Vertical Tees (26 05 36 00-1805)				
26 05 36 00-1905	EA 6" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,370.21		411.75	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-102.71			
26 05 36 00-1906	EA 12" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,617.42		550.10	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-115.90			
26 05 36 00-1907	EA 18" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,723.79		599.62	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-122.41			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1908	EA		24" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,873.79 -132.28	661.23
26 05 36 00-1909	EA		30" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,114.10 -150.23	734.12
26 05 36 00-1910	EA		36" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,472.37 -168.74	941.92
26 05 36 00-1911			12" Radius Horizontal Crosses (26 05 36 00-1805)		
26 05 36 00-1912	EA		6" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	934.61 -59.08	412.58
26 05 36 00-1913	EA		12" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,036.12 -64.27	471.99
26 05 36 00-1914	EA		18" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,194.70 -73.63	550.10
26 05 36 00-1915	EA		24" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,390.55 -84.13	659.02
26 05 36 00-1916	EA		30" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,546.93 -93.73	731.51
26 05 36 00-1917	EA		36" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,743.37 -105.57	825.16
26 05 36 00-1918			24" Radius Horizontal Crosses (26 05 36 00-1805)		
26 05 36 00-1919	EA		6" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,173.85 -78.05	471.99
26 05 36 00-1920	EA		12" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,322.94 -86.45	550.10
26 05 36 00-1921	EA		18" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,544.92 -99.57	659.02
26 05 36 00-1922	EA		24" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,942.85 -125.52	825.16
26 05 36 00-1923	EA		30" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,196.89 -141.19	941.92
26 05 36 00-1924	EA		36" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,493.76 -157.94	1,097.33
26 05 36 00-1925			36" Radius Horizontal Crosses (26 05 36 00-1805)		
26 05 36 00-1926	EA		6" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,569.92 -111.15	550.10
26 05 36 00-1927	EA		12" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,788.30 -123.73	661.23
26 05 36 00-1928	EA		18" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,075.84 -138.82	825.16
26 05 36 00-1929	EA		24" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,681.65 -176.24	1,103.10
26 05 36 00-1930	EA		30" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	3,130.13 -202.82	1,322.32
26 05 36 00-1931	EA		36" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	3,747.95 -237.27	1,650.32
26 05 36 00-1932			Straight Reducers (26 05 36 00-1805)		
26 05 36 00-1933	EA		12" To 6" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	354.14 -23.70	140.55
26 05 36 00-1934	EA		18" To 12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	386.34 -25.55	157.06
26 05 36 00-1935	EA		24" To 18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	438.06 -28.55	183.05
26 05 36 00-1936	EA		30" To 24" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	481.56 -30.97	206.29
26 05 36 00-1937	EA		36" To 30" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	525.89 -33.66	227.19
26 05 36 00-1938			Reducers (26 05 36 00-1805)		
26 05 36 00-1939	EA		18" To 6" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	386.34 -25.55	157.06
26 05 36 00-1940	EA		24" To 12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	436.23 -28.34	183.33
26 05 36 00-1941	EA		30" To 12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	478.83 -30.71	206.01
26 05 36 00-1942	EA		30" To 18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	480.87 -30.93	205.88
26 05 36 00-1943	EA		36" To 12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	523.51 -33.42	227.19
26 05 36 00-1944	EA		36" To 18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	525.89 -33.66	227.19
26 05 36 00-1945	EA		36" To 24" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	529.10 -33.94	227.74

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1946 Dropout Or End Plate (26 05 36 00-1805)					
26 05 36 00-1947	EA	6"	Dropout Or End Plate, Vented Bottom, Steel Cable Tray	113.19	50.75
26 05 36 00-1948	EA	12"	Dropout Or End Plate, Vented Bottom, Steel Cable Tray	134.20	59.55
26 05 36 00-1949	EA	18"	Dropout Or End Plate, Vented Bottom, Steel Cable Tray	147.91	65.74
26 05 36 00-1950	EA	24"	Dropout Or End Plate, Vented Bottom, Steel Cable Tray	166.32	73.30
26 05 36 00-1951	EA	30"	Dropout Or End Plate, Vented Bottom, Steel Cable Tray	184.62	82.38
26 05 36 00-1952	EA	36"	Dropout Or End Plate, Vented Bottom, Steel Cable Tray	216.44	98.47
26 05 36 00-1953 Vented Bottom Aluminum Cable Tray (26 05 36 00-1797)					
26 05 36 00-1954	LF	6"	Vented Bottom Aluminum Cable Tray, Straight Section	42.20	10.73
			For 4-5/8" Overall Height Instead Of 6", Deduct	-3.32	
26 05 36 00-1955	LF	9"	Vented Bottom Aluminum Cable Tray, Straight Section	46.82	11.82
			For 4-5/8" Overall Height Instead Of 6", Deduct	-3.70	
26 05 36 00-1956	LF	12"	Vented Bottom Aluminum Cable Tray, Straight Section	52.38	13.21
			For 4-5/8" Overall Height Instead Of 6", Deduct	-4.14	
26 05 36 00-1957	LF	18"	Vented Bottom Aluminum Cable Tray, Straight Section	61.03	14.72
			For 4-5/8" Overall Height Instead Of 6", Deduct	-4.87	
26 05 36 00-1958	LF	24"	Vented Bottom Aluminum Cable Tray, Straight Section	70.05	16.36
			For 4-5/8" Overall Height Instead Of 6", Deduct	-5.65	
26 05 36 00-1959	LF	30"	Vented Bottom Aluminum Cable Tray, Straight Section	89.00	18.84
			For 4-5/8" Overall Height Instead Of 6", Deduct	-7.33	
26 05 36 00-1960	LF	36"	Vented Bottom Aluminum Cable Tray, Straight Section	99.02	22.14
			For 4-5/8" Overall Height Instead Of 6", Deduct	-8.06	
26 05 36 00-1961 Vented Bottom Aluminum Cable Tray Fittings (26 05 36 00-1797)					
26 05 36 00-1962 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1961)					
26 05 36 00-1963	EA	6"	Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray	486.53	173.83
			For 4-5/8" Overall Height Instead Of 6", Deduct	-34.17	
26 05 36 00-1964	EA	9"	Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray	528.56	188.69
			For 4-5/8" Overall Height Instead Of 6", Deduct	-37.13	
26 05 36 00-1965	EA	12"	Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray	582.34	212.47
			For 4-5/8" Overall Height Instead Of 6", Deduct	-40.53	
26 05 36 00-1966	EA	18"	Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray	657.84	235.45
			For 4-5/8" Overall Height Instead Of 6", Deduct	-46.16	
26 05 36 00-1967	EA	24"	Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray	787.00	287.29
			For 4-5/8" Overall Height Instead Of 6", Deduct	-54.76	
26 05 36 00-1968	EA	30"	Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray	930.47	330.61
			For 4-5/8" Overall Height Instead Of 6", Deduct	-65.50	
26 05 36 00-1969	EA	36"	Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray	1,025.50	367.06
			For 4-5/8" Overall Height Instead Of 6", Deduct	-71.96	
26 05 36 00-1970 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1961)					
26 05 36 00-1971	EA	6"	Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray	590.67	183.19
			For 4-5/8" Overall Height Instead Of 6", Deduct	-43.80	
26 05 36 00-1972	EA	12"	Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray	713.32	227.74
			For 4-5/8" Overall Height Instead Of 6", Deduct	-52.36	
26 05 36 00-1973	EA	18"	Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray	808.60	254.01
			For 4-5/8" Overall Height Instead Of 6", Deduct	-59.69	
26 05 36 00-1974	EA	24"	Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray	962.72	313.97
			For 4-5/8" Overall Height Instead Of 6", Deduct	-70.11	
26 05 36 00-1975	EA	30"	Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray	1,111.79	365.82
			For 4-5/8" Overall Height Instead Of 6", Deduct	-80.70	
26 05 36 00-1976	EA	36"	Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray	1,229.75	412.58
			For 4-5/8" Overall Height Instead Of 6", Deduct	-88.59	
26 05 36 00-1977 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1961)					
26 05 36 00-1978	EA	6"	Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray	725.14	193.64
			For 4-5/8" Overall Height Instead Of 6", Deduct	-56.37	
26 05 36 00-1979	EA	12"	Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray	867.22	244.66
			For 4-5/8" Overall Height Instead Of 6", Deduct	-66.33	
26 05 36 00-1980	EA	18"	Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray	981.18	275.47
			For 4-5/8" Overall Height Instead Of 6", Deduct	-75.17	
26 05 36 00-1981	EA	24"	Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray	1,149.48	347.26
			For 4-5/8" Overall Height Instead Of 6", Deduct	-86.01	
26 05 36 00-1982	EA	30"	Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray	1,231.39	336.53
			For 4-5/8" Overall Height Instead Of 6", Deduct	-95.10	
26 05 36 00-1983	EA	36"	Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray	1,512.56	471.03
			For 4-5/8" Overall Height Instead Of 6", Deduct	-112.01	
26 05 36 00-1984 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1961)					
26 05 36 00-1985	EA	6"	Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray	443.45	173.97
			For 4-5/8" Overall Height Instead Of 6", Deduct	-29.85	
26 05 36 00-1986	EA	9"	Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray	481.77	188.96
			For 4-5/8" Overall Height Instead Of 6", Deduct	-32.43	
26 05 36 00-1987	EA	12"	Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray	532.12	212.47
			For 4-5/8" Overall Height Instead Of 6", Deduct	-35.51	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1988	EA	18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	599.01 -40.30	235.17
26 05 36 00-1989	EA	24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	718.54 -47.95	286.88
26 05 36 00-1990	EA	30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	846.98 -57.15	330.61
26 05 36 00-1991	EA	36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	933.40 -62.81	366.37
26 05 36 00-1992 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1961)				
26 05 36 00-1993	EA	6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	528.18 -37.54	183.33
26 05 36 00-1994	EA	12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	639.88 -45.01	227.74
26 05 36 00-1995	EA	18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	724.40 -51.24	254.43
26 05 36 00-1996	EA	24" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	866.85 -60.48	314.52
26 05 36 00-1997	EA	30" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,003.47 -69.76	367.06
26 05 36 00-1998	EA	36" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,110.49 -76.67	412.58
26 05 36 00-1999 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1961)				
26 05 36 00-2000	EA	6" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	637.24 -47.55	194.05
26 05 36 00-2001	EA	12" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	765.19 -56.18	244.11
26 05 36 00-2002	EA	18" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	866.31 -63.68	275.47
26 05 36 00-2003	EA	24" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,024.90 -73.50	347.94
26 05 36 00-2004	EA	30" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,170.50 -84.68	388.52
26 05 36 00-2005	EA	36" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,354.28 -96.09	471.99
26 05 36 00-2006 90 Degree, 12" Radius Vertical Risers (26 05 36 00-1961)				
26 05 36 00-2007	EA	6" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	528.60 -38.41	173.29
26 05 36 00-2008	EA	9" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	567.64 -41.08	188.28
26 05 36 00-2009	EA	12" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	610.88 -43.38	212.47
26 05 36 00-2010	EA	18" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	657.84 -46.16	235.45
26 05 36 00-2011	EA	24" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	772.74 -53.33	287.29
26 05 36 00-2012	EA	30" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	859.13 -58.36	330.61
26 05 36 00-2013	EA	36" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	921.70 -61.64	366.37
26 05 36 00-2014 90 Degree, 24" Radius Vertical Risers (26 05 36 00-1961)				
26 05 36 00-2015	EA	6" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	627.76 -47.51	183.19
26 05 36 00-2016	EA	12" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	730.44 -54.07	227.74
26 05 36 00-2017	EA	18" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	805.75 -59.40	254.01
26 05 36 00-2018	EA	24" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	912.16 -65.01	314.52
26 05 36 00-2019	EA	30" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,018.71 -71.34	366.37
26 05 36 00-2020	EA	36" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,115.62 -77.18	412.58
26 05 36 00-2021 90 Degree, 36" Radius Vertical Risers (26 05 36 00-1961)				
26 05 36 00-2022	EA	6" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	722.29 -56.09	193.64
26 05 36 00-2023	EA	12" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	835.83 -63.19	244.66
26 05 36 00-2024	EA	18" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	938.38 -70.89	275.47
26 05 36 00-2025	EA	24" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,098.12 -80.87	347.26
26 05 36 00-2026	EA	30" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,218.15 -89.44	388.52

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2027	EA	36" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,372.75 -98.03	471.03
26 05 36 00-2028		12" Radius Horizontal Tees (26 05 36 00-1961)		
26 05 36 00-2029	EA	6" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	849.69 -57.46	330.06
26 05 36 00-2030	EA	9" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	886.97 -59.76	347.26
26 05 36 00-2031	EA	12" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	943.44 -63.86	365.82
26 05 36 00-2032	EA	18" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,077.06 -73.26	413.41
26 05 36 00-2033	EA	24" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,230.08 -83.76	471.03
26 05 36 00-2034	EA	30" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,393.35 -93.49	550.10
26 05 36 00-2035	EA	36" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,541.59 -104.19	599.62
26 05 36 00-2036		24" Radius Horizontal Tees (26 05 36 00-1961)		
26 05 36 00-2037	EA	6" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,067.21 -76.19	366.37
26 05 36 00-2038	EA	12" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,205.56 -86.24	411.75
26 05 36 00-2039	EA	18" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,355.63 -96.31	471.03
26 05 36 00-2040	EA	24" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,627.72 -117.05	548.59
26 05 36 00-2041	EA	30" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,872.37 -132.14	661.23
26 05 36 00-2042	EA	36" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,122.32 -151.06	734.12
26 05 36 00-2043		36" Radius Horizontal Tees (26 05 36 00-1961)		
26 05 36 00-2044	EA	6" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,420.92 -107.71	412.58
26 05 36 00-2045	EA	12" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,626.69 -123.42	471.03
26 05 36 00-2046	EA	18" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,721.59 -133.87	459.48
26 05 36 00-2047	EA	24" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,211.23 -166.20	659.02
26 05 36 00-2048	EA	30" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,564.90 -187.45	828.46
26 05 36 00-2049	EA	36" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,939.51 -215.45	941.92
26 05 36 00-2050		12" Radius Vertical Tees (26 05 36 00-1961)		
26 05 36 00-2051	EA	6" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	960.97 -68.59	330.06
26 05 36 00-2052	EA	9" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	992.55 -70.31	347.26
26 05 36 00-2053	EA	12" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,055.80 -75.05	366.37
26 05 36 00-2054	EA	18" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,095.45 -77.17	388.52
26 05 36 00-2055	EA	24" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,145.64 -80.25	411.75
26 05 36 00-2056	EA	30" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,212.44 -84.59	439.81
26 05 36 00-2057	EA	36" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,344.08 -92.17	506.79
26 05 36 00-2058		24" Radius Vertical Tees (26 05 36 00-1961)		
26 05 36 00-2059	EA	6" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,192.76 -88.74	366.37
26 05 36 00-2060	EA	12" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,313.98 -97.09	411.75
26 05 36 00-2061	EA	18" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,403.61 -103.71	439.81
26 05 36 00-2062	EA	24" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,498.29 -110.58	471.03
26 05 36 00-2063	EA	30" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,615.15 -119.28	506.79
26 05 36 00-2064	EA	36" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,787.03 -128.58	601.40



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2065			36" Radius Vertical Tees (26 05 36 00-1961)		
26 05 36 00-2066	EA		6" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,585.04 -124.19	411.75
26 05 36 00-2067	EA		12" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,740.82 -134.83	471.03
26 05 36 00-2068	EA		18" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,829.14 -140.68	506.79
26 05 36 00-2069	EA		24" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,975.00 -151.54	551.61
26 05 36 00-2070	EA		30" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	2,143.69 -164.25	601.40
26 05 36 00-2071	EA		36" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	2,417.59 -180.80	731.51
26 05 36 00-2072			12" Radius Horizontal Crosses (26 05 36 00-1961)		
26 05 36 00-2073	EA		6" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	984.47 -67.91	366.37
26 05 36 00-2074	EA		9" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,046.95 -72.32	388.52
26 05 36 00-2075	EA		12" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,099.88 -75.54	413.41
26 05 36 00-2076	EA		18" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,215.82 -82.33	471.03
26 05 36 00-2077	EA		24" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,393.75 -93.66	548.59
26 05 36 00-2078	EA		30" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,578.64 -108.04	597.96
26 05 36 00-2079	EA		36" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,925.45 -131.37	734.12
26 05 36 00-2080			24" Radius Horizontal Crosses (26 05 36 00-1961)		
26 05 36 00-2081	EA		6" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,359.53 -101.50	413.41
26 05 36 00-2082	EA		12" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,518.26 -112.58	471.03
26 05 36 00-2083	EA		18" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,704.76 -124.76	548.59
26 05 36 00-2084	EA		24" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	2,011.50 -146.23	659.02
26 05 36 00-2085	EA		30" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	2,203.59 -159.40	731.51
26 05 36 00-2086	EA		36" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	2,682.72 -189.78	941.92
26 05 36 00-2087			36" Radius Horizontal Crosses (26 05 36 00-1961)		
26 05 36 00-2088	EA		6" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	1,883.48 -149.10	471.03
26 05 36 00-2089	EA		12" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	2,089.13 -162.95	551.61
26 05 36 00-2090	EA		18" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	2,368.16 -181.89	659.02
26 05 36 00-2091	EA		24" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	2,850.23 -215.98	828.46
26 05 36 00-2092	EA		30" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	3,174.98 -238.64	946.32
26 05 36 00-2093	EA		36" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	3,683.44 -276.90	1,097.33
26 05 36 00-2094			Straight Reducers (26 05 36 00-1961)		
26 05 36 00-2095	EA		9" To 6" Reducer, Vented Bottom, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	366.08 -27.43	110.02
26 05 36 00-2096	EA		12" To 9" Reducer, Vented Bottom, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	384.33 -28.78	115.94
26 05 36 00-2097	EA		18" To 12" Reducer, Vented Bottom, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	434.50 -32.00	137.39
26 05 36 00-2098	EA		24" To 18" Reducer, Vented Bottom, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	481.16 -35.04	156.92
26 05 36 00-2099	EA		30" To 24" Reducer, Vented Bottom, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	531.03 -37.82	183.33
26 05 36 00-2100	EA		36" To 30" Reducer, Vented Bottom, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	577.10 -40.55	205.88
26 05 36 00-2101			Reducers (26 05 36 00-1961)		
26 05 36 00-2102	EA		12" To 6" Reducer, Vented Bottom, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	384.00 -28.76	115.66
26 05 36 00-2103	EA		18" To 6" Reducer, Vented Bottom, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 6", Deduct	434.35 -31.99	137.39

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2104 EA 18" To 9" Reducer, Vented Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	434.35 -31.99	137.39
26 05 36 00-2105 EA 24" To 6" Reducer, Vented Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	481.36 -35.05	157.06
26 05 36 00-2106 EA 24" To 9" Reducer, Vented Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	481.36 -35.05	157.06
26 05 36 00-2107 EA 24" To 12" Reducer, Vented Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	481.75 -35.07	157.20
26 05 36 00-2108 EA 30" To 12" Reducer, Vented Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	536.46 -38.38	183.19
26 05 36 00-2109 EA 30" To 18" Reducer, Vented Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	530.48 -37.79	183.05
26 05 36 00-2110 EA 36" To 12" Reducer, Vented Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	577.10 -40.55	205.88
26 05 36 00-2111 EA 36" To 18" Reducer, Vented Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	577.10 -40.55	205.88
26 05 36 00-2112 EA 36" To 24" Reducer, Vented Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	577.79 -40.59	206.29
26 05 36 00-2113 Dropout Or End Plate (26 05 36 00-1961)		
26 05 36 00-2114 EA 6" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	121.95	50.75
26 05 36 00-2115 EA 9" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	133.08	55.43
26 05 36 00-2116 EA 12" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	143.40	59.55
26 05 36 00-2117 EA 18" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	162.77	65.74
26 05 36 00-2118 EA 24" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	186.47	73.30
26 05 36 00-2119 EA 30" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	205.84	82.38
26 05 36 00-2120 EA 36" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	235.68	94.34
26 05 36 00-2121 Cable Tray Covers And Dividers (26 05 36 00-0001)		
26 05 36 00-2122 Galvanized Steel Covers (26 05 36 00-2121)		
26 05 36 00-2123 Ventilated Straight Sections (26 05 36 00-2122)		
26 05 36 00-2124 LF 6" Steel Cable Tray Cover, Straight Section	11.68	2.47
26 05 36 00-2125 LF 9" Steel Cable Tray Cover, Straight Section	14.07	2.89
26 05 36 00-2126 LF 12" Steel Cable Tray Cover, Straight Section	16.53	3.30
26 05 36 00-2127 LF 18" Steel Cable Tray Cover, Straight Section	22.40	4.40
26 05 36 00-2128 LF 24" Steel Cable Tray Cover, Straight Section	28.44	5.91
26 05 36 00-2129 LF 30" Steel Cable Tray Cover, Straight Section	34.51	7.28
26 05 36 00-2130 LF 36" Steel Cable Tray Cover, Straight Section	163.33	82.65
26 05 36 00-2131 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-2122)		
26 05 36 00-2132 EA 6" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	70.53	8.80
26 05 36 00-2133 EA 9" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	78.94	10.31
26 05 36 00-2134 EA 12" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	85.62	12.24
26 05 36 00-2135 EA 18" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	116.35	15.68
26 05 36 00-2136 EA 24" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	142.55	19.94
26 05 36 00-2137 EA 30" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	172.15	22.14
26 05 36 00-2138 EA 36" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	207.93	26.40
26 05 36 00-2139 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-2122)		
26 05 36 00-2140 EA 6" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	108.83	9.77
26 05 36 00-2141 EA 9" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	113.97	11.41
26 05 36 00-2142 EA 12" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	128.66	13.76
26 05 36 00-2143 EA 18" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	159.63	17.46
26 05 36 00-2144 EA 24" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	195.83	22.00
26 05 36 00-2145 EA 30" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	251.26	25.31
26 05 36 00-2146 EA 36" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	292.29	29.98
26 05 36 00-2147 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-2122)		
26 05 36 00-2148 EA 6" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	153.61	11.00
26 05 36 00-2149 EA 9" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	170.79	12.65
26 05 36 00-2150 EA 12" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	185.28	15.68
26 05 36 00-2151 EA 18" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	234.79	18.30
26 05 36 00-2152 EA 24" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	284.54	25.44
26 05 36 00-2153 EA 30" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	335.21	28.75
26 05 36 00-2154 EA 36" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	392.15	33.00
26 05 36 00-2155 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-2122)		
26 05 36 00-2156 EA 6" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	54.40 -14.56 -24.76	8.80
26 05 36 00-2157 EA 9" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	64.69 -17.39 -29.56	10.31



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2158	EA	12" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	72.56	12.24
		For 60 Degree Bend, Deduct	-19.27	
		For 30 Degree Bend, Deduct	-32.80	
26 05 36 00-2159	EA	18" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	87.91	14.99
		For 60 Degree Bend, Deduct	-23.26	
		For 30 Degree Bend, Deduct	-39.61	
26 05 36 00-2160	EA	24" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	102.62	17.32
		For 60 Degree Bend, Deduct	-27.19	
		For 30 Degree Bend, Deduct	-46.29	
26 05 36 00-2161	EA	30" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	120.02	19.94
		For 60 Degree Bend, Deduct	-31.94	
		For 30 Degree Bend, Deduct	-54.34	
26 05 36 00-2162	EA	36" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	134.05	22.00
		For 60 Degree Bend, Deduct	-35.80	
		For 30 Degree Bend, Deduct	-60.89	
26 05 36 00-2163 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-2122)				
26 05 36 00-2164	EA	6" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover	74.41	9.77
		For 60 Degree Bend, Deduct	-20.82	
		For 30 Degree Bend, Deduct	-35.25	
26 05 36 00-2165	EA	9" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover	84.29	11.41
		For 60 Degree Bend, Deduct	-23.45	
		For 30 Degree Bend, Deduct	-39.72	
26 05 36 00-2166	EA	12" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover	96.60	13.76
		For 60 Degree Bend, Deduct	-26.59	
		For 30 Degree Bend, Deduct	-45.09	
26 05 36 00-2167	EA	18" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover	111.86	16.50
		For 60 Degree Bend, Deduct	-30.58	
		For 30 Degree Bend, Deduct	-51.88	
26 05 36 00-2168	EA	24" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover	128.86	18.84
		For 60 Degree Bend, Deduct	-35.28	
		For 30 Degree Bend, Deduct	-59.85	
26 05 36 00-2169	EA	30" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover	160.25	22.00
		For 60 Degree Bend, Deduct	-44.43	
		For 30 Degree Bend, Deduct	-75.27	
26 05 36 00-2170	EA	36" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover	177.72	25.44
		For 60 Degree Bend, Deduct	-48.90	
		For 30 Degree Bend, Deduct	-82.92	
26 05 36 00-2171 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-2122)				
26 05 36 00-2172	EA	6" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover	102.60	11.00
		For 60 Degree Bend, Deduct	-29.65	
		For 30 Degree Bend, Deduct	-50.03	
26 05 36 00-2173	EA	9" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover	116.17	12.65
		For 60 Degree Bend, Deduct	-33.46	
		For 30 Degree Bend, Deduct	-56.48	
26 05 36 00-2174	EA	12" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover	130.59	15.68
		For 60 Degree Bend, Deduct	-37.09	
		For 30 Degree Bend, Deduct	-62.69	
26 05 36 00-2175	EA	18" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover	148.98	17.46
		For 60 Degree Bend, Deduct	-42.48	
		For 30 Degree Bend, Deduct	-71.77	
26 05 36 00-2176	EA	24" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover	181.58	21.32
		For 60 Degree Bend, Deduct	-51.75	
		For 30 Degree Bend, Deduct	-87.43	
26 05 36 00-2177	EA	30" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover	201.47	25.44
		For 60 Degree Bend, Deduct	-56.74	
		For 30 Degree Bend, Deduct	-95.98	
26 05 36 00-2178	EA	36" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover	238.23	27.50
		For 60 Degree Bend, Deduct	-68.07	
		For 30 Degree Bend, Deduct	-114.97	
26 05 36 00-2179 90 Degree, 12" Radius Vertical Risers (26 05 36 00-2122)				
26 05 36 00-2180	EA	6" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	61.24	8.80
26 05 36 00-2181	EA	9" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	64.69	10.31
26 05 36 00-2182	EA	12" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	71.37	12.24
26 05 36 00-2183	EA	18" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	83.20	14.99
26 05 36 00-2184	EA	24" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	91.72	19.39
26 05 36 00-2185	EA	30" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	102.10	22.14
26 05 36 00-2186	EA	36" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	128.28	26.40
26 05 36 00-2187 90 Degree, 24" Radius Vertical Risers (26 05 36 00-2122)				
26 05 36 00-2188	EA	6" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	73.21	9.77
26 05 36 00-2189	EA	9" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	81.91	11.41
26 05 36 00-2190	EA	12" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	88.29	13.76
26 05 36 00-2191	EA	18" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	114.18	16.50
26 05 36 00-2192	EA	24" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	132.85	21.32
26 05 36 00-2193	EA	30" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	152.74	25.44
26 05 36 00-2194	EA	36" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	175.93	29.98

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2195 90 Degree, 36" Radius Vertical Risers (26 05 36 00-2122)		
26 05 36 00-2196 EA 6" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	84.74	11.00
26 05 36 00-2197 EA 9" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	105.49	12.65
26 05 36 00-2198 EA 12" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	121.16	15.68
26 05 36 00-2199 EA 18" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	148.98	17.46
26 05 36 00-2200 EA 24" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	173.65	24.34
26 05 36 00-2201 EA 30" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	206.97	28.75
26 05 36 00-2202 EA 36" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	242.54	33.00
26 05 36 00-2203 12" Radius Horizontal Tees (26 05 36 00-2122)		
26 05 36 00-2204 EA 6" Horizontal Tee, 12" Radius, Steel Cable Tray Cover	108.24	14.30
26 05 36 00-2205 EA 9" Horizontal Tee, 12" Radius, Steel Cable Tray Cover	114.18	16.50
26 05 36 00-2206 EA 12" Horizontal Tee, 12" Radius, Steel Cable Tray Cover	129.62	19.39
26 05 36 00-2207 EA 18" Horizontal Tee, 12" Radius, Steel Cable Tray Cover	155.50	22.00
26 05 36 00-2208 EA 24" Horizontal Tee, 12" Radius, Steel Cable Tray Cover	191.97	25.44
26 05 36 00-2209 EA 30" Horizontal Tee, 12" Radius, Steel Cable Tray Cover	236.76	36.58
26 05 36 00-2210 EA 36" Horizontal Tee, 12" Radius, Steel Cable Tray Cover	284.54	43.88
26 05 36 00-2211 24" Radius Horizontal Tees (26 05 36 00-2122)		
26 05 36 00-2212 EA 6" Horizontal Tee, 24" Radius, Steel Cable Tray Cover	158.00	14.99
26 05 36 00-2213 EA 9" Horizontal Tee, 24" Radius, Steel Cable Tray Cover	181.03	17.46
26 05 36 00-2214 EA 12" Horizontal Tee, 24" Radius, Steel Cable Tray Cover	191.09	20.63
26 05 36 00-2215 EA 18" Horizontal Tee, 24" Radius, Steel Cable Tray Cover	241.19	23.66
26 05 36 00-2216 EA 24" Horizontal Tee, 24" Radius, Steel Cable Tray Cover	354.46	27.50
26 05 36 00-2217 EA 30" Horizontal Tee, 24" Radius, Steel Cable Tray Cover	420.28	41.26
26 05 36 00-2218 EA 36" Horizontal Tee, 24" Radius, Steel Cable Tray Cover	471.66	50.75
26 05 36 00-2219 36" Radius Horizontal Tees (26 05 36 00-2122)		
26 05 36 00-2220 EA 6" Horizontal Tee, 36" Radius, Steel Cable Tray Cover	265.99	15.68
26 05 36 00-2221 EA 9" Horizontal Tee, 36" Radius, Steel Cable Tray Cover	275.14	18.30
26 05 36 00-2222 EA 12" Horizontal Tee, 36" Radius, Steel Cable Tray Cover	307.45	22.00
26 05 36 00-2223 EA 18" Horizontal Tee, 36" Radius, Steel Cable Tray Cover	360.65	25.44
26 05 36 00-2224 EA 24" Horizontal Tee, 36" Radius, Steel Cable Tray Cover	468.03	29.98
26 05 36 00-2225 EA 30" Horizontal Tee, 36" Radius, Steel Cable Tray Cover	532.37	47.31
26 05 36 00-2226 EA 36" Horizontal Tee, 36" Radius, Steel Cable Tray Cover	615.04	59.83
26 05 36 00-2227 12" Radius Horizontal Crosses (26 05 36 00-2122)		
26 05 36 00-2228 EA 6" Horizontal Cross, 12" Radius, Steel Cable Tray Cover	158.19	19.39
26 05 36 00-2229 EA 9" Horizontal Cross, 12" Radius, Steel Cable Tray Cover	167.37	20.63
26 05 36 00-2230 EA 12" Horizontal Cross, 12" Radius, Steel Cable Tray Cover	185.19	22.00
26 05 36 00-2231 EA 18" Horizontal Cross, 12" Radius, Steel Cable Tray Cover	218.10	25.44
26 05 36 00-2232 EA 24" Horizontal Cross, 12" Radius, Steel Cable Tray Cover	274.69	36.58
26 05 36 00-2233 EA 30" Horizontal Cross, 12" Radius, Steel Cable Tray Cover	317.71	43.88
26 05 36 00-2234 EA 36" Horizontal Cross, 12" Radius, Steel Cable Tray Cover	363.51	47.17
26 05 36 00-2235 24" Radius Horizontal Crosses (26 05 36 00-2122)		
26 05 36 00-2236 EA 6" Horizontal Cross, 24" Radius, Steel Cable Tray Cover	274.29	20.63
26 05 36 00-2237 EA 9" Horizontal Cross, 24" Radius, Steel Cable Tray Cover	297.95	22.00
26 05 36 00-2238 EA 12" Horizontal Cross, 24" Radius, Steel Cable Tray Cover	319.56	23.66
26 05 36 00-2239 EA 18" Horizontal Cross, 24" Radius, Steel Cable Tray Cover	380.58	27.50
26 05 36 00-2240 EA 24" Horizontal Cross, 24" Radius, Steel Cable Tray Cover	477.23	41.26
26 05 36 00-2241 EA 30" Horizontal Cross, 24" Radius, Steel Cable Tray Cover	545.18	50.75
26 05 36 00-2242 EA 36" Horizontal Cross, 24" Radius, Steel Cable Tray Cover	609.20	54.88
26 05 36 00-2243 36" Radius Horizontal Crosses (26 05 36 00-2122)		
26 05 36 00-2244 EA 6" Horizontal Cross, 36" Radius, Steel Cable Tray Cover	438.06	22.00
26 05 36 00-2245 EA 9" Horizontal Cross, 36" Radius, Steel Cable Tray Cover	454.93	23.66
26 05 36 00-2246 EA 12" Horizontal Cross, 36" Radius, Steel Cable Tray Cover	479.39	25.44
26 05 36 00-2247 EA 18" Horizontal Cross, 36" Radius, Steel Cable Tray Cover	553.52	29.98
26 05 36 00-2248 EA 24" Horizontal Cross, 36" Radius, Steel Cable Tray Cover	719.93	47.17
26 05 36 00-2249 EA 30" Horizontal Cross, 36" Radius, Steel Cable Tray Cover	788.86	60.10
26 05 36 00-2250 EA 36" Horizontal Cross, 36" Radius, Steel Cable Tray Cover	846.21	66.01
26 05 36 00-2251 Reducers (26 05 36 00-2122)		
26 05 36 00-2252 EA 9" To 6" Reducer, Steel Cable Tray Covers	70.63	10.31
26 05 36 00-2253 EA 12" To 6" Reducer, Steel Cable Tray Covers	76.17	12.24
26 05 36 00-2254 EA 12" To 9" Reducer, Steel Cable Tray Covers	76.17	12.24
26 05 36 00-2255 EA 18" To 6" Reducer, Steel Cable Tray Covers	84.38	14.99
26 05 36 00-2256 EA 18" To 12" Reducer, Steel Cable Tray Covers	84.38	14.99
26 05 36 00-2257 EA 24" To 12" Reducer, Steel Cable Tray Covers	103.49	16.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2258 EA 24" To 18" Reducer, Steel Cable Tray Covers.....	110.62	16.50
26 05 36 00-2259 EA 30" To 12" Reducer, Steel Cable Tray Covers.....	107.45	18.84
26 05 36 00-2260 EA 30" To 18" Reducer, Steel Cable Tray Covers.....	114.58	18.84
26 05 36 00-2261 EA 30" To 24" Reducer, Steel Cable Tray Covers.....	119.33	18.84
26 05 36 00-2262 EA 36" To 12" Reducer, Steel Cable Tray Covers.....	124.55	20.63
26 05 36 00-2263 EA 36" To 18" Reducer, Steel Cable Tray Covers.....	126.93	20.63
26 05 36 00-2264 EA 36" To 24" Reducer, Steel Cable Tray Covers.....	129.30	20.63
26 05 36 00-2265 EA 36" To 30" Reducer, Steel Cable Tray Covers.....	130.49	20.63
26 05 36 00-2266 Aluminum Covers (26 05 36 00-2121)		
26 05 36 00-2267 Ventilated Straight Sections (26 05 36 00-2266)		
26 05 36 00-2268 LF 6" Aluminum Cable Tray Cover, Straight Section	12.72	2.47
26 05 36 00-2269 LF 9" Aluminum Cable Tray Cover, Straight Section	15.15	2.89
26 05 36 00-2270 LF 12" Aluminum Cable Tray Cover, Straight Section	17.79	3.30
26 05 36 00-2271 LF 18" Aluminum Cable Tray Cover, Straight Section	23.67	4.40
26 05 36 00-2272 LF 24" Aluminum Cable Tray Cover, Straight Section	30.46	5.91
26 05 36 00-2273 LF 30" Aluminum Cable Tray Cover, Straight Section	34.69	7.28
26 05 36 00-2274 LF 36" Aluminum Cable Tray Cover, Straight Section	161.69	82.65
26 05 36 00-2275 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2276 EA 6" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	70.43	8.80
26 05 36 00-2277 EA 9" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	75.32	10.31
26 05 36 00-2278 EA 12" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	83.29	12.24
26 05 36 00-2279 EA 18" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	108.47	15.68
26 05 36 00-2280 EA 24" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	137.47	19.94
26 05 36 00-2281 EA 30" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	161.54	22.14
26 05 36 00-2282 EA 36" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	196.67	26.40
26 05 36 00-2283 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2284 EA 6" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	92.51	9.77
26 05 36 00-2285 EA 9" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	113.45	11.41
26 05 36 00-2286 EA 12" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	127.14	13.76
26 05 36 00-2287 EA 18" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	152.55	17.46
26 05 36 00-2288 EA 24" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	189.32	22.00
26 05 36 00-2289 EA 30" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	228.79	25.31
26 05 36 00-2290 EA 36" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	280.17	29.98
26 05 36 00-2291 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2292 EA 6" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	149.05	11.00
26 05 36 00-2293 EA 9" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	164.09	12.65
26 05 36 00-2294 EA 12" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	188.46	15.68
26 05 36 00-2295 EA 18" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	224.34	18.30
26 05 36 00-2296 EA 24" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	277.27	25.44
26 05 36 00-2297 EA 30" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	319.15	28.75
26 05 36 00-2298 EA 36" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	372.24	33.00
26 05 36 00-2299 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2300 EA 6" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	55.92	8.80
For 60 Degree Bend, Deduct	-15.06	
For 30 Degree Bend, Deduct	-25.60	
26 05 36 00-2301 EA 9" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	59.58	10.31
For 60 Degree Bend, Deduct	-15.71	
For 30 Degree Bend, Deduct	-26.75	
26 05 36 00-2302 EA 12" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	67.79	12.24
For 60 Degree Bend, Deduct	-17.70	
For 30 Degree Bend, Deduct	-30.18	
26 05 36 00-2303 EA 18" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	79.48	14.99
For 60 Degree Bend, Deduct	-20.48	
For 30 Degree Bend, Deduct	-34.97	
26 05 36 00-2304 EA 24" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	89.56	17.32
For 60 Degree Bend, Deduct	-22.88	
For 30 Degree Bend, Deduct	-39.11	
26 05 36 00-2305 EA 30" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	109.64	19.94
For 60 Degree Bend, Deduct	-28.51	
For 30 Degree Bend, Deduct	-48.63	
26 05 36 00-2306 EA 36" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	128.73	22.00
For 60 Degree Bend, Deduct	-34.04	
For 30 Degree Bend, Deduct	-57.96	
26 05 36 00-2307 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2308 EA 6" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	64.07	9.77
For 60 Degree Bend, Deduct	-17.41	
For 30 Degree Bend, Deduct	-29.56	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2309 EA 9" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	79.54	11.41
For 60 Degree Bend, Deduct	-21.88	
For 30 Degree Bend, Deduct	-37.10	
26 05 36 00-2310 EA 12" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	85.96	13.76
For 60 Degree Bend, Deduct	-23.08	
For 30 Degree Bend, Deduct	-39.24	
26 05 36 00-2311 EA 18" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	103.85	16.50
For 60 Degree Bend, Deduct	-27.93	
For 30 Degree Bend, Deduct	-47.48	
26 05 36 00-2312 EA 24" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	125.96	18.84
For 60 Degree Bend, Deduct	-34.32	
For 30 Degree Bend, Deduct	-58.26	
26 05 36 00-2313 EA 30" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	145.76	22.00
For 60 Degree Bend, Deduct	-39.65	
For 30 Degree Bend, Deduct	-67.30	
26 05 36 00-2314 EA 36" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	168.32	25.44
For 60 Degree Bend, Deduct	-45.80	
For 30 Degree Bend, Deduct	-77.75	
26 05 36 00-2315 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2316 EA 6" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	100.65	11.00
For 60 Degree Bend, Deduct	-29.01	
For 30 Degree Bend, Deduct	-48.96	
26 05 36 00-2317 EA 9" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	110.80	12.65
For 60 Degree Bend, Deduct	-31.69	
For 30 Degree Bend, Deduct	-53.53	
26 05 36 00-2318 EA 12" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	120.57	15.68
For 60 Degree Bend, Deduct	-33.79	
For 30 Degree Bend, Deduct	-57.18	
26 05 36 00-2319 EA 18" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	142.90	17.46
For 60 Degree Bend, Deduct	-40.48	
For 30 Degree Bend, Deduct	-68.43	
26 05 36 00-2320 EA 24" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	173.60	21.32
For 60 Degree Bend, Deduct	-49.12	
For 30 Degree Bend, Deduct	-83.04	
26 05 36 00-2321 EA 30" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	199.81	25.44
For 60 Degree Bend, Deduct	-56.19	
For 30 Degree Bend, Deduct	-95.07	
26 05 36 00-2322 EA 36" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	225.12	27.50
For 60 Degree Bend, Deduct	-63.74	
For 30 Degree Bend, Deduct	-107.76	
26 05 36 00-2323 90 Degree, 12" Radius Vertical Risers (26 05 36 00-2266)		
26 05 36 00-2324 EA 6" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	62.17	8.80
26 05 36 00-2325 EA 9" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	65.03	10.31
26 05 36 00-2326 EA 12" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	72.39	12.24
26 05 36 00-2327 EA 18" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	85.58	14.99
26 05 36 00-2328 EA 24" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	95.33	19.39
26 05 36 00-2329 EA 30" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	100.98	22.14
26 05 36 00-2330 EA 36" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	121.48	26.40
26 05 36 00-2331 90 Degree, 24" Radius Vertical Risers (26 05 36 00-2266)		
26 05 36 00-2332 EA 6" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	70.71	9.77
26 05 36 00-2333 EA 9" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	78.32	11.41
26 05 36 00-2334 EA 12" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	87.17	13.76
26 05 36 00-2335 EA 18" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	105.01	16.50
26 05 36 00-2336 EA 24" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	120.26	21.32
26 05 36 00-2337 EA 30" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	151.31	25.44
26 05 36 00-2338 EA 36" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	168.75	29.98
26 05 36 00-2339 90 Degree, 36" Radius Vertical Risers (26 05 36 00-2266)		
26 05 36 00-2340 EA 6" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	81.23	11.00
26 05 36 00-2341 EA 9" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	98.69	12.65
26 05 36 00-2342 EA 12" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	115.79	15.68
26 05 36 00-2343 EA 18" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	138.05	17.46
26 05 36 00-2344 EA 24" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	169.04	24.34
26 05 36 00-2345 EA 30" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	210.15	28.75
26 05 36 00-2346 EA 36" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	229.33	33.00
26 05 36 00-2347 12" Radius Horizontal Tees (26 05 36 00-2266)		
26 05 36 00-2348 EA 6" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	101.44	14.30
26 05 36 00-2349 EA 9" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	109.86	16.50
26 05 36 00-2350 EA 12" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	124.30	19.39
26 05 36 00-2351 EA 18" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	145.76	22.00
26 05 36 00-2352 EA 24" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	180.43	25.44
26 05 36 00-2353 EA 30" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	223.31	36.58
26 05 36 00-2354 EA 36" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	269.38	43.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2355 24" Radius Horizontal Tees (26 05 36 00-2266)		
26 05 36 00-2356 EA 6" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover	150.97	14.99
26 05 36 00-2357 EA 9" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover	169.53	17.46
26 05 36 00-2358 EA 12" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover	191.80	20.63
26 05 36 00-2359 EA 18" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover	223.42	23.66
26 05 36 00-2360 EA 24" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover	338.82	27.50
26 05 36 00-2361 EA 30" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover	393.39	41.26
26 05 36 00-2362 EA 36" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover	445.48	50.75
26 05 36 00-2363 36" Radius Horizontal Tees (26 05 36 00-2266)		
26 05 36 00-2364 EA 6" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	256.24	15.68
26 05 36 00-2365 EA 9" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	265.49	18.30
26 05 36 00-2366 EA 12" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	295.90	22.00
26 05 36 00-2367 EA 18" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	335.51	25.44
26 05 36 00-2368 EA 24" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	423.09	29.98
26 05 36 00-2369 EA 30" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	497.83	47.31
26 05 36 00-2370 EA 36" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	572.05	59.83
26 05 36 00-2371 12" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2372 EA 6" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	151.01	19.39
26 05 36 00-2373 EA 9" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	160.34	20.63
26 05 36 00-2374 EA 12" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	177.25	22.00
26 05 36 00-2375 EA 18" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	211.92	25.44
26 05 36 00-2376 EA 24" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	257.16	36.58
26 05 36 00-2377 EA 30" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	305.64	43.88
26 05 36 00-2378 EA 36" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	347.40	47.17
26 05 36 00-2379 24" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2380 EA 6" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	266.97	20.63
26 05 36 00-2381 EA 9" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	286.21	22.00
26 05 36 00-2382 EA 12" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	308.20	23.66
26 05 36 00-2383 EA 18" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	358.20	27.50
26 05 36 00-2384 EA 24" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	441.79	41.26
26 05 36 00-2385 EA 30" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	520.47	50.75
26 05 36 00-2386 EA 36" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	563.83	54.88
26 05 36 00-2387 36" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2388 EA 6" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	409.75	22.00
26 05 36 00-2389 EA 9" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	429.32	23.66
26 05 36 00-2390 EA 12" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	461.47	25.44
26 05 36 00-2391 EA 18" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	510.29	29.98
26 05 36 00-2392 EA 24" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	647.96	47.17
26 05 36 00-2393 EA 30" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	754.17	60.10
26 05 36 00-2394 EA 36" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	824.58	66.01
26 05 36 00-2395 Reducers (26 05 36 00-2266)		
26 05 36 00-2396 EA 9" To 6" Reducer, Aluminum Cable Tray Covers	76.54	10.31
26 05 36 00-2397 EA 12" To 6" Reducer, Aluminum Cable Tray Covers	82.12	12.24
26 05 36 00-2398 EA 12" To 9" Reducer, Aluminum Cable Tray Covers	82.13	12.24
26 05 36 00-2399 EA 18" To 6" Reducer, Aluminum Cable Tray Covers	92.82	14.99
26 05 36 00-2400 EA 18" To 12" Reducer, Aluminum Cable Tray Covers	92.82	14.99
26 05 36 00-2401 EA 24" To 12" Reducer, Aluminum Cable Tray Covers	102.59	16.50
26 05 36 00-2402 EA 24" To 18" Reducer, Aluminum Cable Tray Covers	112.23	16.50
26 05 36 00-2403 EA 30" To 12" Reducer, Aluminum Cable Tray Covers	118.66	18.84
26 05 36 00-2404 EA 30" To 18" Reducer, Aluminum Cable Tray Covers	122.26	18.84
26 05 36 00-2405 EA 30" To 24" Reducer, Aluminum Cable Tray Covers	124.75	18.84
26 05 36 00-2406 EA 36" To 12" Reducer, Aluminum Cable Tray Covers	131.20	20.63
26 05 36 00-2407 EA 36" To 18" Reducer, Aluminum Cable Tray Covers	133.62	20.63
26 05 36 00-2408 EA 36" To 24" Reducer, Aluminum Cable Tray Covers	134.83	20.63
26 05 36 00-2409 EA 36" To 30" Reducer, Aluminum Cable Tray Covers	136.04	20.63
26 05 36 00-2410 Galvanized Steel Dividers (26 05 36 00-2121)		
26 05 36 00-2411 Straight Dividers (26 05 36 00-2410)		
26 05 36 00-2412 LF 3" Deep Galvanized Steel Divider Strip, Straight	12.03	3.30
26 05 36 00-2413 LF 4" Deep Galvanized Steel Divider Strip, Straight	14.13	3.58
26 05 36 00-2414 LF 6" Deep Galvanized Steel Divider Strip, Straight	17.45	4.13
26 05 36 00-2415 3" Deep Vertical Dividers (26 05 36 00-2410)		
26 05 36 00-2416 EA Vertical Divider, 3" Deep, 12" Radius, 30 Degree, Steel Cable Tray	71.40	23.66
26 05 36 00-2417 EA Vertical Divider, 3" Deep, 12" Radius, 45 Degree, Steel Cable Tray	80.96	24.48

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2418 EA Vertical Divider, 3" Deep, 12" Radius, 60 Degree, Steel Cable Tray	85.11	25.44
26 05 36 00-2419 EA Vertical Divider, 3" Deep, 12" Radius, 90 Degree, Steel Cable Tray	97.44	26.40
26 05 36 00-2420 EA Vertical Divider, 3" Deep, 24" Radius, 30 Degree, Steel Cable Tray	92.69	26.40
26 05 36 00-2421 EA Vertical Divider, 3" Deep, 24" Radius, 45 Degree, Steel Cable Tray	100.41	27.50
26 05 36 00-2422 EA Vertical Divider, 3" Deep, 24" Radius, 60 Degree, Steel Cable Tray	116.73	28.75
26 05 36 00-2423 EA Vertical Divider, 3" Deep, 24" Radius, 90 Degree, Steel Cable Tray	143.87	29.98
26 05 36 00-2424 EA Vertical Divider, 3" Deep, 36" Radius, 30 Degree, Steel Cable Tray	115.37	29.98
26 05 36 00-2425 EA Vertical Divider, 3" Deep, 36" Radius, 45 Degree, Steel Cable Tray	128.38	31.49
26 05 36 00-2426 EA Vertical Divider, 3" Deep, 36" Radius, 60 Degree, Steel Cable Tray	144.07	33.00
26 05 36 00-2427 EA Vertical Divider, 3" Deep, 36" Radius, 90 Degree, Steel Cable Tray	181.39	34.80
26 05 36 00-2428 4" Deep Vertical Dividers (26 05 36 00-2410)		
26 05 36 00-2429 EA Vertical Divider, 4" Deep, 12" Radius, 30 Degree, Steel Cable Tray	81.56	24.48
26 05 36 00-2430 EA Vertical Divider, 4" Deep, 12" Radius, 45 Degree, Steel Cable Tray	89.86	25.44
26 05 36 00-2431 EA Vertical Divider, 4" Deep, 12" Radius, 60 Degree, Steel Cable Tray	97.44	26.40
26 05 36 00-2432 EA Vertical Divider, 4" Deep, 12" Radius, 90 Degree, Steel Cable Tray	111.10	27.50
26 05 36 00-2433 EA Vertical Divider, 4" Deep, 24" Radius, 30 Degree, Steel Cable Tray	111.10	27.50
26 05 36 00-2434 EA Vertical Divider, 4" Deep, 24" Radius, 45 Degree, Steel Cable Tray	129.79	28.75
26 05 36 00-2435 EA Vertical Divider, 4" Deep, 24" Radius, 60 Degree, Steel Cable Tray	142.68	29.98
26 05 36 00-2436 EA Vertical Divider, 4" Deep, 24" Radius, 90 Degree, Steel Cable Tray	175.88	31.49
26 05 36 00-2437 EA Vertical Divider, 4" Deep, 36" Radius, 30 Degree, Steel Cable Tray	123.85	28.75
26 05 36 00-2438 EA Vertical Divider, 4" Deep, 36" Radius, 45 Degree, Steel Cable Tray	136.74	29.98
26 05 36 00-2439 EA Vertical Divider, 4" Deep, 36" Radius, 60 Degree, Steel Cable Tray	161.63	31.49
26 05 36 00-2440 EA Vertical Divider, 4" Deep, 36" Radius, 90 Degree, Steel Cable Tray	203.44	33.00
26 05 36 00-2441 6" Deep Vertical Dividers (26 05 36 00-2410)		
26 05 36 00-2442 EA Vertical Divider, 6" Deep, 12" Radius, 30 Degree, Steel Cable Tray	90.32	27.50
26 05 36 00-2443 EA Vertical Divider, 6" Deep, 12" Radius, 45 Degree, Steel Cable Tray	97.73	28.75
26 05 36 00-2444 EA Vertical Divider, 6" Deep, 12" Radius, 60 Degree, Steel Cable Tray	107.06	29.98
26 05 36 00-2445 EA Vertical Divider, 6" Deep, 12" Radius, 90 Degree, Steel Cable Tray	123.63	31.49
26 05 36 00-2446 EA Vertical Divider, 6" Deep, 24" Radius, 30 Degree, Steel Cable Tray	113.17	28.75
26 05 36 00-2447 EA Vertical Divider, 6" Deep, 24" Radius, 45 Degree, Steel Cable Tray	131.99	29.98
26 05 36 00-2448 EA Vertical Divider, 6" Deep, 24" Radius, 60 Degree, Steel Cable Tray	146.20	31.49
26 05 36 00-2449 EA Vertical Divider, 6" Deep, 24" Radius, 90 Degree, Steel Cable Tray	178.50	33.00
26 05 36 00-2450 EA Vertical Divider, 6" Deep, 36" Radius, 30 Degree, Steel Cable Tray	126.05	29.98
26 05 36 00-2451 EA Vertical Divider, 6" Deep, 36" Radius, 45 Degree, Steel Cable Tray	146.20	31.49
26 05 36 00-2452 EA Vertical Divider, 6" Deep, 36" Radius, 60 Degree, Steel Cable Tray	178.50	33.00
26 05 36 00-2453 EA Vertical Divider, 6" Deep, 36" Radius, 90 Degree, Steel Cable Tray	217.01	34.80
26 05 36 00-2454 Horizontal Dividers (26 05 36 00-2410)		
26 05 36 00-2455 EA 3" Deep Horizontal Fitting Divider Strip, Steel Cable Tray	79.00	19.94
26 05 36 00-2456 EA 4" Deep Horizontal Fitting Divider Strip, Steel Cable Tray	87.78	22.00
26 05 36 00-2457 EA 6" Deep Horizontal Fitting Divider Strip, Steel Cable Tray	106.02	24.48
26 05 36 00-2458 Aluminum Dividers (26 05 36 00-2121)		
26 05 36 00-2459 Straight Dividers (26 05 36 00-2458)		
26 05 36 00-2460 LF 3" Deep Aluminum Divider Strip, Straight	11.89	3.17
26 05 36 00-2461 LF 4" Deep Aluminum Divider Strip, Straight	14.01	3.44
26 05 36 00-2462 LF 6" Deep Aluminum Divider Strip, Straight	17.24	3.85
26 05 36 00-2463 3" Deep Vertical Dividers (26 05 36 00-2458)		
26 05 36 00-2464 EA Vertical Divider, 3" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray.....	64.49	22.82
26 05 36 00-2465 EA Vertical Divider, 3" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray.....	70.63	23.66
26 05 36 00-2466 EA Vertical Divider, 3" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray.....	77.33	24.48
26 05 36 00-2467 EA Vertical Divider, 3" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray.....	88.71	25.44
26 05 36 00-2468 EA Vertical Divider, 3" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray.....	86.39	25.44
26 05 36 00-2469 EA Vertical Divider, 3" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray.....	95.00	26.40
26 05 36 00-2470 EA Vertical Divider, 3" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray.....	109.52	27.50
26 05 36 00-2471 EA Vertical Divider, 3" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray.....	134.77	28.75
26 05 36 00-2472 EA Vertical Divider, 3" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray.....	115.07	28.75
26 05 36 00-2473 EA Vertical Divider, 3" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray.....	136.97	29.98
26 05 36 00-2474 EA Vertical Divider, 3" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray.....	164.79	31.49
26 05 36 00-2475 EA Vertical Divider, 3" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray.....	202.18	33.00
26 05 36 00-2476 4" Deep Vertical Dividers (26 05 36 00-2458)		
26 05 36 00-2477 EA Vertical Divider, 4" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray.....	76.77	23.66
26 05 36 00-2478 EA Vertical Divider, 4" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray.....	84.17	24.48
26 05 36 00-2479 EA Vertical Divider, 4" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray.....	92.19	25.44
26 05 36 00-2480 EA Vertical Divider, 4" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray.....	103.11	26.40
26 05 36 00-2481 EA Vertical Divider, 4" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray.....	101.95	26.40
26 05 36 00-2482 EA Vertical Divider, 4" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray.....	117.64	27.50
26 05 36 00-2483 EA Vertical Divider, 4" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray.....	132.45	28.75
26 05 36 00-2484 EA Vertical Divider, 4" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray.....	165.94	29.98



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2485	EA		Vertical Divider, 4" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray	136.18	27.50
26 05 36 00-2486	EA		Vertical Divider, 4" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray	163.74	28.75
26 05 36 00-2487	EA		Vertical Divider, 4" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray	191.43	29.98
26 05 36 00-2488	EA		Vertical Divider, 4" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray	230.85	31.49
26 05 36 00-2489 6" Deep Vertical Dividers (26 05 36 00-2489)					
26 05 36 00-2490	EA		Vertical Divider, 6" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray	85.03	26.40
26 05 36 00-2491	EA		Vertical Divider, 6" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray	94.46	27.50
26 05 36 00-2492	EA		Vertical Divider, 6" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray	98.85	28.75
26 05 36 00-2493	EA		Vertical Divider, 6" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray	110.32	29.98
26 05 36 00-2494	EA		Vertical Divider, 6" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray	106.05	27.50
26 05 36 00-2495	EA		Vertical Divider, 6" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray	130.14	28.75
26 05 36 00-2496	EA		Vertical Divider, 6" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray	140.45	29.98
26 05 36 00-2497	EA		Vertical Divider, 6" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray	175.22	31.49
26 05 36 00-2498	EA		Vertical Divider, 6" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray	139.41	28.75
26 05 36 00-2499	EA		Vertical Divider, 6" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray	172.89	29.98
26 05 36 00-2500	EA		Vertical Divider, 6" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray	197.24	31.49
26 05 36 00-2501	EA		Vertical Divider, 6" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray	228.83	33.00
26 05 36 00-2502 Horizontal Dividers (26 05 36 00-2498)					
26 05 36 00-2503	EA		3" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	73.67	18.84
26 05 36 00-2504	EA		4" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	80.73	20.63
26 05 36 00-2505	EA		6" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	99.37	22.82
26 05 36 00-2506 Cable Tray Wall Brackets (26 05 36 00-0001)					
26 05 36 00-2507 Wall Brackets (26 05 36 00-2506)					
26 05 36 00-2508	EA		6" Wide Cable Tray Wall Bracket.....	97.53	27.50
26 05 36 00-2509	EA		9" Wide Cable Tray Wall Bracket.....	101.07	28.75
26 05 36 00-2510	EA		12" Wide Cable Tray Wall Bracket.....	110.66	29.98
26 05 36 00-2511	EA		18" Wide Cable Tray Wall Bracket.....	117.43	31.49
26 05 36 00-2512	EA		24" Wide Cable Tray Wall Bracket.....	127.44	33.00
26 05 36 00-2513	EA		30" Wide Cable Tray Wall Bracket.....	151.01	34.80
26 05 36 00-2514	EA		36" Wide Cable Tray Wall Bracket.....	180.13	37.13
26 05 36 00-2515 Fiberglass Cable Tray (26 05 36 00-0001)					
26 05 36 00-2516 Ladder Bottom Fiberglass Cable Tray (26 05 36 00-2515)					
Note: Excludes hangers and support system.					
26 05 36 00-2517 Straight Tray Sections (26 05 36 00-2516)					
26 05 36 00-2518	LF		6" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	14.65	3.72
			For 9" Rung Spacing, Add	0.32	
			For 6" Rung Spacing, Add	1.37	
			For 4" Rung Spacing, Add	2.52	
			For 18" Rung Spacing, Deduct	-0.23	
			For Solid Bottom, Add	3.57	
			For Vented Trough Bottom, Add	4.35	
26 05 36 00-2519	LF		9" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	16.32	4.54
			For 9" Rung Spacing, Add	0.33	
			For 6" Rung Spacing, Add	1.42	
			For 4" Rung Spacing, Add	2.60	
			For 18" Rung Spacing, Deduct	-0.24	
			For Solid Bottom, Add	3.87	
			For Vented Trough Bottom, Add	4.64	
26 05 36 00-2520	LF		12" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	17.97	5.50
			For 9" Rung Spacing, Add	0.34	
			For 6" Rung Spacing, Add	1.46	
			For 4" Rung Spacing, Add	2.67	
			For 18" Rung Spacing, Deduct	-0.24	
			For Solid Bottom, Add	4.15	
			For Vented Trough Bottom, Add	4.92	
26 05 36 00-2521	LF		18" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	21.44	7.28
			For 9" Rung Spacing, Add	0.37	
			For 6" Rung Spacing, Add	1.57	
			For 4" Rung Spacing, Add	2.87	
			For 18" Rung Spacing, Deduct	-0.26	
			For Solid Bottom, Add	4.78	
			For Vented Trough Bottom, Add	5.55	
26 05 36 00-2522	LF		24" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	24.91	9.22
			For 9" Rung Spacing, Add	0.39	
			For 6" Rung Spacing, Add	1.67	
			For 4" Rung Spacing, Add	3.07	
			For 18" Rung Spacing, Deduct	-0.28	
			For Solid Bottom, Add	5.41	
			For Vented Trough Bottom, Add	6.18	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2523	LF		30" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	27.22	10.04
			For 9" Rung Spacing, Add	0.42	
			For 6" Rung Spacing, Add	1.81	
			For 4" Rung Spacing, Add	3.32	
			For 18" Rung Spacing, Deduct	-0.30	
			For Solid Bottom, Add	5.90	
			For Vented Trough Bottom, Add	6.73	
26 05 36 00-2524	LF		36" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	29.58	11.00
			For 9" Rung Spacing, Add	0.46	
			For 6" Rung Spacing, Add	1.96	
			For 4" Rung Spacing, Add	3.60	
			For 18" Rung Spacing, Deduct	-0.33	
			For Solid Bottom, Add	6.40	
			For Vented Trough Bottom, Add	7.29	
26 05 36 00-2525 90 Degree Horizontal Elbows (26 05 36 00-2516)					
26 05 36 00-2526	EA		6" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	78.27	27.50
			For 9" Rung Spacing, Add	1.30	
			For 6" Rung Spacing, Add	5.55	
			For 4" Rung Spacing, Add	10.18	
			For 18" Rung Spacing, Deduct	-0.93	
			For Solid Bottom, Add	17.29	
			For Vented Trough Bottom, Add	19.96	
			For 60 Degree Bend, Deduct	-16.34	
			For 45 Degree Bend, Deduct	-22.47	
			For 30 Degree Bend, Deduct	-28.61	
26 05 36 00-2527	EA		9" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	87.27	32.04
			For 9" Rung Spacing, Add	1.37	
			For 6" Rung Spacing, Add	5.87	
			For 4" Rung Spacing, Add	10.76	
			For 18" Rung Spacing, Deduct	-0.98	
			For Solid Bottom, Add	18.96	
			For Vented Trough Bottom, Add	21.67	
			For 60 Degree Bend, Deduct	-17.73	
			For 45 Degree Bend, Deduct	-24.44	
			For 30 Degree Bend, Deduct	-31.15	
26 05 36 00-2528	EA		12" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	101.77	40.30
			For 9" Rung Spacing, Add	1.44	
			For 6" Rung Spacing, Add	6.19	
			For 4" Rung Spacing, Add	11.35	
			For 18" Rung Spacing, Deduct	-1.03	
			For Solid Bottom, Add	21.45	
			For Vented Trough Bottom, Add	24.07	
			For 60 Degree Bend, Deduct	-19.67	
			For 45 Degree Bend, Deduct	-27.23	
			For 30 Degree Bend, Deduct	-34.80	
26 05 36 00-2529	EA		18" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	120.28	48.68
			For 9" Rung Spacing, Add	1.66	
			For 6" Rung Spacing, Add	7.11	
			For 4" Rung Spacing, Add	13.03	
			For 18" Rung Spacing, Deduct	-1.18	
			For Solid Bottom, Add	25.15	
			For Vented Trough Bottom, Add	28.07	
			For 60 Degree Bend, Deduct	-22.93	
			For 45 Degree Bend, Deduct	-31.79	
			For 30 Degree Bend, Deduct	-40.64	
26 05 36 00-2530	EA		24" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	135.99	55.97
			For 9" Rung Spacing, Add	1.82	
			For 6" Rung Spacing, Add	7.82	
			For 4" Rung Spacing, Add	14.33	
			For 18" Rung Spacing, Deduct	-1.30	
			For Solid Bottom, Add	28.21	
			For Vented Trough Bottom, Add	31.33	
			For 60 Degree Bend, Deduct	-25.58	
			For 45 Degree Bend, Deduct	-35.51	
			For 30 Degree Bend, Deduct	-45.43	
26 05 36 00-2531	EA		30" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	149.27	59.69
			For 9" Rung Spacing, Add	2.10	
			For 6" Rung Spacing, Add	8.98	
			For 4" Rung Spacing, Add	16.47	
			For 18" Rung Spacing, Deduct	-1.50	
			For Solid Bottom, Add	31.37	
			For Vented Trough Bottom, Add	35.13	
			For 60 Degree Bend, Deduct	-28.70	
			For 45 Degree Bend, Deduct	-39.76	
			For 30 Degree Bend, Deduct	-50.81	
26 05 36 00-2532	EA		36" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	165.05	64.23
			For 9" Rung Spacing, Add	2.41	
			For 6" Rung Spacing, Add	10.32	
			For 4" Rung Spacing, Add	18.91	
			For 18" Rung Spacing, Deduct	-1.72	
			For Solid Bottom, Add	35.07	
			For Vented Trough Bottom, Add	39.55	
			For 60 Degree Bend, Deduct	-32.32	
			For 45 Degree Bend, Deduct	-44.70	
			For 30 Degree Bend, Deduct	-57.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2533			Inside Or Outside Vertical Risers (26 05 36 00-2516)		
26 05 36 00-2534	EA		6" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	116.94	27.50
			For 9" Rung Spacing, Add	2.65	
			For 6" Rung Spacing, Add	11.35	
			For 4" Rung Spacing, Add	20.81	
			For 18" Rung Spacing, Deduct	-1.89	
			For Solid Bottom, Add	28.89	
			For Vented Trough Bottom, Add	35.43	
			For 60 Degree Bend, Deduct	-29.10	
			For 45 Degree Bend, Deduct	-39.49	
			For 30 Degree Bend, Deduct	-49.88	
26 05 36 00-2535	EA		9" Vertical Inside Or Outside Riser 90, Fiberglass	124.88	32.04
			For 9" Rung Spacing, Add	2.69	
			For 6" Rung Spacing, Add	11.51	
			For 4" Rung Spacing, Add	21.11	
			For 18" Rung Spacing, Deduct	-1.92	
			For Solid Bottom, Add	30.24	
			For Vented Trough Bottom, Add	36.72	
			For 60 Degree Bend, Deduct	-30.14	
			For 45 Degree Bend, Deduct	-40.99	
			For 30 Degree Bend, Deduct	-51.84	
26 05 36 00-2536	EA		12" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	138.32	40.30
			For 9" Rung Spacing, Add	2.72	
			For 6" Rung Spacing, Add	11.67	
			For 4" Rung Spacing, Add	21.40	
			For 18" Rung Spacing, Deduct	-1.95	
			For Solid Bottom, Add	32.42	
			For Vented Trough Bottom, Add	38.69	
			For 60 Degree Bend, Deduct	-31.73	
			For 45 Degree Bend, Deduct	-43.31	
			For 30 Degree Bend, Deduct	-54.89	
26 05 36 00-2537	EA		18" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	153.05	48.68
			For 9" Rung Spacing, Add	2.81	
			For 6" Rung Spacing, Add	12.02	
			For 4" Rung Spacing, Add	22.04	
			For 18" Rung Spacing, Deduct	-2.00	
			For Solid Bottom, Add	34.98	
			For Vented Trough Bottom, Add	41.18	
			For 60 Degree Bend, Deduct	-33.74	
			For 45 Degree Bend, Deduct	-46.20	
			For 30 Degree Bend, Deduct	-58.67	
26 05 36 00-2538	EA		24" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	166.17	55.97
			For 9" Rung Spacing, Add	2.88	
			For 6" Rung Spacing, Add	12.34	
			For 4" Rung Spacing, Add	22.63	
			For 18" Rung Spacing, Deduct	-2.06	
			For Solid Bottom, Add	37.27	
			For Vented Trough Bottom, Add	43.40	
			For 60 Degree Bend, Deduct	-35.54	
			For 45 Degree Bend, Deduct	-48.79	
			For 30 Degree Bend, Deduct	-62.03	
26 05 36 00-2539	EA		30" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	173.79	59.69
			For 9" Rung Spacing, Add	2.95	
			For 6" Rung Spacing, Add	12.66	
			For 4" Rung Spacing, Add	23.21	
			For 18" Rung Spacing, Deduct	-2.11	
			For Solid Bottom, Add	38.73	
			For Vented Trough Bottom, Add	44.93	
			For 60 Degree Bend, Deduct	-36.79	
			For 45 Degree Bend, Deduct	-50.54	
			For 30 Degree Bend, Deduct	-64.30	
26 05 36 00-2540	EA		36" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	189.51	64.23
			For 9" Rung Spacing, Add	3.26	
			For 6" Rung Spacing, Add	13.99	
			For 4" Rung Spacing, Add	25.64	
			For 18" Rung Spacing, Deduct	-2.33	
			For Solid Bottom, Add	42.41	
			For Vented Trough Bottom, Add	49.33	
			For 60 Degree Bend, Deduct	-40.40	
			For 45 Degree Bend, Deduct	-55.47	
			For 30 Degree Bend, Deduct	-70.54	
26 05 36 00-2541			Horizontal Tees (26 05 36 00-2516)		
26 05 36 00-2542	EA		6" Horizontal Tee, Fiberglass Cable Tray	168.45	68.76
			For 9" Rung Spacing, Add	2.29	
			For 6" Rung Spacing, Add	9.80	
			For 4" Rung Spacing, Add	17.96	
			For 18" Rung Spacing, Deduct	-1.63	
			For Solid Bottom, Add	35.06	
			For Vented Trough Bottom, Add	39.02	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2543	EA		9" Horizontal Tee, Fiberglass Cable Tray	188.92	80.73
			For 9" Rung Spacing, Add	2.38	
			For 6" Rung Spacing, Add	10.18	
			For 4" Rung Spacing, Add	18.67	
			For 18" Rung Spacing, Deduct	-1.70	
			For Solid Bottom, Add	38.52	
			For Vented Trough Bottom, Add	42.28	
26 05 36 00-2544	EA		12" Horizontal Tee, Fiberglass Cable Tray	214.89	96.27
			For 9" Rung Spacing, Add	2.47	
			For 6" Rung Spacing, Add	10.57	
			For 4" Rung Spacing, Add	19.38	
			For 18" Rung Spacing, Deduct	-1.76	
			For Solid Bottom, Add	42.81	
			For Vented Trough Bottom, Add	46.25	
26 05 36 00-2545	EA		18" Horizontal Tee, Fiberglass Cable Tray	239.85	108.23
			For 9" Rung Spacing, Add	2.71	
			For 6" Rung Spacing, Add	11.64	
			For 4" Rung Spacing, Add	21.33	
			For 18" Rung Spacing, Deduct	-1.94	
			For Solid Bottom, Add	47.61	
			For Vented Trough Bottom, Add	51.31	
26 05 36 00-2546	EA		24" Horizontal Tee, Fiberglass Cable Tray	252.38	112.77
			For 9" Rung Spacing, Add	2.91	
			For 6" Rung Spacing, Add	12.48	
			For 4" Rung Spacing, Add	22.89	
			For 18" Rung Spacing, Deduct	-2.08	
			For Solid Bottom, Add	50.34	
			For Vented Trough Bottom, Add	54.43	
26 05 36 00-2547	EA		30" Horizontal Tee, Fiberglass Cable Tray	270.73	119.23
			For 9" Rung Spacing, Add	3.22	
			For 6" Rung Spacing, Add	13.79	
			For 4" Rung Spacing, Add	25.29	
			For 18" Rung Spacing, Deduct	-2.30	
			For Solid Bottom, Add	54.40	
			For Vented Trough Bottom, Add	59.13	
26 05 36 00-2548	EA		36" Horizontal Tee, Fiberglass Cable Tray	294.12	128.45
			For 9" Rung Spacing, Add	3.56	
			For 6" Rung Spacing, Add	15.24	
			For 4" Rung Spacing, Add	27.93	
			For 18" Rung Spacing, Deduct	-2.54	
			For Solid Bottom, Add	59.36	
			For Vented Trough Bottom, Add	64.70	
26 05 36 00-2549 Horizontal Crosses (26 05 36 00-2516)					
26 05 36 00-2550	EA		6" Horizontal Cross, Fiberglass Cable Tray	262.48	119.23
			For 9" Rung Spacing, Add	2.93	
			For 6" Rung Spacing, Add	12.56	
			For 4" Rung Spacing, Add	23.02	
			For 18" Rung Spacing, Deduct	-2.09	
			For Solid Bottom, Add	51.93	
			For Vented Trough Bottom, Add	55.83	
26 05 36 00-2551	EA		9" Horizontal Cross, Fiberglass Cable Tray	278.71	128.45
			For 9" Rung Spacing, Add	3.02	
			For 6" Rung Spacing, Add	12.93	
			For 4" Rung Spacing, Add	23.70	
			For 18" Rung Spacing, Deduct	-2.15	
			For Solid Bottom, Add	54.73	
			For Vented Trough Bottom, Add	58.54	
26 05 36 00-2552	EA		12" Horizontal Cross, Fiberglass Cable Tray	294.95	137.67
			For 9" Rung Spacing, Add	3.10	
			For 6" Rung Spacing, Add	13.30	
			For 4" Rung Spacing, Add	24.38	
			For 18" Rung Spacing, Deduct	-2.22	
			For Solid Bottom, Add	57.54	
			For Vented Trough Bottom, Add	61.25	
26 05 36 00-2553	EA		18" Horizontal Cross, Fiberglass Cable Tray	315.76	146.74
			For 9" Rung Spacing, Add	3.35	
			For 6" Rung Spacing, Add	14.36	
			For 4" Rung Spacing, Add	26.32	
			For 18" Rung Spacing, Deduct	-2.39	
			For Solid Bottom, Add	61.72	
			For Vented Trough Bottom, Add	65.79	
26 05 36 00-2554	EA		24" Horizontal Cross, Fiberglass Cable Tray	334.94	155.95
			For 9" Rung Spacing, Add	3.54	
			For 6" Rung Spacing, Add	15.17	
			For 4" Rung Spacing, Add	27.81	
			For 18" Rung Spacing, Deduct	-2.53	
			For Solid Bottom, Add	65.41	
			For Vented Trough Bottom, Add	69.68	
26 05 36 00-2555	EA		30" Horizontal Cross, Fiberglass Cable Tray	357.64	165.17
			For 9" Rung Spacing, Add	3.85	
			For 6" Rung Spacing, Add	16.52	
			For 4" Rung Spacing, Add	30.28	
			For 18" Rung Spacing, Deduct	-2.75	
			For Solid Bottom, Add	70.16	
			For Vented Trough Bottom, Add	74.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2556	EA		36" Horizontal Cross, Fiberglass Cable Tray	387.07	176.99
			For 9" Rung Spacing, Add	4.26	
			For 6" Rung Spacing, Add	18.24	
			For 4" Rung Spacing, Add	33.45	
			For 18" Rung Spacing, Deduct	-3.04	
			For Solid Bottom, Add	76.31	
			For Vented Trough Bottom, Add	81.83	
26 05 36 00-2557			Horizontal Wyes (26 05 36 00-2516)		
26 05 36 00-2558	EA		6" Horizontal Wye, Fiberglass Cable Tray	161.84	68.76
			For 9" Rung Spacing, Add	2.05	
			For 6" Rung Spacing, Add	8.81	
			For 4" Rung Spacing, Add	16.14	
			For 18" Rung Spacing, Deduct	-1.47	
			For Solid Bottom, Add	33.08	
			For Vented Trough Bottom, Add	36.37	
26 05 36 00-2559	EA		9" Horizontal Wye, Fiberglass Cable Tray	171.10	73.44
			For 9" Rung Spacing, Add	2.14	
			For 6" Rung Spacing, Add	9.16	
			For 4" Rung Spacing, Add	16.80	
			For 18" Rung Spacing, Deduct	-1.53	
			For Solid Bottom, Add	34.83	
			For Vented Trough Bottom, Add	38.18	
26 05 36 00-2560	EA		12" Horizontal Wye, Fiberglass Cable Tray	207.82	96.27
			For 9" Rung Spacing, Add	2.22	
			For 6" Rung Spacing, Add	9.51	
			For 4" Rung Spacing, Add	17.44	
			For 18" Rung Spacing, Deduct	-1.59	
			For Solid Bottom, Add	40.69	
			For Vented Trough Bottom, Add	43.42	
26 05 36 00-2561	EA		18" Horizontal Wye, Fiberglass Cable Tray	232.08	108.23
			For 9" Rung Spacing, Add	2.44	
			For 6" Rung Spacing, Add	10.47	
			For 4" Rung Spacing, Add	19.19	
			For 18" Rung Spacing, Deduct	-1.74	
			For Solid Bottom, Add	45.28	
			For Vented Trough Bottom, Add	48.20	
26 05 36 00-2562	EA		24" Horizontal Wye, Fiberglass Cable Tray	243.90	112.77
			For 9" Rung Spacing, Add	2.62	
			For 6" Rung Spacing, Add	11.21	
			For 4" Rung Spacing, Add	20.55	
			For 18" Rung Spacing, Deduct	-1.87	
			For Solid Bottom, Add	47.80	
			For Vented Trough Bottom, Add	51.04	
26 05 36 00-2563	EA		30" Horizontal Wye, Fiberglass Cable Tray	261.53	119.23
			For 9" Rung Spacing, Add	2.90	
			For 6" Rung Spacing, Add	12.41	
			For 4" Rung Spacing, Add	22.76	
			For 18" Rung Spacing, Deduct	-2.07	
			For Solid Bottom, Add	51.64	
			For Vented Trough Bottom, Add	55.45	
26 05 36 00-2564	EA		36" Horizontal Wye, Fiberglass Cable Tray	283.96	128.45
			For 9" Rung Spacing, Add	3.20	
			For 6" Rung Spacing, Add	13.71	
			For 4" Rung Spacing, Add	25.14	
			For 18" Rung Spacing, Deduct	-2.29	
			For Solid Bottom, Add	56.31	
			For Vented Trough Bottom, Add	60.64	
26 05 36 00-2565			Straight Reducers (26 05 36 00-2516)		
26 05 36 00-2566	EA		9" To 6" Reducer, Fiberglass Cable Tray	74.50	27.50
			For 9" Rung Spacing, Add	1.16	
			For 6" Rung Spacing, Add	4.99	
			For 4" Rung Spacing, Add	9.14	
			For 18" Rung Spacing, Deduct	-0.83	
			For Solid Bottom, Add	16.16	
			For Vented Trough Bottom, Add	18.45	
26 05 36 00-2567	EA		12" To 9" Reducer, Fiberglass Cable Tray	81.86	32.04
			For 9" Rung Spacing, Add	1.18	
			For 6" Rung Spacing, Add	5.06	
			For 4" Rung Spacing, Add	9.28	
			For 18" Rung Spacing, Deduct	-0.84	
			For Solid Bottom, Add	17.34	
			For Vented Trough Bottom, Add	19.51	
26 05 36 00-2568	EA		18" To 12" Reducer, Fiberglass Cable Tray	89.20	36.72
			For 9" Rung Spacing, Add	1.20	
			For 6" Rung Spacing, Add	5.13	
			For 4" Rung Spacing, Add	9.40	
			For 18" Rung Spacing, Deduct	-0.85	
			For Solid Bottom, Add	18.51	
			For Vented Trough Bottom, Add	20.55	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2569	EA	24" To 18" Reducer, Fiberglass Cable Tray	.....	95.87	40.30
		For 9" Rung Spacing, Add	.....	1.24	
		For 6" Rung Spacing, Add	.....	5.30	
		For 4" Rung Spacing, Add	.....	9.72	
		For 18" Rung Spacing, Deduct	.....	-0.88	
		For Solid Bottom, Add	.....	19.68	
		For Vented Trough Bottom, Add	.....	21.71	
26 05 36 00-2570	EA	30" To 24" Reducer, Fiberglass Cable Tray	.....	107.27	44.01
		For 9" Rung Spacing, Add	.....	1.44	
		For 6" Rung Spacing, Add	.....	6.19	
		For 4" Rung Spacing, Add	.....	11.35	
		For 18" Rung Spacing, Deduct	.....	-1.03	
		For Solid Bottom, Add	.....	22.28	
		For Vented Trough Bottom, Add	.....	24.76	
26 05 36 00-2571	EA	36" To 30" Reducer, Fiberglass Cable Tray	.....	120.82	48.68
		For 9" Rung Spacing, Add	.....	1.68	
		For 6" Rung Spacing, Add	.....	7.19	
		For 4" Rung Spacing, Add	.....	13.18	
		For 18" Rung Spacing, Deduct	.....	-1.20	
		For Solid Bottom, Add	.....	25.31	
		For Vented Trough Bottom, Add	.....	28.28	
26 05 36 00-2572 Vertical Tees (26 05 36 00-2516)					
26 05 36 00-2573	EA	6" Vertical Tee, Fiberglass Cable Tray	.....	227.86	68.76
		For 9" Rung Spacing, Add	.....	4.37	
		For 6" Rung Spacing, Add	.....	18.71	
		For 4" Rung Spacing, Add	.....	34.30	
		For 18" Rung Spacing, Deduct	.....	-3.12	
		For Solid Bottom, Add	.....	52.89	
		For Vented Trough Bottom, Add	.....	62.78	
26 05 36 00-2574	EA	9" Vertical Tee, Fiberglass Cable Tray	.....	236.28	73.44
		For 9" Rung Spacing, Add	.....	4.42	
		For 6" Rung Spacing, Add	.....	18.94	
		For 4" Rung Spacing, Add	.....	34.72	
		For 18" Rung Spacing, Deduct	.....	-3.16	
		For Solid Bottom, Add	.....	54.38	
		For Vented Trough Bottom, Add	.....	64.26	
26 05 36 00-2575	EA	12" Vertical Tee, Fiberglass Cable Tray	.....	272.18	96.27
		For 9" Rung Spacing, Add	.....	4.47	
		For 6" Rung Spacing, Add	.....	19.17	
		For 4" Rung Spacing, Add	.....	35.14	
		For 18" Rung Spacing, Deduct	.....	-3.19	
		For Solid Bottom, Add	.....	59.99	
		For Vented Trough Bottom, Add	.....	69.16	
26 05 36 00-2576	EA	18" Vertical Tee, Fiberglass Cable Tray	.....	293.61	108.23
		For 9" Rung Spacing, Add	.....	4.60	
		For 6" Rung Spacing, Add	.....	19.70	
		For 4" Rung Spacing, Add	.....	36.11	
		For 18" Rung Spacing, Deduct	.....	-3.28	
		For Solid Bottom, Add	.....	63.74	
		For Vented Trough Bottom, Add	.....	72.81	
26 05 36 00-2577	EA	24" Vertical Tee, Fiberglass Cable Tray	.....	303.78	112.77
		For 9" Rung Spacing, Add	.....	4.71	
		For 6" Rung Spacing, Add	.....	20.19	
		For 4" Rung Spacing, Add	.....	37.02	
		For 18" Rung Spacing, Deduct	.....	-3.37	
		For Solid Bottom, Add	.....	65.76	
		For Vented Trough Bottom, Add	.....	74.99	
26 05 36 00-2578	EA	30" Vertical Tee, Fiberglass Cable Tray	.....	316.46	119.23
		For 9" Rung Spacing, Add	.....	4.82	
		For 6" Rung Spacing, Add	.....	20.65	
		For 4" Rung Spacing, Add	.....	37.86	
		For 18" Rung Spacing, Deduct	.....	-3.44	
		For Solid Bottom, Add	.....	68.12	
		For Vented Trough Bottom, Add	.....	77.42	
26 05 36 00-2579	EA	36" Vertical Tee, Fiberglass Cable Tray	.....	344.66	128.45
		For 9" Rung Spacing, Add	.....	5.32	
		For 6" Rung Spacing, Add	.....	22.82	
		For 4" Rung Spacing, Add	.....	41.83	
		For 18" Rung Spacing, Deduct	.....	-3.80	
		For Solid Bottom, Add	.....	74.52	
		For Vented Trough Bottom, Add	.....	84.92	
26 05 36 00-2580 Flextray™ Cable Tray (26 05 36 00-0001)					
26 05 36 00-2581 Flextray™ Cable Tray Straight Sections (26 05 36 00-2580)					
Note: Includes splicing and splice bars.					
26 05 36 00-2582	LF	2" Deep x 2" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	.....	21.54	8.67
26 05 36 00-2583	LF	2" Deep x 4" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	.....	25.81	9.24
26 05 36 00-2584	LF	2" Deep x 6" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	.....	27.08	9.66
26 05 36 00-2585	LF	2" Deep x 8" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	.....	28.46	10.15
26 05 36 00-2586	LF	2" Deep x 12" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	.....	30.32	10.64
26 05 36 00-2587	LF	2" Deep x 16" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	.....	32.35	11.14
26 05 36 00-2588	LF	2" Deep x 18" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	.....	33.26	11.63



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2589	LF	2" Deep x 20" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	34.45	11.96
26 05 36 00-2590	LF	2" Deep x 24" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	35.24	12.29
26 05 36 00-2591	LF	4" Deep x 4" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	27.33	10.18
26 05 36 00-2592	LF	4" Deep x 6" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	29.42	10.59
26 05 36 00-2593	LF	4" Deep x 8" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	31.64	11.14
26 05 36 00-2594	LF	4" Deep x 12" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	33.48	11.69
26 05 36 00-2595	LF	4" Deep x 16" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	35.47	12.24
26 05 36 00-2596	LF	4" Deep x 18" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	37.98	12.78
26 05 36 00-2597	LF	4" Deep x 20" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	39.91	13.21
26 05 36 00-2598	LF	4" Deep x 24" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	41.40	13.48
26 05 36 00-2599	LF	4" Deep x 30" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	50.57	14.44
26 05 36 00-2600	LF	6" Deep x 8" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	34.97	12.24
26 05 36 00-2601	LF	6" Deep x 12" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	38.94	12.78
26 05 36 00-2602	LF	6" Deep x 16" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	40.74	13.34
26 05 36 00-2603	LF	6" Deep x 18" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	43.57	14.03
26 05 36 00-2604	LF	6" Deep x 20" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	44.94	14.30
26 05 36 00-2605	LF	6" Deep x 24" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish	52.87	14.72
26 05 36 00-2606 Flextray™ Cable Tray Bends (26 05 36 00-2580)				
Note: Includes field fabricated bend and 90 degree kit.				
26 05 36 00-2607	EA	2" Deep x 2" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	16.19	6.46
Note: Field Fabricated				
26 05 36 00-2608	EA	2" Deep x 4" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	19.36	6.87
Note: Field Fabricated				
26 05 36 00-2609	EA	2" Deep x 6" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	27.08	9.63
Note: Field Fabricated				
26 05 36 00-2610	EA	2" Deep x 8" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	42.77	15.27
Note: Field Fabricated				
26 05 36 00-2611	EA	2" Deep x 12" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	60.64	21.32
Note: Field Fabricated				
26 05 36 00-2612	EA	2" Deep x 16" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	80.91	27.91
Note: Field Fabricated				
26 05 36 00-2613	EA	2" Deep x 18" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	94.94	34.93
Note: Field Fabricated				
26 05 36 00-2614	EA	2" Deep x 20" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	113.39	41.94
Note: Field Fabricated				
26 05 36 00-2615	EA	2" Deep x 24" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	140.98	49.24
Note: Field Fabricated				
26 05 36 00-2616	EA	4" Deep x 4" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	20.44	7.56
Note: Field Fabricated				
26 05 36 00-2617	EA	4" Deep x 6" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	29.46	10.59
Note: Field Fabricated				
26 05 36 00-2618	EA	4" Deep x 8" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	47.44	16.78
Note: Field Fabricated				
26 05 36 00-2619	EA	4" Deep x 12" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	66.99	23.38
Note: Field Fabricated				
26 05 36 00-2620	EA	4" Deep x 16" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	88.63	30.67
Note: Field Fabricated				
26 05 36 00-2621	EA	4" Deep x 18" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	108.10	38.37
Note: Field Fabricated				
26 05 36 00-2622	EA	4" Deep x 20" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	130.67	46.07
Note: Field Fabricated				
26 05 36 00-2623	EA	4" Deep x 24" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	165.64	54.05
Note: Field Fabricated				
26 05 36 00-2624	EA	4" Deep x 30" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	252.89	72.20
Note: Field Fabricated				
26 05 36 00-2625	EA	6" Deep x 8" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	52.39	18.30
Note: Field Fabricated				
26 05 36 00-2626	EA	6" Deep x 12" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	77.92	25.58
Note: Field Fabricated				
26 05 36 00-2627	EA	6" Deep x 16" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	101.85	33.42
Note: Field Fabricated				
26 05 36 00-2628	EA	6" Deep x 18" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	123.67	41.94
Note: Field Fabricated				
26 05 36 00-2629	EA	6" Deep x 20" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	146.78	50.20
Note: Field Fabricated				
26 05 36 00-2630	EA	6" Deep x 24" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish	211.45	58.99
Note: Field Fabricated				
26 05 36 00-2631 Flextray™ Cable Tray Brackets (26 05 36 00-2580)				
26 05 36 00-2632	EA	6" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™	41.81	18.16
26 05 36 00-2633	EA	8" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™	43.72	18.16
26 05 36 00-2634	EA	12" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™	46.97	18.16
26 05 36 00-2635	EA	16" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™	55.64	19.81
26 05 36 00-2636	EA	18" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™	58.48	19.81
26 05 36 00-2637	EA	20" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™	59.43	19.81
26 05 36 00-2638	EA	24" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™	60.27	19.81

26 05 39 Underfloor Raceways for Electrical Systems (26 05)

26 Electrical**26 05 Common Work Results for Electrical****26 05 39 Underfloor Raceways for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 39 00-0001		Underfloor Ducts (26 05 39)		
26 05 39 00-0002		Straight Duct Sections 10' Long, 14 Gauge Steel (26 05 39 00-0001)		
26 05 39 00-0003		Standard Ducts, 3.8 Square Inches (26 05 39 00-0002)		
26 05 39 00-0004	EA	Standard Underfloor Straight Duct Blank Without Inserts, 10' Long, 14 Gauge, 3.8 Square Inches	109.13	24.21
26 05 39 00-0005	EA	Standard Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 3.8 Square Inches	136.74	28.34
26 05 39 00-0006		Large Capacity Ducts, 8.9 Square Inches (26 05 39 00-0002)		
26 05 39 00-0007	EA	Large Capacity Underfloor Straight Duct Blank Without Inserts, 10' Long, 14 Gauge, 8.9 Square Inches	178.87	30.67
26 05 39 00-0008	EA	Large Capacity Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 8.9 Square Inches	204.50	33.97
26 05 39 00-0009		Junction Boxes (26 05 39 00-0001)		
26 05 39 00-0010		One Level Junction Boxes (26 05 39 00-0009)		
26 05 39 00-0011	EA	1 Level UF Duct Junction Box, 1 Standard Duct Without Partitions In Box	273.09	48.13
26 05 39 00-0012	EA	1 Level UF Duct Junction Box, 1 Large Duct Without Partitions In Box	308.25	51.57
26 05 39 00-0013	EA	1 Level UF Duct Junction Box, 1 Standard And Large Duct Per Side With Partitions In Box	485.19	48.13
		Note: Isolate each duct and form a continuous raceway through the box in both directions.		
26 05 39 00-0014	EA	1 Level UF Duct Junction Box, 2 Standard Ducts Per Side With Partitions In Box	335.91	51.57
26 05 39 00-0015	EA	1 Level UF Duct Junction Box, 3 Standard Ducts Per Side With Partitions In Box	528.87	67.80
26 05 39 00-0016	EA	1 Level UF Duct Junction Box, 2 Large Ducts Per Side With Partitions In Box Duct	735.44	73.71
26 05 39 00-0017		Two Level Junction Boxes (26 05 39 00-0009)		
26 05 39 00-0018	EA	2 Level UF Duct Junction Box, 2 Standard Duct Cross, Intersects At Right Angles, Raceway Bottom Level	1,100.99	48.68
		Note: Accepts two standard ducts to form a continuous raceway at right angles to the top level raceway.		
26 05 39 00-0019	EA	2 Level UF Duct Junction Box, 2 Large Duct Bottom Level: Accepts Two Large Capacity Ducts	1,265.43	51.57
26 05 39 00-0020		Elbow Fittings (26 05 39 00-0001)		
26 05 39 00-0021		90 Degree Horizontal Elbow (26 05 39 00-0020)		
26 05 39 00-0022	EA	Underfloor Standard Duct Horizontal Elbow Fitting, 90 Degree	131.60	17.74
26 05 39 00-0023	EA	Underfloor Large Duct Horizontal Elbow Fitting, 90 Degree	135.40	17.74
26 05 39 00-0024		90 Degree Vertical Elbow (26 05 39 00-0020)		
26 05 39 00-0025	EA	Underfloor Standard Duct Vertical Elbow Fitting, 90 Degree	76.28	17.74
26 05 39 00-0026	EA	Underfloor Large Duct Vertical Elbow Fitting, 90 Degree	77.79	17.74
26 05 39 00-0027		Offset Elbow (26 05 39 00-0020)		
		Note: Two elbows required for crossover or crossunder.		
26 05 39 00-0028	EA	Underfloor Standard Duct Offset Elbow 45 Degree, 2 Required For Over-Under	76.28	20.63
26 05 39 00-0029	EA	Underfloor Large Duct Offset Elbow 45 Degree, 2 Required For Over-Under	77.79	20.63
26 05 39 00-0030		Couplings (26 05 39 00-0001)		
26 05 39 00-0031		Sleeve Couplings (26 05 39 00-0030)		
26 05 39 00-0032	EA	Underfloor Standard Duct Sleeve Coupling	51.66	27.50
26 05 39 00-0033	EA	Underfloor Large Duct Sleeve Coupling	81.23	27.50
26 05 39 00-0034		Expansion Couplings (26 05 39 00-0030)		
26 05 39 00-0035	EA	Underfloor Standard Duct Expansion Coupling	110.50	27.50
26 05 39 00-0036	EA	Underfloor Large Duct Expansion Coupling	112.40	29.02
26 05 39 00-0037		Reducing Couplings (26 05 39 00-0030)		
26 05 39 00-0038	EA	Reducing Coupling, Large To Standard Duct Underfloor Duct Coupling	98.65	4.13
26 05 39 00-0039		Duct Supports (26 05 39 00-0001)		
26 05 39 00-0040		Combination Support And Coupling (26 05 39 00-0039)		
		Note: Includes leveling legs and anchoring feet.		
26 05 39 00-0041	EA	1 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	118.98	57.76
26 05 39 00-0042	EA	2 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	133.04	57.76
26 05 39 00-0043	EA	3 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	147.21	57.76
26 05 39 00-0044	EA	1 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	133.04	64.64
26 05 39 00-0045	EA	2 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	161.70	64.64
26 05 39 00-0046	EA	1 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	147.21	68.76
26 05 39 00-0047	EA	2 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	147.21	68.76
26 05 39 00-0048	EA	1 Standard And 2 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	161.70	68.76



Electrical		26
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 39 00-0049		Duct Support Only (26 05 39 00-0039) Note: Includes leveling legs and anchoring feet.		
26 05 39 00-0050	EA	1 Underfloor Duct Support Only With Leveling Legs And Anchor Feet.....	106.55	50.89
26 05 39 00-0051	EA	2 Underfloor Duct Support Only With Leveling Legs And Anchor Feet.....	125.22	50.89
26 05 39 00-0052	EA	3 Underfloor Duct Support Only With Leveling Legs And Anchor Feet.....	145.08	50.89
26 05 39 00-0053		Underfloor Duct Accessories (26 05 39 00-0001)		
26 05 39 00-0054		Plugs For Unused Junction Box Openings And Duct Ends (26 05 39 00-0053)		
26 05 39 00-0055	EA	Standard Plugs For Unused Junction Box Opening And Underfloor Duct Ends	31.48	4.13
26 05 39 00-0056	EA	Large Plugs For Unused Junction Box Opening And Underfloor Duct Ends	32.20	4.13
26 05 39 00-0057		Conduit Adapters (26 05 39 00-0053)		
26 05 39 00-0058	EA	One 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter	39.12	6.87
26 05 39 00-0059	EA	Two 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter	41.68	6.87
26 05 39 00-0060	EA	One 2" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter	40.54	6.87
26 05 39 00-0061	EA	Three 1-1/4" Conduit To Large Duct Underfloor Conduit To Duct, Adapter	41.99	6.87
26 05 39 00-0062		Holders And Caps (26 05 39 00-0053)		
26 05 39 00-0063	EA	Tile Holder, Underfloor Duct Accessories	259.52	57.76
26 05 39 00-0064	EA	Terrazzo Holder, Underfloor Duct Accessories	478.69	57.76
26 05 39 00-0065	EA	Closing Caps For Inserts, Underfloor Duct Accessories	3.45	1.37
26 05 39 00-0066		Underfloor Dust Pans (26 05 39 00-0001)		
26 05 39 00-0067	EA	Underfloor Dust Carpet Pan.....	107.02	7.54
26 05 43 Underground Ducts and Raceways for Electrical Systems (26 05)				
Note: Includes warning tape. See CSI section 33 71 19 23-0000 for underground trenched ductbank.				
26 05 43 00-0001		Precast Concrete Trenches, One Piece Pedestrian Trench (26 05 43) Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0002		10" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0003	LF	Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench	96.46	
26 05 43 00-0004	LF	Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench	92.33	
26 05 43 00-0005	LF	Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench	133.97	
26 05 43 00-0006	LF	Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench	128.23	
26 05 43 00-0007	EA	End Wall, 10" Wide x 15" Deep Pedestrian Trench	65.84	
26 05 43 00-0008	EA	End Wall, 10" Wide x 24" Deep Pedestrian Trench	78.37	
26 05 43 00-0009	LF	Lid, Concrete, 10" Wide Pedestrian Trench.....	64.31	
26 05 43 00-0010		20" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0011	LF	Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench	122.49	
26 05 43 00-0012	LF	Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench	115.17	
26 05 43 00-0013	LF	Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench	166.18	
26 05 43 00-0014	LF	Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench	159.51	
26 05 43 00-0015	EA	End Wall, 20" Wide x 15" Deep Pedestrian Trench	82.61	
26 05 43 00-0016	EA	End Wall, 20" Wide x 24" Deep Pedestrian Trench	120.35	
26 05 43 00-0017	LF	Lid, Concrete, 20" Wide Pedestrian Trench.....	80.42	
26 05 43 00-0018		30" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0019	LF	Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench	156.98	
26 05 43 00-0020	LF	Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench	183.78	
26 05 43 00-0021	LF	Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench	196.31	
26 05 43 00-0022	LF	Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench	188.72	
26 05 43 00-0023	EA	End Wall, 30" Wide x 15" Deep Pedestrian Trench	118.71	
26 05 43 00-0024	EA	End Wall, 30" Wide x 24" Deep Pedestrian Trench	160.53	
26 05 43 00-0025	LF	Lid, Concrete, 30" Wide Pedestrian Trench.....	100.32	
26 05 43 00-0026		40" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0027	LF	Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench	188.37	
26 05 43 00-0028	LF	Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench	181.47	
26 05 43 00-0029	LF	Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench	230.50	
26 05 43 00-0030	LF	Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench	222.06	
26 05 43 00-0031	EA	End Wall, 40" Wide x 15" Deep Pedestrian Trench	151.95	
26 05 43 00-0032	EA	End Wall, 40" Wide x 24" Deep Pedestrian Trench	205.25	
26 05 43 00-0033	LF	Lid, Concrete, 40" Wide Pedestrian Trench.....	118.71	
26 05 43 00-0034		Precast Concrete Trenches, One Piece Medium Vehicle Trench (26 05 43) Note: Rated for 7,000 Lb. Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 43 Underground Ducts and Raceways for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0035 10" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0036 LF Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench.....	116.76	
26 05 43 00-0037 LF Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench.....	111.40	
26 05 43 00-0038 LF Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	162.13	
26 05 43 00-0039 LF Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	154.71	
26 05 43 00-0040 EA End Wall, 10" Wide x 15" Deep Medium Vehicle Trench.....	77.12	
26 05 43 00-0041 EA End Wall, 10" Wide x 24" Deep Medium Vehicle Trench.....	90.19	
26 05 43 00-0042 LF Lid, Concrete 10" Wide Medium Vehicle Trench.....	77.84	
26 05 43 00-0043 LF Lid, Galvanized Steel 10" Wide Medium Vehicle Trench.....	341.84	
26 05 43 00-0044 20" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0045 LF Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	147.26	
26 05 43 00-0046 LF Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	137.83	
26 05 43 00-0047 LF Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	198.85	
26 05 43 00-0048 LF Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	190.23	
26 05 43 00-0049 EA End Wall, 20" Wide x 15" Deep Medium Vehicle Trench.....	95.66	
26 05 43 00-0050 EA End Wall, 20" Wide x 24" Deep Medium Vehicle Trench.....	139.56	
26 05 43 00-0051 LF Lid, Concrete 20" Wide Medium Vehicle Trench.....	97.34	
26 05 43 00-0052 LF Lid, Galvanized Steel 20" Wide Medium Vehicle Trench.....	453.27	
26 05 43 00-0053 30" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0054 LF Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	149.46	
26 05 43 00-0055 LF Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	178.55	
26 05 43 00-0056 LF Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	233.49	
26 05 43 00-0057 LF Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	223.68	
26 05 43 00-0058 EA End Wall, 30" Wide x 15" Deep Medium Vehicle Trench.....	136.72	
26 05 43 00-0059 EA End Wall, 30" Wide x 24" Deep Medium Vehicle Trench.....	187.18	
26 05 43 00-0060 LF Lid, Concrete 30" Wide Medium Vehicle Trench.....	121.75	
26 05 43 00-0061 LF Lid, Galvanized Steel 30" Wide Medium Vehicle Trench.....	565.80	
26 05 43 00-0062 40" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0063 LF Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	222.17	
26 05 43 00-0064 LF Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	213.25	
26 05 43 00-0065 LF Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	271.95	
26 05 43 00-0066 LF Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	261.02	
26 05 43 00-0067 EA End Wall, 40" Wide x 15" Deep Medium Vehicle Trench.....	175.01	
26 05 43 00-0068 EA End Wall, 40" Wide x 24" Deep Medium Vehicle Trench.....	239.29	
26 05 43 00-0069 LF Lid, Concrete 40" Wide Medium Vehicle Trench.....	143.48	
26 05 43 00-0070 LF Lid, Galvanized Steel 40" Wide Medium Vehicle Trench.....	769.10	
26 05 43 00-0071 Precast Concrete Trenches, One Piece H20 Road Crossing Trench (26 05 43)		
Note: H20 Rated for 32,000 Lb. Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0072 10" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0073 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	250.58	
26 05 43 00-0074 LF Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	238.55	
26 05 43 00-0075 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	313.27	
26 05 43 00-0076 LF Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	298.10	
26 05 43 00-0077 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	240.67	
26 05 43 00-0078 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	229.22	
26 05 43 00-0079 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	303.36	
26 05 43 00-0080 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	288.80	
26 05 43 00-0081 EA End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	166.31	
26 05 43 00-0082 EA End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	225.17	
26 05 43 00-0083 EA End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	150.59	
26 05 43 00-0084 EA End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	209.11	
26 05 43 00-0085 LF Lid, Concrete 10" Wide Road Crossing Trench.....	116.01	
26 05 43 00-0086 LF Lid, Galvanized Steel 10" Wide Road Crossing Trench.....	370.88	
26 05 43 00-0087 20" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0088 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	266.22	
26 05 43 00-0089 LF Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	253.88	
26 05 43 00-0090 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	352.49	
26 05 43 00-0091 LF Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	335.98	
26 05 43 00-0092 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	266.22	
26 05 43 00-0093 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	253.88	
26 05 43 00-0094 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	342.58	
26 05 43 00-0095 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	326.69	
26 05 43 00-0096 EA End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	237.48	
26 05 43 00-0097 EA End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	323.40	
26 05 43 00-0098 EA End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	214.58	
26 05 43 00-0099 EA End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	300.51	
26 05 43 00-0100 LF Lid, Concrete 20" Wide Road Crossing Trench.....	129.53	
26 05 43 00-0101 LF Lid, Galvanized Steel 20" Wide Road Crossing Trench.....	549.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0102 30" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0103 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	315.14	
26 05 43 00-0104 LF Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	301.02	
26 05 43 00-0105 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	389.59	
26 05 43 00-0106 LF Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	372.06	
26 05 43 00-0107 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	305.23	
26 05 43 00-0108 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	291.69	
26 05 43 00-0109 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	379.68	
26 05 43 00-0110 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	362.42	
26 05 43 00-0111 EA End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	317.15	
26 05 43 00-0112 EA End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	419.56	
26 05 43 00-0113 EA End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	287.08	
26 05 43 00-0114 EA End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	389.48	
26 05 43 00-0115 LF Lid, Concrete 30" Wide Road Crossing Trench	163.85	
26 05 43 00-0116 LF Lid, Galvanized Steel 30" Wide Road Crossing Trench	689.61	
26 05 43 00-0117 40" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0118 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	348.54	
26 05 43 00-0119 LF Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	333.37	
26 05 43 00-0120 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	429.05	
26 05 43 00-0121 LF Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	410.01	
26 05 43 00-0122 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	338.63	
26 05 43 00-0123 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	324.07	
26 05 43 00-0124 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	419.14	
26 05 43 00-0125 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	400.68	
26 05 43 00-0126 EA End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	393.72	
26 05 43 00-0127 EA End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	520.53	
26 05 43 00-0128 EA End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	356.81	
26 05 43 00-0129 EA End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	483.62	
26 05 43 00-0130 LF Lid, Concrete 40" Wide Road Crossing Trench	197.99	
26 05 43 00-0131 LF Lid, Galvanized Steel 40" Wide Road Crossing Trench	937.57	
26 05 46 Utility Poles for Electrical Systems (26 05)		
26 05 46 00-0001 Wood Poles (26 05 46)		
26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 Lb. Retention (26 05 46 00-0001)		
Note: Machine dig and set.		
26 05 46 00-0003 EA 25' Treated Wood Pole, Class 3, Machine Dig And Set	1,069.46	350.45
For Class 1 Pole, Add	128.95	
For Class 2 Pole, Add	73.69	
For Class 4 Pole, Deduct	-36.84	
For Class 5 Pole, Deduct	-110.53	
For Class 6 Pole, Deduct	-147.38	
26 05 46 00-0004 EA 30' Treated Wood Pole, Class 3, Machine Dig And Set	1,277.93	388.82
For Class 1 Pole, Add	175.08	
For Class 2 Pole, Add	100.05	
For Class 4 Pole, Deduct	-50.02	
For Class 5 Pole, Deduct	-150.07	
For Class 6 Pole, Deduct	-200.09	
26 05 46 00-0005 EA 35' Treated Wood Pole, Class 3, Machine Dig And Set	1,657.41	514.25
For Class 1 Pole, Add	220.16	
For Class 2 Pole, Add	125.81	
For Class 4 Pole, Deduct	-62.90	
For Class 5 Pole, Deduct	-188.71	
For Class 6 Pole, Deduct	-251.62	
26 05 46 00-0006 EA 40' Treated Wood Pole, Class 3, Machine Dig And Set	1,895.03	565.62
For Class 1 Pole, Add	267.34	
For Class 2 Pole, Add	152.77	
For Class 4 Pole, Deduct	-76.38	
For Class 5 Pole, Deduct	-229.15	
For Class 6 Pole, Deduct	-305.53	
26 05 46 00-0007 EA 45' Treated Wood Pole, Class 3, Machine Dig And Set	2,164.68	629.97
For Class 1 Pole, Add	316.61	
For Class 2 Pole, Add	180.92	
For Class 4 Pole, Deduct	-90.46	
For Class 5 Pole, Deduct	-271.38	
For Class 6 Pole, Deduct	-361.84	
26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set	2,462.39	707.02
For Class 1 Pole, Add	366.94	
For Class 2 Pole, Add	209.68	
For Class 4 Pole, Deduct	-104.84	
For Class 5 Pole, Deduct	-314.52	
For Class 6 Pole, Deduct	-419.36	
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set	2,753.56	777.65
For Class 1 Pole, Add	419.36	
For Class 2 Pole, Add	239.63	
For Class 4 Pole, Deduct	-119.82	
For Class 5 Pole, Deduct	-359.45	
For Class 6 Pole, Deduct	-479.26	

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,076.32	855.14
For Class 1 Pole, Add	478.07	
For Class 2 Pole, Add	273.18	
For Class 4 Pole, Deduct	-136.59	
For Class 5 Pole, Deduct	-409.77	
For Class 6 Pole, Deduct	-546.36	
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,011.44	932.05
For Class 1 Pole, Add	1,101.55	
For Class 2 Pole, Add	629.46	
For Class 4 Pole, Deduct	-314.73	
For Class 5 Pole, Deduct	-944.19	
For Class 6 Pole, Deduct	-1,258.92	
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,501.53	991.47
For Class 1 Pole, Add	1,231.49	
For Class 2 Pole, Add	703.71	
For Class 4 Pole, Deduct	-351.86	
For Class 5 Pole, Deduct	-1,055.57	
For Class 6 Pole, Deduct	-1,407.42	
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set.....	6,045.77	1,058.97
For Class 1 Pole, Add	1,374.72	
For Class 2 Pole, Add	785.56	
For Class 4 Pole, Deduct	-392.78	
For Class 5 Pole, Deduct	-1,178.33	
For Class 6 Pole, Deduct	-1,571.11	
26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm (26 05 46 00-0001)		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms.....	29.86	
26 05 46 00-0016 Crossarms (26 05 46)		
Note: Includes hardware and braces.		
26 05 46 00-0017 Wood Single Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....	253.45	104.52
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	306.62	104.52
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	322.05	134.39
26 05 46 00-0021 Wood Double Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces.....	653.59	291.17
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	695.70	291.17
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	724.48	291.17
26 05 46 00-0025 Fiberglass Crossarms (26 05 46 00-0016)		
Note: Includes hardware.		
26 05 46 00-0026 Single Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 Lb.	290.79	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 Lb.	367.03	62.71
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 Lb.	381.96	67.19
26 05 46 00-0030 Two Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 Lb.	457.40	80.63
26 05 46 00-0032 Fiberglass Crossarm Accessories (26 05 46 00-0025)		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 Lb. Per Conductor.....	722.89	103.03
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 Lb. Per Conductor.....	856.95	125.43
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded.....	125.72	17.92
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket.....	628.61	89.59
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm.....	496.61	149.32
26 05 46 00-0038 Insulator Support System (26 05 46 00-0016)		
26 05 46 00-0039 Epoxy Construction Units, In Place Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting.....	149.16	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting.....	121.66	
26 05 46 00-0042 EA Deadend Arms, In Place Mounting.....	350.33	
26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting.....	237.96	
26 05 46 00-0044 Epoxy Construction Units, Grounding Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0045 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting.....	105.94	
26 05 46 00-0046 EA 1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting.....	92.85	
26 05 46 00-0047 EA Deadend Arms, Grounding Mounting.....	321.52	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0048		Guying (26 05 46) Note: Includes cable, anchor and rod assembly, guy marker.		
26 05 46 00-0049		Down Guy (26 05 46 00-0048)		
26 05 46 00-0050	EA	Down Guy For 25' To 40' Pole	1,014.48	418.09
26 05 46 00-0051	EA	Down Guy For 45' To 60' Pole	1,031.51	418.09
26 05 46 00-0052	EA	Down Guy For 65' To 75' Pole	1,066.52	418.09
26 05 46 00-0053	EA	Guy Guard, Plastic.....	39.17	
26 05 46 00-0054		Head Guy, 50' Spans (26 05 46 00-0048)		
26 05 46 00-0055	EA	Head Guy (50' Span), For 25' To 40' Pole	1,471.43	642.07
26 05 46 00-0056	EA	Head Guy (50' Span), For 45' To 60' Pole	1,471.43	642.07
26 05 46 00-0057	EA	Head Guy (50' Span), For 65' To 75' Pole	1,471.43	642.07
26 05 46 00-0058		Guy Strain Insulators Additional Insulators (26 05 46 00-0048) Note: As required at same material cost and labor.		
26 05 46 00-0059	EA	Guy Strain Insulator	632.88	313.57
26 05 46 00-0060		Insulators (26 05 46)		
26 05 46 00-0061		Pin Insulator With Pin (26 05 46 00-0060)		
26 05 46 00-0062	EA	5 KV Class 55-3, Pin Insulator With Pin.....	199.92	89.59
26 05 46 00-0063	EA	15 KV Class 55-5, Pin Insulator With Pin.....	205.40	89.59
26 05 46 00-0064		Suspension Insulator (26 05 46 00-0060) Note: Includes clevis and strain clamp.		
26 05 46 00-0065	EA	5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp.....	253.40	119.45
26 05 46 00-0066	EA	15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	268.30	119.45
26 05 46 00-0067	EA	25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	375.52	149.32
26 05 46 00-0068	EA	50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	593.64	238.91
26 05 46 00-0069		Spool Insulator With Clevis (26 05 46 00-0060)		
26 05 46 00-0070	EA	5 KV Class 53-5, Spool Insulator With Clevis	84.37	37.33
26 05 46 00-0071	EA	15 KV Class, Spool Insulator With Clevis	270.19	134.39
26 05 46 00-0072	EA	25 KV Class, Spool Insulator With Clevis	350.50	134.39
26 05 46 00-0073		Secondary Rack (26 05 46 00-0060)		
26 05 46 00-0074	EA	1 Spool Secondary Rack	167.67	74.66
26 05 46 00-0075	EA	2 Spool Secondary Rack	172.47	95.26
26 05 46 00-0076	EA	3 Spool Secondary Rack	258.30	126.92
26 05 46 00-0077	EA	4 Spool Secondary Rack	290.40	126.92
26 05 46 00-0078		Outdoor Load Break Switches (26 05 46) Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.		
26 05 46 00-0079		7.2 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0080	EA	600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,870.54	507.68
26 05 46 00-0081	EA	1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	11,614.61	507.68
26 05 46 00-0082	EA	1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,309.71	858.58
26 05 46 00-0083	EA	2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,618.46	858.58
26 05 46 00-0084		14.4 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0085	EA	600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	7,204.20	507.68
26 05 46 00-0086	EA	1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	13,754.98	507.68
26 05 46 00-0087	EA	1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,309.71	858.58
26 05 46 00-0088	EA	2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,618.46	858.58
26 05 46 00-0089		23 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0090	EA	600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	7,935.11	589.81
26 05 46 00-0091	EA	1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,043.71	589.81
26 05 46 00-0092	EA	1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	18,051.79	1,015.36
26 05 46 00-0093	EA	2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	18,370.66	1,015.36
26 05 46 00-0094		Square Distribution Poles (26 05 46)		
26 05 46 00-0095		Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0096	EA	20', Steel Taped Shaft Distribution Pole	3,651.21	634.60
26 05 46 00-0097	EA	25', Steel Taped Shaft Distribution Pole	4,083.73	671.93
26 05 46 00-0098	EA	30', Steel Taped Shaft Distribution Pole	4,433.58	746.59

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0099 EA 35', Steel Taped Shaft Distribution Pole	4,905.00	821.25
26 05 46 00-0100 EA 40', Steel Taped Shaft Distribution Pole	6,615.33	895.91
26 05 46 00-0101 Square Prestressed Concrete Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0102 EA 30', Prestressed Concrete Square Pole For Distribution	5,559.15	1,142.96
26 05 46 00-0103 EA 35', Prestressed Concrete Square Pole For Distribution	6,273.91	1,253.57
26 05 46 00-0104 EA 40', Prestressed Concrete Square Pole For Distribution	7,357.39	1,401.05
26 05 46 00-0105 EA 45', Prestressed Concrete Square Pole For Distribution	8,288.97	1,548.53
26 05 46 00-0106 EA 50', Prestressed Concrete Square Pole For Distribution	9,968.14	1,880.36
26 05 46 00-0107 EA 55', Prestressed Concrete Square Pole For Distribution	11,689.44	2,212.18
26 05 46 00-0108 EA 60', Prestressed Concrete Square Pole For Distribution	13,786.16	2,507.14
26 05 46 00-0109 EA 65', Prestressed Concrete Square Pole For Distribution	16,644.33	3,097.06
26 05 46 00-0110 EA 70', Prestressed Concrete Square Pole For Distribution	18,640.28	3,392.02
26 05 46 00-0111 Aluminum Tapered Poles (26 05 46)		
26 05 46 00-0112 Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0111)		
26 05 46 00-0113 EA 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution	3,845.54	559.94
26 05 46 00-0114 EA 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution	5,386.19	597.27
26 05 46 00-0115 EA 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution	6,196.04	671.93
26 05 46 00-0116 EA 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution	7,356.07	746.59
26 05 46 00-0117 EA 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution	11,171.92	821.25
26 05 46 00-0118 Steel Service Poles Distribution (26 05 46)		
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
26 05 46 00-0119 Round Tapered Pole (26 05 46 00-0118)		
26 05 46 00-0120 EA 40', Galvanized Steel Tapered Round Pole For Distribution	5,359.81	895.91
26 05 46 00-0121 EA 45', Galvanized Steel Tapered Round Pole For Distribution	6,229.24	970.57
26 05 46 00-0122 EA 50', Galvanized Steel Tapered Round Pole For Distribution	6,636.84	1,045.22
26 05 46 00-0123 EA 55', Galvanized Steel Tapered Round Pole For Distribution	7,816.28	1,194.54
26 05 46 00-0124 EA 60', Galvanized Steel Tapered Round Pole For Distribution	9,668.22	1,343.87
26 05 46 00-0125 EA 65', Galvanized Steel Tapered Round Pole For Distribution	11,472.37	1,732.88
26 05 46 00-0126 EA 70', Galvanized Steel Tapered Round Pole For Distribution	12,771.33	1,965.89
26 05 46 00-0127 EA 75', Galvanized Steel Tapered Round Pole For Distribution	14,116.60	2,212.18
26 05 46 00-0128 EA 80', Galvanized Steel Tapered Round Pole For Distribution	15,840.74	2,507.14
26 05 46 00-0129 EA 85', Galvanized Steel Tapered Round Pole For Distribution	16,927.55	2,654.62
26 05 46 00-0130 EA 90', Galvanized Steel Tapered Round Pole For Distribution	18,369.19	2,949.58
26 05 46 00-0131 EA 95', Galvanized Steel Tapered Round Pole For Distribution	20,213.35	3,318.28
26 05 46 00-0132 EA 100', Galvanized Steel Tapered Round Pole For Distribution	22,310.54	3,760.71
26 05 46 00-0133 12 Sided Tapered (26 05 46 00-0118)		
26 05 46 00-0134 EA 40', Galvanized Steel Tapered 12 Sided Pole For Distribution	9,184.55	895.91
26 05 46 00-0135 EA 45', Galvanized Steel Tapered 12 Sided Pole For Distribution	10,136.84	970.57
26 05 46 00-0136 EA 50', Galvanized Steel Tapered 12 Sided Pole For Distribution	11,226.73	1,045.22
26 05 46 00-0137 EA 55', Galvanized Steel Tapered 12 Sided Pole For Distribution	12,333.71	1,194.54
26 05 46 00-0138 EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution	16,397.89	1,343.87
26 05 46 00-0139 EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution	18,243.43	1,732.88
26 05 46 00-0140 EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution	21,134.31	1,965.89
26 05 46 00-0141 EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution	22,743.18	2,212.18
26 05 46 00-0142 EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution	24,456.49	2,507.14
26 05 46 00-0143 EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution	25,910.85	2,654.62
26 05 46 00-0144 EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution	29,414.75	2,949.58
26 05 46 00-0145 EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution	31,227.95	3,318.28
26 05 46 00-0146 EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution	33,397.45	3,760.71
26 05 46 00-0147 EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution	35,718.07	4,203.15
26 05 46 00-0148 Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0118)		
26 05 46 00-0149 EA Ladder Clips	28.36	
26 05 46 00-0150 EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line	212.80	
26 05 46 00-0151 EA Ground Sleeve-2' At Ground Line	214.04	
26 05 46 00-0152 Arms With Baseplates And Endplates (26 05 46 00-0118)		
26 05 46 00-0153 EA 4' Arm With Baseplate And Endplate	793.85	149.32
26 05 46 00-0154 EA 5' Arm With Baseplate And Endplate	861.00	149.32
26 05 46 00-0155 EA 6' Arm With Baseplate And Endplate	1,078.61	223.98
26 05 46 00-0156 EA 7' Arm With Baseplate And Endplate	1,137.34	223.98
26 05 46 00-0157 EA 8' Arm With Baseplate And Endplate	1,352.69	298.64
26 05 46 00-0158 EA 9' Arm With Baseplate And Endplate	1,419.80	298.64
26 05 46 00-0159 EA 10' Arm With Baseplate And Endplate	1,879.72	373.29
26 05 46 00-0160 EA 11' Arm With Baseplate And Endplate	1,955.06	373.29
26 05 46 00-0161 Standard Vangs Load Bearing At Any Angle (26 05 46 00-0118)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0162 EA 15,000 Lb. Standard Vangs Load Bearing At Any Angle	354.02	149.32
26 05 46 00-0163 EA 30,000 Lb. Standard Vangs Load Bearing At Any Angle	395.15	149.32
26 05 46 00-0164 EA 45,000 Lb. Standard Vangs Load Bearing At Any Angle	451.41	149.32
26 05 46 00-0165 Armless Construction Brackets (26 05 46 00-0118)		
26 05 46 00-0166 Verticals Insulator And Equipment Bracket (26 05 46 00-0165)		
26 05 46 00-0167 EA 7" 1 Position Vertical Insulation And Equipment Bracket.....	360.72	149.32
26 05 46 00-0168 EA 12" 1 Position Vertical Insulation And Equipment Bracket.....	366.70	149.32
26 05 46 00-0169 EA 12" 3 Position Vertical Insulation And Equipment Bracket.....	428.90	149.32
26 05 46 00-0170 EA 18" 1 Position Vertical Insulation And Equipment Bracket.....	605.87	223.98
26 05 46 00-0171 EA 18" 3 Position Vertical Insulation And Equipment Bracket.....	630.52	223.98
26 05 46 00-0172 Horizontal And Multiple Insulator Brackets (26 05 46 00-0165)		
26 05 46 00-0173 EA Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets	340.50	149.32
26 05 46 00-0174 EA Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets	395.08	149.32
26 05 46 00-0175 EA Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets	579.44	223.98
26 05 46 00-0176 EA Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets	708.25	223.98
26 05 46 00-0177 EA Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets	911.18	298.64
26 05 46 00-0178 EA Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets	979.55	298.64
26 05 46 00-0179 Pole Top Bracket And Pins (26 05 46 00-0165)		
26 05 46 00-0180 EA Pole Top Pin - 5".....	348.42	149.32
26 05 46 00-0181 EA Pole Top Bracket - 5".....	361.67	149.32
26 05 46 00-0182 Angle Pins (26 05 46 00-0165)		
26 05 46 00-0183 EA Angle Pin - 25 Degree, 6".....	346.63	149.32
26 05 46 00-0184 EA Angle Pin - 25 Degree, 7 1/4".....	389.67	149.32
26 05 46 00-0185 Static And Neutral Wire Brackets (26 05 46 00-0165)		
26 05 46 00-0186 EA Neutral Wire Extension Bracket.....	375.55	149.32
26 05 46 00-0187 EA Static Wire Support Bracket.....	381.06	149.32
26 05 46 00-0188 Cutout, Arrestor And Terminator Brackets (26 05 46 00-0165)		
26 05 46 00-0189 EA Cutout And Arrestor, With Mounting Bracket	340.86	149.32
26 05 46 00-0190 EA Equipment Mounting T Bracket.....	368.49	149.32
26 05 46 00-0191 EA 15 KV Cutout	494.94	
26 05 46 00-0192 EA 9/10 KV Arrestor	456.07	149.32
26 05 46 00-0193 Spacer Cable, Conduit Support And Cluster Bracket (26 05 46 00-0165)		
26 05 46 00-0194 EA Parallel Cable Spacer	415.13	149.32
26 05 46 00-0195 EA Conduit Standoff Support Bracket	397.53	149.32
26 05 46 00-0196 EA Three Transformer Pole Mounted Cluster Bracket	1,007.84	149.32
26 05 46 00-0197 15 KV, 200 Amperes, Solenoid Operated High Voltage Switch (26 05 46 00-0165)		
Note: Includes pole mounting bracket.		
26 05 46 00-0198 EA 15 KV, 1 Phase, Solenoid Switch With Pole Bracket.....	2,458.94	373.29
26 05 46 00-0199 Octagonal Tapered (26 05 46 00-0118)		
26 05 46 00-0200 EA 40', Galvanized Steel Tapered Octagonal Pole For Distribution	9,468.82	895.91
26 05 46 00-0201 EA 45', Galvanized Steel Tapered Octagonal Pole For Distribution	10,452.14	970.57
26 05 46 00-0202 EA 50', Galvanized Steel Tapered Octagonal Pole For Distribution	11,578.20	1,045.22
26 05 46 00-0203 EA 55', Galvanized Steel Tapered Octagonal Pole For Distribution	12,716.19	1,269.21
26 05 46 00-0204 EA 60', Galvanized Steel Tapered Octagonal Pole For Distribution	16,925.10	1,343.87
26 05 46 00-0205 EA 65', Galvanized Steel Tapered Octagonal Pole For Distribution	18,811.99	1,732.88
26 05 46 00-0206 EA 70', Galvanized Steel Tapered Octagonal Pole For Distribution	21,795.91	1,843.49
26 05 46 00-0207 EA 75', Galvanized Steel Tapered Octagonal Pole For Distribution	23,448.71	2,212.18
26 05 46 00-0208 EA 80', Galvanized Steel Tapered Octagonal Pole For Distribution	25,203.36	2,359.66
26 05 46 00-0209 EA 85', Galvanized Steel Tapered Octagonal Pole For Distribution	26,701.67	2,654.62
26 05 46 00-0210 EA 90', Galvanized Steel Tapered Octagonal Pole For Distribution	30,316.69	2,802.10
26 05 46 00-0211 EA 95', Galvanized Steel Tapered Octagonal Pole For Distribution	32,176.41	3,318.28
26 05 46 00-0212 EA 100', Galvanized Steel Tapered Octagonal Pole For Distribution	34,392.43	3,539.50
26 05 46 00-0213 EA 105', Galvanized Steel Tapered Octagonal Pole For Distribution	36,764.74	3,981.94
26 05 46 00-0214 Removal And Relocation Of Steel Service Poles (26 05 46 00-0118)		
26 05 46 00-0215 LF Removal And Relocation Of Steel Service Poles With Arms Up To 60'	52.25	
26 05 46 00-0216 Special Steel Bases For Poles (26 05 46 00-0118)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 05 46 00-0217	EA		Spin-In Steel Base For Poles.....	285.67	
26 05 46 00-0218	EA		Series 3, 25' Pole And less.....	314.43	74.66
26 05 46 00-0219	EA		Series 4, 40' Pole And less.....	373.53	85.86
26 05 46 00-0220	EA		Series 5, 50' Pole And less.....	425.15	93.33

26 05 53 Identification for Electrical Systems (26 05)**26 05 53 00-0001 Conduit Markers Pressure-Sensitive (26 05 53)**

Note: Stick-on, includes arrow tape.

26 05 53 00-0002	EA		1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	15.50	
26 05 53 00-0003	EA		3/4" Outside Diameter Pressure Sensitive Marker Stick-on.....	16.19	
26 05 53 00-0004	EA		1" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.58	
26 05 53 00-0005	EA		1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.85	
26 05 53 00-0006	EA		1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	18.12	
26 05 53 00-0007	EA		2" Outside Diameter Pressure Sensitive Marker Stick-on.....	18.54	
26 05 53 00-0008	EA		2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	21.77	
26 05 53 00-0009	EA		3" Outside Diameter Pressure Sensitive Marker Stick-on.....	22.31	
26 05 53 00-0010	EA		3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	22.72	
26 05 53 00-0011	EA		4" Outside Diameter Pressure Sensitive Marker Stick-on.....	23.15	
26 05 53 00-0012	EA		4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	24.01	
26 05 53 00-0013	EA		5" Outside Diameter Pressure Sensitive Marker Stick-on.....	24.93	
26 05 53 00-0014	EA		6" Outside Diameter Pressure Sensitive Marker Stick-on.....	25.74	
26 05 53 00-0015	EA		7" Outside Diameter Pressure Sensitive Marker Stick-on.....	26.56	
26 05 53 00-0016	EA		8" Outside Diameter Pressure Sensitive Marker Stick-on.....	29.17	
26 05 53 00-0017	EA		10" Outside Diameter Pressure Sensitive Marker Stick-on.....	30.68	

26 05 53 00-0018 Labeling Existing Electrical Wires (26 05 53)

Note: Self-adhesive vinyl coated white cloth

26 05 53 00-0019	EA		Labeling Existing Wire.....	4.24	

26 05 53 00-0020 Equipment Labeling (26 05 53)

26 05 53 00-0021	EA		Label Both Ends Of One 4 Pair Cable.....	15.46	
26 05 53 00-0022	EA		Label single gang face plate (2 labels required).....	14.54	
26 05 53 00-0023	EA		Label two gang face plate (4 labels required).....	20.92	
26 05 53 00-0024	EA		Label both ends of a Siamese (dual 4 Pair cable).....	15.46	

26 05 83 Wiring Connections (26 05)**26 05 83 00-0001 Tape Wrapped Compression Connectors (26 05 83)**

26 05 83 00-0002	EA		#6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	18.01	6.19
26 05 83 00-0003	EA		#4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	19.71	6.87
26 05 83 00-0004	EA		#2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	21.28	7.56
26 05 83 00-0005	EA		1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	24.54	8.26
26 05 83 00-0006	EA		2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	26.42	8.94
26 05 83 00-0007	EA		3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	29.25	9.63
26 05 83 00-0008	EA		4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	31.35	10.31
26 05 83 00-0009	EA		250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	34.12	11.00
26 05 83 00-0010	EA		300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	37.78	12.37
26 05 83 00-0011	EA		350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	39.64	13.07
26 05 83 00-0012	EA		400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	43.99	13.76
26 05 83 00-0013	EA		500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	47.80	14.44
26 05 83 00-0014	EA		750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	53.37	15.81
26 05 83 00-0015	EA		1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	61.85	17.87

26 05 83 00-0016 One Hole Compression Lugs (26 05 83)

26 05 83 00-0017	EA		#22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	23.64	17.87
26 05 83 00-0018	EA		#16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	23.81	17.87
26 05 83 00-0019	EA		#12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	26.94	19.26
26 05 83 00-0020	EA		#8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	33.26	21.32
26 05 83 00-0021	EA		#6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	46.75	27.50
26 05 83 00-0022	EA		#4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	54.79	27.50
26 05 83 00-0023	EA		#2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	63.05	27.50
26 05 83 00-0024	EA		1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	77.69	41.26
26 05 83 00-0025	EA		2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	91.09	41.26
26 05 83 00-0026	EA		3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	106.59	41.26
26 05 83 00-0027	EA		4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	128.53	55.01
26 05 83 00-0028	EA		250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	152.44	82.52
26 05 83 00-0029	EA		300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	174.37	82.52
26 05 83 00-0030	EA		350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	187.42	82.52
26 05 83 00-0031	EA		400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	204.09	96.27
26 05 83 00-0032	EA		500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	223.12	96.27
26 05 83 00-0033	EA		750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	242.48	110.02
26 05 83 00-0034	EA		1,000 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	284.91	123.77



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0035			Two Hole Compression Lugs (26 05 83)		
26 05 83 00-0036	EA		#8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	48.26	23.38
26 05 83 00-0037	EA		#6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	51.79	24.89
26 05 83 00-0038	EA		#4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	54.61	24.89
26 05 83 00-0039	EA		#2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	62.84	28.61
26 05 83 00-0040	EA		1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	77.46	35.76
26 05 83 00-0041	EA		2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	90.85	42.49
26 05 83 00-0042	EA		3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	106.32	49.79
26 05 83 00-0043	EA		4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	128.23	60.38
26 05 83 00-0044	EA		250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	152.09	71.65
26 05 83 00-0045	EA		300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	173.97	81.83
26 05 83 00-0046	EA		350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	187.00	88.15
26 05 83 00-0047	EA		400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	203.60	95.45
26 05 83 00-0048	EA		500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	222.56	104.24
26 05 83 00-0049	EA		750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	243.15	113.05
26 05 83 00-0050	EA		1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	300.80	137.53
26 05 83 00-0051			Tape Wrapped Split Bolt Connectors (26 05 83)		
26 05 83 00-0052	EA		#8 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	72.19	55.01
26 05 83 00-0053	EA		#6 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	79.38	59.14
26 05 83 00-0054	EA		#4 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	90.49	61.89
26 05 83 00-0055	EA		#2 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	105.00	68.76
26 05 83 00-0056	EA		1/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	123.90	75.64
26 05 83 00-0057	EA		2/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	138.76	82.52
26 05 83 00-0058	EA		3/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	173.37	89.39
26 05 83 00-0059	EA		4/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	186.00	96.27
26 05 83 00-0060	EA		250 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	196.01	103.14
26 05 83 00-0061	EA		300 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	223.41	113.46
26 05 83 00-0062	EA		350 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	250.79	165.03
26 05 83 00-0063	EA		400 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	274.63	137.53
26 05 83 00-0064	EA		500 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	298.44	185.66
26 05 83 00-0065	EA		750 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	330.72	192.54
26 05 83 00-0066	EA		1,000 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt.....	374.10	206.29
26 05 83 00-0067			Cable Termination Lugs Handwrapped, No Stress Cone (26 05 83)		
26 05 83 00-0068	EA		#8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	118.75	55.01
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	28.88	
26 05 83 00-0069	EA		#4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	132.20	55.01
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	32.75	
26 05 83 00-0070	EA		1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	183.09	82.52
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	45.84	
26 05 83 00-0071	EA		4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	207.95	82.52
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	52.89	
26 05 83 00-0072	EA		300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	248.74	103.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	62.51	
26 05 83 00-0073	EA		500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	347.44	137.53
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	85.96	
26 05 83 00-0074			Terminal Blocks (26 05 83)		
			Note: Labor excludes wire termination.		
26 05 83 00-0075	EA		Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	1,202.49	508.85
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	305.61	
26 05 83 00-0076	EA		#22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block.....	304.65	68.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	41.72	
26 05 83 00-0077	EA		#8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block.....	335.74	68.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	42.16	
26 05 83 00-0078			Parallel Gutter Tap Or Motor Connection (26 05 83)		
26 05 83 00-0079	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	48.24	24.89
26 05 83 00-0080	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	51.79	24.89
26 05 83 00-0081	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	54.61	24.89
26 05 83 00-0082	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	62.84	28.61
26 05 83 00-0083	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	77.46	35.76
26 05 83 00-0084	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	90.85	42.49
26 05 83 00-0085	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	106.32	49.79
26 05 83 00-0086	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	128.23	60.38
26 05 83 00-0087	EA		250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	152.09	71.65
26 05 83 00-0088	EA		300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	173.97	81.83
26 05 83 00-0089	EA		350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	187.00	88.15
26 05 83 00-0090	EA		400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	203.60	95.45
26 05 83 00-0091	EA		500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	222.56	104.24
26 05 83 00-0092	EA		750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	223.07	104.24
26 05 83 00-0093	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	48.24	24.89
26 05 83 00-0094	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	51.79	24.89
26 05 83 00-0095	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	54.61	24.89
26 05 83 00-0096	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	62.84	28.61
26 05 83 00-0097	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	77.46	35.76

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0098 EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	90.85	42.49
26 05 83 00-0099 EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	106.32	49.79
26 05 83 00-0100 EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	128.23	60.38
26 05 83 00-0101 EA 250 MCM Parallel Gutter Tap, Versitap, Insulating Cover	152.09	71.65
26 05 83 00-0102 EA 300 MCM Parallel Gutter Tap, Versitap, Insulating Cover	173.97	81.83
26 05 83 00-0103 EA 350 MCM Parallel Gutter Tap, Versitap, Insulating Cover	187.00	88.15
26 05 83 00-0104 EA 400 MCM Parallel Gutter Tap, Versitap, Insulating Cover	203.60	95.45
26 05 83 00-0105 EA 500 MCM Parallel Gutter Tap, Versitap, Insulating Cover	222.56	104.24
26 05 83 00-0106 EA 750 MCM Parallel Gutter Tap, Versitap, Insulating Cover	223.07	104.24
26 05 83 00-0107 Copper Mechanical Lugs (26 05 83)		
26 05 83 00-0108 EA #8 Copper Mechanical Lugs	39.30	17.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.32	
26 05 83 00-0109 EA #6 Copper Mechanical Lugs	47.13	20.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 05 83 00-0110 EA #4 Copper Mechanical Lugs	54.45	24.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.44	
26 05 83 00-0111 EA #2 Copper Mechanical Lugs	71.34	30.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.42	
26 05 83 00-0112 EA 1/0 Copper Mechanical Lugs	96.09	41.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 05 83 00-0113 EA 2/0 Copper Mechanical Lugs	114.68	47.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.76	
26 05 83 00-0114 EA 3/0 Copper Mechanical Lugs	134.20	55.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 05 83 00-0115 EA 4/0 Copper Mechanical Lugs	152.86	61.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.01	
26 05 83 00-0116 EA 250 MCM Copper Mechanical Lugs	175.22	68.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 05 83 00-0117 EA 300 MCM Copper Mechanical Lugs	197.26	75.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.40	
26 05 83 00-0118 EA 350 MCM Copper Mechanical Lugs	219.21	82.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.51	
26 05 83 00-0119 EA 400 MCM Copper Mechanical Lugs	241.00	89.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.59	
26 05 83 00-0120 EA 500 MCM Copper Mechanical Lugs	263.16	96.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.76	
26 05 83 00-0121 EA 750 MCM Copper Mechanical Lugs	298.19	109.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.80	
26 05 83 00-0122 EA 1,000 MCM Copper Mechanical Lugs	337.64	123.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.27	
26 05 83 00-0123 Gel Connectors (26 05 83)		
26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit	72.18	
Note: Kit contains connector, gel filled cap and cap clamp.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.13	
26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit	69.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.96	
26 05 83 00-0126 Other Connections (26 05 83)		
26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	13.61	6.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	13.71	6.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	13.82	6.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 05 83 00-0130 Motor/Equipment Connections And Terminations (26 05 83)		
Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors. See CSI section 23 05 13 00-0000 for motors, 23 05 13 00-0216 for motor mounting.		
26 05 83 00-0131 AC Single Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0132 EA <1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	85.22	34.38
26 05 83 00-0133 EA 1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	84.67	34.38
26 05 83 00-0134 EA 3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	99.08	41.26
26 05 83 00-0135 EA 1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	120.93	51.57
26 05 83 00-0136 EA 1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	122.03	51.57
26 05 83 00-0137 EA 2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	122.25	51.57
26 05 83 00-0138 EA 3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	125.90	51.57
26 05 83 00-0139 EA 5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	160.73	68.76
26 05 83 00-0140 EA 7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	164.82	68.76
26 05 83 00-0141 EA 10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	208.36	85.96
26 05 83 00-0142 AC Three Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0143 EA 1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	84.67	34.38



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0144	EA		3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	99.08	41.26
26 05 83 00-0145	EA		1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.93	51.57
26 05 83 00-0146	EA		1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	122.03	51.57
26 05 83 00-0147	EA		2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	122.25	51.57
26 05 83 00-0148	EA		3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	125.90	51.57
26 05 83 00-0149	EA		5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	160.73	68.76
26 05 83 00-0150	EA		7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	164.82	68.76
26 05 83 00-0151	EA		10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	208.36	85.96
26 05 83 00-0152	EA		15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	213.88	85.96
26 05 83 00-0153	EA		20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	270.03	103.14
26 05 83 00-0154	EA		25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	278.45	103.14
26 05 83 00-0155	EA		30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	380.02	137.53
26 05 83 00-0156	EA		40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	476.40	171.90
26 05 83 00-0157	EA		50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	561.30	206.29
26 05 83 00-0158	EA		60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	668.28	240.67
26 05 83 00-0159	EA		75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	768.20	275.06
26 05 83 00-0160	EA		100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	953.34	343.82
26 05 83 00-0161	EA		125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,125.81	409.14
26 05 83 00-0162	EA		150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,333.58	477.22
26 05 83 00-0163	EA		200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,899.28	715.68
26 05 83 00-0164	AC Three Phase, 460 Volt (26 05 83 00-0130)				
26 05 83 00-0165	EA		1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	84.67	34.38
26 05 83 00-0166	EA		3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	99.08	41.26
26 05 83 00-0167	EA		1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.93	51.57
26 05 83 00-0168	EA		1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	122.03	51.57
26 05 83 00-0169	EA		2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	122.25	51.57
26 05 83 00-0170	EA		3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	125.90	51.57
26 05 83 00-0171	EA		5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	160.73	68.76
26 05 83 00-0172	EA		7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	164.82	68.76
26 05 83 00-0173	EA		10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	208.36	85.96
26 05 83 00-0174	EA		15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	213.88	85.96
26 05 83 00-0175	EA		20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	270.05	103.14
26 05 83 00-0176	EA		25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	278.43	103.14
26 05 83 00-0177	EA		30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	380.02	137.53
26 05 83 00-0178	EA		40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	476.81	172.19
26 05 83 00-0179	EA		50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	561.30	206.29
26 05 83 00-0180	EA		60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	668.28	240.67
26 05 83 00-0181	EA		75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	768.20	275.06
26 05 83 00-0182	EA		100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	953.34	343.82
26 05 83 00-0183	EA		125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,126.20	409.28
26 05 83 00-0184	EA		150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,334.11	477.49
26 05 83 00-0185	EA		200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,900.47	716.24
26 05 83 00-0186	AC Single Phase, 120 Volt (26 05 83 00-0130)				
26 05 83 00-0187	EA		1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing	85.22	34.38
26 05 83 00-0188	Motor Moisture Sensor (26 05 83 00-0130)				
26 05 83 00-0189	EA		Motor Moisture Sensor Located In Winding.....	824.86	

26 09 Instrumentation and Control for Electrical Systems (26)

Note: Includes testing of new devices and certification.

26 09 13 Electrical Power Monitoring (26 09)

26 09 13 00-0001	Vending Machine Energy Usage Controls (26 09 13)				
26 09 13 00-0002	EA		Wallmount VendingMiser® With PIR Occupancy Sensor (Energy Miser VM150).....	456.85	13.78
26 09 13 00-0003	EA		Wallmount VendingMiser® With 14' Data Cable (Energy Miser VM151).....	404.58	6.88
26 09 13 00-0004	EA		Weatherproof Wallmount VendingMiser® With PIR Occupancy Sensor (Energy Miser VM151).....	479.14	13.78
26 09 13 00-0005	EA		Weatherproof Wallmount VendingMiser® With 14' Data Cable (Energy Miser VM161).....	426.87	6.88
26 09 13 00-0006	EA		Velcro Mounted Easy-Install VendingMiser® With PIR Occupancy Sensor (Energy Miser VM170).....	443.08	11.02
26 09 13 00-0007	EA		Velcro Mounted Easy-Install VendingMiser® With 14' Data Cable (Energy Miser VM171).....	397.69	5.51
26 09 13 00-0008	EA		Weatherproof Velcro Mounted Easy-Install VendingMiser® With PIR Occupancy Sensor (Energy Miser VM180).....	465.37	11.02
26 09 13 00-0009	EA		Weatherproof Velcro Mounted Easy-Install VendingMiser® With 14' Data Cable (Energy Miser VM181).....	419.98	5.51
26 09 13 00-0010	EA		Wallmount CoolerMiser With PIR Occupancy Sensor (Energy Miser CM150).....	414.48	13.78
26 09 13 00-0011	EA		Wallmount CoolerMiser With 14' Data Cable (Energy Miser CM151).....	362.21	6.88
26 09 13 00-0012	EA		Velcro Mounted Easy-Install CoolerMiser With PIR Occupancy Sensor (Energy Miser CM170).....	400.71	11.02
26 09 13 00-0013	EA		Velcro Mounted Easy-Install CoolerMiser With 14' Data Cable (Energy Miser CM171).....	355.32	5.51
26 09 13 00-0014	EA		Wallmount SnackMiser With PIR Occupancy Sensor (Energy Miser SM150).....	414.48	13.78
26 09 13 00-0015	EA		Wallmount SnackMiser With 14' Data Cable (Energy Miser SM151).....	362.21	6.88
26 09 13 00-0016	EA		Velcro Mounted Easy-Install SnackMiser With PIR Occupancy Sensor (Energy Miser SM170).....	400.71	11.02
26 09 13 00-0017	EA		Velcro Mounted Easy-Install SnackMiser With 14' Data Cable (Energy Miser SM171).....	355.32	5.51
26 09 13 00-0018	EA		1200 Watt, Multi Plug Load, Wallmount PlugMiser With PIR Occupancy Sensor (Energy Miser PM150).....	414.48	13.78
26 09 13 00-0019	EA		1200 Watt, Multi Plug Load, Wallmount PlugMiser With 14' Data Cable (Energy Miser PM151).....	362.21	6.88
26 09 13 00-0020	EA		1200 Watt, Multi Plug Load, Table Leg Mount PlugMiser With PIR Occupancy Sensor (Energy Miser PM190).....	414.48	13.78
26 09 13 00-0021	EA		Wattsup Line Logger (Energy Miser 60500).....	315.12	20.66

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 13 Electrical Power Monitoring**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 13 00-0022	EA	Wattsup Pro Line Logger (Energy Miser 60501).....	393.16	20.66
26 09 13 00-0023	EA	Test Drive Kit And Wallmount VendingMiser® With PIR Occupany Sensor (Energy Miser TD150).....	748.70	27.54
26 09 13 00-0024	EA	Test Drive Kit And Velcro Mounted Easy-Install VendingMiser® With PIR Occupany Sensor (Energy Miser TD170).....	734.92	24.79
26 09 13 00-0025		Work Station Energy Usage Controls (26 09 13)		
26 09 13 00-0026	EA	Power Strip With Personal Sensor (Wattstopper IDP-3050-A)	196.70	13.78
26 09 23 Lighting Control Devices (26 09)				
26 09 23 00-0001		Lighting Contactors (26 09 23)		
		Note: Up to 600 volt.		
26 09 23 00-0002		Electrically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0003		NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0004		2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0005	EA	20 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	605.92	110.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.01	
26 09 23 00-0006	EA	30 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	752.19	123.77
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.27	
26 09 23 00-0007	EA	60 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,418.73	192.54
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	115.52	
26 09 23 00-0008	EA	100 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,219.92	261.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.78	
26 09 23 00-0009	EA	200 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	4,679.15	343.82
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	206.29	
26 09 23 00-0010		3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0011	EA	20 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	684.41	123.77
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.27	
26 09 23 00-0012	EA	30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	824.23	137.53
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.52	
26 09 23 00-0013	EA	60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,533.12	220.04
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.03	
26 09 23 00-0014	EA	100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,395.80	288.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	173.29	
26 09 23 00-0015	EA	200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	5,020.37	378.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	226.92	
26 09 23 00-0016		4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0017	EA	20 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	808.10	137.53
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.52	
26 09 23 00-0018	EA	30 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	973.64	151.27
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.77	
26 09 23 00-0019	EA	60 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,859.52	247.55
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.53	
26 09 23 00-0020	EA	100 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,873.81	316.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	189.79	
26 09 23 00-0021	EA	200 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	6,428.13	412.58
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	247.55	
26 09 23 00-0022		NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0023		2-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0024	EA	30 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,226.65	123.77
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.27	
26 09 23 00-0025	EA	60 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	2,531.08	192.54
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	115.52	
26 09 23 00-0026	EA	100 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	3,835.51	261.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.78	
26 09 23 00-0027		3-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0028	EA	30 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,789.08	137.53
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.52	
26 09 23 00-0029	EA	60 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	2,769.35	220.04
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.03	
26 09 23 00-0030	EA	100 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	4,226.31	288.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	173.29	
26 09 23 00-0031	EA	200 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	10,009.79	378.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	226.92	
26 09 23 00-0032		4-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0033	EA	30 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,672.72	151.27
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.77	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0034	EA	60 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,760.06 148.53	247.55
26 09 23 00-0035	EA	100 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,792.40 189.79	316.31
26 09 23 00-0036		NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0037		2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)		
26 09 23 00-0038	EA	20 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,016.13 66.01	110.02
26 09 23 00-0039	EA	30 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,296.05 74.27	123.77
26 09 23 00-0040	EA	60 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,503.28 115.52	192.54
26 09 23 00-0041	EA	100 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,760.34 156.78	261.30
26 09 23 00-0042	EA	200 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,308.36 206.29	343.82
26 09 23 00-0043		3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)		
26 09 23 00-0044	EA	20 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,051.75 74.27	123.77
26 09 23 00-0045	EA	30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,368.09 82.52	137.53
26 09 23 00-0046	EA	60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,620.85 132.03	220.04
26 09 23 00-0047	EA	100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,935.16 173.29	288.80
26 09 23 00-0048	EA	200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,648.52 226.92	378.20
26 09 23 00-0049		4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)		
26 09 23 00-0050	EA	20 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,136.04 82.52	137.53
26 09 23 00-0051	EA	30 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,517.51 90.77	151.27
26 09 23 00-0052	EA	60 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,370.26 148.53	247.55
26 09 23 00-0053	EA	100 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,836.17 189.79	316.31
26 09 23 00-0054	EA	200 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,222.46 247.55	412.58
26 09 23 00-0055		NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0056		2-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0057	EA	60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,862.13 115.52	192.54
26 09 23 00-0058	EA	100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,489.83 156.78	261.30
26 09 23 00-0059	EA	200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,071.63 206.29	343.82
26 09 23 00-0060		3-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0061	EA	60 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,116.47 132.03	220.04
26 09 23 00-0062	EA	100 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,829.59 173.29	288.80
26 09 23 00-0063		4-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0064	EA	60 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,022.44 148.53	247.55
26 09 23 00-0065	EA	100 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,814.55 189.79	316.31
26 09 23 00-0066		Mechanically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0067		NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0068		2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		
26 09 23 00-0069	EA	20 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	904.88 66.01	110.02
26 09 23 00-0070	EA	30 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,029.95 74.27	123.77

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0071	EA	60 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,959.41 115.52	192.54
26 09 23 00-0072	EA	100 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,731.98 156.78	261.30
26 09 23 00-0073	EA	200 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,341.49 206.29	343.82
26 09 23 00-0074		3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		
26 09 23 00-0075	EA	20 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	966.00 74.27	123.77
26 09 23 00-0076	EA	30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,104.11 82.52	137.53
26 09 23 00-0077	EA	60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,076.98 132.03	220.04
26 09 23 00-0078	EA	100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,908.92 173.29	288.80
26 09 23 00-0079	EA	200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,133.28 226.92	378.20
26 09 23 00-0080		4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		
26 09 23 00-0081	EA	20 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,042.18 82.52	137.53
26 09 23 00-0082	EA	30 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,176.14 90.77	151.27
26 09 23 00-0083	EA	60 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,432.01 148.53	247.55
26 09 23 00-0084	EA	100 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,417.67 189.79	316.31
26 09 23 00-0085	EA	200 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,620.55 247.55	412.58
26 09 23 00-0086		NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0087		2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0086)		
26 09 23 00-0088	EA	20 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,367.24 66.01	110.02
26 09 23 00-0089	EA	30 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,573.82 74.27	123.77
26 09 23 00-0090	EA	60 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,047.14 115.52	192.54
26 09 23 00-0091	EA	100 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,272.40 156.78	261.30
26 09 23 00-0092	EA	200 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,968.58 206.29	343.82
26 09 23 00-0093		3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0086)		
26 09 23 00-0094	EA	20 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,443.42 74.27	123.77
26 09 23 00-0095	EA	30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,647.97 82.52	137.53
26 09 23 00-0096	EA	60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,164.71 132.03	220.04
26 09 23 00-0097	EA	100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,450.40 173.29	288.80
26 09 23 00-0098	EA	200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,762.49 226.92	378.20
26 09 23 00-0099		4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0086)		
26 09 23 00-0100	EA	20 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,525.39 82.52	137.53
26 09 23 00-0101	EA	30 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,720.00 90.77	151.27
26 09 23 00-0102	EA	60 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,942.75 148.53	247.55
26 09 23 00-0103	EA	100 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,380.04 189.79	316.31
26 09 23 00-0104	EA	200 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,337.49 247.55	412.58
26 09 23 00-0105		NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0106		2-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0105)		
26 09 23 00-0107	EA	30 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,026.13 74.27	123.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0108 EA 60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,921.73 115.52	220.04
26 09 23 00-0109 EA 100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,619.28 156.78	261.30
26 09 23 00-0110 EA 200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,285.31 206.29	343.82
26 09 23 00-0111 3-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0105)		
26 09 23 00-0112 EA 30 Amperes, 3 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,088.64 82.52	137.53
26 09 23 00-0113 4-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0105)		
26 09 23 00-0114 EA 200 Amperes, 4 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,515.25 247.55	412.58
26 09 23 00-0115 Combination Lighting Contactors (26 09 23) Note: Up to 600 volt.		
26 09 23 00-0116 Electrically Held, Combination Lighting Contactors (26 09 23 00-0115)		
26 09 23 00-0117 NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0116)		
26 09 23 00-0118 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0117)		
26 09 23 00-0119 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,757.64 90.77	151.27
26 09 23 00-0120 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,754.96 145.23	242.05
26 09 23 00-0121 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,461.51 190.61	317.69
26 09 23 00-0122 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,174.20 249.61	416.02
26 09 23 00-0123 NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0118)		
26 09 23 00-0124 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0123)		
26 09 23 00-0125 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,206.35 90.77	151.27
26 09 23 00-0126 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,987.67 145.23	242.05
26 09 23 00-0127 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,357.61 190.61	317.69
26 09 23 00-0128 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,158.04 249.61	416.02
26 09 23 00-0129 Mechanically Held, Combination Lighting Contactors (26 09 23 00-0115)		
26 09 23 00-0130 NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0129)		
26 09 23 00-0131 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0130)		
26 09 23 00-0132 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,923.02 90.77	151.27
26 09 23 00-0133 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,327.45 145.23	242.05
26 09 23 00-0134 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,003.78 190.61	317.69
26 09 23 00-0135 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,715.15 249.61	416.02
26 09 23 00-0136 NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0129)		

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0137	3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0136)			
26 09 23 00-0138	EA	30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,373.33 90.77	151.27
26 09 23 00-0139	EA	60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,563.34 145.23	242.05
26 09 23 00-0140	EA	100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,901.48 190.61	317.69
26 09 23 00-0141	EA	200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,698.99 249.61	416.02
26 09 23 00-0142	Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket (26 09 23)			
26 09 23 00-0143	EA	105 To 130 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.15 21.49	35.76
26 09 23 00-0144	EA	105 To 285 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	166.66 21.49	35.76
26 09 23 00-0145	Dimming Module System (Lutron Grafik Eye) (26 09 23)			
26 09 23 00-0146	EA	2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,864.79 82.52	137.53
26 09 23 00-0147	EA	4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,404.71 82.52	137.53
26 09 23 00-0148	EA	6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,954.26 82.52	137.53
26 09 23 00-0149	Dimming Module Control (Leviton) (26 09 23)			
26 09 23 00-0150	EA	5 Amperes, Wireless Dimming Module (Leviton WSD05-9D0) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	241.19 10.33	17.22
26 09 23 00-0151	Light Control Panels (26 09 23)			
26 09 23 00-0152	Lighting Control Panels (Watt Stopper) (26 09 23 00-0151)			
26 09 23 00-0153	Lighting Control Panels (Watt Stopper) (26 09 23 00-0152)			
26 09 23 00-0154	EA	4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,122.96 115.69	192.81
26 09 23 00-0155	EA	8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,992.48 123.95	206.59
26 09 23 00-0156	EA	8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,239.37 123.95	206.59
26 09 23 00-0157	EA	8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,344.23 123.95	206.59
26 09 23 00-0158	EA	8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,634.08 123.95	206.59
26 09 23 00-0159	EA	4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,360.40 115.69	192.81
26 09 23 00-0160	EA	8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,532.75 123.95	206.59
26 09 23 00-0161	EA	8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,822.32 123.95	206.59
26 09 23 00-0162	EA	8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,460.06 123.95	206.59
26 09 23 00-0163	EA	8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,749.90 123.95	206.59
26 09 23 00-0164	Accessories For Lighting Control Panels (Watt Stopper) (26 09 23 00-0152)			
26 09 23 00-0165	EA	Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	206.51 20.66	34.43
26 09 23 00-0166	EA	Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.98 16.53	27.54
26 09 23 00-0167	EA	Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.50 16.53	27.54
26 09 23 00-0168	Lighting Control Panels (Synergy) (26 09 23 00-0151)			
26 09 23 00-0169	Lighting Control Panels (Synergy) (26 09 23 00-0168)			
26 09 23 00-0170	EA	8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,957.88 123.95	206.59



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0171 Accessories For Lighting Control Panels (Synergy) (26 09 23 00-0168)		
26 09 23 00-0172 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	723.59 20.66	34.43
26 09 23 00-0173 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	280.31 8.26	13.78
26 09 23 00-0174 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	160.27 12.40	20.66
26 09 23 00-0175 Lighting Switching Panels (Lutron) (26 09 23 00-0151)		
26 09 23 00-0176 Lighting Switching Panels (Lutron) (26 09 23 00-0175)		
26 09 23 00-0177 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,411.43 123.95	206.59
26 09 23 00-0178 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,298.94 132.22	220.36
26 09 23 00-0179 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,313.60 140.48	234.13
26 09 23 00-0180 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) (26 09 23 00-0151)		
26 09 23 00-0181 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,619.10 115.69	192.81
26 09 23 00-0182 EA 12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,843.37 115.69	192.81
26 09 23 00-0183 EA 18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,067.64 115.69	192.81
26 09 23 00-0184 Power Filters (26 09 23 00-0151)		
26 09 23 00-0185 EA 600 Amperes, 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure	42,739.86	1,146.01
26 09 23 00-0186 EA 200 Amperes, 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure	25,265.22	498.26
26 09 23 00-0187 Signal Filters (26 09 23 00-0151)		
26 09 23 00-0188 EA 0.5 Amperes, 125 Volt, 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case	19,611.09	1,041.90
26 09 23 00-0189 EA 0.5 Amperes, 125 Volt, 200 Conductor Signal Filter With 29" X 40" X 11" Case	13,407.71	636.75
26 09 23 00-0190 EA 0.5 Amperes, 125 Volt, 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case	7,480.68	369.67
26 09 23 00-0191 EA 5 Amperes, 24 Volt DC, 5 Volt, 2 - 1 Pair Conductor Signal Filter With Case	10,177.20	369.67
26 09 23 00-0192 Lighting Control Devices (Encelium) (26 09 23)		
26 09 23 00-0193 EA 8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120 Volt) With Polaris 3D™ (Encelium EN-ECU-G4-P3D) Note: Excludes GB II cable.	16,997.48	137.73
26 09 23 00-0194 EA Server, System Support Unit (SSU) (Encelium EN-SSU-1U) Note: Excludes GB II and Ethernet cable.	7,777.05	137.73
26 09 23 00-0195 EA Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT) Note: Excludes GB II and Ethernet cable.	4,053.37	137.73
26 09 23 00-0196 EA Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT) Note: Excludes GB II and Ethernet cable.	17,097.37	137.73
26 09 23 00-0197 EA Isolated, Wired Luminaire Control Module (Encelium EN-ILCM-1R10V-GB2-BK) Note: Excludes GB II cable.	135.86	17.22
26 09 23 00-0198 EA Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-ILCM-1R10V-GB2-BK/DR) Note: Excludes GB II cable.	209.64	17.22
26 09 23 00-0199 EA Wired Area Lighting Controller, Heavy-Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK) Note: Excludes GB II cable.	264.91	34.43
26 09 23 00-0200 EA Damp Rated, Wired Area Lighting Controller, Heavy-Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR) Note: Excludes GB II cable.	319.14	34.43
26 09 23 00-0201 EA Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK) Note: Excludes GB II cable.	170.29	34.43
26 09 23 00-0202 EA Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR) Note: Excludes GB II cable.	244.07	34.43
26 09 23 00-0203 EA 16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700) Note: Excludes cable.	613.27	68.86
26 09 23 00-0204 EA Rack Mounted, Wired Power Bar (Encelium PWR-700)	461.70	68.86
26 09 23 00-0205 EA Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800)	842.71	68.86
26 09 23 00-0206 EA Wall Mounted, 4U Mounting Rack (Encelium RCK-700)	290.43	68.86
26 09 23 00-0207 EA 4 Port, 10/100 VPN, Dual WAN, Wired Router (Encelium RV042) Note: Excludes cable.	944.20	68.86
26 09 23 00-0208 EA Wired BACnet Interface (Encelium BIF-600) Note: Excludes cable.	9,871.21	275.45
26 09 23 00-0209 EA Wired AV Interface (Encelium EN-SW-AVINT) Note: Excludes cable.	7,298.66	68.86
26 09 23 00-0210 EA Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH) Note: Includes white finish. Excludes GB II cable.	274.29	17.22
26 09 23 00-0211 EA 3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH) Note: Includes white finish. Excludes GB II cable.	334.22	17.22

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0212	EA	3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH)..... Note: Includes white finish. Excludes GB II cable.	319.76	17.22
26 09 23 00-0213	EA	5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH)..... Note: Includes white finish. Excludes GB II cable.	334.22	17.22
26 09 23 00-0214	EA	6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH)..... Note: Includes white finish. Excludes GB II cable.	319.76	17.22
26 09 23 00-0215	EA	Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT)..... Note: Includes white finish. Excludes GB II cable.	241.89	17.22
26 09 23 00-0216	EA	Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT)..... Note: Includes white finish. Excludes GB II cable.	334.22	17.22
26 09 23 00-0217	EA	3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT)..... Note: Includes white finish. Excludes GB II cable.	319.76	17.22
26 09 23 00-0218	EA	Wired Key Switch Controller (Encelium KSW-300)..... Note: Excludes GB II cable.	236.06	17.22
26 09 23 00-0219	EA	Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH) Note: Includes white finish.	101.18	17.22
26 09 23 00-0220	EA	1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2)	84.02	34.43
26 09 23 00-0221	EA	1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2)	84.67	34.43
26 09 23 00-0222	EA	5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2)	89.77	34.43
26 09 23 00-0223	EA	10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2)	94.81	34.43
26 09 23 00-0224	EA	15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2)	100.83	34.43
26 09 23 00-0225	EA	20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2)	106.26	34.43
26 09 23 00-0226	EA	25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2)	112.92	34.43
26 09 23 00-0227	EA	50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2)	143.06	34.43
26 09 23 00-0228	EA	1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2).....	904.85	34.43
26 09 23 00-0229	EA	Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2).....	221.81	34.43
26 09 23 00-0230	EA	1,000' Box, Category 5, Network Cable (Encelium NWC-400-B).....	1,167.33	34.43
26 09 23 00-0231	EA	Indoor Wired Photo Sensor (Encelium PHS-700)..... Note: Excludes GB II cable.	686.98	68.86
26 09 23 00-0232	EA	Outdoor Wired Photo Sensor (Encelium PHS-800) Note: Excludes GB II cable.	686.98	68.86
26 09 23 00-0233	EA	Skylight Wired Photo Sensor (Encelium PHS-900)..... Note: Excludes GB II cable.	686.98	68.86
26 09 23 00-0234	EA	450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450)..... Note: Excludes GB II cable.	360.38	68.86
26 09 23 00-0235	EA	1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500)..... Note: Excludes GB II cable.	349.42	68.86
26 09 23 00-0236	EA	2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00)	356.72	68.86
26 09 23 00-0237	EA	High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY)..... Note: Excludes GB II cable.	393.23	68.86
26 09 23 00-0238	EA	Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG)..... Note: Excludes GB II cable.	356.72	68.86
26 09 23 00-0239	EA	120-277 Volt AC, No Neutral, Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSP-LNV)..... Note: Excludes GB II cable.	283.74	68.86
26 09 23 00-0240	EA	High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPM24V)..... Note: Excludes GB II cable.	300.42	68.86
26 09 23 00-0241	EA	High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPSM24V)..... Note: Excludes GB II cable.	300.42	68.86
26 09 23 00-0242	EA	360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLNS360)..... Note: Excludes GB II cable.	161.37	68.86
26 09 23 00-0243	EA	Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24)..... Note: Excludes GB II cable.	365.76	68.86
26 09 23 00-0244	EA	Hallway, Wired Occupancy Sensor (Encelium HW-13)..... Note: Excludes GB II cable.	514.55	68.86
26 09 23 00-0245	EA	500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-0500)..... Note: Excludes GB II cable.	451.62	68.86
26 09 23 00-0246	EA	1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-1000)..... Note: Excludes GB II cable.	480.82	68.86
26 09 23 00-0247	EA	2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-2000)..... Note: Excludes GB II cable.	495.43	68.86
26 09 23 00-0248	EA	1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM-1200)..... Note: Excludes GB II cable.	447.97	68.86
26 09 23 00-0249	EA	120-277 Volt AC, No Neutral, Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSM-LNV)..... Note: Excludes GB II cable.	374.99	68.86
26 09 23 00-0250	EA	500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-M0W)..... Note: Excludes GB II cable.	467.32	68.86
26 09 23 00-0251	EA	1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-M0W)..... Note: Excludes GB II cable.	463.50	68.86
26 09 23 00-0252	EA	2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-M0W)..... Note: Excludes GB II cable.	513.31	68.86
26 09 23 00-0253	EA	1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-M0W)..... Note: Excludes GB II cable.	497.99	68.86
26 09 23 00-0254	EA	Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24)..... Note: Excludes GB II cable.	535.41	68.86
26 09 23 00-0255	EA	Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV)..... Note: Excludes GB II cable.	498.14	68.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0256 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT) Note: Excludes GB II cable.	498.14	68.86
26 09 23 00-0257 EA 10 Amperes, 120 Volt, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C).....	329.94	68.86
26 09 23 00-0258 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C)	352.88	68.86
26 09 23 00-0259 EA 20 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P).....	612.75	68.86
26 09 23 00-0260 EA 20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P).....	654.87	68.86
26 09 23 00-0261 EA 10 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D).....	484.94	68.86
26 09 23 00-0262 EA 10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D).....	505.30	68.86
26 09 23 00-0263 EA 24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2) Note: Excludes GB II cable and enclosure.	1,443.45	137.73
26 09 23 00-0264 EA 24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V) Note: Excludes GB II cable.	4,522.36	550.89
26 09 23 00-0265 EA 12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V) Note: Excludes GB II cable.	6,574.70	550.89
26 09 23 00-0266 EA 24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V) Note: Excludes GB II cable.	8,627.02	550.89
26 09 23 00-0267 EA Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2)..... Note: Excludes GB II cable.	721.73	68.86
26 09 23 00-0268 EA Wired DALI Bridge (Encelium EN-DB-1L-GB2)	826.02	68.86
26 09 23 00-0269 EA Wireless Manager (Encelium EN-WM-ZB-P3D) Note: Includes white finish.	2,223.44	68.86
26 09 23 00-0270 EA Wireless Control Module (Encelium EN-WCM-ZB).....	305.24	34.43
26 09 23 00-0271 EA Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR)	360.86	34.43
26 09 23 00-0272 EA Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK).....	362.25	34.43
26 09 23 00-0273 EA Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR)	375.36	34.43
26 09 23 00-0274 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	270.81	17.22
26 09 23 00-0275 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0276 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0277 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0278 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0279 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	279.84	17.22
26 09 23 00-0280 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	596.59	68.86
26 09 23 00-0281 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB)	374.11	68.86
26 09 23 00-0282 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB)	374.11	68.86
26 09 23 00-0283 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	429.73	68.86
26 09 23 00-0284 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	429.73	68.86
26 09 23 00-0285 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	270.81	17.22
26 09 23 00-0286 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0287 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0288 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0289 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0290 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	279.84	17.22
26 09 23 00-0291 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	596.59	68.86
26 09 23 00-0292 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)	270.81	17.22
26 09 23 00-0293 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)	270.81	17.22
26 09 23 00-0294 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)	270.81	17.22
26 09 23 00-0295 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	279.84	17.22
26 09 23 00-0296 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	596.59	68.86
26 09 23 00-0297 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB)	374.11	68.86
26 09 23 00-0298 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB)	374.11	68.86
26 09 23 00-0299 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	429.73	68.86
26 09 23 00-0300 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	429.73	68.86
26 09 23 00-0301 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	270.81	17.22
26 09 23 00-0302 EA 3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0303 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0304 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0305 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) Note: Includes white finish.	270.81	17.22
26 09 23 00-0306 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	279.84	17.22
26 09 23 00-0307 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	596.59	68.86
26 09 23 00-0308 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB)	169.70	68.86
26 09 23 00-0309 EA Wireless Ethernet Transceiver Unit (cns-enocan Connectivity Kit)	779.55	68.86
26 09 23 00-0310 Lighting Control Sensors (26 09 23)		
26 09 23 00-0311 EA DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI)	415.14	30.98
26 09 23 00-0312 EA DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI)	415.14	30.98

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0313 EA Smart Multi-sensor (LG 9SD131VVDA.ALWB000)	363.89	30.98
26 09 23 00-0314 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U)	109.92	20.66
26 09 23 00-0315 EA Clip for Performance Troffer (LG BKTTR015122.BUAAWAA)	9.02	
26 09 23 00-0316 EA Clip for Downlight (BKTCE015123.BUAAWAA)	71.44	
26 09 23 00-0317 EA Clip for Tube (LG BKTU015121.BUAAWAA)	12.75	
26 09 23 00-0318 Radio Controlled Devices (Lutron) ^(26 09 23)		
26 09 23 00-0319 Tabletop Transmitters For Radio Controlled Devices ^(26 09 23 00-0318)		
26 09 23 00-0320 Switched Lighting Controls, Tabletop Wireless Transmitter ^(26 09 23 00-0319)		
26 09 23 00-0321 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH)	545.91	20.66
26 09 23 00-0322 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH)	709.58	20.66
26 09 23 00-0323 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH)	893.72	20.66
26 09 23 00-0324 Dimmable Lighting Controls, Tabletop Wireless Transmitter ^(26 09 23 00-0319)		
26 09 23 00-0325 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH)	545.91	20.66
26 09 23 00-0326 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH)	648.21	20.66
26 09 23 00-0327 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH)	893.72	20.66
26 09 23 00-0328 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH)	545.91	20.66
26 09 23 00-0329 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH)	709.58	20.66
26 09 23 00-0330 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH)	893.72	20.66
26 09 23 00-0331 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter ^(26 09 23 00-0319)		
26 09 23 00-0332 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH)	709.58	20.66
26 09 23 00-0333 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH)	893.72	20.66
26 09 23 00-0334 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH)	893.72	20.66
26 09 23 00-0335 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter ^(26 09 23 00-0319)		
26 09 23 00-0336 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH)	545.91	20.66
26 09 23 00-0337 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH)	709.58	20.66
26 09 23 00-0338 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH)	648.21	20.66
26 09 23 00-0339 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH)	791.42	20.66
26 09 23 00-0340 EA One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH)	709.58	20.66
26 09 23 00-0341 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH)	852.80	20.66
26 09 23 00-0342 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH)	709.58	20.66
26 09 23 00-0343 Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter ^(26 09 23 00-0319)		
26 09 23 00-0344 EA One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH)	545.91	20.66
26 09 23 00-0345 EA Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH)	709.58	20.66
26 09 23 00-0346 EA One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH)	709.58	20.66
26 09 23 00-0347 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH)	893.72	20.66
26 09 23 00-0348 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH)	709.58	20.66
26 09 23 00-0349 EA One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH)	893.72	20.66
26 09 23 00-0350 Output Switch Closure Controls, Tabletop Wireless Transmitter ^(26 09 23 00-0319)		
26 09 23 00-0351 EA Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH)	545.91	20.66
26 09 23 00-0352 EA Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH)	709.58	20.66
26 09 23 00-0353 EA Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C52C4-WH)	893.72	20.66



Electrical		26
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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0354	Accessories For Tabletop Wireless Transmitter (26 09 23 00-0319)		
26 09 23 00-0355	EA Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH)	116.27	20.66
26 09 23 00-0356	Wall Box Transmitters For Radio Controlled Devices (26 09 23 00-0318)		
26 09 23 00-0357	EA On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH)	504.99	20.66
26 09 23 00-0358	EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH)	545.91	20.66
26 09 23 00-0359	EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH)	545.91	20.66
26 09 23 00-0360	EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH)	545.91	20.66
26 09 23 00-0361	EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH)	545.91	20.66
26 09 23 00-0362	EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH)	545.91	20.66
26 09 23 00-0363	Interfaces For Radio Controlled Devices (26 09 23 00-0318)		
26 09 23 00-0364	EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000)	504.99	20.66
26 09 23 00-0365	EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000)	504.99	20.66
26 09 23 00-0366	EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000)	504.99	20.66
26 09 23 00-0367	EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8)	1,024.65	20.66
26 09 23 00-0368	EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232)	1,466.57	20.66
26 09 23 00-0369	EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI)	1,466.57	20.66
26 09 23 00-0370	Fluorescent Controllers For Radio Controlled Devices (26 09 23 00-0318)		
26 09 23 00-0371	EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW)	648.21	20.66
26 09 23 00-0372	EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F)	730.04	20.66
26 09 23 00-0373	EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC)	852.80	20.66
26 09 23 00-0374	AC Motor Group Controllers For Radio Controlled Devices (26 09 23 00-0318)		
26 09 23 00-0375	EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC)	955.09	20.66
26 09 23 00-0376	EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC)	1,313.13	20.66
26 09 23 00-0377	RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) (26 09 23)		
26 09 23 00-0378	RF Wireless Technology, Switches (Lutron® Maestro Wireless®) (26 09 23 00-0377)		
26 09 23 00-0379	EA 6 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS)	149.25	27.54
26 09 23 00-0380	EA 8 Amperes Lighting, 5.8 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120)	175.30	27.54
26 09 23 00-0381	EA 8 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV)	272.38	27.54
26 09 23 00-0382	EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS)	105.80	27.54
26 09 23 00-0383	EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277)	128.55	27.54
26 09 23 00-0384	EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS)	115.35	27.54
26 09 23 00-0385	EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277)	138.57	27.54
26 09 23 00-0386	RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) (26 09 23 00-0377)		
26 09 23 00-0387	EA 600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M)	143.24	27.54
26 09 23 00-0388	EA 600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV)	155.26	27.54
26 09 23 00-0389	EA 600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120)	185.32	27.54
26 09 23 00-0390	EA 1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120)	199.09	34.43
26 09 23 00-0391	EA 600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120)	244.42	27.54
26 09 23 00-0392	EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R)	82.64	27.54
26 09 23 00-0393	EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277)	99.17	27.54
26 09 23 00-0394	EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD)	88.66	27.54
26 09 23 00-0395	EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277)	105.18	27.54
26 09 23 00-0396	EA 6 Amperes, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV)	276.72	48.20
26 09 23 00-0397	Removal And Reinstallation Of Occupancy Sensors (26 09 23)		
26 09 23 00-0398	EA Removal And Reinstallation Of Ceiling Mounted Occupancy Sensor	92.96	
Note: Includes storing and cleaning.			

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0399	EA	Removal And Reinstallation Of Wall Mounted Occupancy Sensor Note: Includes storing and cleaning.	61.98	
26 09 23 00-0400		Occupancy Sensors (Watt Stopper) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0401		Occupancy Sensors (26 09 23 00-0400) Note: Exclude boxes.		
26 09 23 00-0402		Wall Switch Mounted Occupancy Sensors (26 09 23 00-0401)		
26 09 23 00-0403		Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0402)		
26 09 23 00-0404	EA	Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.51 8.26	13.78
26 09 23 00-0405	EA	Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	176.52 8.26	13.78
26 09 23 00-0406		Passive Infrared, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0402)		
26 09 23 00-0407	EA	Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.40 8.26	13.78
26 09 23 00-0408	EA	Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.21 8.26	13.78
26 09 23 00-0409	EA	Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	130.49 8.26	13.78
26 09 23 00-0410	EA	Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.14 8.26	13.78
26 09 23 00-0411	EA	Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.44 8.26	13.78
26 09 23 00-0412		Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0402)		
26 09 23 00-0413	EA	Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	217.65 8.26	13.78
26 09 23 00-0414	EA	Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	234.74 8.26	13.78
26 09 23 00-0415		Wall Switch Mounted Occupancy Sensor Accessories (26 09 23 00-0402)		
26 09 23 00-0416	EA	Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.51 8.26	3.44
26 09 23 00-0417	EA	One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.87 8.26	3.44
26 09 23 00-0418	EA	Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.87 8.26	3.44
26 09 23 00-0419		Ceiling Mounted Occupancy Sensors (26 09 23 00-0401)		
26 09 23 00-0420		Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0419)		
26 09 23 00-0421		25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0420)		
26 09 23 00-0422	EA	500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	197.19 8.26	30.98
26 09 23 00-0423	EA	1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	226.57 8.26	30.98
26 09 23 00-0424	EA	2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	256.16 8.26	30.98
26 09 23 00-0425	EA	90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	253.49 8.26	30.98
26 09 23 00-0426		32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0420)		
26 09 23 00-0427	EA	600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	214.58 8.26	30.98
26 09 23 00-0428	EA	1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	244.38 8.26	30.98
26 09 23 00-0429	EA	2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	272.59 8.26	30.98
26 09 23 00-0430	EA	90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	277.37 8.26	30.98
26 09 23 00-0431	EA	600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	232.38 8.26	30.98
26 09 23 00-0432	EA	1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	262.92 8.26	30.98
26 09 23 00-0433	EA	2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	293.35 8.26	30.98
26 09 23 00-0434	EA	90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	302.11 8.26	30.98
26 09 23 00-0435		40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0420)		
26 09 23 00-0436	EA	500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.19 8.26	30.98
26 09 23 00-0437	EA	1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	258.79 8.26	30.98
26 09 23 00-0438	EA	2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	288.59 8.26	30.98



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0439 EA 500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	210.07	30.98
26 09 23 00-0440 EA 1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	254.94	30.98
26 09 23 00-0441 EA 2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	269.47	30.98
26 09 23 00-0442 EA 500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	225.04	30.98
26 09 23 00-0443 EA 1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	250.87	30.98
26 09 23 00-0444 EA 2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	282.77	30.98
26 09 23 00-0445 Passive Infrared, Ceiling Mounted Occupancy Sensors (26 09 23 00-0419)		
26 09 23 00-0446 EA 30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....	162.90	30.98
26 09 23 00-0447 EA HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24).....	166.36	30.98
26 09 23 00-0448 EA Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205).....	174.59	30.98
26 09 23 00-0449 EA Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355).....	196.63	30.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		18.59
26 09 23 00-0450 EA Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	199.31	30.98
26 09 23 00-0451 EA Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200).....	210.84	30.98
26 09 23 00-0452 EA Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300).....	229.31	30.98
26 09 23 00-0453 Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0419)		
26 09 23 00-0454 EA 1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355).....	272.34	30.98
26 09 23 00-0455 EA 1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300).....	311.41	30.98
26 09 23 00-0456 EA 1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305).....	264.05	30.98
26 09 23 00-0457 Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0401)		
26 09 23 00-0458 Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0457)		
26 09 23 00-0459 EA 120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3).....	334.82	30.98
26 09 23 00-0460 EA 2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....	334.82	30.98
26 09 23 00-0461 Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0457)		
26 09 23 00-0462 EA 2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....	311.41	30.98
26 09 23 00-0463 Occupancy Sensor Power Packs (26 09 23 00-0400)		
26 09 23 00-0464 Single Voltage, Occupancy Sensor Power Packs (26 09 23 00-0463)		
26 09 23 00-0465 EA 220 To 240 Volt AC, 20 Amperes, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....	109.71	27.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.53
26 09 23 00-0466 EA 347 Volt AC, 15 Amperes, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....	99.79	27.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.53
26 09 23 00-0467 Auxiliary, Occupancy Sensor Power Packs (26 09 23 00-0463)		
26 09 23 00-0468 EA 120, 277 Or 347 Volt AC, 20 Amperes, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....	91.62	27.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.53
26 09 23 00-0469 Universal Voltage, Power Packs For Occupancy Sensors (26 09 23 00-0463)		
26 09 23 00-0470 EA 120/277 Volt AC, 20 Amperes, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100).....	121.53	27.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.53
26 09 23 00-0471 Form C, Occupancy Sensor Power Packs (26 09 23 00-0463)		
26 09 23 00-0472 EA 120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P).....	110.17	27.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.53
26 09 23 00-0473 EA 277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P).....	110.25	27.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.53
26 09 23 00-0474 Two Relay, Occupancy Sensor Power Packs (26 09 23 00-0463)		
26 09 23 00-0475 EA 120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P).....	138.92	27.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.53
26 09 23 00-0476 EA 277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P).....	140.89	27.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.53

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0477		Occupancy Sensor Power Supplies (26 09 23 00-0463)		
26 09 23 00-0478	EA	120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper BZ-150).....	124.61	27.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.53	
26 09 23 00-0479	EA	277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277).....	284.32	27.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.53	
26 09 23 00-0480		Intelligent, Occupancy Sensor Power Packs (26 09 23 00-0463)		
26 09 23 00-0481	EA	120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100).....	376.54	27.54
26 09 23 00-0482		DIN Rail Mounted, Occupancy Sensor Power Packs (26 09 23 00-0463)		
26 09 23 00-0483	EA	120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....	120.41	27.54
26 09 23 00-0484		Occupancy Sensor Accessories (26 09 23 00-0400)		
26 09 23 00-0485		Protective Cages For Occupancy Sensors (26 09 23 00-0484)		
26 09 23 00-0486	EA	Protective Cage For Occupancy Sensors (Watt Stopper WC).....	69.38	10.32
26 09 23 00-0487		Mounting Brackets For Occupancy Sensors (26 09 23 00-0484)		
26 09 23 00-0488	EA	Mounting Bracket For Occupancy Sensor (Watt Stopper MB).....	53.89	17.22
		Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.		
26 09 23 00-0489		Occupancy/Lighting Logger (26 09 23 00-0484)		
		Note: Logs when a space is occupied/vacant and when lighting is on/off.		
26 09 23 00-0490	EA	Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	515.78	58.53
26 09 23 00-0491		Digital Time Light Switches (26 09 23 00-0400)		
26 09 23 00-0492	EA	Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	111.34	13.78
26 09 23 00-0493		Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor (26 09 23 00-0400)		
26 09 23 00-0494	EA	Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor (Watt Stopper FSP-211).....	244.23	44.76
26 09 23 00-0495		Occupancy Sensors (Sensor Switch) (26 09 23)		
		Note: Includes testing of new devices and certification.		
26 09 23 00-0496		Occupancy Sensors (Sensor Switch) (26 09 23 00-0495)		
		Note: Exclude boxes		
26 09 23 00-0497		Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)		
26 09 23 00-0498		Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0497)		
26 09 23 00-0499	EA	Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV).....	232.13	13.78
		<i>For Low Temp/High Humidity Option, Add</i>	15.50	
		<i>For Low Voltage Relay Option, Add</i>	18.60	
26 09 23 00-0500	EA	Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL).....	163.93	13.78
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.26	
26 09 23 00-0501	EA	Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD).....	156.43	13.78
		<i>For Low Temp/High Humidity Option, Add</i>	15.50	
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	18.60	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.26	
26 09 23 00-0502	EA	Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....	156.43	13.78
		<i>For Low Temp/High Humidity Option, Add</i>	15.50	
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	18.60	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.26	
26 09 23 00-0503	EA	2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P).....	198.03	13.78
		<i>For Low Temp/High Humidity Option, Add</i>	15.50	
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	18.60	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.26	
26 09 23 00-0504	EA	Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS).....	198.03	13.78
		<i>For Low Temp/High Humidity Option, Add</i>	15.50	
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	18.60	
26 09 23 00-0505	EA	2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P).....	240.67	13.78
		<i>For Low Temp/High Humidity Option, Add</i>	15.50	
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	18.60	
26 09 23 00-0506	EA	Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD).....	198.03	13.78
		<i>For Low Temp/High Humidity Option, Add</i>	15.50	
		<i>For Photocell (Inhibit Mode Only) Option, Add</i>	18.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0507 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0497) Note: Includes passive infrared and microphonics detection		
26 09 23 00-0508 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV).....	300.33	13.78
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
26 09 23 00-0509 EA Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL)	232.13	13.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.26	
26 09 23 00-0510 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT)	227.03	13.78
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.26	
26 09 23 00-0511 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA)	227.03	13.78
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.26	
26 09 23 00-0512 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P)	266.23	13.78
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.26	
26 09 23 00-0513 EA Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT)	266.23	13.78
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
26 09 23 00-0514 EA 2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P)	286.69	13.78
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
26 09 23 00-0515 Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch) (26 09 23 00-0497)		
26 09 23 00-0516 EA One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX)	20.52	3.44
26 09 23 00-0517 EA One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX)	20.52	3.44
26 09 23 00-0518 EA Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3)	40.98	3.44
26 09 23 00-0519 EA Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3)	40.98	3.44
26 09 23 00-0520 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0498)		
26 09 23 00-0521 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0520) Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0522 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9)	266.57	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Occupancy Controlled Dimming Option, Add	31.00	
For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0523 EA Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9)	266.57	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Occupancy Controlled Dimming Option, Add	31.00	
For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0524 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9)	266.57	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Occupancy Controlled Dimming Option, Add	31.00	
For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0525 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9)	283.62	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Occupancy Controlled Dimming Option, Add	31.00	
For Photocell Option With Dimming Capability, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0526 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9)	283.62	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Occupancy Controlled Dimming Option, Add	31.00	
For Photocell Option With Dimming Capability, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0527 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9)	229.06	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Occupancy Controlled Dimming Option, Add	31.00	
For Photocell Option With Dimming Capability, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0528	EA		2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P).....	351.82	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0529	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P).....	351.82	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0530	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P).....	297.26	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0531	EA		Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10)	266.57	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0532	EA		Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10)	266.57	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0533	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10)	266.57	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0534	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10).....	283.62	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0535	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10).....	283.62	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0536	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10)	229.06	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0537	EA		2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P).....	351.82	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0538	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P).....	351.82	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0539	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P)	297.26	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	

26 09 23 00-0540 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch)⁽²⁶

09 23 00-0520)

Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection



		Electrical	26
		Instrumentation and Control for Electrical Systems	26 09
		Lighting Control Devices	26 09 23

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0541	EA	Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9).....	334.77	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0542	EA	Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9).....	334.77	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0543	EA	Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9).....	334.77	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0544	EA	Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9).....	317.72	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0545	EA	Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9).....	317.72	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0546	EA	Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9).....	263.16	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0547	EA	2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P).....	385.92	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Photocell Option With Dual Zone On/Off, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0548	EA	2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P).....	385.92	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Photocell Option With Dual Zone On/Off, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0549	EA	2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P).....	331.36	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Photocell Option With Dual Zone On/Off, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0550	EA	Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10).....	334.77	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0551	EA	Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10).....	334.77	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0552	EA	Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10).....	334.77	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0553	EA		Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10).....	317.72	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0554	EA		Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	317.72	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0555	EA		Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10).....	263.16	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0556	EA		2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	385.92	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0557	EA		2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	385.92	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0558	EA		2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....	331.36	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0559			Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)		
26 09 23 00-0560			Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0559)		
26 09 23 00-0561	EA		Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....	266.57	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Ceiling Mount, Add	31.00	
26 09 23 00-0562	EA		Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	300.67	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Ceiling Mount, Add	31.00	
26 09 23 00-0563	EA		Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	368.87	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Ceiling Mount, Add	31.00	
26 09 23 00-0564	EA		Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	351.82	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Ceiling Mount, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0565	EA		2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P).....	420.02	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Ceiling Mount, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0566			Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0559)		
			Note: Includes passive infrared and microphonics detection		
26 09 23 00-0567	EA		Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16).....	334.77	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Ceiling Mount, Add	31.00	
26 09 23 00-0568	EA		Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16).....	385.92	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Ceiling Mount, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0569	EA	2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P).....	454.11	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Ceiling Mount, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0570		High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)		
26 09 23 00-0571		Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0570)		
26 09 23 00-0572	EA	Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6).....	266.57	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell Option, Add	31.00	
		For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0573	EA	Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6).....	266.57	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell Option, Add	31.00	
		For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0574	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6).....	266.57	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell Option, Add	31.00	
		For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0575	EA	Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6).....	229.06	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Start To High, HID Option, Add	18.60	
		For Photocell Option, Add	31.00	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0576	EA	Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6).....	229.06	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Start To High, HID Option, Add	18.60	
		For Photocell Option, Add	31.00	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0577	EA	Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6).....	229.06	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Start To High, HID Option, Add	18.60	
		For Photocell Option, Add	31.00	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0578	EA	2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P).....	297.26	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0579	EA	2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P).....	297.26	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0580	EA	2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P).....	297.26	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0581	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208).....	252.93	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0582	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208).....	252.93	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0583	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208).....	252.93	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0584	EA	480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480).....	252.93	30.98
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0585	EA		480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480)	252.93	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0586	EA		480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480)	252.93	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0587	EA		Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50)	300.67	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0588	EA		Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50)	300.67	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0589	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50)	300.67	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Photocell Option, Add	31.00	
			For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0590	EA		Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50)	365.46	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Start To High, HID Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0591	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50)	365.46	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Start To High, HID Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0592	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50)	365.46	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Start To High, HID Option, Add	18.60	
			For Photocell Option, Add	31.00	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0593	EA		2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P)	321.13	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0594	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P)	321.13	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0595	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208)	269.98	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0596	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208)	269.98	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0597	EA		480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480)	269.98	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0598	EA		480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480)	269.98	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0599	EA		Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10)	300.67	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0600	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10)	300.67	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0601	EA		Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10)	365.46	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Start To High, HID Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0602	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10)	365.46	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Start To High, HID Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0603	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P)	351.82	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0604	EA		480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480)	317.72	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0605	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208)	317.72	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0606			Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0495)		
26 09 23 00-0607	EA		Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20)	150.57	27.54
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.53	
26 09 23 00-0608	EA		2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P)	218.76	27.54
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.53	
26 09 23 00-0609	EA		Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20)	116.47	27.54
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.53	
26 09 23 00-0610	EA		2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20)	106.24	27.54
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.53	
26 09 23 00-0611	EA		20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20)	140.34	27.54
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.53	
26 09 23 00-0612	EA		120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH)	225.58	27.54
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.53	
26 09 23 00-0613	EA		120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR)	225.58	27.54
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.53	
26 09 23 00-0614	EA		120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM)	225.58	27.54
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.53	
26 09 23 00-0615			Daylighting Control (Sensor Switch) (26 09 23 00-0495)		
26 09 23 00-0616	EA		Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC)	232.47	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Dual Zone Option, Add	46.50	
26 09 23 00-0617	EA		Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC)	232.47	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Dual Zone Option, Add	46.50	
26 09 23 00-0618	EA		Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC)	232.47	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Dual Zone Option, Add	46.50	
26 09 23 00-0619	EA		Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC)	232.47	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For 480 Volt AC Option, Add	21.70	
			For Dual Zone Option, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0620	EA		Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC)	232.47	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For 480 Volt AC Option, Add	21.70	
			For Dual Zone Option, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0621	EA		Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC)	232.47	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For 480 Volt AC Option, Add	21.70	
			For Dual Zone Option, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0622	EA		Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC)	232.47	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Dual Zone Option, Add	46.50	
26 09 23 00-0623	EA		Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC)	232.47	30.98
			For Low Temp/High Humidity Option, Add	15.50	
			For Dual Zone Option, Add	46.50	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0624 EA Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC).....	232.47	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Dual Zone Option, Add	46.50	
26 09 23 00-0625 EA Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC).....	232.47	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Dual Zone Option, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0626 EA Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC).....	232.47	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Dual Zone Option, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0627 EA Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC).....	232.47	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Dual Zone Option, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0628 EA Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC).....	334.77	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Dual Zone Option, Add	46.50	
26 09 23 00-0629 EA Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC).....	334.77	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Dual Zone Option, Add	46.50	
26 09 23 00-0630 EA Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC).....	334.77	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Dual Zone Option, Add	46.50	
26 09 23 00-0631 EA Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC).....	334.77	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Dual Zone Option, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0632 EA Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC).....	334.77	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Dual Zone Option, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0633 EA Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC).....	334.77	30.98
For Low Temp/High Humidity Option, Add	15.50	
For Dual Zone Option, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 09 23 00-0634 Occupancy Sensors (Sensor Switch nLight®) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0635 Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0634)		
Note: Excludes boxes.		
26 09 23 00-0636 Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0635)		
26 09 23 00-0637 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0636)		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0638 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX).....	360.45	13.78
26 09 23 00-0639 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0635)		
26 09 23 00-0640 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0639)		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0641 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....	427.81	30.98
26 09 23 00-0642 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....	427.81	30.98
26 09 23 00-0643 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC).....	427.81	30.98
26 09 23 00-0644 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0639)		
Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0645 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	500.97	30.98
26 09 23 00-0646 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	500.97	30.98
26 09 23 00-0647 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	519.23	30.98
26 09 23 00-0648 Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0635)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0649 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0648) Note: Includes passive infrared and microphonics detection		
26 09 23 00-0650 EA Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16)	500.97	30.98
26 09 23 00-0651 High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0635)		
26 09 23 00-0652 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0651)		
26 09 23 00-0653 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6)	427.81	30.98
26 09 23 00-0654 Occupancy Sensor Power Packs (Sensor Switch nLight®) (26 09 23 00-0634)		
26 09 23 00-0655 EA 150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	146.54	27.54
26 09 23 00-0656 EA 250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	183.16	27.54
26 09 23 00-0657 EA 30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO).....	245.32	27.54
26 09 23 00-0658 EA System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16)	245.32	27.54
26 09 23 00-0659 Occupancy Sensor Accessories (Sensor Switch nLight®) (26 09 23 00-0634)		
26 09 23 00-0660 EA RS232 AV Integrator (Sensor Switch nLight® nIO X).....	519.23	30.98
26 09 23 00-0661 EA 8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT)	418.42	30.98
26 09 23 00-0662 Daylighting Controls (Sensor Switch nLight®) (26 09 23 00-0634)		
26 09 23 00-0663 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC)	354.64	30.98
26 09 23 00-0664 Controls (Sensor Switch nLight®) (26 09 23 00-0634)		
26 09 23 00-0665 EA On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX).....	233.92	30.98
26 09 23 00-0666 EA 1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB)	336.38	30.98
26 09 23 00-0667 EA On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM).....	775.35	30.98
26 09 23 00-0668 EA 3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX)	775.35	30.98
26 09 23 00-0669 EA 3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2).....	2,897.14	30.98
26 09 23 00-0670 Occupancy Sensors (Lutron) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0671 Wireless Occupancy Sensors (26 09 23 00-0670)		
26 09 23 00-0672 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH)	174.54	30.98
26 09 23 00-0673 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH)	182.10	30.98
26 09 23 00-0674 EA Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH)	176.34	30.98
26 09 23 00-0675 EA Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH).....	186.34	30.98
26 09 23 00-0676 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH)	178.58	30.98
26 09 23 00-0677 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH).....	186.34	30.98
26 09 23 00-0678 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH)	174.54	30.98
26 09 23 00-0679 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH).....	178.58	30.98
26 09 23 00-0680 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V).....	176.34	30.98
26 09 23 00-0681 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH)	270.53	30.98
26 09 23 00-0682 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH).....	288.47	30.98
26 09 23 00-0683 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH)	328.84	30.98
26 09 23 00-0684 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH).....	346.78	30.98
26 09 23 00-0685 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH)	355.75	30.98
26 09 23 00-0686 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH).....	373.69	30.98
26 09 23 00-0687 EA Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH)	214.01	30.98
26 09 23 00-0688 EA Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH)	225.67	30.98
26 09 23 00-0689 EA Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH)	263.80	30.98
26 09 23 00-0690 EA Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH)	292.96	30.98
26 09 23 00-0691 EA Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH)	315.38	30.98
26 09 23 00-0692 EA Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH)	272.77	30.98
26 09 23 00-0693 EA Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH).....	250.99	30.98

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0694 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH).....	210.46	30.98
26 09 23 00-0695 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH).....	258.25	30.98
26 09 23 00-0696 EA Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C).....	312.84	30.98
26 09 23 00-0697 EA Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H).....	331.83	30.98
26 09 23 00-0698 EA Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K).....	331.83	30.98
26 09 23 00-0699 EA Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W).....	331.83	30.98
26 09 23 00-0700 EA Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V).....	349.24	30.98
26 09 23 00-0701 EA Wireless, Two Switches and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W).....	565.92	44.76
26 09 23 00-0702 Nodes And Modules (26 09 23 00-0670)		
26 09 23 00-0703 EA 0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C).....	281.74	30.98
26 09 23 00-0704 EA 0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J).....	281.74	30.98
26 09 23 00-0705 EA 4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C).....	355.75	30.98
26 09 23 00-0706 EA 4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J).....	355.75	30.98
26 09 23 00-0707 EA 120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH).....	454.58	34.43
26 09 23 00-0708 EA 120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH).....	454.58	34.43
26 09 23 00-0709 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH).....	551.02	34.43
26 09 23 00-0710 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH).....	564.47	34.43
26 09 23 00-0711 EA 120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH).....	696.79	34.43
26 09 23 00-0712 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH).....	739.40	34.43
26 09 23 00-0713 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH).....	782.01	34.43
26 09 23 00-0714 EA 1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2).....	2,111.79	55.09
26 09 23 00-0715 EA 2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4).....	2,075.09	61.98
26 09 23 00-0716 EA 3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6).....	3,042.02	68.86
26 09 23 00-0717 Other Accessories (26 09 23 00-0670)		
26 09 23 00-0718 EA Pico® Wireless Control Wallplate Adapter (Lutron® PJ).....	45.82	
26 09 23 00-0719 EA Pico® Wireless Control (Lutron® PJ).....	57.61	
26 09 23 00-0720 EA 4-Scene Wireless Remote Control (Lutron® GRX-IT-WH).....	170.75	
26 09 23 00-0721 EA 8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH).....	325.49	
26 09 23 00-0722 EA 4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....	342.81	30.98
26 09 23 00-0723 EA seeTouch® QS Wallstation (Lutron® QSWS2).....	433.71	30.98
26 09 23 00-0724 EA seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2).....	433.71	30.98
26 09 23 00-0725 EA 120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S).....	710.25	34.43
26 09 23 00-0726 EA 120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S).....	972.64	34.43
26 09 23 00-0727 EA Control Interface (Lutron® QSE-CI-NWK-E).....	1,169.85	30.98
26 09 23 00-0728 EA 1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S).....	1,160.90	30.98
26 09 23 00-0729 EA 2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S).....	1,553.37	30.98
26 09 23 00-0730 MLF 5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S).....	2,598.16	962.69
26 09 23 00-0731 MLF 5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....	3,495.23	962.69
26 09 23 00-0732 Fixture Mounted Occupancy Sensors (Leviton) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0733 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW).....	167.36	30.98
26 09 23 00-0734 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-I4W).....	146.73	30.98
26 09 23 00-0735 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW).....	184.41	30.98
26 09 23 00-0736 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W).....	146.73	30.98
26 09 23 00-0737 EA 120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT).....	241.32	13.76
26 09 23 00-0738 Wireless Enabled Communication Devices For Streetlights (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0739 Wireless Enabled Communication Nodes For Streetlights (Roam®) (26 09 23 00-0738)		
26 09 23 00-0740 EA 120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1).....	366.91	
26 09 23 00-0741 EA 480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1).....	513.24	
26 09 23 00-0742 Wireless Enabled Communication Devices For Streetlights (Roam®) (26 09 23 00-0738)		
26 09 23 00-0743 EA Retrofit Receptacle Kit (Roam® DUR103).....	63.29	
26 09 23 00-0744 EA Note: For adapting light fixtures for use with a NEMA locking type photocontrol. Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127).....	14,783.69	75.31
26 09 23 00-0745 Counter Mounted Consolelets (26 09 23)		
26 09 23 00-0746 EA 20" x 24" Type 12, Oil Tight Consolelets, Counter Mounted (Schaefer's SPCL-20C24).....	734.77	171.90
26 09 23 00-0747 Lighting Console And Stations (26 09 23)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0748 EA 80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40) <i>For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add</i> <i>For Lighting Console Case (ETC ColorSourcePart 11866), Add</i>	5,230.45 113.00 1,204.85	171.90
26 09 23 00-0749 EA 10 Preset, Lighting Control Station (Doug Fleenor PRE10-A2)	3,611.52	103.14
26 09 23 00-0750 Theatre Lighting Console (26 09 23)		
26 09 23 00-0751 EA Theatre Lighting Console (ETC Colorsources 20)	3,762.26	206.29
26 09 23 00-0752 Lighting Controls (Daintree Networks) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0753 Wireless Sensors (26 09 23 00-0752)		
26 09 23 00-0754 EA Battery Powered, Passive Infrared, Ceiling Mount, 500 SF Coverage, 360 Degree View, Wireless Occupancy Sensor (Daintree Networks WOS2-CM-S).....	208.31	30.98
26 09 23 00-0755 EA Battery Powered, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View, Wireless Occupancy Sensor (Daintree Networks WOS2-CM-E).....	208.31	30.98
26 09 23 00-0756 EA Battery Powered, Passive Infrared, Wall Mount, Long-Range Lens, Wireless Occupancy Sensor (Daintree Networks WOS2-WM-L)	208.31	30.98
Note: 8' to 12' install height.		
26 09 23 00-0757 EA Battery Powered, Passive Infrared, Wall Mount, Wide-Angle Lens, Wireless Occupancy Sensor (Daintree Networks WOS2-WM-W).....	208.31	30.98
Note: 8' to 12' install height.		
26 09 23 00-0758 EA Battery Powered, Wireless Photosensor (Daintree Networks WPS1).....	179.04	30.98
Note: 8' to 12' install height.		
26 09 23 00-0759 Wireless Adaptors (26 09 23 00-0752)		
26 09 23 00-0760 EA Line Voltage, Wireless Adapter (Daintree Networks WA100)	243.60	41.32
Note: Includes on/off, 0-10V dimming and alternate/bi-level switching. Includes inputs for occupancy controller and photo sensor, and mounting bracket.		
26 09 23 00-0761 EA Line Voltage, Wireless Adapter With Power Monitoring (Daintree Networks WA100-PM).....	272.87	41.32
Note: Includes on/off, 0-10V dimming and alternate/bi-level switching. Includes inputs for occupancy controller and photo sensor, power monitoring, and mounting bracket.		
26 09 23 00-0762 EA Line Voltage, Wireless Fixture Adapter (Daintree Networks WFA100).....	190.92	41.32
Note: Includes on/off and 0-10V dimming.		
26 09 23 00-0763 EA Line Voltage, Wireless Fixture Adapter With Sensor Inputs (Daintree Networks WFA100-SN).....	205.56	41.32
Note: Includes on/off and 0-10V dimming. Includes inputs for occupancy controller and photo sensor.		
26 09 23 00-0764 EA Line Voltage, Wireless General Purpose Adapter (Daintree Networks WGA100)	302.14	41.32
Note: Includes mounting bracket.		
26 09 23 00-0765 Controllers (26 09 23 00-0752) Note: Includes programming for new controllers.		
26 09 23 00-0766 EA Site System Controller (Daintree Networks SC51)	3,035.08	68.86
Note: For single facility up to 1,000 wireless nodes. Excludes node licenses. Does not support CS-MFM.		
26 09 23 00-0767 EA Enterprise System Controller (Daintree Networks SC71)	5,083.71	68.86
Note: For single or multiple facilities up to 10,000 wireless nodes. Excludes node licenses. Up to 4,000 zones per facility. Single facility included, additional facilities require purchase of CS-MFM per facility. Includes rack rails.		
26 09 23 00-0768 EA Wireless Area Controller (Daintree Networks WAC50).....	1,210.24	
Note: Maximum capacity of 100 wireless nodes. Excludes node licenses.		
26 09 23 00-0769 EA BACnet Server (Daintree Networks CS-BAC)	5,961.69	68.86
Note: Requires purchase of additional CS-BAC-5 licenses for systems with more than 1,000 nodes.		
26 09 23 00-0770 Other Accessories (26 09 23 00-0752)		
26 09 23 00-0771 EA 10 To 30 Volt AC, Wireless Thermostat (Daintree Networks WTS10)	488.92	68.86
26 09 23 00-0772 EA Battery Powered, Wireless Wall Dimmer (Daintree Networks WWD1)	214.34	41.32
26 09 23 00-0773 EA SafePlug Model 1203 Wireless Plug Load Controller, Dual Receptacle (Daintree Networks RSP-1203).....	320.20	13.78
Note: ControlScope interoperable version is 9916 003 ZB HA or later.		
26 09 23 00-0774 EA SafePlug 1621 Reset Link Key (Daintree Networks RSP-1621).....	20.49	
Note: Required to reset a Safeplug 1203 to default settings.		
26 09 23 00-0775 Software And Support (26 09 23 00-0752)		
26 09 23 00-0776 EA Regular Node License Bundle (25 Regular Wireless Nodes) (Daintree Networks N25)	2,019.36	
Note: Includes 1 year of SUS.		
26 09 23 00-0777 EA Software Updates and Support - 1 Year Extension (5 Wireless Nodes) (Daintree Networks SUS1-5).....	131.70	
Note: Node total must match the number of wireless node licenses purchased or installed on the system.		
26 09 23 00-0778 EA Software Updates and Support - 3 Year Extension (5 Wireless Nodes) (Daintree Networks SUS3-5).....	321.93	
Note: Node total must match the number of wireless node licenses purchased or installed on the system.		
26 09 23 00-0779 EA Thermostat Node License Bundle (5 Thermostat Wireless Nodes) (Daintree Networks T5)	1,726.70	
Note: Includes 1 year of SUS.		
26 09 23 00-0780 EA BACnet Supplemental Node License Bundle (5 Additional Wireless Nodes) (Daintree Networks CS-BAC-5).....	29.27	
Note: Requires CS-BAC; Supports additional wireless nodes above 1,000. Node total must match the number of wireless node licenses purchased or installed on the system.		
26 09 23 00-0781 EA Multi-Facility Management (per additional facility) (Daintree Networks CS-MFM)	1,141.38	
Note: Requires SC71.		
26 09 23 00-0782 HR Engineering Assistance (Daintree Networks EAH1)	438.99	
26 09 23 00-0783 DAY Engineering Assistance (Daintree Networks EA1).....	3,511.94	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0784	EA	2-Year Hardware Warranty Extension (Daintree Networks HWE2-SC51) Note: Extends total hardware warranty to 3 years. Can be purchased before expiry of the included 1-year warranty.	936.52	
26 09 23 00-0785	EA	2-Year Hardware Warranty Extension (Daintree Networks HWE2-SC71) Note: Extends total hardware warranty to 3 years. Can be purchased before expiry of the included 1-year warranty.	1,726.70	
26 09 23 00-0786		Emergency Lighting Controls (26 09 23)		
26 09 23 00-0787		Emergency Lighting Control Units (Watt Stopper ELCU) (26 09 23 00-0786) Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.		
26 09 23 00-0788	EA	DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100)	257.07	34.43
26 09 23 00-0789	EA	1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200)	257.07	34.43
26 09 23 00-0790		Emergency Shunt Relays (Lighting Control & Design GR 2001™) (26 09 23 00-0786) Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.		
26 09 23 00-0791	EA	1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	426.88	48.20
26 09 23 00-0792	EA	2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	582.11	55.09
26 09 23 00-0793	EA	2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual)	784.86	61.98
		Note: Controls normal and emergency lighting from single-pole wall switch.		
26 09 23 00-0794		Photocells (26 09 23)		
26 09 23 00-0795	EA	Plug-In Photocell For Lighting Fixtures (Intermac® LC2000)	105.84	
26 09 23 00-0796	EA	Wired Photocell For Lighting Fixtures (Intermac® K4021C)	243.50	
26 09 23 00-0797		Outdoor Lighting Motion Sensors (26 09 23)		
26 09 23 00-0798	EA	70' Range, 180 Degree Detection Zone, 8 Amperes, Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000)	139.86	34.43
26 09 23 00-0799	EA	70' Range, 200 Degree Detection Zone, 10 Amperes, Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000)	152.73	34.43
26 09 23 00-0800	EA	30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR)	630.65	34.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.66	
26 09 23 00-0801		Street Light Controls (26 09 23)		
26 09 23 00-0802		Photo Controls (26 09 23 00-0801)		
26 09 23 00-0803	EA	Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014	110.48	
26 09 23 00-0804	EA	Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016	126.06	
26 09 23 00-0805		Connector Node (26 09 23 00-0801)		
26 09 23 00-0806	EA	Outdoor Lighting Connector Node (Philips City Touch LLC7260)	569.49	3.70
26 09 23 00-0807		Lighting Control Devices (Legrand) (26 09 23)		
26 09 23 00-0808	EA	Line-Voltage Wall Switch Occupancy Sensors (Legrand DW-100)	259.60	30.98
26 09 23 00-0809	EA	Line-Voltage Dimming Wall Switch Occupancy Sensors (Legrand DW-311)	349.93	30.98
26 09 23 00-0810	EA	Dual Technology, Ceiling Mount, Occupancy Sensor (Legrand LMDC-100)	560.05	44.76
26 09 23 00-0811	EA	1 Relay Digital Room Controller, 0-10V Dimming (Legrand LMRC-211)	420.38	30.98
26 09 23 00-0812	EA	2 Relay Digital Room Controller, 0-10V Dimming (Legrand LMRC-212)	575.80	37.88
26 09 23 00-0813	EA	1 Button, Digital Dimming Wall Switch (Legrand LMDM-101)	194.80	30.98
26 09 23 00-0814	EA	4 Button, Digital Wall Switch (Legrand LMSW-104)	250.25	51.64

26 10 Medium-Voltage Electrical Distribution (26)**26 11 Substations** (26 10)**26 11 13 Primary Unit Substations** (26 11)**26 11 13 00-0001 "Switchyard" Substation Primary Incoming Section** (26 11 13)**26 11 13 00-0002 Outdoor Oil Circuit Breakers "Switchyard"** (26 11 13 00-0001)

26 11 13 00-0003	EA	14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	94,433.03	2,380.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,452.95	
26 11 13 00-0004	EA	23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	115,801.54	3,010.93
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,816.19	
26 11 13 00-0005	EA	34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation	131,479.75	3,010.93
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,816.19	



		Electrical	26	26
		Medium-Voltage Electrical Distribution	26 10	
		Substations	26 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0006 EA 46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	151,370.18 1,937.27	3,010.93
26 11 13 00-0007 EA 69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	171,685.33 2,235.31	3,711.15
26 11 13 00-0008 Accessories For Outdoor Oil Circuit Breakers (26 11 13 00-0001)		
26 11 13 00-0009 EA Reclosure Relay, Adjustable, 3 Shot, #179 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,457.54 148.81	251.31
26 11 13 00-0010 EA Overcurrent Relay, 1 Phase, #51/51N For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	715.58 99.25	182.20
26 11 13 00-0011 EA Directional Overcurrent Relay, Three-Phase, Device No. 67 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,102.51 123.66	182.20
26 11 13 00-0012 EA Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	870.24 99.25	182.20
26 11 13 00-0013 EA Differential Relay Package, Complete, Device No. 87 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,254.85 371.78	615.71
26 11 13 00-0014 "Switchyard", Substation Transformer Section (26 11 13) Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range		
26 11 13 00-0015 14.4 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0016 EA 1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For Forced Air-Cooling, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	53,643.61 5,856.05 5,856.05 1,464.01 488.00 2,440.02 6,100.06 7,320.07	2,380.73
26 11 13 00-0017 EA 2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For Forced Air-Cooling, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	61,147.60 6,611.24 6,611.24 1,652.81 550.94 2,754.68 6,886.71 8,264.05	2,982.92
26 11 13 00-0018 EA 5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For Forced Air-Cooling, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	94,338.46 10,287.41 10,287.41 2,571.85 857.28 4,286.42 10,716.05 12,859.26	4,201.30
26 11 13 00-0019 EA 7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For Forced Air-Cooling, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	137,228.60 15,169.62 15,169.62 3,792.40 1,264.13 6,320.67 15,801.68 18,962.02	5,014.29
26 11 13 00-0020 EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For Forced Air-Cooling, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	168,993.08 18,656.90 18,656.90 4,664.22 1,554.74 7,773.71 19,434.27 23,321.12	6,489.08
26 11 13 00-0021 23 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0022 EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	59,735.66 6,441.81 1,610.45 536.82 2,684.09 6,710.21 8,052.26 4,294.54	3,220.99
26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	68,055.50 7,289.41 1,822.35 607.45 3,037.25 7,593.13 9,111.76 4,859.60	3,220.99

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0024	EA	5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	109,945.04	4,761.48
		For 50 Hz Operation, Add	12,031.05	
		For External Control Panel, Add	3,007.76	
		For Internally Mounted Current Transformers And Linear Couplers, Add	1,002.59	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,012.94	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	12,532.34	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	15,038.81	
		For Forced Air-Cooling, Add	8,020.70	
26 11 13 00-0025	EA	7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	147,197.62	6,489.08
		For 50 Hz Operation, Add	16,041.44	
		For External Control Panel, Add	4,010.36	
		For Internally Mounted Current Transformers And Linear Couplers, Add	1,336.79	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	6,683.94	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	16,709.84	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	20,051.81	
		For Forced Air-Cooling, Add	10,694.30	
26 11 13 00-0026	EA	10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	183,523.43	6,489.08
		For 50 Hz Operation, Add	20,400.54	
		For External Control Panel, Add	5,100.14	
		For Internally Mounted Current Transformers And Linear Couplers, Add	1,700.05	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	8,500.23	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	21,250.56	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	25,500.68	
		For Forced Air-Cooling, Add	13,600.36	
26 11 13 00-0027 34.5 KV Nominal Primary (26 11 13 00-0014)				
26 11 13 00-0028	EA	1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	75,118.85	3,851.20
		For 50 Hz Operation, Add	8,137.01	
		For External Control Panel, Add	2,034.25	
		For Internally Mounted Current Transformers And Linear Couplers, Add	678.08	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,390.42	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,476.05	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,171.26	
		For Forced Air-Cooling, Add	5,424.67	
26 11 13 00-0029	EA	2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	90,740.87	6,021.87
		For 50 Hz Operation, Add	9,832.21	
		For External Control Panel, Add	2,458.05	
		For Internally Mounted Current Transformers And Linear Couplers, Add	819.35	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,096.76	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	10,241.89	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	12,290.27	
		For Forced Air-Cooling, Add	6,554.81	
26 11 13 00-0030	EA	5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	125,444.67	6,021.87
		For 50 Hz Operation, Add	13,600.41	
		For External Control Panel, Add	3,400.10	
		For Internally Mounted Current Transformers And Linear Couplers, Add	1,133.37	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,666.84	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	14,167.10	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	17,000.51	
		For Forced Air-Cooling, Add	9,066.94	
26 11 13 00-0031	EA	7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	161,727.85	6,341.60
		For 50 Hz Operation, Add	17,785.07	
		For External Control Panel, Add	4,446.27	
		For Internally Mounted Current Transformers And Linear Couplers, Add	1,482.09	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,410.45	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	18,526.12	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	22,231.34	
		For Forced Air-Cooling, Add	11,856.71	
26 11 13 00-0032	EA	10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	281,755.78	8,111.35
		For 50 Hz Operation, Add	31,734.19	
		For External Control Panel, Add	7,933.55	
		For Internally Mounted Current Transformers And Linear Couplers, Add	2,644.52	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	13,222.58	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	33,056.45	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	39,667.74	
		For Forced Air-Cooling, Add	21,156.13	
26 11 13 00-0033 46 KV Nominal Primary (26 11 13 00-0014)				
26 11 13 00-0034	EA	1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	116,074.53	4,481.39
		For 50 Hz Operation, Add	12,872.25	
		For External Control Panel, Add	3,218.06	
		For Internally Mounted Current Transformers And Linear Couplers, Add	1,072.69	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,363.44	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	13,408.60	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	16,090.32	
		For Forced Air-Cooling, Add	8,581.50	
26 11 13 00-0035	EA	2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	131,298.58	4,481.39
		For 50 Hz Operation, Add	14,593.47	
		For External Control Panel, Add	3,648.37	
		For Internally Mounted Current Transformers And Linear Couplers, Add	1,216.12	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	6,080.61	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	15,201.53	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	18,241.84	
		For Forced Air-Cooling, Add	9,728.98	



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Medium-Voltage Electrical Distribution		26 10	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0036	EA	5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	182,359.94	6,021.87
		For 50 Hz Operation, Add	20,430.24	
		For External Control Panel, Add	5,107.56	
		For Internally Mounted Current Transformers And Linear Couplers, Add	1,702.52	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	8,512.60	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	21,281.50	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	25,537.80	
		For Forced Air-Cooling, Add	13,620.16	
26 11 13 00-0037	EA	7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	221,881.99	8,111.35
		For 50 Hz Operation, Add	24,549.33	
		For External Control Panel, Add	6,137.33	
		For Internally Mounted Current Transformers And Linear Couplers, Add	2,045.78	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	10,228.89	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	25,572.22	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	30,686.67	
		For Forced Air-Cooling, Add	16,366.22	
26 11 13 00-0038	EA	10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	318,171.58	8,111.35
		For 50 Hz Operation, Add	36,104.08	
		For External Control Panel, Add	9,026.02	
		For Internally Mounted Current Transformers And Linear Couplers, Add	3,008.67	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	15,043.37	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	37,608.42	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	45,130.11	
		For Forced Air-Cooling, Add	24,069.39	
26 11 13 00-0039 69 KV Nominal Primary (26 11 13 00-0014)				
26 11 13 00-0040	EA	1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	168,181.82	4,761.48
		For 50 Hz Operation, Add	19,019.46	
		For External Control Panel, Add	4,754.86	
		For Internally Mounted Current Transformers And Linear Couplers, Add	1,584.95	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,924.77	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	19,811.94	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	23,774.32	
		For Forced Air-Cooling, Add	12,679.64	
26 11 13 00-0041	EA	2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	192,803.20	6,021.87
		For 50 Hz Operation, Add	21,683.43	
		For External Control Panel, Add	5,420.86	
		For Internally Mounted Current Transformers And Linear Couplers, Add	1,806.95	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	9,034.76	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	22,586.91	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	27,104.29	
		For Forced Air-Cooling, Add	14,455.62	
26 11 13 00-0042	EA	5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	266,626.51	6,021.87
		For 50 Hz Operation, Add	30,542.23	
		For External Control Panel, Add	7,635.56	
		For Internally Mounted Current Transformers And Linear Couplers, Add	2,545.19	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	12,725.93	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	31,814.63	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	38,177.79	
		For Forced Air-Cooling, Add	20,361.49	
26 11 13 00-0043	EA	7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	280,699.23	8,111.35
		For 50 Hz Operation, Add	31,607.40	
		For External Control Panel, Add	7,901.85	
		For Internally Mounted Current Transformers And Linear Couplers, Add	2,633.95	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	13,169.75	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	32,924.38	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	39,509.25	
		For Forced Air-Cooling, Add	21,071.60	
26 11 13 00-0044	EA	10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	369,616.02	8,111.35
		For 50 Hz Operation, Add	42,277.42	
		For External Control Panel, Add	10,569.35	
		For Internally Mounted Current Transformers And Linear Couplers, Add	3,523.12	
		For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	17,615.59	
		For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	44,038.98	
		For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	52,846.77	
		For Forced Air-Cooling, Add	28,184.94	
26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV (26 11 13)				
26 11 13 00-0046	EA	1,200 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	101,910.14	1,138.86
26 11 13 00-0047	EA	1,200 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	111,991.86	1,138.86
26 11 13 00-0048	EA	1,200 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	127,399.58	1,414.65
26 11 13 00-0049	EA	2,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	118,790.24	1,701.03
26 11 13 00-0050	EA	2,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	134,020.82	1,701.03
26 11 13 00-0051	EA	2,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	152,865.78	1,976.23
26 11 13 00-0052	EA	3,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	157,390.33	2,257.84
26 11 13 00-0053	EA	3,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	176,353.26	2,257.84
26 11 13 00-0054	EA	3,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	184,690.25	2,535.57
26 11 16 Secondary Unit Substations (26 11)				
26 11 16 11 Secondary Unit Substations with Switchgear Secondary (26 11 16)				
26 11 16 11-0001		Substation Primary Incoming Section (26 11 16 11)		

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0002 Manual Transferring Fused Load Break Switches (26 11 16 11-0001)					
Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.					
26 11 16 11-0003	EA	112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	47,300.34	1,672.37	
26 11 16 11-0004	EA	2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	54,651.62	1,672.37	
26 11 16 11-0005 Automatic Transferring Fused Load Break Switches (26 11 16 11-0001)					
Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.					
26 11 16 11-0006	EA	112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch	66,976.06	1,672.37	
26 11 16 11-0007	EA	2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch	71,760.32	1,672.37	
26 11 16 11-0008 Accessories For Substation Fused Load Break Switches (26 11 16 11-0001)					
26 11 16 11-0009	EA	Primary Lightning Arrestors Accessories, Secondary Distribution Section	28,793.32		
26 11 16 11-0010	EA	Key Interlock Accessories, Secondary Distribution Section	2,802.66		
26 11 16 11-0011 Oil Filled Substation Transformers (26 11 16 11)					
Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.					
26 11 16 11-0012 Substation, Primary 13.8 KV Secondary 480Y/277 Or 480 Volt, 60 HZ (26 11 16 11-0011)					
26 11 16 11-0013	EA	75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	49,705.43	1,050.32	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			3,332.33		
For Control Power Transformer On Fans And Auxiliary, Add			1,428.14		
For Internal Mounted Current Transformer And Linear Coupler, Add			476.05		
26 11 16 11-0014	EA	112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	73,624.83	1,260.39	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			4,977.28		
For Control Power Transformer On Fans And Auxiliary, Add			2,133.12		
For Internal Mounted Current Transformer And Linear Coupler, Add			711.04		
26 11 16 11-0015	EA	150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	83,388.98	1,400.44	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			5,641.17		
For Control Power Transformer On Fans And Auxiliary, Add			2,417.64		
For Internal Mounted Current Transformer And Linear Coupler, Add			805.88		
26 11 16 11-0016	EA	225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	98,465.14	1,750.54	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			6,647.48		
For Control Power Transformer On Fans And Auxiliary, Add			2,848.92		
For Internal Mounted Current Transformer And Linear Coupler, Add			949.64		
26 11 16 11-0017	EA	300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	109,291.87	2,170.67	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			7,346.54		
For Control Power Transformer On Fans And Auxiliary, Add			3,148.52		
For Internal Mounted Current Transformer And Linear Coupler, Add			1,049.51		
26 11 16 11-0018	EA	500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	116,109.79	2,660.82	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			7,755.17		
For Control Power Transformer On Fans And Auxiliary, Add			3,323.64		
For Internal Mounted Current Transformer And Linear Coupler, Add			1,107.88		
26 11 16 11-0019	EA	750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	135,657.98	3,220.99	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			9,045.12		
For Control Power Transformer On Fans And Auxiliary, Add			3,876.48		
For Internal Mounted Current Transformer And Linear Coupler, Add			1,292.16		
26 11 16 11-0020	EA	1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	144,388.90	3,501.08	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			9,617.07		
For Control Power Transformer On Fans And Auxiliary, Add			4,121.60		
For Internal Mounted Current Transformer And Linear Coupler, Add			1,373.87		
26 11 16 11-0021	EA	1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	161,483.51	3,851.20	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			10,764.68		
For Control Power Transformer On Fans And Auxiliary, Add			4,613.43		
For Internal Mounted Current Transformer And Linear Coupler, Add			1,537.81		
26 11 16 11-0022	EA	2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	187,170.96	4,271.32	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			12,503.98		
For Control Power Transformer On Fans And Auxiliary, Add			5,358.85		
For Internal Mounted Current Transformer And Linear Coupler, Add			1,786.28		
26 11 16 11-0023	EA	2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	205,604.83	4,656.45	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			13,740.44		
For Control Power Transformer On Fans And Auxiliary, Add			5,888.76		
For Internal Mounted Current Transformer And Linear Coupler, Add			1,962.92		
26 11 16 11-0024 Substation, Primary 13.8 KV Secondary 208Y/120 Volt, 60 HZ (26 11 16 11-0011)					
26 11 16 11-0025	EA	75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	47,330.49	1,050.32	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			3,166.09		
For Control Power Transformer On Fans And Auxiliary, Add			1,356.90		
For Internal Mounted Current Transformer And Linear Coupler, Add			452.30		
26 11 16 11-0026	EA	112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof	72,434.60	1,050.32	
For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add			4,923.38		
For Control Power Transformer On Fans And Auxiliary, Add			2,110.02		
For Internal Mounted Current Transformer And Linear Coupler, Add			703.34		



		Electrical	26	26
		Medium-Voltage Electrical Distribution	26 10	
		Substations	26 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0027 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	83,336.42 5,637.49 2,416.07 805.36	1,400.44
26 11 16 11-0028 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	98,555.56 6,653.81 2,851.63 950.54	1,750.54
26 11 16 11-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	118,520.32 7,992.53 3,425.37 1,141.79	2,170.67
26 11 16 11-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	127,600.87 8,559.55 3,668.38 1,222.79	2,660.82
26 11 16 11-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	140,964.12 9,416.55 4,035.66 1,345.22	3,220.99
26 11 16 11-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	153,529.21 10,256.89 4,395.81 1,465.27	3,501.08
26 11 16 11-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	173,303.33 11,592.07 4,968.03 1,656.01	3,851.20
26 11 16 11-0034 Accessories For Oil Filled Substation Transformers (26 11 16 11-0011)		
26 11 16 11-0035 EA Sudden Pressure Relay.....	14,428.82	
26 11 16 11-0036 EA Throats Or Flanges (HV Or LV).....	28,646.11	
26 11 16 11-0037 EA Lightning Arrestors (3 - 1 Pole).....	18,862.36	
26 11 16 11-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X).....	104,676.64	
26 11 16 11-0039 EA Oil Fuse Cutout, 15 KV, 200 Amperes, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout	97,935.41	
26 11 16 11-0040 Reinforced Concrete Curb With 6" Slab (26 11 16 11-0011) Note: For transformer liquid containment area.		
26 11 16 11-0041 EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,202.79	1,420.71
26 11 16 11-0042 EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,202.79	1,420.71
26 11 16 11-0043 EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,202.79	1,420.71
26 11 16 11-0044 EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,202.79	1,420.71
26 11 16 11-0045 EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,202.79	1,420.71
26 11 16 11-0046 EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,202.79	1,420.71
26 11 16 11-0047 EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,202.79	1,420.71
26 11 16 11-0048 EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	12,630.82	1,638.11
26 11 16 11-0049 Dry Type Substation Transformer (26 11 16 11) Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.		
26 11 16 11-0050 Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049) Note: Primary 4.160 or 4.8 KV (delta or wye).		
26 11 16 11-0051 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	88,171.17 51,558.29 -2,148.26 19,128.77	1,120.35
26 11 16 11-0052 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	88,311.21 51,558.29 -2,148.26 19,142.78	1,190.37
26 11 16 11-0053 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	89,850.64 52,229.87 -2,176.24 19,431.04	1,400.44
26 11 16 11-0054 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	99,182.08 57,660.68 -2,402.53 21,450.34	1,540.48
26 11 16 11-0055 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	109,860.02 63,731.33 -2,655.47 23,732.27	1,820.57
26 11 16 11-0056 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	127,297.82 73,857.91 -3,077.41 27,501.36	2,100.65
26 11 16 11-0057 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	147,633.28 85,555.03 -3,564.79 31,874.33	2,520.78

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0058	EA	1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	174,862.76	2,800.86
		For Gas Filled Transformers, Add	101,556.61	
		For Single Phase Transformers, Deduct	-4,231.53	
		For Dry Type Unit, Add	37,797.60	
26 11 16 11-0059	EA	2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	227,979.07	2,940.91
		For Gas Filled Transformers, Add	133,258.35	
		For Single Phase Transformers, Deduct	-5,552.43	
		For Dry Type Unit, Add	49,449.58	
26 11 16 11-0060 Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 Volt (26 11 16 11-0049)				
Note: Primary 4.16 or 4.8 KV (delta or wye).				
26 11 16 11-0061	EA	112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	85,121.74	1,120.35
		For Gas Filled Transformers, Add	49,728.63	
		For Single Phase Transformers, Deduct	-2,072.03	
		For Dry Type Unit, Add	18,457.90	
26 11 16 11-0062	EA	150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	88,311.21	1,190.37
		For Gas Filled Transformers, Add	51,558.29	
		For Single Phase Transformers, Deduct	-2,148.26	
		For Dry Type Unit, Add	19,142.78	
26 11 16 11-0063	EA	225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	89,850.64	1,400.44
		For Gas Filled Transformers, Add	52,229.87	
		For Single Phase Transformers, Deduct	-2,176.24	
		For Dry Type Unit, Add	19,431.04	
26 11 16 11-0064	EA	300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	99,182.08	1,540.48
		For Gas Filled Transformers, Add	57,660.68	
		For Single Phase Transformers, Deduct	-2,402.53	
		For Dry Type Unit, Add	21,450.34	
26 11 16 11-0065	EA	500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	109,860.02	1,820.57
		For Gas Filled Transformers, Add	63,731.33	
		For Single Phase Transformers, Deduct	-2,655.47	
		For Dry Type Unit, Add	23,732.27	
26 11 16 11-0066	EA	750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	127,297.82	2,100.65
		For Gas Filled Transformers, Add	73,857.91	
		For Single Phase Transformers, Deduct	-3,077.41	
		For Dry Type Unit, Add	27,501.36	
26 11 16 11-0067	EA	1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	147,633.28	2,520.78
		For Gas Filled Transformers, Add	85,555.03	
		For Single Phase Transformers, Deduct	-3,564.79	
		For Dry Type Unit, Add	31,874.33	
26 11 16 11-0068	EA	1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	174,862.76	2,800.86
		For Gas Filled Transformers, Add	101,556.61	
		For Single Phase Transformers, Deduct	-4,231.53	
		For Dry Type Unit, Add	37,797.60	
26 11 16 11-0069	EA	2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	227,979.07	2,940.91
		For Gas Filled Transformers, Add	133,258.35	
		For Single Phase Transformers, Deduct	-5,552.43	
		For Dry Type Unit, Add	49,449.58	
26 11 16 11-0070	EA	2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	250,521.77	3,080.95
		For Gas Filled Transformers, Add	146,615.92	
		For Single Phase Transformers, Deduct	-6,109.00	
		For Dry Type Unit, Add	54,375.36	
26 11 16 11-0071	EA	3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	280,035.84	3,220.99
		For Gas Filled Transformers, Add	164,156.31	
		For Single Phase Transformers, Deduct	-6,839.85	
		For Dry Type Unit, Add	60,834.85	
26 11 16 11-0072	EA	3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	323,466.25	3,361.04
		For Gas Filled Transformers, Add	190,046.50	
		For Single Phase Transformers, Deduct	-7,918.60	
		For Dry Type Unit, Add	70,355.93	
26 11 16 11-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049)				
26 11 16 11-0074	EA	112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	94,761.65	1,260.39
		For Gas Filled Transformers, Add	55,344.52	
		For Single Phase Transformers, Deduct	-2,306.02	
		For Dry Type Unit, Add	20,545.07	
26 11 16 11-0075	EA	150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	97,933.49	1,330.41
		For Gas Filled Transformers, Add	57,163.60	
		For Single Phase Transformers, Deduct	-2,381.82	
		For Dry Type Unit, Add	21,226.07	
26 11 16 11-0076	EA	225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	104,567.06	1,540.48
		For Gas Filled Transformers, Add	60,891.67	
		For Single Phase Transformers, Deduct	-2,537.15	
		For Dry Type Unit, Add	22,635.04	
26 11 16 11-0077	EA	300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	110,311.44	1,680.52
		For Gas Filled Transformers, Add	64,170.24	
		For Single Phase Transformers, Deduct	-2,673.76	
		For Dry Type Unit, Add	23,865.19	
26 11 16 11-0078	EA	500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	125,713.35	1,960.61
		For Gas Filled Transformers, Add	73,075.28	
		For Single Phase Transformers, Deduct	-3,044.80	
		For Dry Type Unit, Add	27,186.39	



		Electrical	26
		Medium-Voltage Electrical Distribution	26 10
		Substations	26 11

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0079	EA	750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	139,202.76	2,240.69
		For Gas Filled Transformers, Add	80,832.82	
		For Single Phase Transformers, Deduct	-3,368.03	
		For Dry Type Unit, Add	30,086.84	
26 11 16 11-0080	EA	1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	162,473.08	2,660.82
		For Gas Filled Transformers, Add	94,290.86	
		For Single Phase Transformers, Deduct	-3,928.79	
		For Dry Type Unit, Add	35,105.48	
26 11 16 11-0081	EA	1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	197,361.38	2,940.91
		For Gas Filled Transformers, Add	114,887.74	
		For Single Phase Transformers, Deduct	-4,786.99	
		For Dry Type Unit, Add	42,713.69	
26 11 16 11-0082	EA	2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	239,346.40	3,080.95
		For Gas Filled Transformers, Add	139,910.69	
		For Single Phase Transformers, Deduct	-5,829.61	
		For Dry Type Unit, Add	51,916.78	
26 11 16 11-0083 Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 Or 480 Volt (26 11 16 11-0049)				
26 11 16 11-0084	EA	112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	94,761.65	1,260.39
		For Gas Filled Transformers, Add	55,344.52	
		For Single Phase Transformers, Deduct	-2,306.02	
		For Dry Type Unit, Add	20,545.07	
26 11 16 11-0085	EA	150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	97,933.49	1,330.41
		For Gas Filled Transformers, Add	57,163.60	
		For Single Phase Transformers, Deduct	-2,381.82	
		For Dry Type Unit, Add	21,226.07	
26 11 16 11-0086	EA	225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	104,567.06	1,540.48
		For Gas Filled Transformers, Add	60,891.67	
		For Single Phase Transformers, Deduct	-2,537.15	
		For Dry Type Unit, Add	22,635.04	
26 11 16 11-0087	EA	300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	110,311.44	1,680.52
		For Gas Filled Transformers, Add	64,170.24	
		For Single Phase Transformers, Deduct	-2,673.76	
		For Dry Type Unit, Add	23,865.19	
26 11 16 11-0088	EA	500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	125,713.35	1,960.61
		For Gas Filled Transformers, Add	73,075.28	
		For Single Phase Transformers, Deduct	-3,044.80	
		For Dry Type Unit, Add	27,186.39	
26 11 16 11-0089	EA	750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	121,576.00	2,240.69
		For Gas Filled Transformers, Add	70,256.77	
		For Single Phase Transformers, Deduct	-2,927.37	
		For Dry Type Unit, Add	26,208.95	
26 11 16 11-0090	EA	1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	126,260.85	2,660.82
		For Gas Filled Transformers, Add	72,563.52	
		For Single Phase Transformers, Deduct	-3,023.48	
		For Dry Type Unit, Add	27,138.79	
26 11 16 11-0091	EA	1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	155,872.54	2,940.91
		For Gas Filled Transformers, Add	89,994.43	
		For Single Phase Transformers, Deduct	-3,749.77	
		For Dry Type Unit, Add	33,586.14	
26 11 16 11-0092	EA	2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	185,571.38	3,080.95
		For Gas Filled Transformers, Add	107,645.68	
		For Single Phase Transformers, Deduct	-4,485.24	
		For Dry Type Unit, Add	40,086.27	
26 11 16 11-0093	EA	2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	207,844.11	3,220.99
		For Gas Filled Transformers, Add	120,841.27	
		For Single Phase Transformers, Deduct	-5,035.05	
		For Dry Type Unit, Add	44,952.67	
26 11 16 11-0094	EA	3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	244,765.03	3,361.04
		For Gas Filled Transformers, Add	142,825.77	
		For Single Phase Transformers, Deduct	-5,951.07	
		For Dry Type Unit, Add	53,041.66	
26 11 16 11-0095	EA	3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	301,271.23	3,501.08
		For Gas Filled Transformers, Add	176,561.44	
		For Single Phase Transformers, Deduct	-7,356.73	
		For Dry Type Unit, Add	65,439.41	

26 12 Medium-Voltage Transformers (26 10)**26 12 13 Liquid-Filled, Medium-Voltage Transformers** (26 12)**26 12 13 00-0001 Removal And Relocation Of Transformers** (26 12 13)

26 12 13 00-0002	EA	Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer	1,408.67	
26 12 13 00-0003	EA	Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers	2,592.34	

26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers (26 12 13)

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA (26 12 13 00-0004)

26 12 13 00-0006	EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	10,155.10	567.60
26 12 13 00-0007	EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	12,131.42	709.51

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0008	EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	14,053.10	851.41
26 12 13 00-0009	EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	18,260.92	1,064.26
26 12 13 00-0010	EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	21,649.13	1,277.11
26 12 13 00-0011	EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	30,582.96	1,489.96
26 12 13 00-0012	EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	36,206.78	1,773.77
26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent Taps FCAN And FCBN. Rated To 5 KVA (26 12 13 00-0004)				
26 12 13 00-0014	EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	10,155.10	567.60
26 12 13 00-0015	EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	12,379.10	709.51
26 12 13 00-0016	EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	14,053.10	851.41
26 12 13 00-0017	EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	18,260.92	1,064.26
26 12 13 00-0018	EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	21,649.13	1,277.11
26 12 13 00-0019	EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	28,037.05	1,489.96
26 12 13 00-0020	EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	34,913.94	1,773.77
26 12 13 00-0021 Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCBN And FCAN (26 12 13 00-0004)				
26 12 13 00-0022	EA	10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	9,866.13	567.60
26 12 13 00-0023	EA	15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	11,347.08	709.51
26 12 13 00-0024	EA	25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	13,277.39	851.41
26 12 13 00-0025	EA	37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	18,081.91	1,064.26
26 12 13 00-0026	EA	50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	20,893.31	1,277.11
26 12 13 00-0027	EA	75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	28,514.41	1,489.96
26 12 13 00-0028	EA	100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	35,033.28	1,773.77
26 12 13 00-0029 Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent Taps FCBN And FCAN (26 12 13 00-0004)				
26 12 13 00-0030	EA	10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	11,207.76	567.60
26 12 13 00-0031	EA	15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	12,729.99	709.51
26 12 13 00-0032	EA	25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	16,900.72	851.41
26 12 13 00-0033	EA	37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	21,307.08	1,064.26
26 12 13 00-0034	EA	50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	24,508.77	1,277.11
26 12 13 00-0035	EA	75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	33,861.42	1,489.96
26 12 13 00-0036	EA	100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	43,665.12	1,773.77
26 12 13 00-0037 Transformer Platforms (26 12 13 00-0004)				
26 12 13 00-0038	EA	Transformer Platforms, 75 - 167 KVA	5,131.98	958.54
26 12 13 00-0039 Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Tops FCBN Auto FCAN (26 12 13 00-0004)				
26 12 13 00-0040	EA	10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	12,431.18	567.60
26 12 13 00-0041	EA	15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	13,840.82	709.51
26 12 13 00-0042	EA	25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	16,901.72	851.41
26 12 13 00-0043	EA	37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	21,305.40	1,064.26
26 12 13 00-0044	EA	50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	24,650.09	1,348.07
26 12 13 00-0045	EA	75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	33,865.59	1,489.96
26 12 13 00-0046	EA	100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	43,665.12	1,773.77
26 12 13 00-0047	EA	167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	58,543.85	2,270.43
26 12 13 00-0048	EA	250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	74,740.74	3,050.88
26 12 13 00-0049	EA	333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	87,592.93	3,547.54
26 12 13 00-0050	EA	500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	112,178.57	3,831.34
26 12 13 00-0051 Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL (26 12 13 00-0004)				
26 12 13 00-0052	EA	10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	10,155.10	695.04
26 12 13 00-0053	EA	15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	12,131.42	868.72
26 12 13 00-0054	EA	25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	14,052.51	1,041.41
26 12 13 00-0055	EA	37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	18,262.29	1,305.06
26 12 13 00-0056	EA	50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	21,647.82	1,563.33
26 12 13 00-0057	EA	75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	30,581.19	1,820.73
26 12 13 00-0058	EA	100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	36,206.78	2,171.94
26 12 13 00-0059 Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN (26 12 13 00-0004)				
26 12 13 00-0060	EA	10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	10,155.10	695.04
26 12 13 00-0061	EA	15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	12,379.10	868.72
26 12 13 00-0062	EA	25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	14,052.51	1,041.41
26 12 13 00-0063	EA	37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	18,262.29	1,305.06
26 12 13 00-0064	EA	50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	21,647.82	1,563.33
26 12 13 00-0065	EA	75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	28,035.28	1,820.73



Electrical			26	26
Medium-Voltage Electrical Distribution			26 10	
Medium-Voltage Transformers			26 12	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0066	EA	100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	34,913.94		2,171.94
26 12 13 00-0067		Primary 7.2 To 14.4 KV Ground Y (26 12 13 00-0004)			
26 12 13 00-0068		Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN (26 12 13 00-0067)			
26 12 13 00-0069	EA	10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,984.10		567.60
26 12 13 00-0070	EA	15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	9,468.80		709.51
26 12 13 00-0071	EA	25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,895.26		851.41
26 12 13 00-0072	EA	37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	14,328.22		1,064.26
26 12 13 00-0073	EA	50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	18,033.86		1,277.11
26 12 13 00-0074	EA	75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	29,243.69		1,489.96
26 12 13 00-0075	EA	100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	33,570.05		1,773.77
26 12 13 00-0076		Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN (26 12 13 00-0067)			
26 12 13 00-0077	EA	10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,327.35		567.60
26 12 13 00-0078	EA	15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,643.18		709.51
26 12 13 00-0079	EA	25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,519.98		851.41
26 12 13 00-0080	EA	37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	13,577.65		1,064.26
26 12 13 00-0081	EA	50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	17,001.84		1,277.11
26 12 13 00-0082	EA	75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	25,490.87		1,489.96
26 12 13 00-0083	EA	100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	29,817.24		1,773.77
26 12 16		Dry-Type, Medium-Voltage Transformers (26 12)			
26 12 16 00-0001		Removal and Relocation of Transformers (26 12 16)			
26 12 16 00-0002	EA	Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer	581.18		
26 12 16 00-0003	EA	Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer	2,583.02		
26 12 19		Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers (26 12)			
26 12 19 00-0001		Single Phase Pad Mounted Oil Filled Distribution Transformers (26 12 19) Note: Designed for residential and multi-family buildings. UL listed.			
26 12 19 00-0002		Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled (26 12 19 00-0001) Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.			
26 12 19 00-0003		Primary, 4.16/4.8 KV Ground Y Or Delta (26 12 19 00-0002) Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.			
26 12 19 00-0004	EA	25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	24,760.62		700.22
26 12 19 00-0005	EA	37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	26,810.62		840.26
26 12 19 00-0006	EA	50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	31,995.13		980.31
26 12 19 00-0007	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	39,856.59		1,050.32
26 12 19 00-0008	EA	100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	45,367.18		1,120.35
26 12 19 00-0009	EA	167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	59,362.03		1,470.45
26 12 19 00-0010		Factory Modifications Material Cost Only (26 12 19 00-0002)			
26 12 19 00-0011	EA	Loadbreaker Current Limiting Fuse Factory Modifications.....	5,593.47		
26 12 19 00-0012	EA	Loadbreaker Oil Switch, 2 Position Factory Modifications	5,877.20		
26 12 19 00-0013	EA	Loadbreaker Inserts, Factory Modifications.....	6,464.92		
26 12 19 00-0014		Distribution - Single Phase Multiple Building Transformer (26 12 19 00-0001) Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.			
26 12 19 00-0015		Primary, 4.16/4.8 KVA Ground Y Or Delta (26 12 19 00-0014) Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.			
26 12 19 00-0016	EA	25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	31,555.03		700.22
26 12 19 00-0017	EA	37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	35,365.22		700.22
26 12 19 00-0018	EA	50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	37,858.07		959.30
26 12 19 00-0019	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	47,575.17		959.30
26 12 19 00-0020	EA	100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	53,460.02		1,260.39
26 12 19 00-0021	EA	167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	64,038.97		1,260.39

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0022	EA	250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	104,352.22	1,750.54
26 12 19 00-0023		Factory Modifications Material Cost Only (26 12 19 00-0014)		
26 12 19 00-0024	EA	Loadbreaker Current Limiting Fuse Factory Modifications	7,457.96	
26 12 19 00-0025	EA	Lightning Arrestors, Factory Modifications	1,889.64	
26 12 19 00-0026	EA	Loadbreaker Oil Switch, 2 Position Factory Modifications	5,877.20	
26 12 19 00-0027	EA	Loop Feed Air Switch, Factory Modifications	9,565.65	
26 12 19 00-0028	EA	Loadbreaker Inserts (Two), Factory Modifications	2,553.54	
26 12 19 00-0029	EA	Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications	2,209.02	
26 12 19 00-0030		Primary, 12.47 KV Ground Y Or Delta (26 12 19 00-0014)		
Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.				
26 12 19 00-0031	EA	25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	34,303.73	700.22
26 12 19 00-0032	EA	37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	36,294.55	700.22
26 12 19 00-0033	EA	50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	37,498.53	959.30
26 12 19 00-0034	EA	75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	45,400.80	959.30
26 12 19 00-0035	EA	100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	58,002.30	1,260.39
26 12 19 00-0036	EA	167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	72,077.89	1,260.53
26 12 19 00-0037	EA	250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	91,551.66	1,750.54
26 12 19 00-0038		Oil Filled Distribution Transformer Single Phase Cluster Mounted (26 12 19 00-0001)		
Note: Conventional type.				
26 12 19 00-0039		13.8/14.4 KV Ground Y Or Delta Primary 120/240V (26 12 19 00-0038)		
Note: 2.5 Taps FCBN and FCAN.				
26 12 19 00-0040	EA	10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	22,715.74	477.82
26 12 19 00-0041	EA	37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	27,977.21	671.93
26 12 19 00-0042	EA	50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	43,019.58	1,075.09
26 12 19 00-0043	EA	100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	78,072.73	1,075.09
26 12 19 00-0044	EA	167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	107,888.06	1,761.96
26 12 19 00-0045	EA	250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	145,765.32	1,761.96
26 12 19 00-0046		Oil Filled Distribution Transformer Single Phase (26 12 19 00-0001)		
26 12 19 00-0047		7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0048	EA	10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,983.90	507.68
26 12 19 00-0049	EA	15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	23,974.88	507.68
26 12 19 00-0050	EA	25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,355.01	716.73
26 12 19 00-0051	EA	37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	36,355.59	716.73
26 12 19 00-0052	EA	50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	41,843.61	970.57
26 12 19 00-0053	EA	100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	76,203.70	1,493.19
26 12 19 00-0054	EA	167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	106,424.39	1,493.19
26 12 19 00-0055	EA	250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	143,506.01	1,866.48
26 12 19 00-0056		7.2 KV Primary, 240/480 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0057	EA	10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,983.90	507.68
26 12 19 00-0058	EA	15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	23,975.63	507.68
26 12 19 00-0059	EA	25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,355.01	716.73
26 12 19 00-0060	EA	37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	36,355.59	716.73
26 12 19 00-0061	EA	50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	41,843.61	970.57
26 12 19 00-0062	EA	75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	65,293.74	1,314.01
26 12 19 00-0063	EA	100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	76,203.70	1,314.01
26 12 19 00-0064	EA	167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	106,424.39	1,657.44
26 12 19 00-0065	EA	250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	143,506.01	1,866.48
26 12 19 00-0066		2.4 KV Primary, 277 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0067	EA	10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	24,280.47	507.68
26 12 19 00-0068	EA	15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	26,477.68	507.68
26 12 19 00-0069	EA	25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	31,322.36	716.73
26 12 19 00-0070	EA	37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	40,146.27	716.73
26 12 19 00-0071	EA	50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	46,202.16	970.57
26 12 19 00-0072	EA	75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	71,936.99	1,314.01
26 12 19 00-0073	EA	100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	84,229.32	1,314.01
26 12 19 00-0074	EA	167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	117,689.03	1,657.44
26 12 19 00-0075	EA	250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	158,776.57	1,866.48



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Transformers		26 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0076 2.4 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0077 EA 10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,983.90	507.68
26 12 19 00-0078 EA 15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	23,974.88	507.68
26 12 19 00-0079 EA 25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,355.01	975.20
26 12 19 00-0080 EA 37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	36,355.59	1,314.01
26 12 19 00-0081 EA 50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	41,843.61	970.57
26 12 19 00-0082 EA 75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	65,086.68	1,314.01
26 12 19 00-0083 EA 100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	76,188.70	1,314.01
26 12 19 00-0084 2.4 KV Primary, 240/480 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0085 EA 10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,983.90	507.68
26 12 19 00-0086 EA 15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	23,974.88	507.68
26 12 19 00-0087 EA 25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,355.01	716.73
26 12 19 00-0088 EA 37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	36,355.59	716.73
26 12 19 00-0089 EA 50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	41,843.61	970.57
26 12 19 00-0090 EA 75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	65,086.68	1,314.01
26 12 19 00-0091 EA 100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	76,188.70	1,314.01
26 12 19 00-0092 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0093 EA 10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,414.55	522.61
26 12 19 00-0094 EA 15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	19,943.70	582.34
26 12 19 00-0095 EA 25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	24,463.15	642.07
26 12 19 00-0096 EA 37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	30,857.44	895.91
26 12 19 00-0097 EA 50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	34,239.54	1,045.22
26 12 19 00-0098 EA 75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	48,093.42	1,224.41
26 12 19 00-0099 EA 100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	58,136.76	1,403.60
26 12 19 00-0100 EA 167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	92,451.95	1,791.82
26 12 19 00-0101 EA 250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	129,398.46	2,015.80
26 12 19 00-0102 3 Phase Pad Mounted Oil Filled Distribution Transformers (26 12 19)		
26 12 19 00-0103 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt (26 12 19 00-0102)		
Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.		
26 12 19 00-0104 EA 112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	37,041.07	1,986.62
26 12 19 00-0105 EA 150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	46,807.55	2,128.52
26 12 19 00-0106 EA 225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	62,288.36	2,696.13
26 12 19 00-0107 EA 300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	81,457.03	3,405.63
26 12 19 00-0108 EA 500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	121,454.90	3,831.34
26 12 19 00-0109 EA 750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	152,271.28	5,108.46
26 12 19 00-0110 Pad Mounted Commercial Type Distribution Transformers UL Listed (26 12 19)		
26 12 19 00-0111 Distribution 3 Phase Oil Filled Transformer (26 12 19 00-0110)		
Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		
26 12 19 00-0112 Factory Modifications (26 12 19 00-0111)		
Note: For use with series 4100 3 phase transformers.		
26 12 19 00-0113 EA Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification	4,266.07	
26 12 19 00-0114 EA Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification	693.71	
26 12 19 00-0115 EA Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification	2,774.84	
26 12 19 00-0116 EA Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification	7,994.47	
26 12 19 00-0117 EA Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification	979.35	
26 12 19 00-0118 EA Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification	775.32	
26 12 19 00-0119 Accessories For Transformer Liquid Containment Area (26 12 19 00-0111)		
Note: Reinforced concrete curb with 6" slab.		
26 12 19 00-0120 EA Containment Area For 75 KVA	9,236.91	2,375.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1,583.61
26 12 19 00-0121 EA Containment Area For 112.5 KVA	9,236.91	2,375.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1,583.61
26 12 19 00-0122 EA Containment Area For 150 KVA	9,236.91	2,375.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1,583.61
26 12 19 00-0123 EA Containment Area For 225 KVA	9,236.91	2,375.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1,583.61
26 12 19 00-0124 EA Containment Area For 300 KVA	9,228.40	2,375.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1,581.05
26 12 19 00-0125 EA Containment Area For 500 KVA	9,228.40	2,375.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1,581.05
26 12 19 00-0126 EA Containment Area For 750 KVA	9,342.66	2,375.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1,581.05
26 12 19 00-0127 EA Containment Area For 1,000 KVA	10,999.40	2,375.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1,581.05

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0128	Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL (26 12 19 00-0111) Note: Rated to 5 KVA.			
26 12 19 00-0129	EA	45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	25,121.83	1,680.52
26 12 19 00-0130	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	27,570.21	1,680.52
26 12 19 00-0131	EA	112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	29,202.47	1,680.52
26 12 19 00-0132	EA	150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	34,099.24	1,680.52
26 12 19 00-0133	EA	225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	36,043.86	2,520.78
26 12 19 00-0134	EA	300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	37,676.12	2,520.78
26 12 19 00-0135	EA	500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	57,263.20	2,520.78
26 12 19 00-0136	EA	750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	73,095.26	3,361.04
26 12 19 00-0137	EA	1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	94,314.61	3,361.04
26 12 19 00-0138	Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL (26 12 19 00-0111) Note: Rated to 5 KVA.			
26 12 19 00-0139	EA	45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	25,937.96	1,680.52
26 12 19 00-0140	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	29,202.47	1,680.52
26 12 19 00-0141	EA	112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	30,018.60	1,680.52
26 12 19 00-0142	EA	150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	30,834.72	1,680.52
26 12 19 00-0143	EA	225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	36,043.86	2,520.78
26 12 19 00-0144	EA	300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	39,308.37	2,520.78
26 12 19 00-0145	EA	500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	57,263.20	2,520.78
26 12 19 00-0146	EA	750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	73,911.39	3,361.04
26 12 19 00-0147	EA	1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	94,314.61	3,361.04
26 12 19 00-0148	Primary 5 KV Or 15 KV, Secondary 277/480 Volt (26 12 19 00-0110) Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.			
26 12 19 00-0149	EA	150 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	89,780.52	2,185.28
26 12 19 00-0150	EA	225 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	97,752.07	2,579.77
26 12 19 00-0151	EA	300 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	109,336.37	3,153.05
26 12 19 00-0152	EA	500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	130,568.90	3,547.54
26 12 19 00-0153	EA	750 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	161,578.71	3,734.14
26 12 19 00-0154	EA	1,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	193,805.32	5,456.11
26 12 19 00-0155	EA	1,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	228,574.39	6,172.72
26 12 19 00-0156	EA	2,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	287,132.32	7,095.07
26 12 19 00-0157	EA	2,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	318,404.06	7,449.83
26 12 19 00-0158	EA	3,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	335,043.07	8,301.52
26 12 19 00-0159	EA	3,750 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	386,302.45	8,869.13
26 12 19 00-0160	Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled (26 12 19 00-0110)			
26 12 19 00-0161	EA	1,500 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	165,003.09	6,241.03
26 12 19 00-0162	EA	2,000 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	203,787.48	7,177.22
26 12 19 00-0163	EA	2,500 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	232,620.12	7,554.92
26 12 19 00-0164	EA	3,000 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	246,448.55	8,443.77
26 12 19 00-0165	EA	3,750 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	277,440.29	8,699.63
26 12 19 00-0166	Silicone Filled Distribution Transformers, 3 Phase (26 12 19 00-0110) Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.			



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Transformers		26 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0167 EA 225 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	157,223.31	2,579.77
26 12 19 00-0168 EA 300 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	168,089.23	3,153.05
26 12 19 00-0169 EA 500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	197,190.84	3,547.54
26 12 19 00-0170 EA 750 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	240,004.27	3,734.14
26 12 19 00-0171 EA 1,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	285,891.24	5,456.11
26 12 19 00-0172 EA 1,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	365,045.47	6,172.72
26 12 19 00-0173 EA 2,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	444,779.18	7,095.07
26 12 19 00-0174 EA 2,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	510,025.39	7,449.83

26 13 Medium-Voltage Switchgear (26 10)

26 13 16 Medium-Voltage Fusible Interrupter Switchgear (26 13)

26 13 16 00-0001	"Switchyard", Substation Secondary Distribution Section (26 13 16) Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals.		
26 13 16 00-0002	4.16 Or 4.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0003 EA	1,200 Amperes, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	21,194.49	1,552.92
	For Weatherproofing, Add	4,445.03	
26 13 16 00-0004 EA	1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	22,299.73	1,552.92
	For Weatherproofing, Add	4,688.18	
26 13 16 00-0005 EA	1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	30,552.25	1,978.47
	For Weatherproofing, Add	6,459.53	
26 13 16 00-0006 EA	2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	41,942.04	1,978.47
	For Weatherproofing, Add	8,931.99	
26 13 16 00-0007 EA	2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	60,558.34	2,389.10
	For Weatherproofing, Add	12,987.83	
26 13 16 00-0008 EA	3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	55,034.16	2,389.10
	For Weatherproofing, Add	11,755.59	
26 13 16 00-0009	7.2 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0010 EA	1,200 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	32,050.65	1,791.82
	For Weatherproofing, Add	6,810.86	
26 13 16 00-0011 EA	2,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	42,634.25	2,239.78
	For Weatherproofing, Add	8,324.03	
26 13 16 00-0012 EA	3,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	55,579.84	2,687.73
	For Weatherproofing, Add	11,860.82	
26 13 16 00-0013	13.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0014 EA	1,200 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	30,768.24	1,791.82
	For Weatherproofing, Add	6,509.01	
26 13 16 00-0015 EA	1,200 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	42,634.25	1,791.82
	For Weatherproofing, Add	9,076.57	
26 13 16 00-0016 EA	1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	62,733.91	2,389.10
	For Weatherproofing, Add	13,449.53	
26 13 16 00-0017 EA	2,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	38,683.33	2,389.10
	For Weatherproofing, Add	8,178.51	
26 13 16 00-0018 EA	2,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	56,709.73	2,986.37
	For Weatherproofing, Add	12,101.51	
26 13 16 00-0019 EA	2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	79,881.82	2,986.37
	For Weatherproofing, Add	17,154.23	
26 13 16 00-0020 EA	3,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	54,467.67	2,986.37
	For Weatherproofing, Add	11,595.77	
26 13 16 00-0021 EA	3,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	76,060.33	2,986.37
	For Weatherproofing, Add	16,303.14	
26 13 16 00-0022 EA	3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	99,023.01	2,986.37
	For Weatherproofing, Add	21,314.24	
26 13 16 00-0023	4.16 Or 4.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0024 EA	1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	9,317.77	978.03
	For Weatherproofing, Add	1,912.74	
26 13 16 00-0025 EA	1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	12,314.11	978.03
	For Weatherproofing, Add	2,571.94	

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 13 Medium-Voltage Switchgear**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0026	EA	2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	13,194.60	1,299.07
		<i>For Weatherproofing, Add</i>	2,721.35	
26 13 16 00-0027	EA	2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	16,350.81	1,605.18
		<i>For Weatherproofing, Add</i>	3,372.40	
26 13 16 00-0028	EA	3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	22,415.17	1,605.18
		<i>For Weatherproofing, Add</i>	4,706.56	
26 13 16 00-0029 7.2 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)				
26 13 16 00-0030	EA	1,200 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	11,873.59	1,493.19
		<i>For Weatherproofing, Add</i>	2,455.95	
26 13 16 00-0031	EA	2,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	15,556.30	1,493.19
		<i>For Weatherproofing, Add</i>	3,222.15	
26 13 16 00-0032	EA	3,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	24,035.05	1,493.19
		<i>For Weatherproofing, Add</i>	5,044.07	
26 13 16 00-0033 13.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)				
26 13 16 00-0034	EA	1,200 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,168.16	1,269.21
		<i>For Weatherproofing, Add</i>	2,500.14	
26 13 16 00-0035	EA	1,200 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	13,035.33	1,269.21
		<i>For Weatherproofing, Add</i>	2,690.91	
26 13 16 00-0036	EA	1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	18,838.54	1,567.85
		<i>For Weatherproofing, Add</i>	3,923.97	
26 13 16 00-0037	EA	2,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	16,466.46	1,881.41
		<i>For Weatherproofing, Add</i>	3,358.68	
26 13 16 00-0038	EA	2,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	20,552.96	1,881.41
		<i>For Weatherproofing, Add</i>	4,257.71	
26 13 16 00-0039	EA	2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	23,608.69	2,194.98
		<i>For Weatherproofing, Add</i>	4,885.58	
26 13 16 00-0040	EA	3,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	21,809.86	2,508.55
		<i>For Weatherproofing, Add</i>	4,446.24	
26 13 16 00-0041	EA	3,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	24,610.05	2,508.55
		<i>For Weatherproofing, Add</i>	5,062.28	
26 13 16 00-0042	EA	3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	30,503.15	2,807.19
		<i>For Weatherproofing, Add</i>	6,314.77	
26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections (26 13 16 00-0001)				
26 13 16 00-0044	EA	1,200 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	5,697.35	946.23
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	567.75	
26 13 16 00-0045	EA	2,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	7,211.38	1,050.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	630.04	
26 13 16 00-0046	EA	3,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	9,484.90	1,263.24
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	757.96	
26 13 16 00-0047	EA	3-Phase Pothead Termination Accessories, Secondary Distribution Section.....	5,260.53	1,899.78
26 13 16 00-0048	EA	5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	7,806.93	125.65
26 13 16 00-0049	EA	5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	10,453.72	125.65
26 13 16 00-0050	EA	5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	19,207.62	125.65
26 13 16 00-0051	EA	15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	15,078.37	125.65
26 13 16 00-0052	EA	15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	16,467.78	125.65
26 13 16 00-0053	EA	15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	22,444.13	125.65
26 13 16 00-0054	EA	6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	3,494.10	125.65
26 13 16 00-0055	EA	9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	3,959.33	125.65
26 13 16 00-0056	EA	15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	6,054.13	125.65
26 13 16 00-0057	EA	Overcurrent Phase Protection, Time And Instantaneous Device 67.....	3,847.43	125.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.39	
26 13 16 00-0058	EA	AC Ammeter With Switch.....	1,458.40	125.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.39	
26 13 16 00-0059	EA	AC Voltmeter With Switch And Potential Transformer.....	1,458.40	125.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.39	
26 13 16 00-0060	EA	Indicating Watmmeter.....	2,192.71	125.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.39	
26 13 16 00-0061	EA	Indicating Varmeter.....	2,600.10	125.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.39	
26 13 16 00-0062	EA	Indicating Watt-hour Meter, 2 Element.....	1,604.25	125.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.39	
26 13 16 00-0063	EA	Ground Protection, Time Or Instantaneous Device 67N.....	3,344.40	125.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.39	
26 13 16 00-0064	EA	Differential Generator Protection Single Phase NEMA Device 87.....	7,376.90	125.65
26 13 16 00-0065	EA	Current Transformers 5 And 15 KV Single Secondary.....	964.25	125.65
26 13 16 00-0066	EA	Potential Transformers 5 KV And 15 KV With Primary Fuses.....	4,897.34	125.65

26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13)**26 13 19 00-0001 Vacuum Circuit Breakers 13.8 KV (26 13 19)**



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Switchgear		26 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 19 00-0002 EA 1,200 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	79,146.34	1,866.48
26 13 19 00-0003 EA 1,200 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	87,326.85	2,359.23
26 13 19 00-0004 EA 1,200 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	99,112.45	2,359.23
26 13 19 00-0005 EA 2,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	90,861.06	1,866.48
26 13 19 00-0006 EA 2,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	102,366.31	1,866.48
26 13 19 00-0007 EA 2,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	116,650.27	2,194.98
26 13 19 00-0008 EA 3,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	120,202.74	2,508.55
26 13 19 00-0009 EA 3,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	131,766.42	2,508.55
26 13 19 00-0010 EA 3,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	143,927.36	2,822.12
26 13 29 Medium-Voltage Compartmentalized Switchgear (26 13)		
26 13 29 00-0001 Substation Secondary Distribution Section (26 13 29) Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.		
26 13 29 00-0002 Switchgear Compartment Complete With Air Circuit Breaker (26 13 29 00-0001) Note: With solid state long - time and instantaneous trips.		
26 13 29 00-0003 EA 800 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	25,133.31	1,211.28
26 13 29 00-0004 EA 1,600 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	39,425.35	1,831.34
26 13 29 00-0005 EA 2,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	53,357.04	2,249.53
26 13 29 00-0006 EA 3,200 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....	89,333.95	2,610.03
26 13 29 00-0007 EA 4,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....	115,022.00	2,970.53
26 13 29 00-0008 Switchgear Compartment Without Circuit Breaker (26 13 29 00-0001)		
26 13 29 00-0009 EA 800 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	11,113.33	367.71
26 13 29 00-0010 EA 1,600 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,841.97	367.71
26 13 29 00-0011 EA 2,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	16,803.52	540.75
26 13 29 00-0012 EA 3,200 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	24,135.29	540.75
26 13 29 00-0013 EA 4,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	40,415.15	793.10
26 13 29 00-0014 Switchgear Compartment, Blank, Use As Filler Or Metering (26 13 29 00-0001) Note: No provisions for future breaker.		
26 13 29 00-0015 EA 600 To 2,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	10,768.87	410.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	234.99	
26 13 29 00-0016 EA 3,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	13,557.93	410.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	275.86	
26 13 29 00-0017 EA 4,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	17,529.65	634.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	396.55	
26 13 29 00-0018 Accessories For Substation Secondary Distribution (26 13 29 00-0001)		
26 13 29 00-0019 EA Short Time Delay Accessories, Secondary Distribution Section.....	6,085.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 13 29 00-0020 EA Key Interlock Accessories, Secondary Distribution Section.....	4,684.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 13 29 00-0021 EA Ammeter And Switch Complete Accessories, Secondary Distribution Section.....	15,340.08	125.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 13 29 00-0022 EA Voltmeter And Switch Complete Accessories, Secondary Distribution Section.....	15,340.08	125.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 13 29 00-0023 EA Wattmeter - Complete Accessories, Secondary Distribution Section.....	20,363.80	125.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 13 29 00-0024 EA Watt-hour Meter - Complete Accessories, Secondary Distribution Section.....	26,445.13	125.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 13 29 00-0025 EA Circuit Breaker Lifting Device Accessories, Secondary Distribution Section.....	11,294.62	143.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.96	
26 13 29 00-0026 EA Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section.....	31,337.45	2,122.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,273.39	
26 13 29 00-0027 EA Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800.....	6,826.21	125.65
26 13 29 00-0028 EA Potential Transformers Each With Fuses Accessories, Secondary Distribution Section.....	8,057.16	125.65
26 13 29 00-0029 EA Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section.....	4,312.08	62.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.70	
26 13 29 00-0030 EA 3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section.....	33,275.62	125.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 13 29 00-0031 EA 3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section.....	4,100.55	62.83
26 18 Medium-Voltage Circuit Protection Devices (26 10)		
26 18 36 Medium-Voltage Enclosed Fuses (26 18)		
26 18 36 00-0001 Sectionalizing Switch (26 18 36)		
26 18 36 00-0002 Pad Mounted Metal Enclosed Oil Filled Switching Units (26 18 36 00-0001) Note: 15 KV - 25 KV.		
26 18 36 00-0003 Sectionalizing Tapping And Fusing Underground Feeders (26 18 36 00-0002) Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.		
26 18 36 00-0004 EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	100,915.83	1,050.32
26 18 36 00-0005 EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	113,561.11	1,050.32

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 19 High-Voltage Circuit Protection**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 19 High-Voltage Circuit Protection (26 10)**26 19 18 Protection Devices (26 19)**

26 19 18 00-0001	EA	Primary Fuse Cutouts (26 19 18) Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.		
26 19 18 00-0002	EA	Non-Loadbreak Current Limiting Primary Fuse Cutouts (26 19 18 00-0001) Note: Includes the fuse and cutout switch.		
26 19 18 00-0003	EA	8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		
26 19 18 00-0004	EA	15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting 830.01	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.18	
26 19 18 00-0005	EA	25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting 979.33	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	223.98	
26 19 18 00-0006	EA	40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting 1,128.15	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	268.62	
26 19 18 00-0007	EA	100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting 1,150.38	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	268.79	
26 19 18 00-0008	EA	200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting 1,150.38	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	268.79	
26 19 18 00-0009	EA	17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		
26 19 18 00-0010	EA	15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting 830.01	298.64	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.18	
26 19 18 00-0011	EA	17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		
26 19 18 00-0012	EA	15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting 859.36	298.64	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.18	
26 19 18 00-0013	EA	Fuseholders (26 19 18 00-0002) Note: Including current limiting fuse.		
26 19 18 00-0014	EA	15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 706.30	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.18	
26 19 18 00-0015	EA	25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 855.62	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	223.98	
26 19 18 00-0016	EA	40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 1,004.44	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	268.62	
26 19 18 00-0017	EA	100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 716.46	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.18	
26 19 18 00-0018	EA	200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 865.78	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	223.98	
26 19 18 00-0019	EA	15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting 706.30	298.64	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.18	
26 19 18 00-0020	EA	Accessories (26 19 18 00-0002)		
26 19 18 00-0021	EA	Hot Line Clamp 104.95	33.60	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.40	
26 19 18 00-0022	EA	Stirrup 114.26	33.60	
26 19 18 00-0023	EA	Loadbreak Current Limiting Primary Fuse Cutouts (26 19 18 00-0001) Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.		
26 19 18 00-0024	EA	8.3 KV-95 KV BIL Loadbreak Current Limiting (26 19 18 00-0023)		
26 19 18 00-0025	EA	15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting 1,058.55	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.18	
26 19 18 00-0026	EA	25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting 1,207.87	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	223.98	
26 19 18 00-0027	EA	40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting 1,356.69	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	268.62	
26 19 18 00-0028	EA	100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting 1,400.22	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	268.79	
26 19 18 00-0029	EA	200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting 1,400.22	373.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	268.79	
26 19 18 00-0030	EA	17.1 KV-95 KV BIL Loadbreak Current Limiting (26 19 18 00-0023)		
26 19 18 00-0031	EA	15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting 1,058.55	298.64	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.18	
26 19 18 00-0032	EA	17.1 KV-125 KV BIL Loadbreak Current Limiting (26 19 18 00-0023)		
26 19 18 00-0033	EA	15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting 1,058.55	298.64	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.18	
26 19 18 00-0034	EA	Fuseholders (26 19 18 00-0023) Note: Includes current limiting fuses.		



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
High-Voltage Circuit Protection		26 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 19 18 00-0035 EA 15 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	716.78 179.18	373.29
26 19 18 00-0036 EA 25 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	866.10 223.98	373.29
26 19 18 00-0037 EA 40 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,014.92 268.62	373.29
26 19 18 00-0038 EA 15 Amperes, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	716.78 179.18	373.29
26 19 18 00-0039 Pole Mounted Capacitors (26 19 18 00-0023)		
26 19 18 00-0040 EA Capacitors - Pole Mounted 6 KVAR.....	1,904.68	301.03
26 19 80 Transmission and Distribution Accessories (26 19)		
26 19 80 60 Structure Assemblies (26 19 80)		
26 19 80 60-0001 Pole Structure Assemblies (26 19 80 60)		
26 19 80 60-0002 5 KV Pole Structure Assemblies (26 19 80 60-0001)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 19 80 60-0003 EA Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	609.59	283.70
26 19 80 60-0004 EA Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,018.74	477.82
26 19 80 60-0005 EA Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,158.23	373.29
26 19 80 60-0006 EA Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	661.30	194.11
26 19 80 60-0007 EA Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	839.40	268.77
26 19 80 60-0008 EA Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,469.13	537.54
26 19 80 60-0009 EA Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,152.38	403.16
26 19 80 60-0010 EA Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,107.34	806.32
26 19 80 60-0011 EA Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,394.81	910.84
26 19 80 60-0012 EA Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,307.53	447.95
26 19 80 60-0013 EA Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,111.00	477.82
26 19 80 60-0014 EA Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,087.76	970.57
26 19 80 60-0015 EA Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,589.56	582.34
26 19 80 60-0016 EA Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	993.10	418.09
26 19 80 60-0017 EA Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,868.09	851.11
26 19 80 60-0018 EA Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,466.46	433.02
26 19 80 60-0019 15 KV Pole Structure Assemblies (26 19 80 60-0001)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 19 80 60-0020 EA Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	638.94	283.70
26 19 80 60-0021 EA Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,060.67	477.82
26 19 80 60-0022 EA Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,300.81	373.29
26 19 80 60-0023 EA Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	711.62	194.11
26 19 80 60-0024 EA Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	910.69	253.84
26 19 80 60-0025 EA Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,611.71	537.54
26 19 80 60-0026 EA Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,257.22	403.16
26 19 80 60-0027 EA Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,321.21	806.32
26 19 80 60-0028 EA Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,684.16	910.84
26 19 80 60-0029 EA Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,450.11	447.95
26 19 80 60-0030 EA Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,165.51	477.82
26 19 80 60-0031 EA Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,142.27	970.57
26 19 80 60-0032 EA Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,698.59	582.34
26 19 80 60-0033 EA Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,047.61	403.16
26 19 80 60-0034 EA Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,922.60	851.11
26 19 80 60-0035 EA Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,575.49	522.61
26 19 80 60-0036 25 KV Pole Structure Assemblies (26 19 80 60-0001)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 19 80 60-0037 EA Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,949.13	447.95
26 19 80 60-0038 EA Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,193.29	223.98
26 19 80 60-0039 EA Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,730.37	343.43
26 19 80 60-0040 EA Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,276.73	701.79
26 19 80 60-0041 EA Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,170.40	522.61
26 19 80 60-0042 EA Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	3,503.46	1,030.29
26 19 80 60-0043 EA Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	3,341.38	1,164.68
26 19 80 60-0044 EA Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,343.83	679.40
26 19 80 60-0045 EA Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,040.67	679.40
26 19 80 60-0046 50 KV Pole Structure Assemblies (26 19 80 60-0001)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 19 80 60-0047 EA Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,618.55	612.20
26 19 80 60-0048 EA Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,424.83	313.57
26 19 80 60-0049 EA Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,804.80	492.75
26 19 80 60-0050 EA Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	3,391.53	1,000.43
26 19 80 60-0051 EA Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,600.26	746.59
26 19 80 60-0052 EA Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	4,995.04	1,493.19
26 19 80 60-0053 EA Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	5,909.74	1,657.44

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 19 High-Voltage Circuit Protection**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 19 80 60-0054 EA Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,013.13	806.32
26 19 80 60-0055 EA Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,036.45	933.24
26 19 80 60-0056 EA Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,926.66	880.98
26 19 80 60-0057 Overhead To Underground Conversion Structures (26 19 80 60)		
Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.		
26 19 80 60-0058 5 KV Structures (26 19 80 60-0057)		
Note: Excludes pole.		
26 19 80 60-0059 EA (3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	6,254.47	2,986.37
26 19 80 60-0060 EA (3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	6,254.47	2,986.37
26 19 80 60-0061 EA (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	6,254.47	2,986.37
26 19 80 60-0062 EA (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	6,254.47	2,986.37
26 19 80 60-0063 15 KV Structures (26 19 80 60-0057)		
Note: Excludes pole.		
26 19 80 60-0064 EA (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	6,451.78	2,986.37
26 19 80 60-0065 EA (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	6,451.78	2,986.37
26 19 80 60-0066 EA (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	6,451.78	2,986.37
26 19 80 60-0067 EA (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	6,451.78	2,986.37
26 19 80 60-0068 25 KV Structures (26 19 80 60-0057)		
Note: Excludes pole.		
26 19 80 60-0069 EA (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,667.04	2,986.37
26 19 80 60-0070 EA (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,667.04	2,986.37
26 19 80 60-0071 EA (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,667.04	2,986.37
26 19 80 60-0072 EA (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,667.04	2,986.37
26 19 80 60-0073 Transformer Stations (26 19 80 60)		
Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
26 19 80 60-0074 5 KV Station (26 19 80 60-0073)		
26 19 80 60-0075 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....	10,075.81	3,980.83
26 19 80 60-0076 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole.....	11,293.71	4,479.55
26 19 80 60-0077 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....	12,511.60	4,976.78
26 19 80 60-0078 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole	12,511.60	4,976.78
26 19 80 60-0079 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole.....	10,075.81	3,980.83
26 19 80 60-0080 15 KV Stations (26 19 80 60-0073)		
26 19 80 60-0081 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....	10,380.77	3,979.70
26 19 80 60-0082 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole.....	11,598.67	4,479.55
26 19 80 60-0083 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....	12,816.56	4,976.78
26 19 80 60-0084 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole	12,816.56	4,976.78
26 19 80 60-0085 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole.....	10,380.77	3,980.83
26 19 80 60-0086 25 KV Stations (26 19 80 60-0073)		
26 19 80 60-0087 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....	10,713.45	3,980.83
26 19 80 60-0088 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole.....	11,931.35	4,479.55
26 19 80 60-0089 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	13,149.24	4,976.78
26 19 80 60-0090 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole	13,149.24	4,976.78
26 19 80 60-0091 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole.....	10,713.45	3,980.83

26 20 Low-Voltage Electrical Distribution (26)**26 21 Low-Voltage Electrical Service Entrance** (26 20)

See CSI section 26 05 13 00-0000 for wire and cables.

26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)

26 21 13 00-0001 Service Drop Cable And Weatherheads (26 21 13)

26 21 13 00-0002 600 Volt Insulated Stranded Conductors (26 21 13 00-0001)

26 21 13 00-0003 Aluminum Duplex ACSR Neutral (26 21 13 00-0002)

26 21 13 00-0004 LF #6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	9.70	3.56
26 21 13 00-0005 LF #4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	11.76	4.21
26 21 13 00-0006 LF #2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	14.03	4.74
26 21 13 00-0007 LF 1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	18.94	5.97

26 21 13 00-0008 Aluminum Triplex ACSR Neutral (26 21 13 00-0002)

26 21 13 00-0009 LF #6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	11.95	4.21



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Electrical Service Entrance	26 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0010 LF #4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	13.78	4.74
26 21 13 00-0011 LF #2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	17.52	5.97
26 21 13 00-0012 LF 1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	22.13	7.28
26 21 13 00-0013 LF 2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	28.77	9.63
26 21 13 00-0014 LF 4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	36.97	11.95
26 21 13 00-0015 LF 336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	50.69	14.22
26 21 13 00-0016 Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0017 LF #6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	13.83	4.74
26 21 13 00-0018 LF #4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	17.51	5.97
26 21 13 00-0019 LF #2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	22.66	7.66
26 21 13 00-0020 LF 1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	29.90	9.63
26 21 13 00-0021 LF 2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	33.34	10.66
26 21 13 00-0022 LF 3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	38.84	11.95
26 21 13 00-0023 LF 4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	45.57	14.22
26 21 13 00-0024 LF 336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	58.46	15.72
26 21 13 00-0025 Weatherproof Conduit Hubs (26 21 13 00-0002)		
26 21 13 00-0026 EA 1/2" Weatherproof Conduit Hubs	63.71	24.21
26 21 13 00-0027 EA 3/4" Weatherproof Conduit Hubs	72.68	27.50
26 21 13 00-0028 EA 1" Weatherproof Conduit Hubs	84.37	30.81
26 21 13 00-0029 EA 1-1/4" Weatherproof Conduit Hubs	117.62	41.26
26 21 13 00-0030 EA 1-1/2" Weatherproof Conduit Hubs	129.32	44.56
26 21 13 00-0031 EA 2" Weatherproof Conduit Hubs	166.86	51.71
26 21 13 00-0032 EA 2-1/2" Weatherproof Conduit Hubs	218.78	58.31
26 21 13 00-0033 EA 3" Weatherproof Conduit Hubs	282.29	68.76
26 21 13 00-0034 EA 4" Weatherproof Conduit Hubs	500.59	137.53
26 21 13 00-0035 Galvanized Threaded Service Entrance Weatherhead Cap (26 21 13 00-0002)		
26 21 13 00-0036 EA 1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service	71.52	24.21
26 21 13 00-0037 EA 3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service	82.03	27.50
26 21 13 00-0038 EA 1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	93.96	30.81
26 21 13 00-0039 EA 1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service	126.26	41.26
26 21 13 00-0040 EA 1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service	142.90	44.56
26 21 13 00-0041 EA 2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service	188.12	51.71
26 21 13 00-0042 EA 2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service	318.00	58.31
26 21 13 00-0043 EA 3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service	361.88	68.76
26 21 13 00-0044 EA 4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service	593.72	137.53
26 21 13 00-0045 Aluminum Clamp-On Service Entrance Weatherhead Cap (26 21 13 00-0002)		
26 21 13 00-0046 EA 1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service	69.11	24.21
26 21 13 00-0047 EA 3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service	77.99	27.50
26 21 13 00-0048 EA 1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service	88.49	30.67
26 21 13 00-0049 EA 1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service	117.62	41.26
26 21 13 00-0050 EA 1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	131.24	44.56
26 21 13 00-0051 EA 2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service	154.77	51.71
26 21 13 00-0052 EA 2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service	255.45	58.31
26 21 13 00-0053 EA 3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service	330.42	68.76
26 21 13 00-0054 EA 3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service	464.85	103.14
26 21 13 00-0055 EA 4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service	556.28	137.53
26 21 13 00-0056 Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap (26 21 13 00-0002)		
26 21 13 00-0057 EA 1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service	65.79	24.21
26 21 13 00-0058 EA 3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service	75.23	27.50
26 21 13 00-0059 EA 1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	85.34	30.67
26 21 13 00-0060 EA 1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	113.71	41.26
26 21 13 00-0061 EA 1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	123.81	44.56
26 21 13 00-0062 EA 2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service	151.20	51.71
26 21 13 00-0063 EA 2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service	246.72	58.31
26 21 13 00-0064 EA 3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service	277.22	68.76
26 21 13 00-0065 EA 3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service	473.12	103.14
26 21 13 00-0066 EA 4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service	654.14	137.53
26 21 16 Low-Voltage Underground Electrical Service Entrance (26 21)		
26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial (26 21 16)		
Note: Excludes excavation and backfill.		
26 21 16 00-0002 MLF #6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	5,028.23	1,327.29
26 21 16 00-0003 MLF #4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	5,786.24	1,405.38
26 21 16 00-0004 MLF #2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	6,884.75	1,493.19
26 21 16 00-0005 MLF 1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	8,235.33	1,493.19
26 21 16 00-0006 MLF 2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	9,185.84	1,592.78
26 21 16 00-0007 MLF 3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	10,928.15	1,837.81

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 21 Low-Voltage Electrical Service Entrance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 21 16 00-0008 MLF 4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial..... 13,358.51 2,389.10

26 22 Low-Voltage Transformers (26 20)**26 22 13 Low-Voltage Distribution Transformers** (26 22)**26 22 13 00-0001****Single Phase General Purpose "Dry Type" Transformers** (26 22 13)

Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.

26 22 13 00-0002**480 Volt, 120/240 Volt, General Purpose Dry Type Transformers** (26 22 13 00-0001)

Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.

26 22 13 00-0003	EA	1 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	1,815.67	352.14
26 22 13 00-0004	EA	3 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	2,537.11	422.56
26 22 13 00-0005	EA	5 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	3,300.03	440.88
26 22 13 00-0006	EA	7.5 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	4,069.90	457.78
26 22 13 00-0007	EA	10 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	5,930.32	493.00
26 22 13 00-0008	EA	15 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	7,126.04	528.21
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	303.48	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	455.22	
26 22 13 00-0009	EA	25 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	7,826.18	563.42
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	334.97	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	502.45	
26 22 13 00-0010	EA	37.5 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	7,512.83	633.85
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	312.26	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	468.38	
26 22 13 00-0011	EA	50 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	9,007.72	704.27
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	379.96	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	569.94	
26 22 13 00-0012	EA	75 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	11,991.03	845.13
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	515.04	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	772.56	
26 22 13 00-0013	EA	100 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	15,294.47	985.99
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	666.13	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	999.19	
26 22 13 00-0014	EA	167 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	24,633.27	1,267.70
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,104.89	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,657.34	
26 22 13 00-0015	EA	250 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	45,020.64	1,549.41
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,096.09	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	3,144.14	
26 22 13 00-0016	EA	333 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	71,156.03	1,760.69
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	3,381.73	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	5,072.60	

26 22 13 00-0017**240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers** (26 22 13 00-0001)

Note: 1-10 Percent x 2-5 percent FCBN taps.

26 22 13 00-0018	EA	3 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	2,019.87	422.56
26 22 13 00-0019	EA	5 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	2,471.21	440.17
26 22 13 00-0020	EA	7.5 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	3,143.42	457.78
26 22 13 00-0021	EA	10 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	3,751.66	493.00

26 22 13 00-0022**240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers** (26 22 13 00-0001)

Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.

26 22 13 00-0023	EA	15 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	7,429.52	528.21
26 22 13 00-0024	EA	25 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	8,161.15	563.42

26 22 13 00-0025**208 x 230 Volt, 120 Volt, General Purpose Dry Type Transformers** (26 22 13 00-0001)

Note: 1-10 Percent x 2-5 percent FCBN taps.

26 22 13 00-0026	EA	0.5 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	1,489.02	316.93
26 22 13 00-0027	EA	1 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	1,698.67	352.14
26 22 13 00-0028	EA	2 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	2,261.21	387.35
26 22 13 00-0029	EA	3 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	2,639.29	422.56
26 22 13 00-0030	EA	5 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	2,990.06	440.88
26 22 13 00-0031	EA	7.5 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	3,462.27	457.78
26 22 13 00-0032	EA	10 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	4,540.50	493.00
26 22 13 00-0033	EA	15 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer	6,335.47	528.21

26 22 13 00-0034**1 Phase Mounting Brackets** (26 22 13 00-0001)

26 22 13 00-0035	EA	1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA	693.64	251.31

26 22 13 00-0036**1 Phase Weathershields** (26 22 13 00-0001)

Note: Use with types DT-3 and DS-3.

26 22 13 00-0037	EA	37.5 KVA 1 Phase Weathershields, Set Of 2	218.65	
26 22 13 00-0038	EA	50 KVA 1 Phase Weathershields, Set Of 2	278.70	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Transformers		26 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0039 EA 75 KVA 1 Phase Weathershields, Set Of 2.....	332.34	
26 22 13 00-0040 EA 100 KVA 1 Phase Weathershields, Set Of 2.....	396.48	
26 22 13 00-0041 EA 167 KVA 1 Phase Weathershields, Set Of 2.....	536.41	
26 22 13 00-0042 EA 250 KVA 1 Phase Weathershields, Set Of 2.....	641.36	
26 22 13 00-0043 EA 333 KVA 1 Phase Weathershields, Set Of 2.....	787.13	
26 22 13 00-0044 Packaged Power Supply (26 22 13 00-0001)		
Note: 2-5 Percent FCBN taps.		
26 22 13 00-0045 EA 5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amperes Breakers.....	4,094.79	440.17
26 22 13 00-0046 EA 7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amperes Breakers.....	4,674.18	457.78
26 22 13 00-0047 EA 10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amperes Breakers.....	5,068.73	493.00
26 22 13 00-0048 EA 15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amperes Breakers.....	6,355.35	528.21
26 22 13 00-0049 EA 25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amperes Breakers.....	9,030.66	563.42
26 22 13 00-0050 240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade (26 22 13 00-0001)		
26 22 13 00-0051 EA 0.5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	3,053.54	316.93
26 22 13 00-0052 EA 1 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	4,464.99	352.14
26 22 13 00-0053 EA 2.5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	5,188.91	422.56
26 22 13 00-0054 EA 5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	5,778.02	440.17
26 22 13 00-0055 EA 7.5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	6,571.22	457.78
26 22 13 00-0056 EA 10 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	8,624.04	493.00
26 22 13 00-0057 EA 15 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	11,364.86	528.21
26 22 13 00-0058 600 Volt, 208/120 Volt, Dry General Purpose Transformer (26 22 13 00-0001)		
26 22 13 00-0059 EA 15 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	14,177.20	528.21
26 22 13 00-0060 EA 25 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	14,682.53	563.42
26 22 13 00-0061 EA 30 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	15,234.11	598.63
26 22 13 00-0062 EA 37.5 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	20,336.98	633.85
26 22 13 00-0063 EA 45 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	21,117.83	669.07
26 22 13 00-0064 EA 50 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	28,443.03	704.27
26 22 13 00-0065 3 Phase General Purpose "Dry Type" Transformer (26 22 13)		
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0066 Packaged Power Supply (26 22 13 00-0065)		
Note: 2-5 Percent FCBN taps.		
26 22 13 00-0067 EA 15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amperes Breakers.....	18,435.94	1,514.19
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		770.38
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		1,155.57
26 22 13 00-0068 EA 22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amperes Breakers.....	22,332.95	1,619.83
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		954.66
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		1,432.00
26 22 13 00-0069 EA 30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amperes Breakers.....	26,948.54	1,760.69
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		1,171.36
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		1,757.04
26 22 13 00-0070 Drive Isolation Transformers (26 22 13 00-0065)		
Note: Only use in step-up applications.		
26 22 13 00-0071 230 Volt Drive Isolation Transformers (26 22 13 00-0070)		
26 22 13 00-0072 EA 7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,846.04	563.42
26 22 13 00-0073 EA 11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,921.29	598.63
26 22 13 00-0074 EA 15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,392.69	633.85
26 22 13 00-0075 EA 20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,066.72	669.07
26 22 13 00-0076 EA 27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,619.24	739.49
26 22 13 00-0077 EA 34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	19,374.65	809.92
26 22 13 00-0078 EA 40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	21,942.70	880.34
26 22 13 00-0079 EA 51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	25,570.22	985.99
26 22 13 00-0080 EA 63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	27,720.34	1,021.20
26 22 13 00-0081 EA 75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	32,126.55	1,056.41
26 22 13 00-0082 EA 93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	40,660.06	1,091.63
26 22 13 00-0083 EA 118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	45,531.62	1,338.12
26 22 13 00-0084 EA 145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	50,874.35	1,408.56
26 22 13 00-0085 EA 175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	58,419.74	1,478.98
26 22 13 00-0086 EA 220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	71,306.20	1,760.69
26 22 13 00-0087 EA 275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	94,736.38	2,077.61
26 22 13 00-0088 EA 330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	99,895.70	2,288.90
26 22 13 00-0089 EA 440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	121,917.95	2,535.39
26 22 13 00-0090 EA 550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	150,805.69	2,817.11
26 22 13 00-0091 208V Drive Isolation Transformers (26 22 13 00-0070)		
26 22 13 00-0092 EA 7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,391.64	563.42
26 22 13 00-0093 EA 11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,568.95	598.63

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0094	EA	15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,060.75	633.85
26 22 13 00-0095	EA	20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,867.31	669.07
26 22 13 00-0096	EA	27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	18,440.78	739.49
26 22 13 00-0097	EA	30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,207.95	774.71
26 22 13 00-0098	EA	45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	23,040.39	915.56
26 22 13 00-0099	EA	51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	26,771.37	985.99
26 22 13 00-0100	EA	63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	29,027.35	1,021.20
26 22 13 00-0101	EA	75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	33,654.25	1,056.41
26 22 13 00-0102	EA	93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	42,618.54	1,091.63
26 22 13 00-0103	EA	118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	47,712.96	1,338.12
26 22 13 00-0104	EA	145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	53,320.47	1,408.56
26 22 13 00-0105	EA	175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	61,242.74	1,478.98
26 22 13 00-0106	EA	220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	74,756.46	1,760.69
26 22 13 00-0107		480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps (26 22 13 00-0065)		
26 22 13 00-0108	EA	9 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	8,146.56	581.03
26 22 13 00-0109	EA	15 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	10,851.30	633.85
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	479.18	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	718.77	
26 22 13 00-0110		480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps (26 22 13 00-0065)		
26 22 13 00-0111	EA	30 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	12,076.74	774.71
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	526.37	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	789.55	
		<i>For K4 Factor Rating, Add</i>	7,369.13	
		<i>For K13 Factor Rating, Add</i>	10,527.33	
		<i>For K20 Factor Rating, Add</i>	13,685.53	
26 22 13 00-0112	EA	37.5 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	14,702.63	845.13
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	650.62	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	975.93	
		<i>For K4 Factor Rating, Add</i>	9,108.65	
		<i>For K13 Factor Rating, Add</i>	13,012.36	
		<i>For K20 Factor Rating, Add</i>	16,916.07	
26 22 13 00-0113	EA	45 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	15,328.25	915.56
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	674.86	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,012.28	
		<i>For K4 Factor Rating, Add</i>	9,447.99	
		<i>For K13 Factor Rating, Add</i>	13,497.13	
		<i>For K20 Factor Rating, Add</i>	17,546.27	
26 22 13 00-0114	EA	50 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	20,419.55	985.99
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	922.38	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,383.57	
		<i>For K4 Factor Rating, Add</i>	12,913.31	
		<i>For K13 Factor Rating, Add</i>	18,447.58	
		<i>For K20 Factor Rating, Add</i>	23,981.85	
26 22 13 00-0115	EA	75 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	20,022.65	1,056.41
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	895.49	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,343.24	
		<i>For K4 Factor Rating, Add</i>	12,536.87	
		<i>For K13 Factor Rating, Add</i>	17,909.82	
		<i>For K20 Factor Rating, Add</i>	23,282.77	
26 22 13 00-0116	EA	112.5 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	24,987.42	1,267.70
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,122.60	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,683.90	
		<i>For K4 Factor Rating, Add</i>	15,716.42	
		<i>For K13 Factor Rating, Add</i>	22,452.03	
		<i>For K20 Factor Rating, Add</i>	29,187.64	
26 22 13 00-0117	EA	150 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	32,760.35	1,408.56
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,497.16	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	2,245.74	
		<i>For K4 Factor Rating, Add</i>	20,960.27	
		<i>For K13 Factor Rating, Add</i>	29,943.24	
		<i>For K20 Factor Rating, Add</i>	38,926.21	
26 22 13 00-0118	EA	225 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	44,893.57	1,760.69
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	2,068.61	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	3,102.91	
		<i>For K4 Factor Rating, Add</i>	28,960.53	
		<i>For K13 Factor Rating, Add</i>	41,372.19	
		<i>For K20 Factor Rating, Add</i>	53,783.85	
26 22 13 00-0119	EA	300 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	54,672.02	2,183.26
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	2,515.28	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	3,772.91	
		<i>For K4 Factor Rating, Add</i>	35,213.86	
		<i>For K13 Factor Rating, Add</i>	50,305.51	
		<i>For K20 Factor Rating, Add</i>	65,397.16	
26 22 13 00-0120	EA	500 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	79,016.76	2,676.26
		<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	3,683.21	
		<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	5,524.82	
		<i>For K4 Factor Rating, Add</i>	51,564.98	
		<i>For K13 Factor Rating, Add</i>	73,664.26	
		<i>For K20 Factor Rating, Add</i>	95,763.54	



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Transformers			26 22

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0121	EA	750 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	186,163.34 8,984.20 13,476.30 125,778.79 179,683.99 233,589.19	3,220.99
26 22 13 00-0122	EA	1,000 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	246,268.68 11,961.30 17,941.94 167,458.14 239,225.91 310,993.68	3,521.38
26 22 13 00-0123		480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN Taps (26 22 13 00-0065)		
26 22 13 00-0124	EA	6 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	6,535.32 3,810.58 5,443.69 7,076.80	545.81
26 22 13 00-0125	EA	9 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	8,146.56 4,889.16 6,984.51 9,079.86	581.03
26 22 13 00-0126	EA	15 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	10,851.30 479.18 718.77 6,708.52 9,583.60 12,458.68	633.85
26 22 13 00-0127		480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps (26 22 13 00-0065)		
26 22 13 00-0128	EA	30 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	21,588.61 1,001.96 1,502.94 14,027.44 20,039.20 26,050.96	774.71
26 22 13 00-0129	EA	45 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	24,130.76 1,114.98 1,672.47 15,609.75 22,299.64 28,989.53	915.56
26 22 13 00-0130	EA	75 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	36,027.93 1,695.76 2,543.63 23,740.57 33,915.10 44,089.63	1,056.41
26 22 13 00-0131	EA	112.5 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	45,314.48 2,138.95 3,208.43 29,945.36 42,779.09 55,612.82	1,267.70
26 22 13 00-0132	EA	150 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	54,748.02 2,596.55 3,894.82 36,351.64 51,930.91 67,510.18	1,408.56
26 22 13 00-0133	EA	225 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	70,242.53 3,336.06 5,004.09 46,704.81 66,721.15 86,737.50	1,760.69
26 22 13 00-0134	EA	300 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	85,344.53 4,048.90 6,073.35 56,684.61 80,978.02 105,271.43	2,183.26
26 22 13 00-0135	EA	500 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	138,354.55 6,650.10 9,975.15 93,101.44 133,002.05 172,902.67	2,676.26
26 22 13 00-0136		3 Phase 60 Hz K20 Dry Type Transformers (26 22 13 00-0065)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0137			3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise (26 22 13 00-0136) Note: 220 C insulation 480 V-208 Y/120 V, 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0138	EA		15 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	10,080.89	633.85
26 22 13 00-0139	EA		30 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	15,509.97	774.71
26 22 13 00-0140	EA		45 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	23,089.44	915.56
26 22 13 00-0141	EA		75 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	29,669.91	1,056.41
26 22 13 00-0142	EA		112.5 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	45,043.56	1,267.70
26 22 13 00-0143	EA		150 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	54,985.07	1,408.56
26 22 13 00-0144	EA		225 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	63,765.98	1,760.69
26 22 13 00-0145	EA		300 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	102,183.55	2,183.26
26 22 13 00-0146			3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise (26 22 13 00-0136) Note: 220 C insulation 480 V-208 Y/120 V, 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0147	EA		15 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	11,850.29	633.85
26 22 13 00-0148	EA		30 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	18,303.77	774.71
26 22 13 00-0149	EA		45 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	27,339.40	915.56
26 22 13 00-0150	EA		75 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	35,172.86	1,056.41
26 22 13 00-0151	EA		112.5 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	53,543.50	1,267.70
26 22 13 00-0152	EA		150 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	65,423.74	1,408.56
26 22 13 00-0153	EA		225 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	75,813.20	1,760.69
26 22 13 00-0154	EA		300 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	121,748.65	2,183.26
26 22 13 00-0155			NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0065)		
26 22 13 00-0156			Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0155) Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0157			150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0156)		
26 22 13 00-0158	EA		15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,680.03	630.19
26 22 13 00-0159	EA		30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,489.70	770.24
26 22 13 00-0160	EA		45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,404.22	910.28
26 22 13 00-0161	EA		75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,178.51	1,050.32
26 22 13 00-0162	EA		112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,538.66	1,260.39
26 22 13 00-0163	EA		150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	11,790.61	1,400.44
26 22 13 00-0164	EA		225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	15,584.58	1,750.54
26 22 13 00-0165	EA		300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	21,806.44	2,170.67
26 22 13 00-0166			115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0156)		
26 22 13 00-0167	EA		15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,408.03	630.19
26 22 13 00-0168	EA		30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,371.53	770.24
26 22 13 00-0169	EA		45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,479.56	910.28
26 22 13 00-0170	EA		75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,702.11	1,050.32
26 22 13 00-0171	EA		112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	11,111.26	1,260.39
26 22 13 00-0172	EA		150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	14,487.54	1,400.44
26 22 13 00-0173	EA		225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	19,209.87	1,750.54



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Transformers		26 22	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0174	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	27,045.97	2,170.67
26 22 13 00-0175		80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0156)		
26 22 13 00-0176	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,133.09	630.19
26 22 13 00-0177	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,255.81	770.24
26 22 13 00-0178	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,554.91	910.28
26 22 13 00-0179	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,223.27	1,050.32
26 22 13 00-0180	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	13,095.37	1,260.39
26 22 13 00-0181	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	17,184.46	1,400.44
26 22 13 00-0182	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	22,835.17	1,750.54
26 22 13 00-0183	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	32,285.50	2,170.67
26 22 13 00-0184		Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0155)		
		Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0185		150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0184)		
26 22 13 00-0186	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,890.58	630.19
26 22 13 00-0187	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,961.87	770.24
26 22 13 00-0188	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,194.82	910.28
26 22 13 00-0189	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,716.21	1,050.32
26 22 13 00-0190	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	13,124.76	1,260.39
26 22 13 00-0191	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	16,378.57	1,400.44
26 22 13 00-0192	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	21,750.03	1,750.54
26 22 13 00-0193	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	30,720.25	2,170.67
26 22 13 00-0194		115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0184)		
26 22 13 00-0195	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,615.64	630.19
26 22 13 00-0196	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,846.15	770.24
26 22 13 00-0197	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,270.17	910.28
26 22 13 00-0198	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,239.83	1,050.32
26 22 13 00-0199	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	16,985.21	1,260.39
26 22 13 00-0200	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	21,341.30	1,400.44
26 22 13 00-0201	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	27,227.17	1,750.54
26 22 13 00-0202	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	40,393.42	2,170.67
26 22 13 00-0203		80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0184)		
26 22 13 00-0204	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,343.15	630.19
26 22 13 00-0205	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,730.42	770.24
26 22 13 00-0206	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,345.50	910.28
26 22 13 00-0207	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	12,760.97	1,050.32
26 22 13 00-0208	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	20,086.32	1,260.39
26 22 13 00-0209	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	25,841.08	1,400.44

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0210 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	32,701.85	1,750.54
26 22 13 00-0211 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	48,119.22	2,170.67
26 22 13 00-0212 3 Phase Weathershields (26 22 13 00-0065) Note: Use with type DT-3 and DS-3.		
26 22 13 00-0213 EA 45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	2,328.17	
26 22 13 00-0214 EA 150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	3,953.66	
26 22 13 00-0215 EA 500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	3,953.66	
26 22 13 00-0216 Three Phase Mounting Brackets (26 22 13 00-0065)		
26 22 13 00-0217 EA 3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA	1,745.43	251.31
26 22 13 00-0218 Foam Core Poly Transformer Pads (26 22 13)		
26 22 13 00-0219 EA Single Phase Foam Core Poly Pads.....	590.80	45.69
Note: Excludes site prep.		

26 24 Switchboards and Panelboards (26 20)**26 24 13 Switchboards** (26 24)

Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.

26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire	(26 24 13)		
26 24 13 00-0002 Incoming Service Section Main Device Only	(26 24 13 00-0001)		
Note: Copper bus, non-metering type, with fuses.			
26 24 13 00-0003 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,582.57	1,202.94	
26 24 13 00-0004 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	5,060.88	1,272.40	
26 24 13 00-0005 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,051.00	1,443.34	
26 24 13 00-0006 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,671.14	1,547.31	
26 24 13 00-0007 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	13,746.40	1,649.76	
26 24 13 00-0008 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	15,310.68	1,754.15	
26 24 13 00-0009 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,497.29	1,202.94	
26 24 13 00-0010 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,988.67	1,272.40	
26 24 13 00-0011 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,674.50	1,444.57	
26 24 13 00-0012 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,148.28	1,547.31	
26 24 13 00-0013 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,746.40	1,651.42	
26 24 13 00-0014 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	15,310.68	1,754.15	
26 24 13 00-0015 EA 2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	18,344.70	1,833.91	
26 24 13 00-0016 EA 3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	20,776.55	1,964.71	
26 24 13 00-0017 EA 4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	24,482.47	2,117.91	
26 24 13 00-0018 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,161.55	1,065.83	
26 24 13 00-0019 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,482.82	1,134.73	
26 24 13 00-0020 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,990.66	1,306.22	
26 24 13 00-0021 EA 1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,294.68	1,361.10	
26 24 13 00-0022 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,564.12	1,410.20	
26 24 13 00-0023 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,993.82	1,511.97	
26 24 13 00-0024 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,397.70	1,615.66	
26 24 13 00-0025 Branch Breaker Units (26 24 13 00-0001)			
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.			
26 24 13 00-0026 EA 15 To 60 Amperes, 240 Volt, MC Branch Breaker	380.76	41.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			
	25.17		
26 24 13 00-0027 EA 70 To 100 Amperes, 240 Volt, MC Branch Breaker	558.78	66.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			
	39.61		
26 24 13 00-0028 EA 125 To 225 Amperes, 240 Volt, MC Branch Breaker	1,489.37	120.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			
	72.20		
26 24 13 00-0029 EA 100 To 400 Amperes, 240 Volt, MC Branch Breaker	2,632.84	156.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			
	94.07		
26 24 13 00-0030 EA 300 To 600 Amperes, 240 Volt, MC Branch Breaker	4,710.94	385.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			
	231.01		
26 24 13 00-0031 EA 400 To 800 Amperes, 240 Volt, MC Branch Breaker	7,495.94	385.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			
	231.01		
26 24 13 00-0032 EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker	12,165.53	686.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			
	411.76		
26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)			
26 24 13 00-0034 Incoming Service Section Main Device Only (26 24 13 00-0033)			
Note: Copper bus, non-metering type, with fuses.			
26 24 13 00-0035 EA 400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,476.61	1,560.92	
26 24 13 00-0036 EA 600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	7,218.44	1,560.92	
26 24 13 00-0037 EA 800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	10,566.42	2,028.51	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0038 EA 1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	11,950.86	2,028.51
26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)		
26 24 13 00-0040 Incoming Service Section Main Device Only (26 24 13 00-0039)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	4,120.55	1,065.83
26 24 13 00-0042 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	4,577.56	1,134.73
26 24 13 00-0043 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,926.44	1,306.22
26 24 13 00-0044 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	7,523.52	1,409.10
26 24 13 00-0045 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	4,988.89	1,065.83
26 24 13 00-0046 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	6,258.58	1,134.73
26 24 13 00-0047 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	8,729.92	1,306.22
26 24 13 00-0048 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	12,442.25	1,409.10
26 24 13 00-0049 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	14,592.40	1,581.55
26 24 13 00-0050 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	2,921.47	928.17
26 24 13 00-0051 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,265.27	997.20
26 24 13 00-0052 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,832.76	1,168.70
26 24 13 00-0053 EA 1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,118.83	1,223.57
26 24 13 00-0054 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,394.76	1,272.40
26 24 13 00-0055 EA 1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,765.03	1,361.10
26 24 13 00-0056 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	5,126.28	1,443.34
26 24 13 00-0057 EA 2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	6,362.45	1,787.84
26 24 13 00-0058 EA 3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	7,113.53	1,959.75
26 24 13 00-0059 EA 4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	8,331.54	2,114.47
26 24 13 00-0060 Branch Breaker Units (26 24 13 00-0039)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061 EA 15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker.....	207.59	36.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 24 13 00-0062 EA 70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker.....	330.32	60.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 24 13 00-0063 EA 125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker.....	985.55	84.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 24 13 00-0064 EA 100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker.....	2,805.61	108.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 24 13 00-0065 EA 300 To 600 Amperes, 120/240 Volt, MC Branch Breaker.....	4,438.82	264.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 24 13 00-0066 EA 400 To 800 Amperes, 120/240 Volt, MC Branch Breaker.....	6,286.83	264.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 24 13 00-0067 EA 600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker.....	10,380.83	505.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 24 13 00-0068 Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0069 Incoming Service Section Main Device Only (26 24 13 00-0068)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,584.26	1,202.94
26 24 13 00-0071 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	5,059.00	1,272.40
26 24 13 00-0072 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,048.57	1,443.34
26 24 13 00-0073 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,668.36	1,547.31
26 24 13 00-0074 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	13,740.06	1,649.76
26 24 13 00-0075 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	15,310.68	1,754.15
26 24 13 00-0076 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,498.98	1,202.94
26 24 13 00-0077 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,986.79	1,272.40
26 24 13 00-0078 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,674.50	1,444.57
26 24 13 00-0079 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,145.50	1,547.31
26 24 13 00-0080 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,743.22	1,651.42
26 24 13 00-0081 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	15,310.68	1,754.15
26 24 13 00-0082 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,306.01	1,065.83
26 24 13 00-0083 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,685.10	1,134.73
26 24 13 00-0084 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,293.60	1,306.22
26 24 13 00-0085 EA 1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,611.03	1,361.10
26 24 13 00-0086 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,917.10	1,410.20
26 24 13 00-0087 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,333.89	1,511.97
26 24 13 00-0088 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,756.59	1,615.66
26 24 13 00-0089 EA 2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	6,817.53	1,835.98
26 24 13 00-0090 EA 3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	7,529.86	1,964.57
26 24 13 00-0091 EA 4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	8,849.81	2,111.03
26 24 13 00-0092 Branch Breaker Units (26 24 13 00-0068)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093 EA 15 To 60 Amperes, 120/208 Volt, MC Branch Breaker.....	380.76	41.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 24 13 00-0094 EA 70 To 100 Amperes, 120/208 Volt, MC Branch Breaker.....	558.78	66.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0095	EA	125 To 225 Amperes, 120/208 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,489.37 72.20	120.33
26 24 13 00-0096	EA	100 To 400 Amperes, 120/208 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,632.84 94.07	156.78
26 24 13 00-0097	EA	300 To 600 Amperes, 120/208 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,710.94 231.01	385.07
26 24 13 00-0098	EA	400 To 800 Amperes, 120/208 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,495.94 231.01	385.07
26 24 13 00-0099	EA	600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,165.53 411.76	686.26
26 24 13 00-0100 Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire (26 24 13)				
26 24 13 00-0101 Incoming Service Section Main Device Only (26 24 13 00-0100)				
Note: Copper bus, non-metering type, with fuses.				
26 24 13 00-0102	EA	400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	5,960.26	1,649.76
26 24 13 00-0103	EA	600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	6,530.81	1,754.15
26 24 13 00-0104	EA	800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	9,183.45	1,957.96
26 24 13 00-0105	EA	1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	10,030.05	2,096.45
26 24 13 00-0106	EA	400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	7,513.25	1,649.76
26 24 13 00-0107	EA	600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	10,011.59	1,754.15
26 24 13 00-0108	EA	800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	11,338.36	1,960.17
26 24 13 00-0109	EA	1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,243.72	2,096.45
26 24 13 00-0110	EA	1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,911.43	2,235.50
26 24 13 00-0111	EA	2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	16,551.20	2,374.40
26 24 13 00-0112	EA	400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,306.01	1,065.83
26 24 13 00-0113	EA	600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,685.10	1,134.73
26 24 13 00-0114	EA	800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,293.60	1,306.22
26 24 13 00-0115	EA	1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,611.03	1,361.10
26 24 13 00-0116	EA	1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,917.10	1,410.20
26 24 13 00-0117	EA	1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,333.89	1,511.97
26 24 13 00-0118	EA	2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,756.59	1,615.66
26 24 13 00-0119 Branch Breaker Units (26 24 13 00-0100)				
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.				
26 24 13 00-0120	EA	15 To 60 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	779.67 25.17	41.94
26 24 13 00-0121	EA	70 To 100 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	902.03 39.61	66.01
26 24 13 00-0122	EA	125 To 225 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,635.95 72.20	120.33
26 24 13 00-0123	EA	100 To 400 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,632.84 94.07	156.78
26 24 13 00-0124	EA	300 To 600 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,310.32 231.01	385.07
26 24 13 00-0125	EA	400 To 800 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,453.19 231.01	385.07
26 24 13 00-0126	EA	600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,367.62 411.76	686.26
26 24 13 00-0127 Fusible Branch Circuit Switch (26 24 13)				
Note: Includes switch fuses, and portion of distribution section occupied by that branch device.				
26 24 13 00-0128 240 Volt, 2 Pole Twin Branch Switch Units (26 24 13 00-0127)				
26 24 13 00-0129	EA	30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	815.54 324.36	107.96
26 24 13 00-0130	EA	30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	812.76 324.36	107.96
26 24 13 00-0131	EA	60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	812.76 324.36	107.96
26 24 13 00-0132	EA	60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,270.49 324.36	142.34
26 24 13 00-0133	EA	100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,270.49 324.36	142.34
26 24 13 00-0134 240 Volt, 2 Pole Single Branch Switch Units (26 24 13 00-0127)				
26 24 13 00-0135	EA	100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	929.57 310.73	105.90
26 24 13 00-0136	EA	200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,346.25 310.73	105.90
26 24 13 00-0137	EA	400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	3,462.75	285.37
26 24 13 00-0138 240 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)				
26 24 13 00-0139	EA	30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,041.93 324.36	121.71
26 24 13 00-0140	EA	30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,039.15 324.36	121.71



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Switchboards and Panelboards			26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0141	EA	60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,039.15 324.36	121.71
26 24 13 00-0142	EA	60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,561.56 324.36	162.97
26 24 13 00-0143	EA	100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,561.56 324.36	162.97
26 24 13 00-0144 240 Volt, 3 Pole Single Branch Switch Units (26 24 13 00-0127)				
26 24 13 00-0145	EA	100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,124.22 324.36	119.64
26 24 13 00-0146	EA	200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,803.47 310.73	119.64
26 24 13 00-0147	EA	400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	4,625.90	319.47
26 24 13 00-0148	EA	600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	6,597.17	409.28
26 24 13 00-0149	EA	800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	12,240.08	554.51
26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)				
26 24 13 00-0151	EA	30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,462.55 324.36	121.71
26 24 13 00-0152	EA	30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,459.74 324.36	121.71
26 24 13 00-0153	EA	60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,462.55 324.36	121.71
26 24 13 00-0154	EA	60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	2,196.21 324.36	162.97
26 24 13 00-0155	EA	100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	2,243.18 324.36	162.97
26 24 13 00-0156	EA	200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	4,751.10 324.36	213.17
26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)				
26 24 13 00-0158	EA	100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,577.24 324.36	119.64
26 24 13 00-0159	EA	200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	2,378.60 310.73	119.64
26 24 13 00-0160	EA	400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	5,792.52 310.73	319.47
26 24 13 00-0161	EA	600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	7,038.74	409.28
26 24 13 00-0162	EA	800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	12,240.08	554.51
26 24 13 00-0163 Service And Distribution Structures (26 24 13)				
26 24 13 00-0164 Distribution Section 600 Volt, 250 Volt DC (26 24 13 00-0163)				
26 24 13 00-0165 600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)				
26 24 13 00-0166	EA	14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,132.94	1,265.24
26 24 13 00-0167	EA	24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,719.23	1,265.24
26 24 13 00-0168	EA	34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,142.27	1,609.05
26 24 13 00-0169	EA	42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,586.56	1,609.05
26 24 13 00-0170 800 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)				
26 24 13 00-0171	EA	14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,537.27	1,464.65
26 24 13 00-0172	EA	24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,105.99	1,464.65
26 24 13 00-0173	EA	34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,586.56	1,815.35
26 24 13 00-0174	EA	42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,985.69	1,815.35
26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)				
26 24 13 00-0176	EA	14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,163.06	1,787.84
26 24 13 00-0177	EA	24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,746.80	1,787.84
26 24 13 00-0178	EA	34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,258.56	2,200.43
26 24 13 00-0179	EA	42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,843.28	2,200.43
26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)				
26 24 13 00-0181	EA	14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,086.66	1,959.75
26 24 13 00-0182	EA	24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,790.60	1,959.75
26 24 13 00-0183	EA	34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,400.98	2,420.47
26 24 13 00-0184	EA	42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,910.34	2,420.47
26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)				
26 24 13 00-0186	EA	14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,341.62	1,966.63
26 24 13 00-0187	EA	24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,105.45	2,214.17
26 24 13 00-0188	EA	34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,224.67	2,214.17
26 24 13 00-0189	EA	42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,494.54	2,337.94

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0190		3,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0191	EA	24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,238.93	2,214.17
26 24 13 00-0192	EA	34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,356.37	2,214.17
26 24 13 00-0193	EA	42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,626.24	2,337.94
26 24 13 00-0194		4,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0195	EA	24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,415.24	2,337.94
26 24 13 00-0196	EA	34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,626.24	2,337.94
26 24 13 00-0197	EA	42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,723.69	2,337.94
26 24 13 00-0198		Pull Boy, Horizontal Mounted Across Top Of Switch Board (26 24 13 00-0164)		
26 24 13 00-0199	EA	18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard.....	644.52	165.03
26 24 13 00-0200	EA	Drilled Bottom For Pull Boy.....	727.17	165.03
26 24 13 00-0201	EA	Cable Supports In Pull Box.....	254.34	41.26
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.92	
26 24 13 00-0202		Underground Pull Sections (26 24 13 00-0164)		
		Note: Excludes no bus or terminal.		
26 24 13 00-0203	EA	12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal.....	631.09	192.54
26 24 13 00-0204	EA	24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal.....	1,078.39	247.55
26 24 13 00-0205	EA	24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal.....	1,078.39	247.55
26 24 13 00-0206	EA	14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	812.60	192.54
26 24 13 00-0207	EA	28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	1,154.05	281.93
26 24 13 00-0208	EA	14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,320.73	281.93
26 24 13 00-0209	EA	26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,389.03	364.45
26 24 13 00-0210	EA	38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,472.24	364.45
26 24 13 00-0211		Switchboard Sections (26 24 13 00-0163)		
26 24 13 00-0212	EA	600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,016.63	1,146.01
26 24 13 00-0213	EA	800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,492.34	1,245.72
26 24 13 00-0214	EA	1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	6,895.15	1,591.73
26 24 13 00-0215	EA	1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,539.94	1,736.41
26 24 13 00-0216	EA	2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	8,040.40	1,848.49
26 24 13 00-0217	EA	400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section.....	5,880.24	1,005.32
26 24 13 00-0218	EA	200 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,442.14	954.98
26 24 13 00-0219	EA	400 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,808.55	1,035.58
26 24 13 00-0220	EA	120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus.....	8,907.49	1,146.01
26 24 13 00-0221	EA	800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	9,562.87	1,149.03
26 24 13 00-0222	EA	1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	10,498.30	1,282.85
26 24 13 00-0223	EA	15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	196.85	68.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.00	
26 24 13 00-0224	EA	70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	239.59	70.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.61	
26 24 13 00-0225	EA	70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame.....	1,059.12	82.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.88	
26 24 13 00-0226	EA	125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame.....	1,743.88	178.10
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.84	
26 24 13 00-0227	EA	100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	705.06	248.09
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.96	
26 24 13 00-0228	EA	225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	1,935.72	143.30
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.88	
26 24 13 00-0229		Switchboard, Structure Per Section Copper, 480 Volt (26 24 13 00-0163)		
26 24 13 00-0230	EA	225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	2,601.28	596.86
26 24 13 00-0231	EA	400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	3,689.96	807.14
26 24 13 00-0232	EA	600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	4,158.50	982.35
26 24 13 00-0233	EA	800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	5,277.78	1,375.27
26 24 13 00-0234	EA	1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	6,543.74	1,719.08
26 24 13 00-0235	EA	1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	7,169.29	1,719.08
26 24 13 00-0236	EA	2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	8,892.19	2,292.16
26 24 13 00-0237	EA	2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	10,091.64	2,292.16
26 24 13 00-0238	EA	3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	11,875.11	2,728.67
26 24 13 00-0239	EA	4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	14,082.22	2,728.67
26 24 13 00-0240		Main Devices (26 24 13)		
26 24 13 00-0241		Power Circuit Breakers (26 24 13 00-0240)		
26 24 13 00-0242		DSL Breaker With Current Limiters And Amptector (26 24 13 00-0241)		
		Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243	EA	50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip.....	8,971.06	1,444.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	864.58	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0244	EA	50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,316.02 1,442.59	2,406.71
26 24 13 00-0245	EA	1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,410.08 2,404.31	4,043.28
26 24 13 00-0246	EA	4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58,704.55 3,997.86	6,546.26
26 24 13 00-0247	EA	Ground-Fault Trip All Power Breakers - Factory Installed.....	3,003.63	
26 24 13 00-0248	EA	Key Interlock All Power Breakers - Factory Installed.....	387.91	
26 24 13 00-0249	EA	Short Time Delay Selective Trip - Factory Installed.....	508.91	
26 24 13 00-0250	EA	Shunt Trip Manually Open Breakers - Factory Installed.....	366.56	
26 24 13 00-0251 DSL Breaker Electrical Operated And Amptector (26 24 13 00-0241)				
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.				
26 24 13 00-0252	EA	50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,470.72 911.98	1,512.79
26 24 13 00-0253	EA	50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,380.64 1,519.07	2,544.24
26 24 13 00-0254	EA	1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,835.14 2,528.06	4,194.55
26 24 13 00-0255	EA	4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63,195.24 4,227.25	6,876.33
26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated (26 24 13 00-0241)				
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.				
26 24 13 00-0257	EA	50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,182.22 793.42	1,320.25
26 24 13 00-0258	EA	50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,089.61 1,322.37	2,214.17
26 24 13 00-0259	EA	2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,498.05 2,203.95	3,713.21
26 24 13 00-0260	EA	1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,597.19 3,670.64	5,982.40
26 24 13 00-0261	EA	4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54,725.77 6,103.24	9,764.37
26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated (26 24 13 00-0241)				
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.				
26 24 13 00-0263	EA	50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,401.64 756.75	1,265.24
26 24 13 00-0264	EA	50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,619.78 1,260.94	2,117.91
26 24 13 00-0265	EA	2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,365.79 2,105.00	3,520.68
26 24 13 00-0266	EA	1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,926.36 3,508.33	5,734.85
26 24 13 00-0267	EA	4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57,893.61 5,860.50	9,833.14
26 24 13 00-0268 Molded Case Circuit Breakers Conventional (26 24 13 00-0241)				
26 24 13 00-0269	EA	70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,180.83 665.45	1,155.22
26 24 13 00-0270	EA	125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,553.36 723.82	1,155.22
26 24 13 00-0271	EA	300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,046.93 793.42	1,375.27
26 24 13 00-0272	EA	400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,966.63 859.54	1,375.27
26 24 13 00-0273	EA	600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,723.65 941.96	1,650.32
26 24 13 00-0274	EA	1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,909.09 1,041.87	1,650.32
26 24 13 00-0275	EA	Shunt Trip, Factory Installed.....	384.35	
26 24 13 00-0276	EA	Groundfault Trip Complete Interrupting Circuit, Factory Installed.....	88.97	
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt (26 24 13 00-0240)				
26 24 13 00-0278	EA	60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	631.59 59.80	99.70
26 24 13 00-0279	EA	100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	748.39 79.34	132.30
26 24 13 00-0280	EA	225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,121.59 119.52	199.14
26 24 13 00-0281	EA	400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,801.25 149.92	249.89
26 24 13 00-0282	EA	600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,398.11 201.06	335.15

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	4,109.71	429.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	257.86	
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,601.80	654.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	392.93	
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,601.80	654.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	392.93	
26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	9,259.05	916.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	550.10	
26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	11,606.98	1,375.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	825.16	
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)		
26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	7,463.99	596.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	358.14	
26 24 13 00-0290 EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	7,577.47	653.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	392.19	
26 24 13 00-0291 EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	8,234.85	982.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	589.40	
26 24 13 00-0292 EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	14,014.72	1,375.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	825.16	
26 24 13 00-0293 EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	14,306.81	1,521.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	912.79	
26 24 13 00-0294 EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	19,054.10	2,728.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,637.22	
26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)		
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0297 EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	689.47	49.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 24 13 00-0298 EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	696.70	61.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 24 13 00-0299 EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,674.03	74.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.51	
26 24 13 00-0300 EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,427.10	96.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.95	
26 24 13 00-0301 EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	3,421.36	118.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.22	
26 24 13 00-0302 EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	4,480.61	138.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.83	
26 24 13 00-0303 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	6,838.00	156.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	104.80	
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0305 EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	475.17	37.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 24 13 00-0306 EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	610.57	49.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 24 13 00-0307 EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,667.71	61.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 24 13 00-0308 EA 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,641.31	68.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.38	
26 24 13 00-0309 EA 125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,791.76	89.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.82	
26 24 13 00-0310 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	6,324.76	129.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.64	
26 24 13 00-0311 Meter Devices And Instrumentation (26 24 13)		
Note: Factory installed accessories.		
26 24 13 00-0312 Compartments For Instrument Transformers And Metering Devices (26 24 13 00-0311)		
26 24 13 00-0313 EA Compartment For, Up To 800 Amperes, Primary Current Transformer.....	464.42	
26 24 13 00-0314 EA Compartment For, 1,000 To 1,500 Amperes, Primary Current Transformer.....	670.84	
26 24 13 00-0315 EA Compartment For, 2,000 To 6,000 Amperes, Primary Current Transformer.....	790.06	
26 24 13 00-0316 Instruments (26 24 13 00-0311)		
26 24 13 00-0317 EA AC Voltmeter.....	633.47	
26 24 13 00-0318 EA AC Ammeter.....	633.47	
26 24 13 00-0319 EA AC Wattmeter.....	1,692.21	
26 24 13 00-0320 EA Variometer.....	1,911.08	
26 24 13 00-0321 EA Power Factor Meter.....	1,526.73	
26 24 13 00-0322 EA Frequency Meter.....	1,685.10	
26 24 13 00-0323 EA 200 Volt-Amperes Max Potential Transformer.....	569.41	
26 24 13 00-0324 EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	2,144.18	
26 24 13 00-0325 EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2.....	3,587.28	
26 24 13 00-0326 EA Weatherproof, Modify Meter.....	3,525.58	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 24 13 00-0327	EA	Control Switch Resistor Type 130 V	84.54		
26 24 13 00-0328	EA	Metering Instrument: Voltage, Amperes And Watt Hour	4,327.16		
26 24 16 Panelboards (26 24)					
26 24 16 00-0001		Branch Circuit Panelboard (26 24 16) Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.			
26 24 16 00-0002		Assembled Lighting And Power Panelboards (26 24 16 00-0001) Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.			
26 24 16 00-0003		120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)			
26 24 16 00-0004	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	1,390.76	391.95	
		For NEMA 3R Panelboard, Add	1,620.27		
26 24 16 00-0005	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	1,585.96	391.95	
		For NEMA 3R Panelboard, Add	1,620.27		
26 24 16 00-0006	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	1,805.17	543.23	
		For NEMA 3R Panelboard, Add	1,620.27		
26 24 16 00-0007	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,025.90	543.23	
		For NEMA 3R Panelboard, Add	1,620.27		
26 24 16 00-0008	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	2,234.56	680.76	
		For NEMA 3R Panelboard, Add	1,620.27		
26 24 16 00-0009	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	2,448.60	680.76	
		For NEMA 3R Panelboard, Add	1,620.27		
26 24 16 00-0010	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	2,655.16	783.90	
		For NEMA 3R Panelboard, Add	1,620.27		
26 24 16 00-0011	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,195.89	1,003.95	
		For NEMA 3R Panelboard, Add	1,781.85		
		For Door-In-Door (Hinged) Trim Front, Add	130.20		
26 24 16 00-0012	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	3,368.48	1,003.95	
		For NEMA 3R Panelboard, Add	1,781.85		
		For Door-In-Door (Hinged) Trim Front, Add	130.20		
26 24 16 00-0013	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	3,536.12	1,148.35	
		For NEMA 3R Panelboard, Add	1,781.85		
		For Door-In-Door (Hinged) Trim Front, Add	130.20		
26 24 16 00-0014	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers	3,805.34	1,148.35	
		For NEMA 3R Panelboard, Add	2,104.80		
		For Door-In-Door (Hinged) Trim Front, Add	222.37		
26 24 16 00-0015	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	3,970.24	1,292.75	
		For NEMA 3R Panelboard, Add	2,104.80		
		For Door-In-Door (Hinged) Trim Front, Add	222.37		
26 24 16 00-0016	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers	4,217.40	1,292.75	
		For NEMA 3R Panelboard, Add	2,104.80		
		For Door-In-Door (Hinged) Trim Front, Add	222.37		
26 24 16 00-0017	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,371.20	1,430.28	
		For NEMA 3R Panelboard, Add	2,104.80		
		For Door-In-Door (Hinged) Trim Front, Add	222.37		
26 24 16 00-0018	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers	4,616.14	1,430.28	
		For NEMA 3R Panelboard, Add	2,104.80		
		For Door-In-Door (Hinged) Trim Front, Add	222.37		
26 24 16 00-0019	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	4,844.16	1,581.55	
		For NEMA 3R Panelboard, Add	2,104.80		
		For Door-In-Door (Hinged) Trim Front, Add	222.37		
26 24 16 00-0020	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	4,999.37	1,581.55	
		For NEMA 3R Panelboard, Add	2,190.66		
		For Door-In-Door (Hinged) Trim Front, Add	284.20		
26 24 16 00-0021	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	5,232.03	1,581.55	
		For NEMA 3R Panelboard, Add	2,190.66		
		For Door-In-Door (Hinged) Trim Front, Add	284.20		
26 24 16 00-0022		120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)			

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0023	EA	50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,630.61 1,620.27	378.20
		<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0024	EA	50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,828.79 1,620.27	378.20
		<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0025	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,291.45 1,620.27	646.38
		<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0026	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,596.57 1,620.27	646.38
		<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0027	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	2,809.36 1,620.27	790.78
		<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0028	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,031.52 1,620.27	790.78
		<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0029	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,228.29 1,620.27	948.93
		<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0030	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,900.85 1,781.85 130.20	948.93
		<i>For NEMA 3R Panelboard, Add</i>		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0031	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,077.18 1,781.85 130.20	1,162.09
		<i>For NEMA 3R Panelboard, Add</i>		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0032	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,269.10 1,781.85 130.20	1,162.09
		<i>For NEMA 3R Panelboard, Add</i>		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0033	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,479.75 2,104.80 222.37	1,306.51
		<i>For NEMA 3R Panelboard, Add</i>		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0034	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,649.69 2,104.80 222.37	1,306.51
		<i>For NEMA 3R Panelboard, Add</i>		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0035	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,831.19 2,104.80 222.37	1,430.28
		<i>For NEMA 3R Panelboard, Add</i>		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0036	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	5,026.00 2,104.80 222.37	1,430.28
		<i>For NEMA 3R Panelboard, Add</i>		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0037	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,236.34 2,104.80 222.37	1,691.58
		<i>For NEMA 3R Panelboard, Add</i>		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0038	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	5,464.82 2,104.80 222.37	1,691.58
		<i>For NEMA 3R Panelboard, Add</i>		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0039	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,714.75 2,190.66 284.20	1,691.58
		<i>For NEMA 3R Panelboard, Add</i>		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0040	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,868.22 2,190.66 284.20	1,787.84
		<i>For NEMA 3R Panelboard, Add</i>		
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		
26 24 16 00-0041		120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0042	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,674.34 1,620.27	446.96
		<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0043	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,883.73 1,620.27	446.96
		<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0044	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,120.50 1,620.27	598.24
		<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0045	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,368.00 1,620.27	598.24
		<i>For NEMA 3R Panelboard, Add</i>		
26 24 16 00-0046	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	2,590.66 1,620.27	735.76
		<i>For NEMA 3R Panelboard, Add</i>		



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0047	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,828.93	735.76
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0048	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,052.74	873.29
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0049	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,286.66	873.29
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0050	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,501.31	1,024.58
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0051	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,748.45	1,024.58
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0052	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,002.68	1,182.72
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0053	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,249.76	1,182.72
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0054	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,750.98	1,430.28
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0055	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,924.27	1,430.28
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0056	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,211.14	1,588.43
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0057	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	5,475.30	1,588.43
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0058	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	5,658.78	1,732.84
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0059	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,926.65	1,732.84
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0060	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,715.11	1,537.55
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0061	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	5,906.19	1,615.94
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0062	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,206.66	1,701.89
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0063	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	6,491.79	1,801.60
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0064	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	6,687.52	1,856.61
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0065	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,008.74	1,970.07
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0066		120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0067	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	1,969.80	433.20
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0068	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	2,182.00	433.20
		For NEMA 3R Panelboard, Add	1,620.27	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0069	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,432.21	570.73
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0070	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,771.80	570.73
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0071	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	3,300.70	859.54
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0072	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,517.62	859.54
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0073	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,753.81	1,003.95
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0074	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,952.28	1,003.95
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0075	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	4,216.51	1,162.09
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0076	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,400.53	1,162.09
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0077	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers	4,690.44	1,306.51
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0078	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	4,936.92	1,306.51
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0079	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers	5,789.27	1,512.79
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0080	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	6,049.48	1,595.31
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0081	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers	6,162.50	1,595.31
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0082	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	6,455.82	1,801.60
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0083	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	6,657.01	1,801.60
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0084	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	6,794.62	1,801.60
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0085	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers	6,783.07	1,657.20
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0086	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	7,068.64	1,753.47
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0087	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers	7,185.73	1,801.60
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0088	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	7,502.98	1,911.61
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0089	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	7,703.25	1,966.63
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0090	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	7,896.33	2,035.40
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	

26 24 16 00-0091 480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0092	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,874.83 1,620.27	440.09
		For NEMA 3R Panelboard, Add		
26 24 16 00-0093	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,149.29 1,620.27	440.09
		For NEMA 3R Panelboard, Add		
26 24 16 00-0094	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,411.96 1,620.27	605.12
		For NEMA 3R Panelboard, Add		
26 24 16 00-0095	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,686.39 1,620.27	605.12
		For NEMA 3R Panelboard, Add		
26 24 16 00-0096	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,941.58 1,620.27	756.39
		For NEMA 3R Panelboard, Add		
26 24 16 00-0097	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,211.06 1,620.27	756.39
		For NEMA 3R Panelboard, Add		
26 24 16 00-0098	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,492.79 1,620.27	914.55
		For NEMA 3R Panelboard, Add		
26 24 16 00-0099	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,750.04 1,781.85 130.20	914.55
		For NEMA 3R Panelboard, Add		
		For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0100	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	4,034.00 1,781.85 130.20	1,086.46
		For NEMA 3R Panelboard, Add		
		For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0101	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,307.75 1,781.85 130.20	1,086.46
		For NEMA 3R Panelboard, Add		
		For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0102	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,558.51 1,781.85 130.20	1,237.74
		For NEMA 3R Panelboard, Add		
		For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0103	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,828.00 1,781.85 130.20	1,237.74
		For NEMA 3R Panelboard, Add		
		For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0104	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,409.11 2,104.80 222.37	1,505.91
		For NEMA 3R Panelboard, Add		
		For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0105	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	5,678.28 2,104.80 222.37	1,505.91
		For NEMA 3R Panelboard, Add		
		For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0106	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,965.59 2,104.80 222.37	1,650.32
		For NEMA 3R Panelboard, Add		
		For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0107	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty- Eight 20 Ampere Breakers	6,172.22 2,104.80 222.37	1,650.32
		For NEMA 3R Panelboard, Add		
		For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0108	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,493.21 2,190.66 284.20	1,822.23
		For NEMA 3R Panelboard, Add		
		For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0109	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,719.05 2,190.66 284.20	1,822.23
		For NEMA 3R Panelboard, Add		
		For Door-In-Door (Hinged) Trim Front, Add		
26 24 16 00-0110		480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0111	EA	50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	2,376.88 1,620.27	467.59
		For NEMA 3R Panelboard, Add		
26 24 16 00-0112	EA	50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	2,644.84 1,620.27	508.85
		For NEMA 3R Panelboard, Add		
26 24 16 00-0113	EA	50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,915.87 1,620.27	632.62
		For NEMA 3R Panelboard, Add		
26 24 16 00-0114	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	3,508.97 1,620.27	770.15
		For NEMA 3R Panelboard, Add		
26 24 16 00-0115	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	3,769.24 1,620.27	852.66
		For NEMA 3R Panelboard, Add		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0116	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	4,005.35	921.43
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0117	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	4,266.87	1,003.95
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0118	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	4,518.05	1,086.46
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0119	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	4,746.76	1,155.22
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0120	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,993.06	1,223.98
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0121	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers	5,260.66	1,306.51
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0122	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	5,554.30	1,409.65
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0123	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers	6,938.84	1,567.80
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0124	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	7,219.88	1,664.07
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0125	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers	7,415.99	1,705.33
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0126	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	7,733.61	1,815.35
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0127	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	7,950.61	1,884.11
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0128	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	8,176.12	1,943.25
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0129		277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0130	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	2,269.65	481.34
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0131	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	2,573.36	481.34
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0132	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,868.70	639.50
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0133	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	3,166.61	639.50
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0134	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	3,469.68	790.78
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0135	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,766.08	790.78
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0136	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	4,067.66	948.93
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0137	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	4,367.91	948.93
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0138	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	4,697.71	1,113.96
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0139	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0140	4,970.88 1,781.85 130.20	1,113.96
EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0141	5,260.58 1,781.85 130.20	1,120.84
EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0142	5,570.24 1,781.85 130.20	1,120.84
EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0143	6,351.14 2,104.80 222.37	1,554.05
EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0144	6,667.61 2,104.80 222.37	1,554.05
EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0145	6,907.50 2,104.80 222.37	1,636.57
EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0146	7,254.88 2,104.80 222.37	1,746.58
EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0147	7,512.33 2,190.66 284.20	1,746.58
EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0148	7,900.01 2,190.66 284.20	1,911.61
26 24 16 00-0148			277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0149	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers For NEMA 3R Panelboard, Add 26 24 16 00-0150	2,939.87 1,620.27	591.36
EA			50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers For NEMA 3R Panelboard, Add 26 24 16 00-0151	3,251.21 1,620.27	591.36
EA			50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers For NEMA 3R Panelboard, Add 26 24 16 00-0152	3,550.09 1,620.27	783.90
EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers For NEMA 3R Panelboard, Add 26 24 16 00-0153	4,231.27 1,620.27	783.90
EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers For NEMA 3R Panelboard, Add 26 24 16 00-0154	4,521.42 1,620.27	990.19
EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers For NEMA 3R Panelboard, Add 26 24 16 00-0155	4,811.08 1,620.27	990.19
EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers For NEMA 3R Panelboard, Add 26 24 16 00-0156	5,090.39 1,620.27	1,134.59
EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0157	5,347.23 1,781.85 130.20	1,134.59
EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0158	5,621.66 1,781.85 130.20	1,292.75
EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0159	5,917.37 1,781.85 130.20	1,292.75
EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0160	6,169.29 1,781.85 130.20	1,430.28
EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0161	6,434.53 1,781.85 130.20	1,430.28
EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	8,344.17 2,104.80 222.37	1,691.58

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0162	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	8,669.21	1,691.58
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0163	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	8,904.32	1,849.73
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0164	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	9,269.68	1,849.73
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0165	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	9,528.00	2,021.64
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0166	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	9,795.72	2,021.64
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0167	EA	400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	11,584.38	2,251.31
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0168	EA	600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	14,092.45	2,702.39
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0169		Unassembled Lighting And Power Panelboards (26 24 16 00-0001) Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0170		240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171		Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0172	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	711.82	
26 24 16 00-0173	EA	100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	820.65	
26 24 16 00-0174	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,124.55	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0175	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,299.41	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0176	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,471.78	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0177	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,649.19	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0178	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,791.77	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0179	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,963.64	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0180	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,161.51	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0181	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,304.38	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0182	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,520.85	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0183		Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0184	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,060.96	
26 24 16 00-0185	EA	100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,204.79	
26 24 16 00-0186	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,935.81	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Switchboards and Panelboards			26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0187	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,152.63	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0188	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,357.78	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0189	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,049.32	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0190	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,299.49	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0191	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,523.64	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0192		Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0193	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,421.34	
26 24 16 00-0194	EA	100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,522.07	
26 24 16 00-0195	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,809.08	
26 24 16 00-0196	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,980.56	
26 24 16 00-0197	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,140.09	
26 24 16 00-0198	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,448.59	
26 24 16 00-0199	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,582.38	
26 24 16 00-0200	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,746.15	
26 24 16 00-0201	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,006.18	
26 24 16 00-0202	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,143.91	
26 24 16 00-0203	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,347.76	
26 24 16 00-0204		Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0205	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,762.38	
26 24 16 00-0206	EA	100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,897.42	
26 24 16 00-0207	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,751.42	
26 24 16 00-0208	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,952.03	
26 24 16 00-0209	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,145.01	
26 24 16 00-0210	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,819.66	
26 24 16 00-0211	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	5,061.73	
26 24 16 00-0212	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	5,283.84	
26 24 16 00-0213		240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0169)		
		Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers		
26 24 16 00-0214		Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)		
26 24 16 00-0215	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	803.60	
26 24 16 00-0216	EA	100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	946.32	
26 24 16 00-0217	EA	100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,067.64	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0218	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,213.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0219	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,398.01	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0220	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		1,549.45	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		284.20	
26 24 16 00-0221	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		1,787.40	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		130.20	
26 24 16 00-0222	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		1,927.57	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		222.37	
26 24 16 00-0223	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		2,083.11	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		284.20	
26 24 16 00-0224	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		2,314.56	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		130.20	
26 24 16 00-0225	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		2,551.59	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		222.37	
26 24 16 00-0226	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		3,010.04	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		284.20	
26 24 16 00-0227 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase					
Unassembled Panelboards (26 24 16 00-0213)					
26 24 16 00-0228	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		1,242.66	
26 24 16 00-0229	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		1,402.46	
26 24 16 00-0230	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		1,619.62	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		130.20	
26 24 16 00-0231	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		2,388.57	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		130.20	
26 24 16 00-0232	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		2,588.03	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		222.37	
26 24 16 00-0233	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		2,778.06	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		284.20	
26 24 16 00-0234	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		3,829.77	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		130.20	
26 24 16 00-0235	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		4,063.77	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		222.37	
26 24 16 00-0236	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		4,257.30	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>		284.20	
26 24 16 00-0237 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase					
Unassembled Panelboards (26 24 16 00-0213)					
26 24 16 00-0238	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		1,513.13	
26 24 16 00-0239	EA	100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		1,647.73	
26 24 16 00-0240	EA	100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		1,760.27	
26 24 16 00-0241	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		1,898.33	
26 24 16 00-0242	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		2,079.16	
26 24 16 00-0243	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		2,217.76	
26 24 16 00-0244	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		2,586.80	
26 24 16 00-0245	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		2,718.18	
26 24 16 00-0246	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		2,865.62	
26 24 16 00-0247	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		3,159.23	
26 24 16 00-0248	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		3,380.72	
26 24 16 00-0249	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard		3,839.17	
26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3					
Phase Unassembled Panelboards (26 24 16 00-0213)					



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Switchboards and Panelboards			26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0251	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,944.07	
26 24 16 00-0252	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,095.10	
26 24 16 00-0253	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,307.52	
26 24 16 00-0254	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,204.19	
26 24 16 00-0255	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,387.43	
26 24 16 00-0256	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,565.30	
26 24 16 00-0257	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,308.56	
26 24 16 00-0258	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,549.58	
26 24 16 00-0259	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,755.00	
26 24 16 00-0260		480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal.		
26 24 16 00-0261		Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0262	EA	125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,142.85	
26 24 16 00-0263	EA	125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,257.22	
26 24 16 00-0264	EA	250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,740.84	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0265	EA	250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,943.40	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0266	EA	250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,118.86	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0267	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,123.14	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0268	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,240.44	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0269	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,435.68	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0270	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,601.05	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0271	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,788.39	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0272	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,047.15	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0273		Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0274	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,326.28	
26 24 16 00-0275	EA	100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,399.58	
26 24 16 00-0276	EA	125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,606.22	
26 24 16 00-0277	EA	125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,749.56	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0278	EA	125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,041.45	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0279	EA	250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,951.18	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0280	EA	250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,129.75	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0281	EA	250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,361.43	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0282	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,517.06	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0283	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,766.01 222.37	
26 24 16 00-0284	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,989.74 284.20	
26 24 16 00-0285 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)				
26 24 16 00-0286	EA	125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,828.05	
26 24 16 00-0287	EA	125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,942.42	
26 24 16 00-0288	EA	250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,409.82	
26 24 16 00-0289	EA	250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,729.96	
26 24 16 00-0290	EA	250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,891.90	
26 24 16 00-0291	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,896.18	
26 24 16 00-0292	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,993.21	
26 24 16 00-0293	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,159.40	
26 24 16 00-0294	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,392.34	
26 24 16 00-0295	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,563.17	
26 24 16 00-0296	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,786.46	
26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)				
26 24 16 00-0298	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,157.44	
26 24 16 00-0299	EA	100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,230.74	
26 24 16 00-0300	EA	125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,281.28	
26 24 16 00-0301	EA	125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,418.54	
26 24 16 00-0302	EA	125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,828.01	
26 24 16 00-0303	EA	250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,724.23	
26 24 16 00-0304	EA	250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,882.53	
26 24 16 00-0305	EA	250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,085.15	
26 24 16 00-0306	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,240.78	
26 24 16 00-0307	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,471.20	
26 24 16 00-0308	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,692.16	
26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal.				
26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)				
26 24 16 00-0311	EA	125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,188.80	
26 24 16 00-0312	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,303.84	
26 24 16 00-0313	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,510.25	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0314	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,808.45	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0315	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,012.52	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0316	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,186.67	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards and Panelboards	26 24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0317	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,212.44	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0318	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,351.26	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0319	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,545.00	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0320	EA	600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,710.54	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0321	EA	600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,898.92	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0322	EA	600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	3,158.70	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0323 Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)				
26 24 16 00-0324	EA	100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,562.79	
26 24 16 00-0325	EA	100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,636.77	
26 24 16 00-0326	EA	100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,858.35	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0327	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,931.33	
26 24 16 00-0328	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,075.22	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0329	EA	125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,366.40	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0330	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,332.48	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0331	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,513.21	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0332	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,742.44	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0333	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,973.97	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0334	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,225.23	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0335	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,448.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0336 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)				
26 24 16 00-0337	EA	125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,874.00	
26 24 16 00-0338	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,989.04	
26 24 16 00-0339	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,185.31	
26 24 16 00-0340	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,477.43	
26 24 16 00-0341	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,799.08	
26 24 16 00-0342	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,959.72	
26 24 16 00-0343	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,987.51	
26 24 16 00-0344	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,104.03	
26 24 16 00-0345	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,268.71	
26 24 16 00-0346	EA	600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,501.83	
26 24 16 00-0347	EA	600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,673.31	
26 24 16 00-0348	EA	600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,896.61	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**26 24 16 00-0349 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards** (26 24 16 00-0309)

26 24 16 00-0350	EA	100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,231.77	
26 24 16 00-0351	EA	100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,305.75	
26 24 16 00-0352	EA	100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,644.91	
26 24 16 00-0353	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,606.39	
26 24 16 00-0354	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,744.20	
26 24 16 00-0355	EA	125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,152.96	
26 24 16 00-0356	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,105.52	
26 24 16 00-0357	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,265.98	
26 24 16 00-0358	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,466.15	
26 24 16 00-0359	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,697.69	
26 24 16 00-0360	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,930.02	
26 24 16 00-0361	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	6,150.31	

26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0169)
Note: Square D I-Line or equal.**26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards** (26 24 16 00-0362)

26 24 16 00-0364	EA	400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	2,082.03	409.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	245.41	
26 24 16 00-0365	EA	400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	2,420.73	408.89
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	245.34	
26 24 16 00-0366	EA	400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	2,675.80	408.89
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	245.34	
26 24 16 00-0367	EA	600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,103.17	671.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	402.90	
26 24 16 00-0368	EA	600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,300.58	671.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	402.90	
26 24 16 00-0369	EA	600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,517.22	671.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	402.90	
26 24 16 00-0370	EA	800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,841.50	892.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	535.57	
26 24 16 00-0371	EA	800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	4,032.15	895.29
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	537.20	
26 24 16 00-0372	EA	800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	4,108.80	892.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	535.57	
26 24 16 00-0373	EA	800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	4,735.12	892.65
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	535.57	
26 24 16 00-0374	EA	1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	6,215.94	1,343.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	805.81	
26 24 16 00-0375	EA	1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	6,642.22	1,343.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	805.81	
26 24 16 00-0376	EA	1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	6,990.76	1,343.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	805.81	
26 24 16 00-0377	EA	1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	7,416.17	1,343.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	805.81	

26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0362)

26 24 16 00-0379	EA	225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,931.09	417.67
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	250.59	



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Switchboards and Panelboards			26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0380 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,142.17	473.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.25	
26 24 16 00-0381 EA 400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,388.50	473.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.25	
26 24 16 00-0382 EA 400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,113.53	473.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.25	
26 24 16 00-0383 EA 600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,012.92	776.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	465.96	
26 24 16 00-0384 EA 600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,420.62	778.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	467.20	
26 24 16 00-0385 EA 600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,755.42	776.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	465.96	
26 24 16 00-0386 EA 800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	10,145.20	1,038.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	622.93	
26 24 16 00-0387 EA 800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	10,626.16	1,034.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	620.73	
26 24 16 00-0388 EA 800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	11,106.60	1,034.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	620.73	
26 24 16 00-0389 Residential Lighting And Power Panelboards (26 24 16 00-0001)		
See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0390 Residential Type Unassembled Load Center (26 24 16 00-0389)		
Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt (26 24 16 00-0390)		
26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	180.26	68.76
26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	613.60	275.06
26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	922.71	392.63
26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	1,969.45	825.30
26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,152.05	893.92
26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390)		
Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	246.95	75.64
26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	431.29	82.52
26 24 16 00-0400 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof (26 24 16 00-0390)		
26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	250.87	75.64
26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	279.43	82.52
26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	1,001.02	392.63
26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	2,271.22	893.92
26 24 16 00-0405 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390)		
Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	306.54	75.64
26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	2,187.53	825.30
26 24 16 00-0408 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt (26 24 16 00-0390)		
26 24 16 00-0409 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,340.57	825.30
26 24 16 00-0410 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,540.20	893.92
26 24 16 00-0411 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	8,563.55	1,375.27

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0412		Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390)		
		Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.		
26 24 16 00-0413	EA	125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,329.33	825.30
26 24 16 00-0414	EA	150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,630.25	893.92
26 24 16 00-0415	EA	300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	9,395.51	1,375.27
26 24 16 00-0416		Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof		
		(26 24 16 00-0390)		
26 24 16 00-0417	EA	125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,451.23	825.30
26 24 16 00-0418	EA	150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,729.17	893.92
26 24 16 00-0419		Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390)		
		Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0420	EA	125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	3,512.85	825.30
26 24 16 00-0421	EA	155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	3,650.17	893.92
26 24 16 00-0422		Residential Type Assembled Load Center (26 24 16 00-0389)		
26 24 16 00-0423		Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422)		
		Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0424	EA	100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	923.22	392.63
26 24 16 00-0425	EA	100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,119.93	458.65
26 24 16 00-0426	EA	100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	941.95	392.63
26 24 16 00-0427	EA	100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,125.03	458.65
26 24 16 00-0428	EA	200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,621.03	611.30
26 24 16 00-0429	EA	200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,915.15	733.70
26 24 16 00-0430	EA	200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,191.64	846.48
26 24 16 00-0431	EA	200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,411.53	916.34
26 24 16 00-0432	EA	200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,610.24	1,375.27
26 24 16 00-0433	EA	200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,687.43	611.30
26 24 16 00-0434	EA	200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,978.14	733.70
26 24 16 00-0435	EA	200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,254.63	846.48
26 24 16 00-0436	EA	200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,471.11	916.34
26 24 16 00-0437	EA	200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,806.02	1,375.27
26 24 16 00-0438	EA	400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,409.55	1,528.06
26 24 16 00-0439	EA	400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,613.84	1,528.06
26 24 16 00-0440		Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422)		
		Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0441	EA	125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,215.26	458.65
26 24 16 00-0442	EA	125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,812.79	687.63
26 24 16 00-0443	EA	125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,271.44	458.65
26 24 16 00-0444	EA	125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,863.86	687.63
26 24 16 00-0445	EA	200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,288.68	846.48
26 24 16 00-0446	EA	200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,497.62	916.89
26 24 16 00-0447	EA	200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,052.33	1,100.62
26 24 16 00-0448	EA	200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,678.34	1,375.27



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0449	EA	200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,348.26	846.48
26 24 16 00-0450	EA	200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,564.74	916.34
26 24 16 00-0451	EA	200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,280.74	1,099.80
26 24 16 00-0452	EA	200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,908.16	1,375.27
26 24 16 00-0453	EA	400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,460.62	1,528.06
26 24 16 00-0454	EA	400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,664.91	1,528.06
26 24 16 00-0455		Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0456	EA	125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,208.45	458.65
26 24 16 00-0457	EA	125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,788.95	687.63
26 24 16 00-0458	EA	200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,054.75	733.70
26 24 16 00-0459	EA	200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,357.62	846.89
26 24 16 00-0460	EA	200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,591.25	916.89
26 24 16 00-0461	EA	200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,432.74	1,222.61
26 24 16 00-0462	EA	200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,071.77	733.70
26 24 16 00-0463	EA	200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,390.82	846.48
26 24 16 00-0464	EA	200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,598.79	916.34
26 24 16 00-0465	EA	200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,339.11	1,222.61
26 24 16 00-0466	EA	400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	6,163.02	1,528.06
26 24 16 00-0467	EA	400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	6,503.50	1,528.06
26 24 16 00-0468		Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0469	EA	200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,067.92	916.89
26 24 16 00-0470	EA	200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,223.11	1,375.27
26 24 16 00-0471	EA	200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,169.09	916.34
26 24 16 00-0472	EA	200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,325.25	1,375.27
26 24 16 00-0473		Panel Mounted Accessories And Fuseholders (26 24 16 00-0001)		
26 24 16 00-0474		Midget Finger-Safe Fuse Holders (26 24 16 00-0473) Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0475	EA	1 Pole Midget Finger-Safe Fuse Holder	86.06	24.76
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 24 16 00-0476	EA	1 Pole With Indicator Midget Finger-Safe Fuse Holder	100.76	24.76
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 24 16 00-0477	EA	2 Pole Midget Finger-Safe Fuse Holder	138.44	37.13
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 24 16 00-0478	EA	2 Pole With Indicators Midget Finger-Safe Fuse Holder	176.83	37.13
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 24 16 00-0479	EA	3 Pole Midget Finger-Safe Fuse Holder	202.72	49.51
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 24 16 00-0480	EA	3 Pole With Indicators Midget Finger-Safe Fuse Holder	253.71	49.51
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 24 16 00-0481	EA	3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	296.36	49.51
		Note: With indicators.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 24 16 00-0482	EA	3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	239.82	49.51
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 24 16 00-0483	EA	4 Pole Midget Finger-Safe Fuse Holder	255.25	61.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 24 16 00-0484	EA	4 Pole With Indicator Midget Finger-Safe Fuse Holder	311.25	61.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 24 16 00-0485	EA	12 To 24 Volt DC Midget Finger-Safe Fuse Holder	100.81	24.76
		Note: With indicator.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0486 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder Note: With indicator. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.63 16.50	24.76
26 24 16 00-0487 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder Note: With indicator. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.25 16.50	24.76
26 24 16 00-0488 Removal And Reinstallation Of Panelboards (26 24 16 00-0001) Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0489 EA Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers..... Note: Includes removal and reinstallation of main wiring to panelboard. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,725.94 515.72	
26 24 16 00-0490 EA Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.37 26.82	
26 24 16 00-0491 EA Panelboard Filler Plate, Fits 1" Opening..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.28 1.29	
26 24 19 Motor-Control Centers (26 24)		
26 24 19 00-0001 Combination Starters With Molded Case Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		
26 24 19 00-0002 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed non-reversing.		
26 24 19 00-0003 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,559.35 75.39	125.65
26 24 19 00-0004 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,028.22 79.16	131.94
26 24 19 00-0005 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,496.58 82.93	138.22
26 24 19 00-0006 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,136.86 98.01	163.36
26 24 19 00-0007 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,364.25 113.09	188.48
26 24 19 00-0008 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,520.69 150.78	251.31
26 24 19 00-0009 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed non-reversing.		
26 24 19 00-0010 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,559.35 75.39	125.65
26 24 19 00-0011 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,028.22 79.16	131.94
26 24 19 00-0012 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,496.58 82.93	138.22
26 24 19 00-0013 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,136.86 98.01	163.36
26 24 19 00-0014 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,364.25 113.09	188.48
26 24 19 00-0015 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,520.69 150.78	251.31
26 24 19 00-0016 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed reversing.		
26 24 19 00-0017 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,698.88 75.39	125.65
26 24 19 00-0018 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,923.42 79.16	131.94
26 24 19 00-0019 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,048.46 82.93	138.22
26 24 19 00-0020 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,318.37 98.01	163.36
26 24 19 00-0021 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,222.70 113.09	188.48
26 24 19 00-0022 EA 230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,731.07 150.78	251.31
26 24 19 00-0023 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed reversing.		
26 24 19 00-0024 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,698.88 75.39	125.65
26 24 19 00-0025 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,923.42 79.16	131.94
26 24 19 00-0026 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,048.46 82.93	138.22
26 24 19 00-0027 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,318.37 98.01	163.36
26 24 19 00-0028 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,222.70 113.09	188.48



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26 24 19 00-0029	EA	480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,731.07 150.78	251.31
26 24 19 00-0030		230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,508.75 120.62	201.05
26 24 19 00-0032	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,190.09 128.17	213.62
26 24 19 00-0033	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,097.83 135.70	226.18
26 24 19 00-0034	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,232.07 154.55	257.60
26 24 19 00-0035	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,867.98 180.95	301.57
26 24 19 00-0036		480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,508.75 120.62	201.05
26 24 19 00-0038	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,190.09 128.17	213.62
26 24 19 00-0039	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,097.83 135.70	226.18
26 24 19 00-0040	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,232.07 154.55	257.60
26 24 19 00-0041	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,867.98 180.95	301.57
26 24 19 00-0042		230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,188.49 75.39	125.65
26 24 19 00-0044	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,711.90 79.16	131.94
26 24 19 00-0045	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,549.15 82.93	138.22
26 24 19 00-0046	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,800.19 98.01	163.36
26 24 19 00-0047	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,287.78 113.09	188.48
26 24 19 00-0048		480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,188.49 75.39	125.65
26 24 19 00-0050	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,711.90 79.16	131.94
26 24 19 00-0051	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,549.15 82.93	138.22
26 24 19 00-0052	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,800.19 98.01	163.36
26 24 19 00-0053	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,287.78 113.09	188.48
26 24 19 00-0054		230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0055	EA	230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit	7,663.61	131.94
26 24 19 00-0056	EA	230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit	11,722.98	144.50
26 24 19 00-0057	EA	230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit	19,744.66	163.36
26 24 19 00-0058	EA	230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit	30,531.18	188.48
26 24 19 00-0059	EA	230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit	52,218.65	251.31
26 24 19 00-0060		480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0061	EA	480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit	7,663.61	131.94
26 24 19 00-0062	EA	480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit	11,722.98	144.50
26 24 19 00-0063	EA	480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit	19,744.66	163.36
26 24 19 00-0064	EA	480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit	30,531.18	188.48
26 24 19 00-0065	EA	480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit	52,218.65	251.31
26 24 19 00-0066		230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0067	EA	230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,254.76 120.62	201.05

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit.....	6,783.05	232.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.47	
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit.....	11,898.45	257.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.55	
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	20,256.28	314.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.48	
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	27,822.30	402.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	241.27	
26 24 19 00-0072 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001)		
Note: Reducing volt, part winding.		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit.....	5,254.76	201.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.62	
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit.....	6,783.05	232.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.47	
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	11,898.45	257.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.55	
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	20,256.28	314.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.48	
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit.....	27,822.30	402.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	241.27	
26 24 19 00-0078 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001)		
Note: Reducing volt, energy saver.		
26 24 19 00-0079 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	21,586.75	163.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.01	
26 24 19 00-0080 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	22,905.47	201.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.62	
26 24 19 00-0081 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	25,295.66	232.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.47	
26 24 19 00-0082 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	38,281.58	257.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.55	
26 24 19 00-0083 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	52,201.88	314.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.48	
26 24 19 00-0084 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	70,837.31	402.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	241.27	
26 24 19 00-0085 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001)		
Note: Reducing volt, energy saver.		
26 24 19 00-0086 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	21,586.75	163.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.01	
26 24 19 00-0087 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	22,905.47	201.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.62	
26 24 19 00-0088 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	25,295.66	232.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.47	
26 24 19 00-0089 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	38,281.58	257.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.55	
26 24 19 00-0090 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	52,201.88	314.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.48	
26 24 19 00-0091 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit.....	70,837.31	402.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	241.27	
26 24 19 00-0092 Combination Starters With Current Limiting Circuit Breakers (26 24 19)		
Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,416.42	125.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0095 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,885.28	131.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.16	
26 24 19 00-0096 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,995.84	138.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.93	
26 24 19 00-0097 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	11,031.57	163.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.01	
26 24 19 00-0098 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	19,729.74	188.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.09	



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Switchboards and Panelboards			26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0099	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,148.84 150.78	251.31
26 24 19 00-0100 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Full volt, 1-speed non-reversing.				
26 24 19 00-0101	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,416.42 75.39	125.65
26 24 19 00-0102	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,885.28 79.16	131.94
26 24 19 00-0103	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,995.84 82.93	138.22
26 24 19 00-0104	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,031.57 98.01	163.36
26 24 19 00-0105	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,729.74 113.09	188.48
26 24 19 00-0106	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,148.84 150.78	251.31
26 24 19 00-0107 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Full volt, 1-speed reversing.				
26 24 19 00-0108	EA	230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,548.71 75.39	125.65
26 24 19 00-0109	EA	230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,763.58 79.16	131.94
26 24 19 00-0110	EA	230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,513.92 82.93	138.22
26 24 19 00-0111	EA	230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,174.45 98.01	163.36
26 24 19 00-0112	EA	230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,520.59 113.09	188.48
26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Full volt, 1-speed reversing.				
26 24 19 00-0114	EA	480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,548.71 75.39	125.65
26 24 19 00-0115	EA	480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,763.58 79.16	131.94
26 24 19 00-0116	EA	480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,513.92 82.93	138.22
26 24 19 00-0117	EA	480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,174.45 98.01	163.36
26 24 19 00-0118	EA	480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,520.59 113.09	188.48
26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Full volt, 2-speed non-reversing, 2 wind.				
26 24 19 00-0120	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,344.09 120.62	201.05
26 24 19 00-0121	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,013.35 128.17	213.62
26 24 19 00-0122	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,539.15 135.70	226.18
26 24 19 00-0123	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,054.35 154.55	257.60
26 24 19 00-0124	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,139.32 180.95	301.57
26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Full volt, 2-speed non-reversing, 2 wind.				
26 24 19 00-0126	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,344.09 120.62	201.05
26 24 19 00-0127	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,013.35 128.17	213.62
26 24 19 00-0128	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,539.15 135.70	226.18
26 24 19 00-0129	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,054.35 154.55	257.60
26 24 19 00-0130	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,139.32 180.95	301.57

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0131	230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)			
	Note: Full volt, 2-speed non-reversing, 1 wind.			
26 24 19 00-0132	EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit	6,149.49	188.48	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.09		
26 24 19 00-0133	EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit	8,658.88	201.05	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.62		
26 24 19 00-0134	EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit	12,134.02	213.62	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.17		
26 24 19 00-0135	EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	22,752.02	245.03	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.02		
26 24 19 00-0136	EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	37,694.99	289.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	173.41		
26 24 19 00-0137	480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)			
	Note: Full volt, 2-speed non-reversing, 1 wind.			
26 24 19 00-0138	EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	6,149.49	188.48	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.09		
26 24 19 00-0139	EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	8,658.88	201.05	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.62		
26 24 19 00-0140	EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	12,134.02	213.62	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.17		
26 24 19 00-0141	EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	22,752.02	245.03	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.02		
26 24 19 00-0142	EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	37,694.99	289.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	173.41		
26 24 19 00-0143	230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)			
	Note: Reduced volt, auto-transformer.			
26 24 19 00-0144	EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit	8,474.81	131.94	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.16		
26 24 19 00-0145	EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit	13,635.08	144.50	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.70		
26 24 19 00-0146	EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	23,030.48	163.36	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.01		
26 24 19 00-0147	EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	34,879.28	188.48	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.09		
26 24 19 00-0148	EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	57,377.94	251.31	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.78		
26 24 19 00-0149	480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)			
	Note: Reduced volt, auto-transformer.			
26 24 19 00-0150	EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit	8,474.81	131.94	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.16		
26 24 19 00-0151	EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	13,635.08	144.50	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.70		
26 24 19 00-0152	EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	23,030.48	163.36	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.01		
26 24 19 00-0153	EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	34,879.28	188.48	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.09		
26 24 19 00-0154	EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit	57,377.94	251.31	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.78		
26 24 19 00-0155	230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)			
	Note: Reduced volt, part winding.			
26 24 19 00-0156	EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit	6,090.10	201.05	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.62		
26 24 19 00-0157	EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit	7,601.49	232.46	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.47		
26 24 19 00-0158	EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit	13,330.12	257.60	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.55		
26 24 19 00-0159	EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	23,583.14	314.13	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.48		
26 24 19 00-0160	EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	34,780.22	402.10	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	241.27		
26 24 19 00-0161	480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)			
	Note: Reduced volt, part winding.			



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0162 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,090.10 120.62	201.05
26 24 19 00-0163 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,601.49 139.47	232.46
26 24 19 00-0164 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,330.12 154.55	257.60
26 24 19 00-0165 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,583.14 188.48	314.13
26 24 19 00-0166 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,780.22 241.27	402.10
26 24 19 00-0167 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Reduced volt, energy saving		
26 24 19 00-0168 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,279.64 98.01	163.36
26 24 19 00-0169 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,591.13 120.62	201.05
26 24 19 00-0170 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,957.17 139.47	232.46
26 24 19 00-0171 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38,829.62 154.55	257.60
26 24 19 00-0172 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52,626.79 188.48	314.13
26 24 19 00-0173 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73,751.33 241.27	402.10
26 24 19 00-0174 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Reduced volt, energy saving		
26 24 19 00-0175 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,279.70 98.03	163.36
26 24 19 00-0176 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,591.13 120.62	201.05
26 24 19 00-0177 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,957.17 139.47	232.46
26 24 19 00-0178 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38,829.62 154.55	257.60
26 24 19 00-0179 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52,626.79 188.48	314.13
26 24 19 00-0180 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73,751.33 241.27	402.10
26 24 19 00-0181 Combination Starters With Fusible Switch (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed non-reversing.		
26 24 19 00-0183 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,279.30 75.39	125.65
26 24 19 00-0184 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,136.86 79.16	131.94
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,273.98 82.93	138.22
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,288.46 98.01	163.36
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,065.38 113.09	188.48
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,856.76 150.78	251.31
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed non-reversing.		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,279.30 75.39	125.65
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,136.86 79.16	131.94
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,273.98 82.93	138.22

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	9,288.46	163.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.01	
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	15,065.38	188.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.09	
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	26,856.76	251.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.78	
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 1-Speed reversing.		
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,667.50	125.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	5,454.56	131.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.16	
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	8,714.31	138.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.93	
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	14,191.84	163.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.01	
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	21,822.91	188.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.09	
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	37,083.60	251.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.78	
26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 1-Speed reversing.		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,667.50	125.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	5,454.56	131.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.16	
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	8,714.31	138.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.93	
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	14,191.84	163.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.01	
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	21,822.91	188.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.09	
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	37,083.60	251.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.78	
26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	4,305.95	201.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.62	
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	5,910.03	213.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.17	
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	9,278.90	226.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	135.70	
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	16,545.92	257.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.55	
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	26,339.26	301.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	180.95	
26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	4,305.95	201.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.62	
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	5,910.03	213.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.17	
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	9,278.90	226.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	135.70	
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	16,545.92	257.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.55	
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	26,339.26	301.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	180.95	
26 24 19 00-0222 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter.....	4,893.95	125.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0224 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter.....	7,451.16	131.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.16	
26 24 19 00-0225 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter.....	10,718.15	138.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.93	
26 24 19 00-0226 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter.....	21,581.92	163.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.01	
26 24 19 00-0227 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter.....	4,893.95	125.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Switchboards and Panelboards			26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0229	EA	25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,451.16 79.16	131.94
26 24 19 00-0230	EA	50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,718.15 82.93	138.22
26 24 19 00-0231	EA	100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,581.92 98.01	163.36
26 24 19 00-0232 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)				
Note: Auto-transformer.				
26 24 19 00-0233	EA	15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,400.46 79.16	131.94
26 24 19 00-0234	EA	30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,048.42 86.70	144.50
26 24 19 00-0235	EA	50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,724.36 98.01	163.36
26 24 19 00-0236	EA	100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,000.53 113.09	188.48
26 24 19 00-0237	EA	200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,708.30 150.78	251.31
26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)				
Note: Auto-transformer.				
26 24 19 00-0239	EA	25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,400.46 79.16	131.94
26 24 19 00-0240	EA	50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,048.42 86.70	144.50
26 24 19 00-0241	EA	100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,724.36 98.01	163.36
26 24 19 00-0242	EA	200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,000.53 113.09	188.48
26 24 19 00-0243	EA	400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,708.30 150.78	251.31
26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)				
Note: Part winding.				
26 24 19 00-0245	EA	10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,286.14 120.62	201.05
26 24 19 00-0246	EA	25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,990.68 139.47	232.46
26 24 19 00-0247	EA	50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,106.57 154.55	257.60
26 24 19 00-0248	EA	75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,098.37 188.48	314.13
26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)				
Note: Part winding.				
26 24 19 00-0250	EA	15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,286.14 120.62	201.05
26 24 19 00-0251	EA	40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,990.68 139.47	232.46
26 24 19 00-0252	EA	75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,106.57 154.55	257.60
26 24 19 00-0253	EA	150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,098.37 188.48	314.13
26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)				
Note: Energy saver.				
26 24 19 00-0255	EA	7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,584.33 98.01	163.36
26 24 19 00-0256	EA	15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,905.47 120.62	201.05
26 24 19 00-0257	EA	30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,295.66 139.47	232.46
26 24 19 00-0258	EA	50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38,281.58 154.55	257.60
26 24 19 00-0259	EA	100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52,201.88 188.48	314.13
26 24 19 00-0260	EA	200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70,837.31 241.27	402.10
26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)				
Note: Energy saver.				

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	21,584.33	163.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.01	
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	22,905.47	201.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.62	
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	25,295.66	232.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.47	
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	38,281.58	257.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.55	
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	52,201.88	314.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.48	
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	70,837.31	402.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	241.27	
26 24 19 00-0268 Starter Accessories (26 24 19)		
Note: Additional options or accessories for the Combination Starters		
26 24 19 00-0269 Starter Modifications (26 24 19 00-0268)		
26 24 19 00-0270 EA Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer	199.15	
26 24 19 00-0271 EA Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer	376.63	
26 24 19 00-0272 EA Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer.....	538.38	
26 24 19 00-0273 EA Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes	135.20	
26 24 19 00-0274 EA Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes	190.73	
26 24 19 00-0275 EA Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes	321.10	
26 24 19 00-0276 EA Overload Relay Heater Elements, 3 Per Starter	79.67	
26 24 19 00-0277 EA N.O. Overload Relay Alarm	67.60	
26 24 19 00-0278 EA Control Circuit Fuses, Primary/Secondary	136.18	
26 24 19 00-0279 EA Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton	168.37	
26 24 19 00-0280 EA Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton.....	329.32	
26 24 19 00-0281 EA Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select	168.37	
26 24 19 00-0282 EA Control Devices Type PB2 Mount On Device, Individual Light Full V	193.13	
26 24 19 00-0283 EA Control Devices Type PB2 Mount On Device, Individual Light Transformer.....	232.75	
26 24 19 00-0284 EA Control Devices Type PB2 Mount On Device, Individual Light Push To	274.84	
26 24 19 00-0285 EA Blank Devices Panel.....	52.00	
26 24 19 00-0286 EA Oversize Or Special Color Starter.....	81.71	
26 24 19 00-0287 EA Mini Voltmeter/Ammeter With Current Transformer.....	718.60	
26 24 19 00-0288 EA Mini Elapsed Time Meters, Non-Resettable.....	651.75	
26 24 19 00-0289 EA Panel Elapsed Time Meter, Resettable.....	965.66	
26 24 19 00-0290 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Press.....	81.71	
26 24 19 00-0291 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw.....	116.37	
26 24 19 00-0292 EA Terminal Blocks, Front Mounted, Press Connection, Standard	81.71	
26 24 19 00-0293 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In.....	116.37	
26 24 19 00-0294 EA Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility	116.37	
26 24 19 00-0295 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type.....	168.37	
26 24 19 00-0296 EA MOR - A Solid State Modular Overload Relay	418.45	
26 24 19 00-0297 EA Heater Module	84.26	
26 24 19 00-0298 EA LAM - Long Acceleration Module.....	523.41	
26 24 19 00-0299 EA JAM - Jam Protection Module	600.00	
26 24 19 00-0300 EA PUM - Phase Unbalance Module.....	1,138.73	
26 24 19 00-0301 EA ULM - Underload Module.....	546.38	
26 24 19 00-0302 EA Wiring To Common Control Circuit Transformer	120.00	
26 24 19 00-0303 EA Handle Operator Separable Source Control Circuit	224.68	
26 24 19 00-0304 EA Type SIS Control Wire	94.47	
26 24 19 00-0305 EA Ring Or Spade Terminals Control.....	120.00	
26 24 19 00-0306 EA Ring Terminals Power.....	120.00	
26 24 19 00-0307 EA 14 Gauge Control Wire	94.47	
26 24 19 00-0308 EA Wiring Diagram On Door.....	71.49	
26 24 19 00-0309 EA Special Color Or Type Control Wire.....	86.81	
26 24 19 00-0310 EA Current Transformer 12.5 VA.....	681.70	
26 24 19 00-0311 EA Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4.....	2,177.88	
26 24 19 00-0312 EA Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6.....	2,451.07	
26 24 19 00-0313 Control Relays And Special Components (26 24 19 00-0268)		
26 24 19 00-0314 EA 600 Volt, 2 Pole, Control Relays	693.34	
26 24 19 00-0315 EA 600 Volt, 4 Pole, Control Relays	817.61	
26 24 19 00-0316 EA 600 Volt, 6 Pole, Control Relays	954.44	
26 24 19 00-0317 EA 600 Volt, 8 Pole, Control Relays	1,060.68	
26 24 19 00-0318 EA Pneumatic Timer, Control Relays	926.02	
26 24 19 00-0319 EA Motor Driven Timer, Control Relays.....	2,413.05	
26 24 19 00-0320 EA 7 Days Time Switch, Control Relays.....	3,037.16	
26 24 19 00-0321 EA 24 Hour Time Switch, Control Relays	851.67	
26 24 19 00-0322 EA Phase Voltage, Control Relays.....	1,448.73	
26 24 19 00-0323 EA Two Circuit Alternator, Control Relays.....	2,027.78	
26 24 19 00-0324 EA Manual 120 Volt, Control Relays	198.27	
26 24 19 00-0325 EA Over-Current Relay, Control Relays	4,871.50	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0326	EA	UV-Relay, Control Relays	4,125.97	
26 24 19 00-0327	EA	Over-Current Relay, Control Relays	4,125.97	
26 24 19 00-0328	EA	Teleductor, Control Relays	1,493.80	
26 24 19 00-0329	EA	Current Transducer, Control Relays	4,017.25	
26 24 19 00-0330	EA	Watt Transducer, Control Relays	8,034.50	
26 24 19 00-0331	EA	Control Relays, Blank, Add For Each 1x	272.62	
26 24 19 00-0332	EA	Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway	407.81	
26 24 19 00-0333	EA	Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway	459.63	
26 24 19 00-0334	EA	Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway	511.45	
26 24 19 00-0335	EA	Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway	459.63	
26 24 19 00-0336	EA	Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway	511.45	
26 24 19 00-0337	EA	Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway	538.49	
26 24 19 00-0338 Circuit Breaker Modifications/Accessories (26 24 19 00-0268)				
26 24 19 00-0339	EA	Shunt Trip, Circuit Breaker	677.63	
26 24 19 00-0340	EA	Auxiliary Switch, Circuit Breaker	234.05	
26 24 19 00-0341	EA	Key Interlock, Circuit Breaker	841.84	
26 24 19 00-0342	EA	GFR Ground Fault, Circuit Breaker	3,880.77	
26 24 19 00-0343	EA	Seltronic Breaker, Circuit Breaker	2,248.05	
26 24 19 00-0344 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)				
26 24 19 00-0345	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100	1,752.96	81.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.00	
26 24 19 00-0346	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150	3,036.87	125.65
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0347	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100	2,929.09	81.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.00	
26 24 19 00-0348	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150	4,210.52	125.65
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0349	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150	5,408.92	125.65
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0350	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250	3,340.11	163.36
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.03	
26 24 19 00-0351	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400	5,420.38	175.91
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.57	
26 24 19 00-0352	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600	7,149.88	226.18
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	135.65	
26 24 19 00-0353	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800	8,409.18	345.55
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.40	
26 24 19 00-0354	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200	11,908.68	521.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	313.13	
26 24 19 00-0355	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000	26,114.30	691.11
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	414.31	
26 24 19 00-0356	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500	39,024.21	867.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	519.72	
26 24 19 00-0357	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000	65,114.36	1,005.11
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	603.66	
26 24 19 00-0358	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	2,107.04	81.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.00	
26 24 19 00-0359	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150	3,381.04	125.65
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0360	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	2,107.04	81.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.00	
26 24 19 00-0361	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50	3,381.04	125.65
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0362	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150	3,585.24	81.67
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.00	
26 24 19 00-0363	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150	4,908.76	125.65
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0364	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	6,092.31	125.65
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0365	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100	3,210.19	125.65
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0366	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400	8,131.86	345.55
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.40	
26 24 19 00-0367	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225	8,131.86	345.55
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.40	
26 24 19 00-0368	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400	10,954.94	376.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	226.08	
26 24 19 00-0369	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600	13,680.39	439.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	263.76	
26 24 19 00-0370	EA	Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800	15,741.61	521.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	313.13	
26 24 19 00-0371 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)				
26 24 19 00-0372	EA	30 To 60 Amperes, Incoming Line And Feeder Fusible Switches	2,053.87	125.65
26 24 19 00-0373	EA	Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual	3,174.72	125.65
26 24 19 00-0374	EA	100 Amperes, Incoming Line And Feeder Fusible Switches	3,032.83	157.07
26 24 19 00-0375	EA	200 Amperes, Incoming Line And Feeder Fusible Switches	4,930.50	188.48
26 24 19 00-0376	EA	400 Amperes, Incoming Line And Feeder Fusible Switches	9,715.76	238.74

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0377	EA	600 Amperes, Incoming Line And Feeder Fusible Switches.....	13,627.55	314.13
26 24 19 00-0378	EA	800 Amperes, Incoming Line And Feeder Fusible Switches.....	33,136.45	420.94
26 24 19 00-0379	EA	1,200 Amperes, Incoming Line And Feeder Fusible Switches.....	37,388.45	584.30
26 24 19 00-0380 Dry Type Distribution Transformers (26 24 19 00-0268)				
26 24 19 00-0381	EA	500 VA, Phase 1, Dry Type Distribution Transformers.....	1,688.67	
26 24 19 00-0382	EA	750 VA, Phase 1, Dry Type Distribution Transformers.....	1,743.14	
26 24 19 00-0383	EA	1,000 VA, Phase 1, Dry Type Distribution Transformers.....	1,800.09	
26 24 19 00-0384	EA	1,500 VA, Phase 1, Dry Type Distribution Transformers.....	2,065.03	
26 24 19 00-0385	EA	2,000 VA, Phase 1, Dry Type Distribution Transformers.....	2,238.35	
26 24 19 00-0386	EA	3,000 VA, Phase 1, Dry Type Distribution Transformers.....	2,739.58	
26 24 19 00-0387	EA	5,000 VA, Phase 1, Dry Type Distribution Transformers.....	3,045.54	
26 24 19 00-0388	EA	7,500 VA, Phase 1, Dry Type Distribution Transformers.....	3,431.81	
26 24 19 00-0389	EA	9,000 VA, Phase 3, Dry Type Distribution Transformers.....	7,977.84	
26 24 19 00-0390	EA	10,000 VA, Phase 1, Dry Type Distribution Transformers.....	4,234.05	
26 24 19 00-0391	EA	15,000 VA, Phase 1, Dry Type Distribution Transformers.....	5,865.77	
26 24 19 00-0392	EA	15,000 VA, Phase 3, Dry Type Distribution Transformers.....	9,141.58	
26 24 19 00-0393	EA	20,000 VA, Phase 1, Dry Type Distribution Transformers.....	8,465.62	
26 24 19 00-0394	EA	30,000 VA, Phase 1, Dry Type Distribution Transformers.....	11,731.53	
26 24 19 00-0395	EA	30,000 VA, Phase 3, Dry Type Distribution Transformers.....	13,097.90	
26 24 19 00-0396	EA	45,000 VA, Phase 1, Dry Type Distribution Transformers.....	18,143.02	
26 24 19 00-0397 Metering Equipment (26 24 19 00-0268)				
26 24 19 00-0398	EA	Metering Equipment, Voltmeter, Panel Type.....	797.29	
26 24 19 00-0399	EA	Metering Equipment, Voltmeter, Switchboard Type.....	1,743.14	
26 24 19 00-0400	EA	Metering Equipment, Ammeter, Panel.....	718.05	
26 24 19 00-0401	EA	Metering Equipment, Ammeter, Switchboard Type.....	1,743.14	
26 24 19 00-0402	EA	Metering Equipment, Voltmeter/Ammeter, Switch.....	968.14	
26 24 19 00-0403	EA	Metering Equipment, Control Switch, 4 Circuits.....	1,027.56	
26 24 19 00-0404	EA	Add For Additional Circuits.....	140.43	
26 24 19 00-0405	EA	Metering Equipment, Indicating Wattmeter.....	3,595.23	
26 24 19 00-0406	EA	Metering Equipment, Indicating Power Factor.....	3,766.07	
26 24 19 00-0407	EA	Metering Equipment, Integrating Watt-hour.....	3,320.38	
26 24 19 00-0408	EA	Add For Demand Attachment.....	919.15	
26 24 19 00-0409	EA	800 Amperes, Metering Equipment, Current Transformer.....	992.90	
26 24 19 00-0410	EA	1,000 Amperes, Metering Equipment, Current Transformer.....	1,713.43	
26 24 19 00-0411	EA	2,000 Amperes, Metering Equipment, Current Transformer.....	1,995.70	
26 24 19 00-0412	EA	Metering Equipment, Potential Transformer.....	1,663.91	
26 24 19 00-0413	EA	Metering Equipment, Surge Arrester.....	1,790.18	
26 24 19 00-0414	EA	Metering Equipment, Ground Detector System.....	1,369.26	
26 24 19 00-0415 Current Limiting Reactors (26 24 19 00-0268)				
26 24 19 00-0416	EA	600 Amperes, Current Limiting Reactors.....	30,561.90	
26 24 19 00-0417	EA	800 Amperes, Current Limiting Reactors.....	44,507.02	
26 24 19 00-0418	EA	1,000 Amperes, Current Limiting Reactors.....	58,484.33	
26 24 19 00-0419	EA	1,200 Amperes, Current Limiting Reactors.....	89,023.94	
26 24 19 00-0420 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)				
26 24 19 00-0421	EA	Incoming Line Cable Space Requirement, 350 MCC, 2 Screw.....	523.90	
26 24 19 00-0422	EA	Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp.....	523.90	
26 24 19 00-0423	EA	Incoming Line Cable Space Requirement, 350 MCC, 4 Screw.....	724.28	
26 24 19 00-0424	EA	Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp.....	1,325.43	
26 24 19 00-0425	EA	Incoming Line Cable Space Requirement, 600 MCC, 2 Screw.....	724.28	
26 24 19 00-0426	EA	Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp.....	924.66	
26 24 19 00-0427	EA	Incoming Line Cable Space Requirement, 600 MCC, 4 Screw.....	924.66	
26 24 19 00-0428	EA	Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp.....	1,323.02	
26 24 19 00-0429	EA	Incoming Line Cable Space Requirement, 750 MCC, 2 Screw.....	924.66	
26 24 19 00-0430	EA	Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp.....	1,323.02	
26 24 19 00-0431	EA	Incoming Line Cable Space Requirement, 750 MCC, 4 Screw.....	1,125.05	
26 24 19 00-0432	EA	Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp.....	3,647.96	
26 24 19 00-0433	EA	Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw.....	1,125.05	
26 24 19 00-0434	EA	Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp.....	1,323.02	
26 24 19 00-0435	EA	Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw.....	3,647.96	
26 24 19 00-0436	EA	Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp.....	3,647.96	
26 24 19 00-0437	EA	Bus Duct Transition Pull Box.....	1,190.71	
26 24 19 00-0438	EA	Throat And Transition To Substation.....	2,298.64	
26 24 19 00-0439	EA	Service Entrance Label Signage.....	497.80	
26 24 19 00-0440	EA	Type W To 5 Star - 10" Transition.....	1,040.54	
26 24 19 00-0441	EA	600 Amperes, Sub Feed Lugs On Main Bus.....	610.21	
26 24 19 00-0442 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)				
26 24 19 00-0443	EA	Standard Structure Add For Each Additional 4" Of Structure Width.....	328.72	
26 24 19 00-0444	EA	Standard Structure Add For 8" Vertical Wireway In Lieu Of 4".....	328.72	
26 24 19 00-0445	EA	Standard Structure Single Corner Section "L", 16" Depth.....	1,016.89	
26 24 19 00-0446	EA	Standard Structure Single Corner Section "L", 21" Depth.....	1,146.96	



Electrical		26	26
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0447	EA	Standard Structure Unused Space/Future Space.....	98.14	
26 24 19 00-0448	EA	Standard Structure NEMA 12 Dustproof.....	264.86	
26 24 19 00-0449	EA	Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure	55.57	
26 24 19 00-0450	EA	Standard Structure 150 Watt Space	238.85	
26 24 19 00-0451	EA	Standard Structure Thermostat For Space Heater Control	742.98	
26 24 19 00-0452	EA	Standard Structure Rear Hinged Structure Door, 72" High	238.85	
26 24 19 00-0453	EA	Standard Structure NEMA 2 Drip Shield On Top Of MCC	480.00	
26 24 19 00-0454	EA	Standard Structure NEMA 3R N-Walk In Front Mounted	6,847.67	
26 24 19 00-0455	EA	Standard Structure NEMA 3R N-Walk In Back-to-back	7,914.91	
26 24 19 00-0456	EA	Standard Structure NEMA 3R Walk-In Aisle Front Mounted.....	7,922.57	
26 24 19 00-0457 Installation Hours For Vertical Sections (26 24 19 00-0268)				
26 24 19 00-0458	EA	Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes	753.90	376.96
26 24 19 00-0459	EA	Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes	1,130.84	565.45
26 24 19 00-0460	EA	Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes	1,256.55	628.28
26 24 19 00-0461	EA	Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes	1,507.99	753.93
26 24 19 00-0462	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes	125.65	62.83
26 24 19 00-0463	EA	Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes	753.90	376.96
26 24 19 00-0464	EA	Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes	1,130.84	565.45
26 24 19 00-0465	EA	Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes	1,256.55	628.28
26 24 19 00-0466	EA	Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes	1,507.99	753.93
26 24 19 00-0467	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes	125.65	62.83
26 24 19 00-0468	EA	Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes	879.60	439.79
26 24 19 00-0469	EA	Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes	1,130.84	565.45
26 24 19 00-0470	EA	Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes	1,507.99	753.93
26 24 19 00-0471	EA	Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes	1,758.95	879.46
26 24 19 00-0472	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes	188.48	94.24
26 24 19 00-0473	EA	Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes	1,005.24	502.61
26 24 19 00-0474	EA	Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes	1,382.32	691.11
26 24 19 00-0475	EA	Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes	1,758.95	879.46
26 24 19 00-0476	EA	Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes	2,010.13	1,005.11
26 24 19 00-0477	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes	251.31	125.65
26 24 19 00-0478	EA	Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes	1,005.24	502.61
26 24 19 00-0479	EA	Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes	1,507.99	753.93
26 24 19 00-0480	EA	Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes	1,884.62	942.29
26 24 19 00-0481	EA	Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes	2,136.27	1,068.19
26 24 19 00-0482	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes	251.31	125.65
26 24 19 00-0483 Motor Control Centers (26 24 19)				
26 24 19 00-0484 2.4 KV Motor Control Centers (26 24 19 00-0483)				
26 24 19 00-0485	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp	18,138.17	251.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.78	
26 24 19 00-0486	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp	18,138.17	251.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.78	
26 24 19 00-0487	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp	18,138.17	251.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.78	
26 24 19 00-0488	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp	18,201.04	282.72
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	169.64	
26 24 19 00-0489	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp	19,331.68	314.13
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.48	
26 24 19 00-0490	EA	2,400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp	19,394.48	345.55
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.32	
26 24 19 00-0491	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp	19,457.30	376.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	226.17	
26 24 19 00-0492	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp	19,583.00	439.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	263.88	
26 24 19 00-0493	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp	19,708.64	502.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	301.57	
26 24 19 00-0494	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp	33,144.50	565.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	339.25	
26 24 19 00-0495	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp	35,578.47	628.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	376.97	
26 24 19 00-0496	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp	26,892.30	251.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.78	
26 24 19 00-0497	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp	28,017.28	270.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.10	
26 24 19 00-0498	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp	31,827.61	295.29
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.17	
26 24 19 00-0499	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp	35,424.80	314.13
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.48	
26 24 19 00-0500	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp	38,545.51	364.40
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	218.65	
26 24 19 00-0501	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp	42,230.71	389.53
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	233.72	
26 24 19 00-0502	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp	45,913.74	414.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	248.78	
26 24 19 00-0503	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp	50,284.30	452.36
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	271.42	
26 24 19 00-0504	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp	58,511.17	502.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	301.57	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0505 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp.....	63,391.21	534.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	320.44	
26 24 19 00-0506 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp.....	96,779.78	628.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	376.97	
26 24 19 00-0507 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp.....	103,118.44	691.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	414.70	
26 24 19 00-0508 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp.....	108,637.25	753.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	452.40	
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp.....	118,293.81	816.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	490.14	
26 24 19 00-0510 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp.....	25,375.75	251.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.78	
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp.....	25,438.62	282.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	169.64	
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp.....	25,501.42	314.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.48	
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp.....	25,564.22	345.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.32	
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp.....	25,631.36	376.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	226.17	
26 24 19 00-0515 EA 2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP.....	25,694.24	408.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	245.03	
26 24 19 00-0516 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp.....	25,757.06	439.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	263.88	
26 24 19 00-0517 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp.....	26,008.30	565.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	339.25	
26 24 19 00-0518 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp.....	44,261.42	628.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	376.97	
26 24 19 00-0519 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp.....	44,387.19	691.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	414.70	
26 24 19 00-0520 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp.....	46,808.18	753.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	452.40	
26 24 19 00-0521 EA Add For Reversing Starters, 100 To 700 HP.....	9,980.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0522 EA Add For Reversing Starters, 1,000 To 1,500 Hp.....	10,282.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0523 EA Add For Reversing Starters, 1,750 To 2,500 HP.....	15,729.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.39	
26 24 19 00-0524 4.8 KV Motor Control Centers (26 24 19 00-0483)		
26 24 19 00-0525 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP.....	19,759.31	376.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	226.17	
26 24 19 00-0526 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP.....	19,822.19	408.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	245.03	
26 24 19 00-0527 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP.....	19,885.01	439.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	263.88	
26 24 19 00-0528 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP.....	19,947.87	471.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	282.74	
26 24 19 00-0529 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP.....	21,067.71	502.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	301.57	
26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP.....	21,130.60	534.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	320.44	
26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP.....	21,193.31	565.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	339.25	
26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP.....	21,256.25	596.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	358.13	
26 24 19 00-0533 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP.....	21,319.02	628.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	376.97	
26 24 19 00-0534 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP.....	36,074.37	816.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	490.14	
26 24 19 00-0535 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP.....	36,199.52	879.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	527.69	
26 24 19 00-0536 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP.....	38,622.66	942.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	565.39	
26 24 19 00-0537 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP.....	38,748.17	1,005.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	603.04	
26 24 19 00-0538 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP.....	27,449.92	376.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	226.17	
26 24 19 00-0539 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP.....	27,814.82	408.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	245.03	
26 24 19 00-0540 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP.....	32,429.45	439.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	263.88	
26 24 19 00-0541 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP.....	36,040.99	471.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	282.74	
26 24 19 00-0542 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP.....	39,123.93	502.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	301.57	
26 24 19 00-0543 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP.....	42,821.79	534.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	320.44	
26 24 19 00-0544 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP.....	46,292.96	565.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	339.25	
26 24 19 00-0545 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP.....	50,875.35	596.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	358.13	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0546 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58,919.96 376.97	628.28
26 24 19 00-0547 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64,388.89 395.82	659.69
26 24 19 00-0548 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69,920.66 433.53	722.52
26 24 19 00-0549 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74,490.07 452.40	753.93
26 24 19 00-0550 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78,800.40 471.21	785.35
26 24 19 00-0551 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84,828.32 490.14	816.88
26 24 19 00-0552 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134,411.62 603.04	1,005.11
26 24 19 00-0553 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149,465.97 640.88	1,068.19
26 24 19 00-0554 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179,631.15 678.51	1,130.89
26 24 19 00-0555 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	189,996.76 678.51	1,130.89
26 24 19 00-0556 EA 4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,118.29 263.88	439.79
26 24 19 00-0557 EA 4.8 KV CL 14-202, Synchronous Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,181.15 282.74	471.20
26 24 19 00-0558 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,243.93 301.57	502.61
26 24 19 00-0559 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,306.82 320.44	534.04
26 24 19 00-0560 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,643.27 339.25	565.45
26 24 19 00-0561 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,706.21 358.13	596.86
26 24 19 00-0562 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,768.98 376.97	628.28
26 24 19 00-0563 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,831.83 395.82	659.69
26 24 19 00-0564 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,894.75 414.70	691.11
26 24 19 00-0565 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,271.38 527.69	879.46
26 24 19 00-0566 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,826.48 565.39	942.29
26 24 19 00-0567 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51,238.68 603.04	1,005.11
26 24 19 00-0568 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51,238.68 603.04	1,005.11
26 24 19 00-0569 EA Add For Reversing Starters, 100 To 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,139.66 75.39	
26 24 19 00-0570 EA Add For Reversing Starters, 1,500 To 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,477.66 75.39	
26 24 19 00-0571 EA Add For Reversing Starters, 3,000 To 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,573.68 75.39	
26 24 19 00-0572 2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0483)		
26 24 19 00-0573 EA 2.4/4.8 KV Load Break Disconnect Switch 600 Amperes.....	14,505.37	251.31
26 24 19 00-0574 EA 2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes.....	17,438.91	376.96
26 24 19 00-0575 EA 2.4/4.8 KV NEMA 3 Weather Resistant.....	5,700.09	
26 24 19 00-0576 EA 2.4/4.8 KV Space Heaters.....	281.12	18.85
26 24 19 00-0577 EA 2.4/4.8 KV Potential Transformer Fused.....	1,651.36	
26 24 19 00-0578 EA 2.4/4.8 KV Current Transformer 600 Volt, 5 KVA.....	886.04	
26 24 19 00-0579 EA 2.4/4.8 KV Control Transformer 4 KVA Max.....	2,638.80	
26 24 19 00-0580 EA 2.4/4.8 KV Pushbuttons Each.....	169.00	
26 24 19 00-0581 EA 2.4/4.8 KV Selector Switch Each.....	560.11	
26 24 19 00-0582 EA 2.4/4.8 KV Indicating Light.....	169.00	
26 24 19 00-0583 EA 2.4/4.8 KV Push To Test Light.....	511.82	
26 24 19 00-0584 EA 2.4/4.8 KV AC Voltmeter, Switchboard Type.....	1,361.65	
26 24 19 00-0585 EA 2.4/4.8 KV AC Ammeter, Switchboard Type.....	1,361.65	
26 24 19 00-0586 EA 2.4/4.8 KV Power Factor Meter.....	4,072.87	
26 24 19 00-0587 EA 2.4/4.8 KV Watt Hr Meter, 2 Element Drawout.....	2,807.79	
26 24 19 00-0588 EA 2.4/4.8 KV Operation Counter.....	549.51	18.85
26 24 19 00-0589 EA 2.4/4.8 KV Phase Failure Protection.....	3,945.02	62.83
26 24 19 00-0590 EA 2.4/4.8 KV Ground Protection.....	7,527.75	31.41
26 24 19 00-0591 EA 2.4/4.8 KV Synchronous Motor DC Protection.....	3,005.33	31.41
26 24 19 00-0592 EA 2.4/4.8 KV Lightning Arresters.....	5,636.85	18.85
26 24 19 00-0593 EA 2.4/4.8 KV Portable Lifting Mechanism.....	8,161.78	
26 24 19 00-0594 EA 2.4/4.8 KV Auxiliary Timing Relay.....	943.37	62.83
26 24 19 00-0595 EA 2.4/4.8 KV Auxiliary Control Relay.....	666.40	62.83

26 24 19 00-0596 Incoming Section And Feeder Air Circuit Breakers (26 24 19 00-0483)
Note: 3 Pole. Includes structure.

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0597	EA	Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure Included	1,412.16	376.82
26 24 19 00-0598	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure Included	2,450.94	667.00
26 24 19 00-0599	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included	2,930.78	854.04
26 24 19 00-0600	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included	4,703.85	1,375.27
26 24 19 00-0601	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included	5,532.16	1,512.79
26 24 19 00-0602	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included	7,136.35	1,677.82
26 24 19 00-0603	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure Included	8,305.79	1,966.63
26 24 19 00-0604	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure Included	14,340.39	2,291.19
26 24 19 00-0605 Main Lugs Only (26 24 19 00-0483)				
26 24 19 00-0606	EA	600 Amperes Incoming Section, Main Lugs	1,127.24	481.34
26 24 19 00-0607	EA	800 Amperes Incoming Section, Main Lugs	1,224.60	481.34
26 24 19 00-0608	EA	1,200 Amperes Incoming Section, Main Lugs	1,718.36	756.39
26 24 19 00-0609	EA	2,000 Amperes Incoming Section, Main Lugs	4,205.23	1,375.27
26 24 19 00-0610	EA	3,000 Amperes Incoming Section, Main Lugs	6,393.64	1,994.13
26 24 19 00-0611	EA	4,000 Amperes Incoming Section, Main Lugs	9,124.73	2,750.53
26 24 19 00-0612 Incoming Main Circuit Breaker Structure (26 24 19 00-0483)				
Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.				
26 24 19 00-0613	EA	225 Amperes, Main Circuit Breaker Section	7,497.45	665.49
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0614	EA	400 Amperes, Main Circuit Breaker Section	15,890.26	854.87
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0615	EA	600 Amperes, Main Circuit Breaker Section	16,518.82	1,331.53
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0616	EA	800 Amperes, Main Circuit Breaker Section	23,445.63	1,331.53
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0617	EA	1,200 Amperes, Main Circuit Breaker Section	33,915.96	1,506.61
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0618 Incoming Fusible Main Disconnect Section (26 24 19 00-0483)				
Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.				
26 24 19 00-0619	EA	200 Amperes, Fusible Main Disconnect Section	6,514.08	666.32
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0620	EA	400 Amperes, Fusible Main Disconnect Section	8,991.26	855.28
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0621	EA	600 Amperes, Fusible Main Disconnect Section	17,550.30	1,332.64
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0622 EA 800 Amperes, Fusible Main Disconnect Section..... For 800 Amperes, Tin Plated Copper Bus, Add For 1,200 Amperes, Tin Plated Copper Bus, Add For NEMA 1 With Gaskets, Add For NEMA 12, Add For 20" Cabinet Depth, Add	20,391.80 182.00 334.00 97.00 245.00 108.00	1,332.64
26 24 19 00-0623 EA 1,200 Amperes, Fusible Main Disconnect Section..... For 800 Amperes, Tin Plated Copper Bus, Add For 1,200 Amperes, Tin Plated Copper Bus, Add For NEMA 1 With Gaskets, Add For NEMA 12, Add For 20" Cabinet Depth, Add	28,702.77 182.00 334.00 97.00 245.00 108.00	1,507.98
26 24 19 00-0624 Circuit Breaker Combination Starters (26 24 19 00-0483)		
26 24 19 00-0625 Class I, Type A (26 24 19 00-0624)		
26 24 19 00-0626 EA Size 1, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,174.55 159.17	279.17
26 24 19 00-0627 EA Size 2, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,365.07 176.31	279.17
26 24 19 00-0628 EA Size 3, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,979.01 237.11	396.07
26 24 19 00-0629 EA Size 4, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,212.31 312.56	521.23
26 24 19 00-0630 EA Size 5, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,731.17 390.70	651.88
26 24 19 00-0631 Class I, Type B (26 24 19 00-0624)		
26 24 19 00-0632 EA Size 1, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,109.79 137.53	243.42
26 24 19 00-0633 EA Size 2, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,293.60 154.87	243.42
26 24 19 00-0634 EA Size 3, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,893.89 211.58	352.07
26 24 19 00-0635 EA Size 4, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,125.48 286.51	477.22
26 24 19 00-0636 EA Size 5, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,661.15 369.70	609.25
26 24 19 00-0637 Class I, Type C (26 24 19 00-0624)		
26 24 19 00-0638 EA Size 1, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,166.37 124.57	225.54
26 24 19 00-0639 EA Size 2, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,362.51 146.30	225.54
26 24 19 00-0640 EA Size 3, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,022.06 202.25	336.94
26 24 19 00-0641 EA Size 4, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,261.47 279.53	466.22
26 24 19 00-0642 EA Size 5, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,786.68 358.14	598.24
26 24 19 00-0643 Class II, Type B (26 24 19 00-0624)		
26 24 19 00-0644 EA Size 1, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,182.19 188.91	334.19
26 24 19 00-0645 EA Size 2, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,623.10 210.93	334.19
26 24 19 00-0646 EA Size 3, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,293.37 266.52	445.59
26 24 19 00-0647 EA Size 4, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,725.38 343.82	570.73
26 24 19 00-0648 EA Size 5, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,677.51 419.29	697.26
26 24 19 00-0649 Class II, Type C (26 24 19 00-0624)		
26 24 19 00-0650 EA Size 1, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,463.76 180.96	316.31
26 24 19 00-0651 EA Size 2, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,678.49 197.60	316.31
26 24 19 00-0652 EA Size 3, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,428.31 258.51	431.83
26 24 19 00-0653 EA Size 4, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,851.28 333.80	556.99
26 24 19 00-0654 EA Size 5, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,822.34 414.24	687.63
26 24 19 00-0655 Fused Disconnect Combination Starter (26 24 19 00-0483)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0656	Class I, Type A (26 24 19 00-0655)			
26 24 19 00-0657	EA	Size 1, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,074.35 154.87	257.17
26 24 19 00-0658	EA	Size 2, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,613.59 210.93	352.07
26 24 19 00-0659	EA	Size 3, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,547.65 275.06	457.96
26 24 19 00-0660	EA	Size 4, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,487.94 386.31	642.25
26 24 19 00-0661	EA	Size 5, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,058.15 491.17	818.28
26 24 19 00-0662	Class I, Type B (26 24 19 00-0655)			
26 24 19 00-0663	EA	Size 1, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,088.39 137.53	229.67
26 24 19 00-0664	EA	Size 2, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,466.87 188.91	314.93
26 24 19 00-0665	EA	Size 3, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,162.83 252.80	420.83
26 24 19 00-0666	EA	Size 4, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,601.91 365.76	607.86
26 24 19 00-0667	EA	Size 5, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,153.12 464.62	772.90
26 24 19 00-0668	Class I, Type C (26 24 19 00-0655)			
26 24 19 00-0669	EA	Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,147.17 128.77	214.54
26 24 19 00-0670	EA	Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,542.93 176.31	291.56
26 24 19 00-0671	EA	Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,342.68 245.58	405.70
26 24 19 00-0672	EA	Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,780.44 358.14	598.24
26 24 19 00-0673	EA	Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,826.16 458.42	764.65
26 24 19 00-0674	Class II, Type B (26 24 19 00-0655)			
26 24 19 00-0675	EA	Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,378.42 193.16	321.81
26 24 19 00-0676	EA	Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,778.13 240.43	401.57
26 24 19 00-0677	EA	Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,567.29 309.74	517.10
26 24 19 00-0678	EA	Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,155.97 419.29	697.26
26 24 19 00-0679	EA	Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,070.68 520.93	870.55
26 24 19 00-0680	Class II, Type C (26 24 19 00-0655)			
26 24 19 00-0681	EA	Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,425.72 180.96	302.56
26 24 19 00-0682	EA	Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,853.73 227.69	379.57
26 24 19 00-0683	EA	Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,715.97 296.39	493.72
26 24 19 00-0684	EA	Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,315.89 409.31	680.76
26 24 19 00-0685	EA	Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,223.55 505.61	843.03
26 24 19 00-0686	Space Complete With Bus And Hardware (26 24 19 00-0483)			
26 24 19 00-0687	Circuit Breaker Type (26 24 19 00-0686)			
26 24 19 00-0688	EA	Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	333.74	93.52
26 24 19 00-0689	EA	Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	333.74	93.52
26 24 19 00-0690	EA	Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	495.68	136.16
26 24 19 00-0691	EA	Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	590.41	178.79
26 24 19 00-0692	EA	Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	987.71	272.30
26 24 19 00-0693	Fused Disconnect Type (26 24 19 00-0686)			
26 24 19 00-0694	EA	Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	333.74	93.52
26 24 19 00-0695	EA	Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	443.95	136.16
26 24 19 00-0696	EA	Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	615.72	178.79
26 24 19 00-0697	EA	Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	1,058.34	272.30
26 24 19 00-0698	EA	Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,477.28	396.07



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0699		Blank Space For Future Expansion (26 24 19 00-0686) Note: Factory modified no labor costs.		
26 24 19 00-0700	EA	Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs	147.39	
26 24 19 00-0701	EA	Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs	147.39	
26 24 19 00-0702	EA	Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs	223.46	
26 24 19 00-0703	EA	Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs	223.46	
26 24 19 00-0704	EA	Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs	444.55	
26 24 19 00-0705		Structure Combination Of Starters To 72" High (26 24 19 00-0686)		
26 24 19 00-0706	EA	Structure Combination Of Starters To 72" High	3,843.67	723.80
26 24 19 00-0707		Motor Control Center Basic Distribution Section (26 24 19 00-0483)		
26 24 19 00-0708	EA	20" Wide Basic Section With Vertical Wireway	6,518.62	1,884.94
		For 20" Cabinet Depth, Add	108.00	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
		For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
		For NEMA 1 With Gasket, Add	97.00	
		For NEMA 12, Add	245.00	
		For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0709	EA	25" To 35" Wide Basic Section (No Vertical Wireway)	6,518.62	1,884.94
		For 20" Cabinet Depth, Add	108.00	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
		For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
		For NEMA 1 With Gasket, Add	97.00	
		For NEMA 12, Add	245.00	
		For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0710	EA	25" Wide Basic Section With 9" Wide Vertical Wireway	7,166.31	1,884.94
		For 20" Cabinet Depth, Add	108.00	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
		For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
		For NEMA 1 With Gasket, Add	97.00	
		For NEMA 12, Add	245.00	
		For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0711	EA	Corner Section	7,166.31	1,884.94
		For 20" Cabinet Depth, Add	108.00	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
		For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
		For NEMA 1 With Gasket, Add	97.00	
		For NEMA 12, Add	245.00	
		For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0712		Motor Control Center Starters With HMCP Circuit Breaker (26 24 19 00-0483) Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0713		FVNR Starters With HMCP Circuit Breaker (26 24 19 00-0712)		
26 24 19 00-0714	EA	Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker	1,656.44	264.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	158.83	
26 24 19 00-0715	EA	Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker	1,843.53	293.62
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	176.16	
26 24 19 00-0716	EA	Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker	3,178.30	394.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	236.84	
26 24 19 00-0717	EA	Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker	4,601.86	520.40
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	312.28	
26 24 19 00-0718	EA	Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker	10,407.08	650.37
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	390.26	
26 24 19 00-0719	EA	Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker	24,205.20	650.37
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	390.26	
26 24 19 00-0720	EA	Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker	1,666.37	228.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	137.38	
26 24 19 00-0721	EA	Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker	1,879.31	257.86
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.71	
26 24 19 00-0722	EA	Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker	3,241.50	352.07
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	211.23	
26 24 19 00-0723	EA	Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker	4,597.99	477.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	286.35	
26 24 19 00-0724	EA	Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker	10,421.09	616.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	369.70	
26 24 19 00-0725	EA	Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker	24,367.68	616.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	369.70	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0726 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker (26 24 19 00-0712)				
26 24 19 00-0727	EA	Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	2,638.56	331.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	198.74	
26 24 19 00-0728	EA	Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	3,230.86	366.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	219.93	
26 24 19 00-0729	EA	Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	5,307.14	492.62
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	295.55	
26 24 19 00-0730	EA	Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	9,099.42	651.19
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	390.70	
26 24 19 00-0731	EA	Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	16,376.72	814.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	488.84	
26 24 19 00-0732	EA	Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	2,671.98	286.06
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	171.62	
26 24 19 00-0733	EA	Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	3,291.41	322.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	193.52	
26 24 19 00-0734	EA	Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	5,393.42	440.77
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	264.47	
26 24 19 00-0735	EA	Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	9,114.71	596.86
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	358.14	
26 24 19 00-0736	EA	Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	16,412.85	770.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	462.53	
26 24 19 00-0737 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker (26 24 19 00-0712)				
26 24 19 00-0738	EA	Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,886.19	331.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	198.74	
26 24 19 00-0739	EA	Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	4,090.97	366.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	219.93	
26 24 19 00-0740	EA	Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	7,689.35	492.62
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	295.55	
26 24 19 00-0741	EA	Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	10,468.00	651.19
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	390.70	
26 24 19 00-0742	EA	Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	20,908.38	814.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	488.84	
26 24 19 00-0743	EA	Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,919.61	286.06
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	171.62	
26 24 19 00-0744	EA	Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	4,151.52	322.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	193.52	
26 24 19 00-0745	EA	Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	7,775.63	440.77
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	264.47	
26 24 19 00-0746	EA	Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	10,483.28	596.86
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	358.14	
26 24 19 00-0747	EA	Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	20,944.50	770.83
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	462.53	
26 24 19 00-0748 Motor Control Center Starters With Fusible Disconnect (26 24 19 00-0483)				
Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.				
26 24 19 00-0749 FVNR Starters With Fusible Disconnect (26 24 19 00-0748)				
26 24 19 00-0750	EA	Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,343.33	258.13
26 24 19 00-0751	EA	Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,753.28	350.83
26 24 19 00-0752	EA	Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,903.70	457.14
26 24 19 00-0753	EA	Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	4,876.70	643.89
26 24 19 00-0754	EA	Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	9,724.86	818.55
26 24 19 00-0755	EA	Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	24,457.26	818.55
26 24 19 00-0756	EA	Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,365.24	228.85
26 24 19 00-0757	EA	Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,787.45	314.25
26 24 19 00-0758	EA	Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,980.56	421.38
26 24 19 00-0759	EA	Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	4,890.76	609.66
26 24 19 00-0760	EA	Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	9,718.90	774.41
26 24 19 00-0761	EA	Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	24,599.88	774.41
26 24 19 00-0762 Two Speed 2-Winding (TS2W) With Fusible Disconnect (26 24 19 00-0748)				
26 24 19 00-0763	EA	Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,295.49	323.19
26 24 19 00-0764	EA	Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,196.56	438.57
26 24 19 00-0765	EA	Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,932.66	571.14
26 24 19 00-0766	EA	Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	10,279.60	807.14
26 24 19 00-0767	EA	Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	16,667.73	944.53
26 24 19 00-0768	EA	Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,344.01	286.06
26 24 19 00-0769	EA	Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,253.03	392.50
26 24 19 00-0770	EA	Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	5,034.91	527.28
26 24 19 00-0771	EA	Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	10,310.57	760.66
26 24 19 00-0772	EA	Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	16,683.88	890.76
26 24 19 00-0773 Two Speed 1-Winding (TS1W) With Fusible Disconnect (26 24 19 00-0748)				
26 24 19 00-0774	EA	Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,668.59	323.19
26 24 19 00-0775	EA	Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	4,069.87	438.57
26 24 19 00-0776	EA	Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	7,339.63	571.14



Electrical			26
Low-Voltage Electrical Distribution			26 20
Switchboards and Panelboards			26 24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0777	EA	Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,781.47	807.14
26 24 19 00-0778	EA	Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	20,278.19	944.53
26 24 19 00-0779	EA	Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,718.21	286.06
26 24 19 00-0780	EA	Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	4,126.34	392.50
26 24 19 00-0781	EA	Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	7,441.88	527.28
26 24 19 00-0782	EA	Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,812.43	760.66
26 24 19 00-0783	EA	Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	20,294.34	890.76
26 24 19 00-0784		Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit (26 24 19 00-0483) Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0785	EA	600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	285.36	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.33	
26 24 19 00-0786	EA	800 Amperes, Horizontal Tin Plated Copper Bus Kit.....	349.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.33	
26 24 19 00-0787	EA	1,200 Amperes, Horizontal Tin Plated Copper Bus Kit.....	419.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.40	
26 24 19 00-0788	EA	1,600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	545.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.40	
26 24 19 00-0789	EA	2,000 Amperes, Horizontal Tin Plated Copper Bus Kit.....	913.26	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.46	
26 24 19 00-0790	EA	1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....	164.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.26	
26 24 19 00-0791		Disconnect (Safety) Switch For Motor Control Centers (26 24 19 00-0483)		
26 24 19 00-0792		3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0791) Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0793	EA	150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,368.11	198.73
26 24 19 00-0794	EA	150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,486.93	220.04
26 24 19 00-0795	EA	225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	3,013.71	296.37
26 24 19 00-0796	EA	400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	5,074.18	390.57
26 24 19 00-0797	EA	600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	8,902.26	488.22
26 24 19 00-0798	EA	800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	10,205.17	488.22
26 24 19 00-0799	EA	1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	21,310.88	611.30
26 24 19 00-0800		Fusible Disconnect (Safety) Switch For Motor Control Center (26 24 19 00-0791) Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0801	EA	30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	931.23	193.23
26 24 19 00-0802	EA	60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	1,104.57	263.36
26 24 19 00-0803	EA	100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,509.22	336.94
26 24 19 00-0804	EA	200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,786.41	482.72
26 24 19 00-0805	EA	400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	4,904.41	613.92
26 24 19 00-0806	EA	600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	11,111.70	613.92
26 24 19 00-0807	EA	800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	13,738.16	767.40
26 24 19 00-0808	EA	1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	20,236.00	767.40
26 24 19 00-0809		Control Circuit Transformer (26 24 19 00-0483)		
26 24 19 00-0810	EA	Control Circuit Transformer, Size 1 Factory Installed.....	78.63	
26 24 19 00-0811	EA	Control Circuit Transformer, Size 2 Factory Installed.....	78.63	
26 24 19 00-0812	EA	Control Circuit Transformer, Size 3 Factory Installed.....	151.44	
26 24 19 00-0813	EA	Control Circuit Transformer, Size 4 Factory Installed.....	151.44	
26 24 19 00-0814	EA	Control Circuit Transformer, Size 5 Factory Installed.....	210.39	
26 24 19 00-0815	EA	Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....	61.40	15.56
26 24 19 00-0816		Cover Mounted Control Devices (26 24 19 00-0483)		
26 24 19 00-0817	EA	Control Device, 2 Unit Push Button Station Cover Mounted.....	135.93	27.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.19	
26 24 19 00-0818	EA	Control Device, 2-3 Unit Selector Switch Cover Mounted.....	153.17	27.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.49	
26 24 19 00-0819	EA	Control Device, Pilot Light Cover Mounted.....	127.38	27.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.88	
26 24 19 00-0820	EA	Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light.....	350.97	93.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.36	
26 24 19 00-0821	EA	Auxiliary Contact Add Per Starter.....	409.75	35.62
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.38	
26 24 19 00-0822		Extra Interlocks (26 24 19 00-0483) Note: Per contact.		
26 24 19 00-0823	EA	Extra Interlocks, Class I, Type A Per Contact.....	88.95	17.87
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.88	
26 24 19 00-0824	EA	Extra Interlocks, Class I, Type B Per Contact.....	121.82	17.87
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.88	
26 24 19 00-0825	EA	Extra Interlocks, Class I, Type C Per Contact.....	134.42	17.87
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.74	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0826 EA Extra Interlocks, Class II, Type B Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.69 8.60	17.87
26 24 19 00-0827 EA Extra Interlocks, Class II, Type C Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.81 6.49	17.87
26 24 19 00-0828 Special Cabinet Provisions (26 24 19 00-0483)		
26 24 19 00-0829 EA Provisions For Bus Duct Entrance Special Cabinet Provisions.....	984.36	
26 24 19 00-0830 Nameplate Requirements (26 24 19 00-0483)		
26 24 19 00-0831 EA Special Cabinet Nameplate Requirements.....	34.95	
26 24 19 00-0832 Auxiliary Relays (26 24 19 00-0483)		
26 24 19 00-0833 EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	198.30 20.66	34.43
26 24 19 00-0834 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.78 20.66	30.98
26 24 19 00-0835 EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.31 20.66	30.98
26 24 19 00-0836 Motor Control Center Accessories (26 24 19 00-0483)		
26 24 19 00-0837 Lighting Transformer With Circuit Breaker (26 24 19 00-0836) Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0838 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,776.63	440.17
26 24 19 00-0839 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	6,006.01	457.78
26 24 19 00-0840 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	6,569.91	493.00
26 24 19 00-0841 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	8,242.76	528.21
26 24 19 00-0842 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,056.96	563.42
26 24 19 00-0843 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,572.14	633.85
26 24 19 00-0844 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	17,810.44	704.27
26 24 19 00-0845 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,432.85	581.03
26 24 19 00-0846 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,335.22	633.85
26 24 19 00-0847 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,960.66	704.27
26 24 19 00-0848 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,754.75	774.71
26 24 19 00-0849 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	16,579.37	845.13
26 24 19 00-0850 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	17,114.59	915.56
26 24 19 00-0851 Bolt-On Lighting Panel (26 24 19 00-0836) Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0852 EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,499.22	715.68
26 24 19 00-0853 EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,911.16	1,245.72
26 24 19 00-0854 EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	5,201.05	1,685.38
26 24 19 00-0855 EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,616.56	774.41
26 24 19 00-0856 EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	3,858.15	1,219.18
26 24 19 00-0857 EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	5,411.72	1,790.73
26 24 19 00-0858 EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	4,176.04	830.11
26 24 19 00-0859 EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	5,585.62	1,332.64
26 24 19 00-0860 EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	6,993.25	1,790.73
26 24 19 00-0861 EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	4,306.61	895.29
26 24 19 00-0862 EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	5,585.62	1,332.64
26 24 19 00-0863 EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	7,108.78	1,848.49
26 24 19 00-0864 Factory Installed Bolt-On Branch Circuit Breaker (26 24 19 00-0836) Note: For MCC lighting panel only.		
26 24 19 00-0865 EA 15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker.....	38.93	
26 24 19 00-0866 EA 15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker.....	303.36	
26 24 19 00-0867 EA 15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	76.09	
26 24 19 00-0868 EA 60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	175.19	
26 24 19 00-0869 EA 15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	205.27	
26 24 19 00-0870 EA 60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	311.44	
26 24 19 00-0871 Blank Unit Door (BUD) (26 24 19 00-0836) Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
26 24 19 00-0872 EA 6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	80.90	
26 24 19 00-0873 EA 12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	97.08	
26 24 19 00-0874 EA 18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	145.61	
26 24 19 00-0875 EA 24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	194.15	
26 24 19 00-0876 EA 30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	291.23	
26 24 19 00-0877 EA 48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	339.77	
26 24 19 00-0878 EA 72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	388.31	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Enclosed Bus Assemblies	26 25	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 25 Enclosed Bus Assemblies (26 20)

26 25 13 Low-Voltage Busways (26 25)

26 25 13 00-0001 Plug-In Bus Duct (26 25 13)

Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.

26 25 13 00-0002 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0001)

26 25 13 00-0003	LF	225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	296.54	41.26
		For Up To 25, Add	74.14	
		For >25 To 50, Add	44.48	
		For >50 To 100, Add	22.24	
26 25 13 00-0004	LF	400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	415.37	41.26
		For Up To 25, Add	103.84	
		For >25 To 50, Add	62.31	
		For >50 To 100, Add	31.15	
26 25 13 00-0005	LF	600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	524.43	55.01
		For Up To 25, Add	131.11	
		For >25 To 50, Add	78.66	
		For >50 To 100, Add	39.33	
26 25 13 00-0006	LF	800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	718.34	55.01
		For Up To 25, Add	179.59	
		For >25 To 50, Add	107.75	
		For >50 To 100, Add	53.88	
26 25 13 00-0007	LF	1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	758.17	68.76
		For Up To 25, Add	189.54	
		For >25 To 50, Add	113.73	
		For >50 To 100, Add	56.86	
26 25 13 00-0008	LF	1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,049.21	68.76
		For Up To 25, Add	262.30	
		For >25 To 50, Add	157.38	
		For >50 To 100, Add	78.69	
26 25 13 00-0009	LF	1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,224.43	72.20
		For Up To 25, Add	306.11	
		For >25 To 50, Add	183.66	
		For >50 To 100, Add	91.83	
26 25 13 00-0010	LF	2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,485.52	74.26
		For Up To 25, Add	371.38	
		For >25 To 50, Add	222.83	
		For >50 To 100, Add	111.41	
26 25 13 00-0011	LF	2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,828.19	78.39
		For Up To 25, Add	457.05	
		For >25 To 50, Add	274.23	
		For >50 To 100, Add	137.11	
26 25 13 00-0012	LF	3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	2,111.30	91.46
		For Up To 25, Add	527.83	
		For >25 To 50, Add	316.70	
		For >50 To 100, Add	158.35	
26 25 13 00-0013	LF	4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	2,440.94	99.70
		For Up To 25, Add	610.24	
		For >25 To 50, Add	366.14	
		For >50 To 100, Add	183.07	

26 25 13 00-0014 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0001)

26 25 13 00-0015	LF	225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	474.43	41.26
		For Up To 25, Add	118.61	
		For >25 To 50, Add	71.16	
		For >50 To 100, Add	35.58	
26 25 13 00-0016	LF	400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	680.44	41.26
		For Up To 25, Add	170.11	
		For >25 To 50, Add	102.07	
		For >50 To 100, Add	51.03	
26 25 13 00-0017	LF	600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	769.36	55.01
		For Up To 25, Add	192.34	
		For >25 To 50, Add	115.40	
		For >50 To 100, Add	57.70	
26 25 13 00-0018	LF	800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	975.04	55.01
		For Up To 25, Add	243.76	
		For >25 To 50, Add	146.26	
		For >50 To 100, Add	73.13	
26 25 13 00-0019	LF	1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,186.86	68.76
		For Up To 25, Add	296.72	
		For >25 To 50, Add	178.03	
		For >50 To 100, Add	89.01	
26 25 13 00-0020	LF	1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,532.32	68.76
		For Up To 25, Add	383.08	
		For >25 To 50, Add	229.85	
		For >50 To 100, Add	114.92	
26 25 13 00-0021	LF	1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,977.18	71.24
		For Up To 25, Add	494.30	
		For >25 To 50, Add	296.58	
		For >50 To 100, Add	148.29	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0022 LF 2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,376.81	74.26
For Up To 25, Add	594.20	
For >25 To 50, Add	356.52	
For >50 To 100, Add	178.26	
26 25 13 00-0023 LF 2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,942.40	77.70
For Up To 25, Add	735.60	
For >25 To 50, Add	441.36	
For >50 To 100, Add	220.68	
26 25 13 00-0024 LF 3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	3,396.96	91.46
For Up To 25, Add	849.24	
For >25 To 50, Add	509.54	
For >50 To 100, Add	254.77	
26 25 13 00-0025 LF 4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	3,935.28	99.70
For Up To 25, Add	983.82	
For >25 To 50, Add	590.29	
For >50 To 100, Add	295.15	
26 25 13 00-0026 Cable Tap Boxes (26 25 13 00-0001)		
26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,379.86	192.54
26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,468.49	192.54
26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,674.11	261.30
26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,851.85	261.30
26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	3,062.90	343.82
26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	3,357.38	343.82
26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,468.49	378.20
26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,689.88	378.20
26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,882.01	515.72
26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,239.70	515.72
26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,415.45	687.63
26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,882.59	687.63
26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker (26 25 13 00-0001)		
26 25 13 00-0042 240 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0043 EA 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker.....	1,086.35	137.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.23	
26 25 13 00-0044 EA 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker.....	2,133.30	137.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.58	
26 25 13 00-0045 600 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0046 EA 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker.....	2,062.15	137.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.23	
26 25 13 00-0047 EA 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker.....	2,670.51	137.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.58	
26 25 13 00-0048 120/208 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0049 EA 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker.....	1,250.64	165.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.96	
26 25 13 00-0050 EA 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker.....	1,496.56	165.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.44	
26 25 13 00-0051 277/480 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0052 EA 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	1,424.94	165.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.96	
26 25 13 00-0053 EA 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	2,179.09	165.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.44	
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	3,230.93	570.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	247.35	
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	7,683.38	570.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	537.21	
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	8,661.76	1,650.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	747.43	
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker.....	11,041.01	1,650.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,322.37	
26 25 13 00-0058 Bus Duct Plug-In Fusible Switch (26 25 13 00-0001)		
26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,083.95	137.53
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,194.11	137.53
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,644.99	165.03



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Enclosed Bus Assemblies	26 25

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0063	EA	200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,780.34	330.06
26 25 13 00-0064	EA	400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	6,992.28	742.65
26 25 13 00-0065	EA	600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	10,512.63	1,292.75
26 25 13 00-0066 600 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)				
26 25 13 00-0067	EA	30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,122.51	151.27
26 25 13 00-0068	EA	60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,230.08	151.27
26 25 13 00-0069	EA	100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,655.14	151.27
26 25 13 00-0070	EA	200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,842.73	316.31
26 25 13 00-0071	EA	400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	6,955.55	715.13
26 25 13 00-0072	EA	600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	10,773.10	1,375.27
26 25 13 00-0073	EA	800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	17,548.89	1,787.84
26 25 13 00-0074 120/208 Volt, 4-pole, 3 Fuse (26 25 13 00-0058)				
26 25 13 00-0075	EA	30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,252.98	178.79
26 25 13 00-0076	EA	60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,350.63	178.79
26 25 13 00-0077	EA	100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,825.50	178.79
26 25 13 00-0078	EA	200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	3,093.16	371.32
26 25 13 00-0079	EA	400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	7,683.63	825.16
26 25 13 00-0080	EA	600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	11,196.30	1,265.24
26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse (26 25 13 00-0058)				
26 25 13 00-0082	EA	30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,293.07	178.79
26 25 13 00-0083	EA	60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,390.71	151.70
26 25 13 00-0084	EA	100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,944.38	206.29
26 25 13 00-0085	EA	200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	3,220.61	371.32
26 25 13 00-0086	EA	400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	7,683.63	825.16
26 25 13 00-0087	EA	600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	11,196.30	1,265.24
26 25 13 00-0088	EA	800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	17,634.86	1,677.82
26 25 13 00-0089 Non-Segregated Bus Duct (26 25 13) Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.				
26 25 13 00-0090 600 Volt, 3 Phase, 3 Wire, Totally Enclosed Non-Ventilated, Copper Conductors (26 25 13 00-0089) Note: Hazardous or seismic locations.				
26 25 13 00-0091	LF	1,200 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Non-Segregated Bus Duct	1,563.12	57.76
		For Up To 25, Add	390.78	
		For >25 To 50, Add	234.47	
		For >50 To 100, Add	117.23	
26 25 13 00-0092	LF	1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Non-Segregated Bus Duct	1,734.71	61.89
		For Up To 25, Add	433.68	
		For >25 To 50, Add	260.21	
		For >50 To 100, Add	130.10	
26 25 13 00-0093	LF	2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Non-Segregated Bus Duct	2,305.00	71.51
		For Up To 25, Add	576.25	
		For >25 To 50, Add	345.75	
		For >50 To 100, Add	172.88	
26 25 13 00-0094	LF	2,500 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Non-Segregated Bus Duct	2,564.75	85.27
		For Up To 25, Add	641.19	
		For >25 To 50, Add	384.71	
		For >50 To 100, Add	192.36	
26 25 13 00-0095	LF	3,200 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Non-Segregated Bus Duct	3,546.73	99.02
		For Up To 25, Add	886.68	
		For >25 To 50, Add	532.01	
		For >50 To 100, Add	266.00	
26 25 13 00-0096	LF	4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Non-Segregated Bus Duct	5,092.15	123.77
		For Up To 25, Add	1,273.04	
		For >25 To 50, Add	763.82	
		For >50 To 100, Add	381.91	
26 25 13 00-0097	LF	5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Non-Segregated Bus Duct	5,544.22	147.16
		For Up To 25, Add	1,386.06	
		For >25 To 50, Add	831.63	
		For >50 To 100, Add	415.82	
26 25 13 00-0098	LF	6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Non-Segregated Bus Duct	6,293.39	170.53
		For Up To 25, Add	1,573.35	
		For >25 To 50, Add	944.01	
		For >50 To 100, Add	472.00	
26 25 13 00-0099 600 Volt, 3 Phase, 4 Wire, Totally Enclosed Non-Ventilated, Copper Conductors (26 25 13 00-0089) Note: Hazardous or seismic locations.				
26 25 13 00-0100	LF	1,200 Amperes, 600 Volt, 3 Phase, 4 Wire Copper Conductors, Non-Segregated Bus Duct	1,997.27	57.76
		For Up To 25, Add	499.32	
		For >25 To 50, Add	299.59	
		For >50 To 100, Add	149.80	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0101	LF		1,600 Amperes, 600 Volt, 3 Phase, 4 Wire Copper Conductors, Non-Segregated Bus Duct	2,217.55	61.89
			For Up To 25, Add	554.39	
			For >25 To 50, Add	332.63	
			For >50 To 100, Add	166.32	
26 25 13 00-0102	LF		2,000 Amperes, 600 Volt, 3 Phase, 4 Wire Copper Conductors, Non-Segregated Bus Duct	2,953.38	71.51
			For Up To 25, Add	738.35	
			For >25 To 50, Add	443.01	
			For >50 To 100, Add	221.50	
26 25 13 00-0103	LF		2,500 Amperes, 600 Volt, 3 Phase, 4 Wire Copper Conductors, Non-Segregated Bus Duct	3,282.92	85.27
			For Up To 25, Add	820.73	
			For >25 To 50, Add	492.44	
			For >50 To 100, Add	246.22	
26 25 13 00-0104	LF		3,200 Amperes, 600 Volt, 3 Phase, 4 Wire Copper Conductors, Non-Segregated Bus Duct	4,550.55	99.02
			For Up To 25, Add	1,137.64	
			For >25 To 50, Add	682.58	
			For >50 To 100, Add	341.29	
26 25 13 00-0105	LF		4,000 Amperes, 600 Volt, 3 Phase, 4 Wire Copper Conductors, Non-Segregated Bus Duct	6,544.72	123.77
			For Up To 25, Add	1,636.18	
			For >25 To 50, Add	981.71	
			For >50 To 100, Add	490.85	
26 25 13 00-0106	LF		5,000 Amperes, 600 Volt, 3 Phase, 4 Wire Copper Conductors, Non-Segregated Bus Duct	7,119.33	147.16
			For Up To 25, Add	1,779.83	
			For >25 To 50, Add	1,067.90	
			For >50 To 100, Add	533.95	
26 25 13 00-0107	LF		6,000 Amperes, 600 Volt, 3 Phase, 4 Wire Copper Conductors, Non-Segregated Bus Duct	8,078.67	170.53
			For Up To 25, Add	2,019.67	
			For >25 To 50, Add	1,211.80	
			For >50 To 100, Add	605.90	

26 25 16 Low-Voltage Cablebus Systems (26 25)

26 25 16 00-0001 Feeder Bus Duct (26 25 16)
 Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.

26 25 16 00-0002 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance (26 25 16 00-0001)
 Note: Copper conductors.

26 25 16 00-0003	LF		800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	854.81	57.76
			For Up To 25, Add	213.70	
			For >25 To 50, Add	128.22	
			For >50 To 100, Add	64.11	
26 25 16 00-0004	LF		1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	867.41	57.76
			For Up To 25, Add	216.85	
			For >25 To 50, Add	130.11	
			For >50 To 100, Add	65.06	
26 25 16 00-0005	LF		1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,132.00	57.76
			For Up To 25, Add	283.00	
			For >25 To 50, Add	169.80	
			For >50 To 100, Add	84.90	
26 25 16 00-0006	LF		1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,357.50	57.76
			For Up To 25, Add	339.38	
			For >25 To 50, Add	203.63	
			For >50 To 100, Add	101.81	
26 25 16 00-0007	LF		2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	1,657.90	57.76
			For Up To 25, Add	414.48	
			For >25 To 50, Add	248.69	
			For >50 To 100, Add	124.34	
26 25 16 00-0008	LF		3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	2,263.11	137.53
			For Up To 25, Add	565.78	
			For >25 To 50, Add	339.47	
			For >50 To 100, Add	169.73	
26 25 16 00-0009	LF		4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	3,124.04	137.53
			For Up To 25, Add	781.01	
			For >25 To 50, Add	468.61	
			For >50 To 100, Add	234.30	
26 25 16 00-0010	LF		5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	3,696.25	137.53
			For Up To 25, Add	924.06	
			For >25 To 50, Add	554.44	
			For >50 To 100, Add	277.22	
26 25 16 00-0011	LF		6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	4,549.82	137.53
			For Up To 25, Add	1,137.46	
			For >25 To 50, Add	682.47	
			For >50 To 100, Add	341.24	

26 25 16 00-0012 277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated (26 25 16 00-0001)
 Note: Low impedance, copper conductors.

26 25 16 00-0013	LF		800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	978.09	61.89
			For Up To 25, Add	244.52	
			For >25 To 50, Add	146.71	
			For >50 To 100, Add	73.36	
26 25 16 00-0014	LF		1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	994.91	61.89
			For Up To 25, Add	248.73	
			For >25 To 50, Add	149.24	
			For >50 To 100, Add	74.62	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Enclosed Bus Assemblies		26 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0015 LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	1,277.46 319.37 191.62 95.81	61.89
26 25 16 00-0016 LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	1,514.16 378.54 227.12 113.56	61.89
26 25 16 00-0017 LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	1,828.09 457.02 274.21 137.11	61.89
26 25 16 00-0018 LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	2,805.62 701.41 420.84 210.42	105.90
26 25 16 00-0019 LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	3,518.31 879.58 527.75 263.87	105.90
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	4,163.58 1,040.90 624.54 312.27	196.66
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	5,130.85 1,282.71 769.63 384.81	196.66

26 27 Low-Voltage Distribution Equipment ^(26 20)

26 27 13 Electricity Metering ^(26 27)

26 27 13 00-0001 Revenue Metering ^(26 27 13)

26 27 13 00-0002 Meter Socket Base ^(26 27 13 00-0001)

Note: NEMA 3R. See CSI section 26 27 13 00-0013 for meter.

26 27 13 00-0003 EA 100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	325.10	89.39
26 27 13 00-0004 EA 100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	345.35	89.39
26 27 13 00-0005 EA 150 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	383.87	99.70
26 27 13 00-0006 EA 150 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	396.87	99.70
26 27 13 00-0007 EA 200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	442.63	110.02
26 27 13 00-0008 EA 200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	448.38	110.02
26 27 13 00-0009 EA 200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	1,155.94	174.66
26 27 13 00-0010 EA 320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	1,482.88	195.29
26 27 13 00-0011 EA 400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	3,270.95	215.92
26 27 13 00-0012 EA Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base	3,287.01	687.63

26 27 13 00-0013 Meter Device ^(26 27 13 00-0001)

Note: Direct read, with 15 minute demand. See CSI section 26 27 13 00-0002 for socket base.

26 27 13 00-0014 EA 100 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	328.78	27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.92	
26 27 13 00-0015 EA 150 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	389.39	28.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.12	
26 27 13 00-0016 EA 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	477.24	28.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.33	
26 27 13 00-0017 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	934.49	29.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 27 13 00-0018 EA 320 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	1,310.22	30.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59	
26 27 13 00-0019 EA 400 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	2,127.37	34.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.66	

26 27 13 00-0020 Current Transformer Enclosure ^(26 27 13 00-0001)

26 27 13 00-0021 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure	668.65	178.79

26 27 13 00-0022 120/240 Volt Meter Center And Main Breaker, Indoor Housing ^(26 27 13 00-0001)

26 27 13 00-0023 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole ^(26 27 13 00-0022)

26 27 13 00-0024 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,285.04	85.96
26 27 13 00-0025 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,692.65	103.14
26 27 13 00-0026 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,098.09	120.33
26 27 13 00-0027 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,431.50	137.53
26 27 13 00-0028 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	3,168.68	154.72
26 27 13 00-0029 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	3,421.33	171.90
26 27 13 00-0030 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	3,992.11	206.29

26 27 13 00-0031 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole ^(26 27 13 00-0022)

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	2,376.37	85.96
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,131.03	103.14
26 27 13 00-0034 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,312.95	137.53
26 27 13 00-0035 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,783.83	154.72
26 27 13 00-0036 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	6,018.67	171.90
26 27 13 00-0037 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0022)		
26 27 13 00-0038 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,969.32	120.33
26 27 13 00-0039 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,588.65	137.53
26 27 13 00-0040 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,168.68	154.72
26 27 13 00-0041 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,726.90	171.90
26 27 13 00-0042 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,699.81	189.10
26 27 13 00-0043 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,930.64	206.29
26 27 13 00-0044 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,112.54	240.67
26 27 13 00-0045 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0022)		
26 27 13 00-0046 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,056.27	120.33
26 27 13 00-0047 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,007.36	137.53
26 27 13 00-0048 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,647.62	171.90
26 27 13 00-0049 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,053.05	189.10
26 27 13 00-0050 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	7,746.19	206.29
26 27 13 00-0051 120/208 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)		
26 27 13 00-0052 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0051)		
26 27 13 00-0053 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,398.00	103.14
26 27 13 00-0054 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,829.63	120.33
26 27 13 00-0055 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,259.07	137.53
26 27 13 00-0056 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,623.02	154.72
26 27 13 00-0057 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,224.90	171.90
26 27 13 00-0058 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,477.54	189.10
26 27 13 00-0059 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	4,288.42	223.49
26 27 13 00-0060 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0051)		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,498.07	103.14
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,296.37	120.33
26 27 13 00-0063 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,762.00	154.72
26 27 13 00-0064 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,232.92	171.90
26 27 13 00-0065 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	6,336.83	189.10
26 27 13 00-0066 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0051)		
26 27 13 00-0067 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,082.30	137.53
26 27 13 00-0068 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,710.36	154.72
26 27 13 00-0069 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,355.88	171.90
26 27 13 00-0070 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,914.11	189.10
26 27 13 00-0071 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,930.69	206.29
26 27 13 00-0072 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,161.47	223.49
26 27 13 00-0073 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,430.71	257.86
26 27 13 00-0074 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0051)		
26 27 13 00-0075 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,199.81	137.53
26 27 13 00-0076 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,216.37	154.72
26 27 13 00-0077 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,053.09	189.10
26 27 13 00-0078 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,327.53	206.29
26 27 13 00-0079 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	8,042.55	223.49
26 27 13 00-0080 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0081 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,285.04	85.96
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,692.65	103.14
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,431.50	137.53
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,168.68	154.72
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,923.34	171.90



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0087		1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)		
26 27 13 00-0088	EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,376.36	85.96
26 27 13 00-0089	EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,131.01	103.14
26 27 13 00-0090	EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,531.20	137.53
26 27 13 00-0091	EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,002.09	154.72
26 27 13 00-0092	EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	6,018.67	171.90
26 27 13 00-0093		800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)		
26 27 13 00-0094	EA	3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,969.32	120.33
26 27 13 00-0095	EA	4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,588.65	137.53
26 27 13 00-0096	EA	6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,726.90	171.90
26 27 13 00-0097	EA	7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,699.81	189.10
26 27 13 00-0098	EA	8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,930.64	206.29
26 27 13 00-0099		1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)		
26 27 13 00-0100	EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,056.28	120.33
26 27 13 00-0101	EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,007.36	137.53
26 27 13 00-0102	EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,647.62	171.90
26 27 13 00-0103	EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,053.05	189.10
26 27 13 00-0104	EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	7,746.24	206.29
26 27 13 00-0105		120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0106		800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)		
26 27 13 00-0107	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,398.00	103.14
26 27 13 00-0108	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,829.63	120.33
26 27 13 00-0109	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,623.02	154.72
26 27 13 00-0110	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,443.16	171.90
26 27 13 00-0111	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,914.07	189.10
26 27 13 00-0112		1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)		
26 27 13 00-0113	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,498.05	103.14
26 27 13 00-0114	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,296.36	120.33
26 27 13 00-0115	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,543.74	154.72
26 27 13 00-0116	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,014.66	171.90
26 27 13 00-0117	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	6,336.79	189.10
26 27 13 00-0118		800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)		
26 27 13 00-0119	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,082.28	137.53
26 27 13 00-0120	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,710.33	154.72
26 27 13 00-0121	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,914.07	189.10
26 27 13 00-0122	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,930.64	206.29
26 27 13 00-0123	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,161.47	223.49
26 27 13 00-0124		1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)		
26 27 13 00-0125	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,199.79	137.53
26 27 13 00-0126	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,216.34	154.72
26 27 13 00-0127	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,053.05	189.10
26 27 13 00-0128	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,327.53	206.29
26 27 13 00-0129	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	8,042.55	223.49
26 27 13 00-0130		Watt/Hour Meters (26 27 13)		
26 27 13 00-0131	EA	Single Phase M-90 Meter, Socket, NEMA 3R Enclosure.....	1,470.21	82.52
26 27 13 00-0132	EA	Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	4,162.48	165.03
26 27 13 00-0133	EA	Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	2,200.47	123.77
26 27 13 00-0134	EA	Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	2,698.95	123.77
26 27 13 00-0135	EA	Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure.....	2,273.69	123.77
26 27 13 00-0136	EA	C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,543.81	114.14
26 27 13 00-0137	EA	P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	2,637.42	206.29
26 27 13 00-0138		Watt/Hour Meter Systems (26 27 13) Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0139		Watt/Hour Meter System Without Main Breaker (26 27 13 00-0138)		
26 27 13 00-0140	EA	400 Amperes System; 200 Amperes M-90 Meter And Enclosure	6,710.62	825.30
26 27 13 00-0141	EA	600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure	7,887.02	825.30
26 27 13 00-0142		Watt/Hour Meter System With Main Breaker (26 27 13 00-0138)		
26 27 13 00-0143	EA	400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	11,875.58	825.30
26 27 13 00-0144	EA	600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	14,440.77	825.30
26 27 13 00-0145	EA	800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	15,528.66	825.30
26 27 16		Electrical Cabinets and Enclosures (26 27)		
Note: Can be used as enclosure or pull/junction boxes.				
26 27 16 00-0001		NEMA 1 Enclosures, Lockable (26 27 16)		
26 27 16 00-0002		Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)		
26 27 16 00-0003		4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)		
26 27 16 00-0004	EA	6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	85.90	27.50
26 27 16 00-0005	EA	6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	96.25	30.26
26 27 16 00-0006	EA	8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	106.69	33.00
26 27 16 00-0007	EA	8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	124.55	38.51
26 27 16 00-0008	EA	10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	135.55	41.26
26 27 16 00-0009	EA	10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	147.33	44.01
26 27 16 00-0010	EA	12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	146.93	44.01
26 27 16 00-0011	EA	12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	158.98	46.76
26 27 16 00-0012	EA	12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	171.62	49.51
26 27 16 00-0013	EA	16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	222.85	66.01
26 27 16 00-0014	EA	16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	270.28	79.77
26 27 16 00-0015	EA	18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	256.96	77.01
26 27 16 00-0016		6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)		
26 27 16 00-0017	EA	6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	107.46	33.00
26 27 16 00-0018	EA	8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	130.21	38.51
26 27 16 00-0019	EA	10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	155.57	46.76
26 27 16 00-0020	EA	10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	167.91	49.51
26 27 16 00-0021	EA	12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	180.50	52.26
26 27 16 00-0022	EA	12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	193.64	55.01
26 27 16 00-0023	EA	16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	246.16	71.51
26 27 16 00-0024	EA	16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	298.64	88.02
26 27 16 00-0025	EA	18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	288.06	85.27
26 27 16 00-0026	EA	18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	374.98	110.02
26 27 16 00-0027	EA	24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	478.98	126.53
26 27 16 00-0028	EA	24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	546.22	137.53
26 27 16 00-0029	EA	30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	606.93	145.77
26 27 16 00-0030	EA	36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	660.76	151.27
26 27 16 00-0031	EA	24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L)	459.61	110.02
26 27 16 00-0032		Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)		
26 27 16 00-0033		3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0034	EA	4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	60.13	19.26
26 27 16 00-0035	EA	6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	85.94	27.50
26 27 16 00-0036	EA	8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	95.87	30.26
26 27 16 00-0037		4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0038	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	67.22	22.00
26 27 16 00-0039	EA	6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	83.34	27.50
26 27 16 00-0040	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	93.10	30.26
26 27 16 00-0041	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	103.02	33.00
26 27 16 00-0042	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	120.21	38.51
26 27 16 00-0043	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	130.59	41.26
26 27 16 00-0044	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	141.52	44.01
26 27 16 00-0045	EA	12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	141.12	44.01
26 27 16 00-0046	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	152.52	46.76
26 27 16 00-0047	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	164.25	49.51
26 27 16 00-0048	EA	16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	214.84	66.01
26 27 16 00-0049	EA	16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	266.22	82.52
26 27 16 00-0050	EA	18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	247.02	77.01
26 27 16 00-0051	EA	18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	319.97	99.02
26 27 16 00-0052	EA	24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	462.12	123.77
26 27 16 00-0053		6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0054	EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	103.60	33.00
26 27 16 00-0055	EA	8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	114.28	35.76
26 27 16 00-0056	EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	131.72	41.26



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	149.55	46.76
26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	161.11	49.51
26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	172.81	52.26
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	184.97	55.01
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	236.83	71.51
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	290.97	88.02
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	276.54	85.27
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	359.57	110.02
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	449.16	126.53
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	514.84	137.53
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	555.89	145.77
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	608.11	151.27
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	149.55	46.76
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	204.04	60.51
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	259.40	77.01
26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	321.96	96.27
26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	307.70	93.52
26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	381.17	115.53
26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	425.06	132.03
26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	493.13	140.27
26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	567.72	151.27
26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	604.08	159.53
26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	634.67	165.03
26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	651.51	165.03
26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	349.22	104.52
26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	459.62	134.77
26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	465.18	143.03
26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	603.75	154.03
26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	694.89	170.53
26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	771.29	176.03
26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	822.80	184.29
26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0091 EA 18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	507.43	148.53
26 27 16 00-0092 EA 24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	505.32	156.78
26 27 16 00-0093 EA 24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	663.81	170.53
26 27 16 00-0094 EA 24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	758.50	187.03
26 27 16 00-0095 EA 30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	851.26	195.29
26 27 16 00-0096 EA 36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	897.87	203.54
26 27 16 00-0097 NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)		
26 27 16 00-0098 4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16 00-0097)		
26 27 16 00-0099 EA 24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,308.04	121.03
26 27 16 00-0100 NEMA 12 Enclosures, Lockable (26 27 16)		
Note: Dust-tight enclosures.		
26 27 16 00-0101 Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0102 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0103 EA 4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	119.83	22.00
26 27 16 00-0104 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	156.27	30.26
26 27 16 00-0105 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	193.47	38.51
26 27 16 00-0106 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	209.40	41.26
26 27 16 00-0107 EA 12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	234.76	44.01
26 27 16 00-0108 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	252.80	46.76
26 27 16 00-0109 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0110 EA 6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	173.41	33.00
26 27 16 00-0111 EA 8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	190.97	35.76
26 27 16 00-0112 Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0113 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0114 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	241.54	22.00
26 27 16 00-0115 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	289.98	30.26
26 27 16 00-0116 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	327.86	33.00
26 27 16 00-0117 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	375.14	38.51

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0118	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	385.95	41.26	
26 27 16 00-0119	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	455.51	44.01	
26 27 16 00-0120	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	489.06	46.76	
26 27 16 00-0121	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	556.27	49.51	
26 27 16 00-0122		6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)			
26 27 16 00-0123	EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	352.81	33.00	
26 27 16 00-0124	EA	8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	398.74	35.76	
26 27 16 00-0125	EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	434.78	41.26	
26 27 16 00-0126	EA	10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	514.29	49.51	
26 27 16 00-0127	EA	12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	558.59	55.01	
26 27 16 00-0128	EA	16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	775.39	71.51	
26 27 16 00-0129	EA	18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,201.53	110.02	
26 27 16 00-0130	EA	24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,572.71	126.53	
26 27 16 00-0131	EA	24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,772.84	137.53	
26 27 16 00-0132		8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)			
26 27 16 00-0133	EA	24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,640.43	140.27	
26 27 16 00-0134	EA	24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,889.84	151.27	
26 27 16 00-0135	EA	30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,076.93	159.53	
26 27 16 00-0136	EA	30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,289.21	165.03	
26 27 16 00-0137	EA	36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,257.83	165.03	
26 27 16 00-0138		Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)			
26 27 16 00-0139		8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)			
26 27 16 00-0140	EA	60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,193.65	223.49	
26 27 16 00-0141		10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)			
26 27 16 00-0142	EA	60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,264.45	247.55	
26 27 16 00-0143	EA	60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,332.06	264.74	
26 27 16 00-0144	EA	72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	9,586.64	330.06	
26 27 16 00-0145	EA	72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	10,705.68	389.20	
26 27 16 00-0146		12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)			
26 27 16 00-0147	EA	60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,755.05	389.20	
26 27 16 00-0148	EA	60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,643.94	412.58	
26 27 16 00-0149	EA	72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	9,816.38	440.09	
26 27 16 00-0150	EA	72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	10,830.12	440.09	
26 27 16 00-0151		NEMA 3 Enclosures, Lockable (26 27 16)			
Note: Can be used underground or encased in concrete.					
26 27 16 00-0152		2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)			
26 27 16 00-0153	EA	4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	385.73	96.27	
26 27 16 00-0154		3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)			
26 27 16 00-0155	EA	4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	416.30	96.27	
26 27 16 00-0156	EA	5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	538.90	99.70	
26 27 16 00-0157	EA	6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	559.70	99.70	
26 27 16 00-0158	EA	6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	709.78	103.14	
26 27 16 00-0159		4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)			
26 27 16 00-0160	EA	4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	533.28	99.70	
26 27 16 00-0161	EA	5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	587.67	99.70	
26 27 16 00-0162	EA	6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	612.84	103.14	
26 27 16 00-0163	EA	6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	779.92	103.14	
26 27 16 00-0164	EA	8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	858.35	110.02	
26 27 16 00-0165	EA	8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	924.41	116.90	
26 27 16 00-0166	EA	10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	964.15	116.90	
26 27 16 00-0167	EA	10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,152.16	120.33	
26 27 16 00-0168	EA	12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,251.99	123.77	
26 27 16 00-0169	EA	12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,723.78	137.53	
26 27 16 00-0170		6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)			
26 27 16 00-0171	EA	6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	824.43	106.59	
26 27 16 00-0172	EA	8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,043.19	120.33	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0173	EA	8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,227.55	123.77
26 27 16 00-0174	EA	10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,419.42	127.21
26 27 16 00-0175	EA	10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,513.15	127.21
26 27 16 00-0176	EA	12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,723.27	137.53
26 27 16 00-0177	EA	12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,994.67	154.72
26 27 16 00-0178	EA	16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,878.94	147.84
26 27 16 00-0179	EA	18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,656.88	275.06
26 27 16 00-0180	EA	18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	6,376.73	343.82
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)				
26 27 16 00-0182	EA	8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,526.72	130.65
26 27 16 00-0183	EA	12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,303.53	171.90
26 27 16 00-0184	EA	12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,341.81	171.90
26 27 16 00-0185	EA	16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,164.86	257.86
26 27 16 00-0186	EA	18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,188.61	275.06
26 27 16 00-0187	EA	24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	10,696.69	481.34
26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)				
26 27 16 00-0189	EA	18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	5,592.20	343.82
26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)				
26 27 16 00-0191	EA	18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	8,637.10	412.58
26 27 16 00-0192	EA	24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	7,090.92	378.20
26 27 16 00-0193 NEMA 3R Enclosures, Lockable (26 27 16)				
Note: Rain-tight enclosures.				
26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)				
26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)				
26 27 16 00-0196	EA	6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	116.07	27.50
26 27 16 00-0197	EA	6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	128.16	30.26
26 27 16 00-0198	EA	8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	190.57	33.00
26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)				
26 27 16 00-0200	EA	8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	239.90	41.26
26 27 16 00-0201	EA	10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	268.03	46.76
26 27 16 00-0202	EA	12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	314.69	52.26
26 27 16 00-0203	EA	12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	340.31	55.01
26 27 16 00-0204	EA	16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	443.08	71.51
26 27 16 00-0205	EA	16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	529.65	88.02
26 27 16 00-0206	EA	18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	604.28	110.02
26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)				
26 27 16 00-0208	EA	24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	919.76	140.27
26 27 16 00-0209	EA	24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,020.39	151.27
26 27 16 00-0210	EA	30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,149.45	159.53
26 27 16 00-0211	EA	30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,209.19	165.03
26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)				
26 27 16 00-0213	EA	12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,140.73	170.53
26 27 16 00-0214	EA	12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,288.61	192.54
26 27 16 00-0215	EA	12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,426.60	213.17
26 27 16 00-0216	EA	12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,571.73	235.17
26 27 16 00-0217	EA	12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,711.09	255.80
26 27 16 00-0218	EA	18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	740.86	134.77
26 27 16 00-0219	EA	24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,140.73	170.53
26 27 16 00-0220	EA	30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,352.61	176.03
26 27 16 00-0221	EA	36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,714.52	192.54
26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)				
26 27 16 00-0223	EA	12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,108.69	136.16
26 27 16 00-0224	EA	12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,243.14	152.66
26 27 16 00-0225	EA	12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,376.23	169.16
26 27 16 00-0226	EA	12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,522.15	187.03
26 27 16 00-0227	EA	12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,656.60	203.54
26 27 16 00-0228	EA	18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	828.31	101.77
26 27 16 00-0229	EA	18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,108.69	136.16
26 27 16 00-0230	EA	18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,243.14	152.66
26 27 16 00-0231	EA	18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,463.56	178.79
26 27 16 00-0232	EA	18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,656.60	203.54

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0233	EA	30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,573.95	200.79	
26 27 16 00-0234	EA	36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,656.60	203.54	
26 27 16 00-0235	EA	36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,745.43	209.04	
26 27 16 00-0236	EA	36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,945.22	220.04	
26 27 16 00-0237	EA	42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	2,110.34	231.04	
26 27 16 00-0238 Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)					
26 27 16 00-0239 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)					
26 27 16 00-0240	EA	4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	84.24	22.00	
26 27 16 00-0241	EA	6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	101.67	27.50	
26 27 16 00-0242	EA	6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	112.28	30.26	
26 27 16 00-0243	EA	8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	124.60	33.00	
26 27 16 00-0244	EA	8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	144.65	38.51	
26 27 16 00-0245	EA	10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	157.80	41.26	
26 27 16 00-0246	EA	10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	172.14	44.01	
26 27 16 00-0247	EA	12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	171.34	44.01	
26 27 16 00-0248	EA	12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	187.53	46.76	
26 27 16 00-0249	EA	12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	201.86	49.51	
26 27 16 00-0250	EA	18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	304.56	77.01	
26 27 16 00-0251	EA	18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	406.96	99.02	
26 27 16 00-0252 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)					
26 27 16 00-0253	EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	116.62	33.00	
26 27 16 00-0254	EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	159.95	41.26	
26 27 16 00-0255	EA	10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	181.20	46.76	
26 27 16 00-0256	EA	10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	196.64	49.51	
26 27 16 00-0257	EA	12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	195.45	49.51	
26 27 16 00-0258	EA	12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	211.86	52.26	
26 27 16 00-0259	EA	12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	228.41	55.01	
26 27 16 00-0260	EA	16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	298.16	71.51	
26 27 16 00-0261	EA	18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	342.63	85.27	
26 27 16 00-0262	EA	18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	457.98	110.02	
26 27 16 00-0263	EA	24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	477.37	118.27	
26 27 16 00-0264	EA	24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	547.48	126.53	
26 27 16 00-0265	EA	24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	617.76	137.53	
26 27 16 00-0266 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)					
26 27 16 00-0267	EA	12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	255.88	60.51	
26 27 16 00-0268	EA	18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	369.34	93.52	
26 27 16 00-0269	EA	18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	506.87	121.03	
26 27 16 00-0270	EA	24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	605.73	140.27	
26 27 16 00-0271	EA	24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	686.96	151.27	
26 27 16 00-0272	EA	30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	765.04	159.53	
26 27 16 00-0273 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)					
26 27 16 00-0274	EA	18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	558.91	134.77	
26 27 16 00-0275	EA	24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	754.49	170.53	
26 27 16 00-0276	EA	30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	830.17	176.03	
26 27 16 00-0277 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)					
26 27 16 00-0278	EA	24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	833.80	187.03	
26 27 16 00-0279	EA	30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,173.73	203.54	
26 27 16 00-0280	EA	36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,213.34	209.04	
26 27 16 00-0281	EA	36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,424.38	220.04	
26 27 16 00-0282 NEMA 4 Enclosures, Lockable (26 27 16)					
Note: Water-tight enclosures.					
26 27 16 00-0283 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)					
26 27 16 00-0284	EA	4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	124.00	19.26	
26 27 16 00-0285	EA	6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	144.94	23.38	
26 27 16 00-0286	EA	8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	181.34	30.26	
26 27 16 00-0287	EA	6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	172.72	30.26	
26 27 16 00-0288	EA	10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	230.94	41.26	
26 27 16 00-0289	EA	12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	287.48	49.51	
26 27 16 00-0290	EA	10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	265.70	46.76	
26 27 16 00-0291	EA	12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	309.82	55.01	
26 27 16 00-0292	EA	14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	364.38	63.26	
26 27 16 00-0293	EA	16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	442.05	79.77	
26 27 16 00-0294 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)					
26 27 16 00-0295	EA	4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	113.98	19.26	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0296 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	162.73	30.26
26 27 16 00-0297 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)		
26 27 16 00-0298 EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	143.40	26.40
26 27 16 00-0299 EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	152.41	28.61
26 27 16 00-0300 EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	187.37	37.40
26 27 16 00-0301 EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	218.84	41.26
26 27 16 00-0302 EA 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	282.79	52.26
26 27 16 00-0303 EA 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	330.63	61.89
26 27 16 00-0304 EA 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure	467.04	99.02
26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0307 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	244.97	22.00
26 27 16 00-0308 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	289.30	30.26
26 27 16 00-0309 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	367.02	41.26
26 27 16 00-0310 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	445.49	49.51
26 27 16 00-0311 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	549.50	63.26
26 27 16 00-0312 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	649.46	79.77
26 27 16 00-0313 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0314 EA 4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	302.48	19.26
For 316 Stainless Steel, Add		40.70
26 27 16 00-0315 EA 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	394.22	27.50
For 316 Stainless Steel, Add		52.07
26 27 16 00-0316 EA 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	446.41	30.26
For 316 Stainless Steel, Add		59.32
26 27 16 00-0317 EA 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	510.40	33.00
For 316 Stainless Steel, Add		68.46
26 27 16 00-0318 EA 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	627.08	41.26
For 316 Stainless Steel, Add		83.83
26 27 16 00-0319 EA 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	880.15	52.26
For 316 Stainless Steel, Add		119.92
26 27 16 00-0320 EA 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,096.64	63.26
For 316 Stainless Steel, Add		150.16
26 27 16 00-0321 EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,323.18	79.77
For 316 Stainless Steel, Add		179.80
26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	162.95	30.26
26 27 16 00-0324 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	183.62	33.00
26 27 16 00-0325 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	210.02	38.51
26 27 16 00-0326 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	228.38	41.26
26 27 16 00-0327 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	263.95	46.76
26 27 16 00-0328 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	247.87	46.76
26 27 16 00-0329 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	289.13	52.26
26 27 16 00-0330 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	362.66	63.26
26 27 16 00-0331 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	462.46	86.64
26 27 16 00-0332 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	593.67	124.73
26 27 16 00-0333 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	175.60	30.26
26 27 16 00-0334 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	198.57	33.00
26 27 16 00-0335 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	226.10	38.51
26 27 16 00-0336 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	247.90	41.26
26 27 16 00-0337 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	284.63	46.76
26 27 16 00-0338 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	267.41	46.76
26 27 16 00-0339 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	315.63	52.26
26 27 16 00-0340 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	376.44	63.26
26 27 16 00-0341 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	491.19	86.64
26 27 16 00-0342 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	624.68	124.73
26 27 16 00-0343 Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	198.58	30.26
26 27 16 00-0345 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	212.35	33.00
26 27 16 00-0346 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	241.03	38.51
26 27 16 00-0347 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	260.54	41.26
26 27 16 00-0348 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	308.77	46.76
26 27 16 00-0349 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	283.50	46.76
26 27 16 00-0350 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	348.93	52.26
26 27 16 00-0351 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	414.37	63.26
26 27 16 00-0352 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	507.27	86.64
26 27 16 00-0353 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	652.25	124.73
26 27 16 00-0354 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	207.77	30.26
26 27 16 00-0355 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	229.57	33.00

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0356	EA	8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	257.11	38.51
26 27 16 00-0357	EA	10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	277.77	41.26
26 27 16 00-0358	EA	12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	331.75	46.76
26 27 16 00-0359	EA	10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	303.01	46.76
26 27 16 00-0360	EA	12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	373.07	52.26
26 27 16 00-0361	EA	14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	425.85	63.26
26 27 16 00-0362	EA	16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	545.17	86.64
26 27 16 00-0363	EA	18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	692.47	124.73
26 27 16 00-0364		NEMA 7/9 Enclosures, Lockable (26 27 16) Note: Nominal inside dimensions.		
26 27 16 00-0365		4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0366	EA	6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,799.75	154.72
		For Mounting Pan, Add	78.89	
26 27 16 00-0367	EA	6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,420.39	165.03
		For Mounting Pan, Add	147.00	
26 27 16 00-0368	EA	8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,824.80	185.66
		For Mounting Pan, Add	202.70	
26 27 16 00-0369		6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0370	EA	8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,504.65	185.66
		For Mounting Pan, Add	103.07	
26 27 16 00-0371	EA	8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,281.39	190.82
		For Mounting Pan, Add	202.70	
26 27 16 00-0372	EA	8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,353.92	206.29
		For Mounting Pan, Add	155.05	
26 27 16 00-0373	EA	10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,443.91	206.29
		For Mounting Pan, Add	181.41	
26 27 16 00-0374	EA	10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,881.13	257.86
		For Mounting Pan, Add	238.00	
26 27 16 00-0375	EA	12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,605.17	232.07
		For Mounting Pan, Add	148.61	
26 27 16 00-0376	EA	12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,757.94	257.86
		For Mounting Pan, Add	222.36	
26 27 16 00-0377	EA	12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,326.45	464.15
		For Mounting Pan, Add	299.16	
26 27 16 00-0378	EA	14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,838.00	309.43
		For Mounting Pan, Add	291.27	
26 27 16 00-0379	EA	16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,622.99	515.72
		For Mounting Pan, Add	267.41	
26 27 16 00-0380	EA	18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	9,172.40	515.72
		For Mounting Pan, Add	434.72	
26 27 16 00-0381		8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0382	EA	8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,917.37	232.07
		For Mounting Pan, Add	155.05	
26 27 16 00-0383	EA	10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,945.33	232.07
		For Mounting Pan, Add	181.41	
26 27 16 00-0384	EA	10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,477.95	232.07
		For Mounting Pan, Add	238.00	
26 27 16 00-0385	EA	12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,962.03	257.86
		For Mounting Pan, Add	148.61	
26 27 16 00-0386	EA	12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,182.18	464.15
		For Mounting Pan, Add	222.36	
26 27 16 00-0387	EA	12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	8,738.90	567.30
		For Mounting Pan, Add	299.16	
26 27 16 00-0388	EA	12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	13,801.60	670.45
		For Mounting Pan, Add	449.90	
26 27 16 00-0389	EA	14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,849.35	567.30
		For Mounting Pan, Add	291.27	
26 27 16 00-0390	EA	16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	8,068.54	567.30
		For Mounting Pan, Add	267.41	
26 27 16 00-0391	EA	16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	12,100.12	618.87
		For Mounting Pan, Add	400.84	
26 27 16 00-0392	EA	18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	9,974.56	567.30
		For Mounting Pan, Add	434.72	
26 27 16 00-0393	EA	18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	13,372.27	618.87
		For Mounting Pan, Add	635.69	
26 27 16 00-0394	EA	18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	13,279.21	618.87
		For Mounting Pan, Add	847.46	
26 27 16 00-0395	EA	18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	20,663.86	825.16
		For Mounting Pan, Add	1,059.17	
26 27 16 00-0396	EA	24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	15,712.17	670.45
		For Mounting Pan, Add	984.84	
26 27 16 00-0397	EA	24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	28,530.75	1,031.45
		For Mounting Pan, Add	1,348.25	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 27 16 00-0398	10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)				
26 27 16 00-0399	EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	14,365.44 449.90		670.45	
26 27 16 00-0400	EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	13,223.17 400.84		618.87	
26 27 16 00-0401	EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	14,407.40 635.69		670.45	
26 27 16 00-0402	EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	18,243.18 1,059.17		722.02	
26 27 16 00-0403	EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	16,113.56 984.84		722.02	
26 27 16 00-0404	EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	31,113.78 1,348.25		1,031.45	
26 27 16 00-0405	12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)				
26 27 16 00-0406	EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	8,940.00 299.16		567.30	
26 27 16 00-0407	Breaker Enclosures (26 27 16)				
See CSI section 26 24 16 00-0001 for lighting and power panel boards.					
26 27 16 00-0408	15 To 100 Amperes, F-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0409	EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	445.20		110.02	
26 27 16 00-0410	EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	815.69		110.02	
26 27 16 00-0411	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	2,007.30		151.27	
26 27 16 00-0412	EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	2,719.80		165.03	
26 27 16 00-0413	EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,984.77		165.03	
26 27 16 00-0414	EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	701.67		151.27	
26 27 16 00-0415	15 To 250 Amperes, H Or J-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0416	EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	709.97		151.27	
26 27 16 00-0417	EA NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,303.27		151.27	
26 27 16 00-0418	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	4,441.44		192.54	
26 27 16 00-0419	EA NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,078.40		192.54	
26 27 16 00-0420	125 To 400 Amperes, L-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0421	EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,113.79		302.56	
26 27 16 00-0422	EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	2,576.80		302.56	
26 27 16 00-0423	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	7,528.44		385.07	
26 27 16 00-0424	EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,845.76		385.07	
26 27 16 00-0425	300 To 800 Amperes, M-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0426	EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	2,181.01		577.62	
26 27 16 00-0427	EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	3,727.32		577.62	
26 27 16 00-0428	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	13,547.07		742.65	
26 27 16 00-0429	EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	7,343.97		742.65	
26 27 16 00-0430	250 To 1,200 Amperes, P-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0431	EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	2,656.34		577.62	
26 27 16 00-0432	EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	4,479.03		577.62	
26 27 16 00-0433	EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	9,226.23		742.65	
26 27 16 00-0434	Legend Plates (26 27 16)				
26 27 16 00-0435	EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters.....	23.25		6.87	
26 27 16 00-0436	EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters.....	32.68		6.87	
26 27 19	Multi-Outlet Assemblies (26 27)				
26 27 19 00-0001	Surface Metal Raceway, Preamsembled With Outlets (26 27 19)				
Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).					
26 27 19 00-0002	LF Single Circuit, Plugmold #2000, 3' With Outlets 6" On Center..... For Concrete Or Masonry Surface, Add	31.75 1.00		10.04	
26 27 19 00-0003	LF Single Circuit, Plugmold #2000, 6' With Outlets 6" On Center..... For Concrete Or Masonry Surface, Add	24.50 0.72		7.15	
26 27 19 00-0004	LF Single Circuit, Plugmold #2000, 6' With Outlets 9" On Center..... For Concrete Or Masonry Surface, Add	23.22 0.75		7.56	
26 27 19 00-0005	LF Single Circuit, Plugmold #2000, 6' With Outlets 12" On Center..... For Concrete Or Masonry Surface, Add	25.36 0.72		7.15	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 19 00-0006 LF Single Circuit, Plugmold #2000, 6' With Outlets 18" On Center <i>For Concrete Or Masonry Surface, Add</i>	20.89 0.73	7.28
26 27 19 00-0007 LF Two Circuits, Plugmold #2000, 6' With Outlets 9" On Center <i>For Concrete Or Masonry Surface, Add</i>	28.22 0.72	7.15
26 27 19 00-0008 LF Two Circuits, Plugmold #2000, 6' With Outlets 12" On Center <i>For Concrete Or Masonry Surface, Add</i>	25.10 0.72	7.15
26 27 19 00-0009 LF Two Circuits, Plugmold #2000, 6' With Outlets 18" On Center <i>For Concrete Or Masonry Surface, Add</i>	26.98 0.72	7.15
26 27 23 Indoor Service Poles (26 27)		
26 27 23 00-0001 Communication And Power Poles (26 27 23)		
Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002 Steel Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0003 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0004 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)		
26 27 23 00-0005 EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	359.85	60.95
26 27 23 00-0006 EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	390.77	60.95
26 27 23 00-0007 EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	426.52	60.95
26 27 23 00-0008 Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)		
Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	73.68	12.57
26 27 23 00-0010 EA Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....	63.92	12.57
26 27 23 00-0011 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	72.33	12.57
26 27 23 00-0012 EA Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices	53.68	12.57
26 27 23 00-0013 EA Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	44.27	12.57
26 27 23 00-0014 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0015 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)		
26 27 23 00-0016 EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	465.87	60.95
26 27 23 00-0017 EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	532.31	60.95
26 27 23 00-0018 EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	568.17	60.95
26 27 23 00-0019 Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020 EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	49.53	12.57
26 27 23 00-0021 EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	44.56	12.57
26 27 23 00-0022 EA Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices	48.12	12.57
26 27 23 00-0023 3" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0024 3" Width, Steel Communication And Power Poles (26 27 23 00-0023)		
26 27 23 00-0025 EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	606.67	60.95
26 27 23 00-0026 EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	686.65	60.95
26 27 23 00-0027 EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	739.37	60.95
26 27 23 00-0028 Additional Cover Plates For 3" Width, Steel Communication And Power Poles (26 27 23 00-0023)		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029 EA Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle	49.53	12.57
26 27 23 00-0030 EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	44.56	12.57
26 27 23 00-0031 EA Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices.....	48.12	12.57
26 27 23 00-0032 Aluminum Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0033 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0034 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0035 EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	486.68	60.95
26 27 23 00-0036 EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	542.59	60.95
26 27 23 00-0037 EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	605.28	60.95
26 27 23 00-0038 Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0039 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	75.59	12.57
26 27 23 00-0040 EA Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles.....	77.16	12.57
26 27 23 00-0041 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	82.42	12.57
26 27 23 00-0042 EA Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices.....	56.63	12.57
26 27 23 00-0043 EA Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting.....	44.27	12.57
26 27 23 00-0044 2-1/4" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0045 EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	469.21	60.95
26 27 23 00-0046 EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	526.56	60.95
26 27 23 00-0047 EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	594.13	60.95
26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0049 EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	980.04	60.95
26 27 23 00-0050 EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	1,120.69	60.95
26 27 23 00-0051 EA 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	1,278.23	60.95
26 27 23 00-0052 2" Diameter, Round Aluminum Communication And Power Pole (26 27 23 00-0032)		
26 27 23 00-0053 EA 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	533.31	60.95
26 27 23 00-0054 EA 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole.....	504.97	60.95
26 27 23 00-0055 EA 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole.....	646.43	60.95
26 27 26 Wiring Devices (26 27)		
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		
26 27 26 00-0001 Receptacles (26 27 26)		
26 27 26 00-0002 General Use Receptacles (26 27 26 00-0001)		
26 27 26 00-0003 Receptacle Assemblies (26 27 26 00-0002)		
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.		
26 27 26 00-0004 EA 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	108.45	48.83
26 27 26 00-0005 EA 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	116.50	52.26
26 27 26 00-0006 EA 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	140.49	62.57
26 27 26 00-0007 EA 20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	156.58	69.46
26 27 26 00-0008 EA 15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	124.32	48.83
26 27 26 00-0009 EA 20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	133.21	52.26
26 27 26 00-0010 Receptacle Components (26 27 26 00-0002)		
26 27 26 00-0011 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle.....	31.83	13.76
26 27 26 00-0012 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle.....	30.90	13.76
26 27 26 00-0013 EA 15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle.....	36.36	13.76
26 27 26 00-0014 EA 15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle.....	39.52	13.76
26 27 26 00-0015 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle.....	50.42	17.19
26 27 26 00-0016 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle.....	60.79	17.19
26 27 26 00-0017 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle.....	33.05	13.76
26 27 26 00-0018 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle.....	32.07	13.76
26 27 26 00-0019 EA 20 Amperes, 120/277 Volt, Single Receptacle.....	46.31	13.76
26 27 26 00-0020 EA 20 Amperes, 120/277 Volt, Duplex Receptacle.....	38.53	13.76
26 27 26 00-0021 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle.....	50.42	17.19
26 27 26 00-0022 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle.....	60.79	17.19
26 27 26 00-0023 EA 20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle.....	94.05	17.19
26 27 26 00-0024 EA 20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle.....	94.05	17.19
26 27 26 00-0025 EA 25 Amperes, 120/277 Volt, Duplex Receptacle.....	79.58	20.63
26 27 26 00-0026 Specialty Receptacles (26 27 26 00-0001)		
26 27 26 00-0027 Specialty Receptacles (26 27 26 00-0026)		
26 27 26 00-0028 EA 30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle.....	71.67	24.07
26 27 26 00-0029 EA 30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle.....	71.67	24.07
26 27 26 00-0030 EA 30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles.....	92.31	24.07
26 27 26 00-0031 EA 30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle.....	107.80	24.07
26 27 26 00-0032 EA 30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle.....	114.68	27.50
26 27 26 00-0033 EA 50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle.....	106.06	27.50
26 27 26 00-0034 EA 50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle.....	103.63	27.50
26 27 26 00-0035 EA 50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle.....	91.10	27.50
26 27 26 00-0036 EA 50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle.....	111.59	27.50
26 27 26 00-0037 EA 50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle.....	127.94	27.50
26 27 26 00-0038 EA 50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle.....	134.82	30.94
26 27 26 00-0039 EA 60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle.....	148.32	34.38
26 27 26 00-0040 EA 60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle.....	162.07	41.26
26 27 26 00-0041 EA 100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete.....	1,531.74	323.19
26 27 26 00-0042 EA 400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete.....	3,723.58	395.39
26 27 26 00-0043 EA 30 Amperes, 230 Volt, Dryer Receptacle.....	85.44	27.50
26 27 26 00-0044 EA 60 Amperes, 230 Volt, Range Receptacle.....	125.14	41.26
26 27 26 00-0045 EA 15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle.....	79.68	17.19

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0046 EA Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete	1,612.49	418.81
26 27 26 00-0047 Isolated Ground Receptacles (26 27 26 00-0026)		
26 27 26 00-0048 EA 15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex Note: 2 Pole, 3 wire.	101.40	13.76
26 27 26 00-0049 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	67.88	17.19
26 27 26 00-0050 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex	67.64	17.19
26 27 26 00-0051 EA 30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	94.26	27.50
26 27 26 00-0052 EA Locking 15 Amperes, 250 Volt Isolated Ground Receptacles.....	75.86	17.19
26 27 26 00-0053 EA Locking 15 Amperes, 277 Volt Isolated Ground Receptacles.....	69.65	17.19
26 27 26 00-0054 EA Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles.....	95.95	20.63
26 27 26 00-0055 EA Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles.....	76.62	20.63
26 27 26 00-0056 EA Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles.....	98.25	20.63
26 27 26 00-0057 EA Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles.....	119.34	20.63
26 27 26 00-0058 EA Locking 30 Amperes, 277 Volt Isolated Ground Receptacles.....	118.21	27.50
26 27 26 00-0059 Explosion Proof Receptacle Assembly (26 27 26 00-0026)		
26 27 26 00-0060 EA 1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	1,015.29	34.38
26 27 26 00-0061 EA 3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	935.58	37.82
26 27 26 00-0062 EA 3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,555.59	68.76
26 27 26 00-0063 EA 3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,959.18	68.76
26 27 26 00-0064 EA 1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	2,479.39	103.14
26 27 26 00-0065 EA 1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	2,362.54	103.14
26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) (26 27 26 00-0026)		
26 27 26 00-0067 EA 15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	43.35	17.19
26 27 26 00-0068 EA 20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	62.55	20.63
26 27 26 00-0069 Arc Fault Circuit Interrupter (AFCI) (26 27 26 00-0026)		
26 27 26 00-0070 EA 15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	77.96	17.19
26 27 26 00-0071 EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	85.65	17.19
26 27 26 00-0072 Locking Receptacle (26 27 26 00-0026)		
26 27 26 00-0073 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle.....	62.13	17.19
26 27 26 00-0074 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle.....	76.53	17.19
26 27 26 00-0075 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	68.84	20.63
26 27 26 00-0076 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	68.21	20.63
26 27 26 00-0077 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	80.88	20.63
26 27 26 00-0078 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	97.25	20.63
26 27 26 00-0079 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle.....	95.44	20.63
26 27 26 00-0080 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle.....	83.47	20.63
26 27 26 00-0081 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle.....	95.06	27.50
26 27 26 00-0082 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking, Receptacle.....	96.58	27.50
26 27 26 00-0083 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle.....	126.75	27.50
26 27 26 00-0084 Weathertight Pin And Sleeve Receptacle (26 27 26 00-0026)		
26 27 26 00-0085 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W).....	305.41	68.76
26 27 26 00-0086 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W).....	304.71	68.76
26 27 26 00-0087 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W).....	317.80	68.76
26 27 26 00-0088 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W).....	387.07	75.64
26 27 26 00-0089 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W).....	388.16	75.64
26 27 26 00-0090 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W).....	385.64	75.64
26 27 26 00-0091 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W).....	461.76	84.57
26 27 26 00-0092 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W).....	440.46	84.57
26 27 26 00-0093 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W).....	473.80	84.57
26 27 26 00-0094 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W).....	479.16	92.83
26 27 26 00-0095 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W).....	478.74	92.83
26 27 26 00-0096 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W).....	481.76	92.83
26 27 26 00-0097 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W).....	672.47	110.02
26 27 26 00-0098 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W).....	646.68	110.02
26 27 26 00-0099 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W).....	663.47	110.02
26 27 26 00-0100 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W).....	738.85	122.40
26 27 26 00-0101 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W).....	739.35	122.40
26 27 26 00-0102 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W).....	739.85	122.40
26 27 26 00-0103 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W).....	822.48	137.53
26 27 26 00-0104 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W).....	855.53	137.53
26 27 26 00-0105 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W).....	920.68	151.27
26 27 26 00-0106 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W).....	918.20	151.27
26 27 26 00-0107 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W).....	922.87	151.27
26 27 26 00-0108 Corrosion Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0109 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles	82.84	13.76
26 27 26 00-0110 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles	165.14	17.19



Electrical		26	26
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0111		Tamper Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0112	EA	15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle Note: Pass & Seymour 3232-TR.	33.68	13.76
26 27 26 00-0113	EA	20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle Note: Pass & Seymour TR20.	36.86	13.76
26 27 26 00-0114	EA	15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle Note: Pass & Seymour TR5251.	46.00	13.76
26 27 26 00-0115	EA	20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle Note: Pass & Seymour TR5351.	50.28	13.76
26 27 26 00-0116	EA	15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle..... Note: Pass & Seymour S1595-TR*CC8.	76.01	13.76
26 27 26 00-0117	EA	15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 1595-TRS.	82.14	13.76
26 27 26 00-0118	EA	20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 2095-TRS.	88.00	13.76
26 27 26 00-0119		USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)		
26 27 26 00-0120	EA	15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	78.25	13.76
26 27 26 00-0121	EA	20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	84.59	13.76
26 27 26 00-0122		Television Receptacle (26 27 26 00-0001)		
26 27 26 00-0123	EA	TV Receptacle With Cover (Type F), Complete.....	87.09	31.90
26 27 26 00-0124		Switches (26 27 26)		
26 27 26 00-0125		Switches (26 27 26 00-0124)		
26 27 26 00-0126		Switch Assemblies (26 27 26 00-0125) Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0127	EA	1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	112.18	48.13
26 27 26 00-0128	EA	1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	121.01	52.26
26 27 26 00-0129	EA	2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	151.38	62.92
26 27 26 00-0130	EA	2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	166.28	69.80
26 27 26 00-0131	EA	3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	257.96	107.96
26 27 26 00-0132	EA	3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	280.31	118.27
26 27 26 00-0133	EA	4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	297.24	122.06
26 27 26 00-0134	EA	4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	327.05	135.80
26 27 26 00-0135		Switch Components (26 27 26 00-0125)		
26 27 26 00-0136	EA	15 Amperes, 120/277 Volt, SPST Switch	36.01	13.76
26 27 26 00-0137	EA	15 Amperes, 120/277 Volt, 3-Way Switch	45.56	17.19
26 27 26 00-0138	EA	15 Amperes, 120/277 Volt, 4-Way Switch	87.45	27.50
26 27 26 00-0139	EA	15 Amperes, 120/277 Volt, DPST Switch	40.96	13.76
26 27 26 00-0140	EA	15 Amperes, 120/277 Volt, Thermal Switch.....	76.68	17.19
26 27 26 00-0141	EA	20 Amperes, 120/277 Volt, SPST Switch	43.46	17.19
26 27 26 00-0142	EA	20 Amperes, 120/277 Volt, 3-Way Switch	53.68	20.63
26 27 26 00-0143	EA	20 Amperes, 120/277 Volt, 4-Way Switch	116.89	27.50
26 27 26 00-0144	EA	20 Amperes, 120/277 Volt, DPST Switch	51.40	17.19
26 27 26 00-0145	EA	20 Amperes, 120/277 Volt, DPDT Switch	54.91	17.19
26 27 26 00-0146	EA	15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch	93.13	17.22
26 27 26 00-0147	EA	15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch	117.35	17.22
26 27 26 00-0148	EA	Momentary Contact Switch With Separate Neon Pilot..... Note: Neon Pilot is 125 V, 1 / 125W.	89.64	20.66
26 27 26 00-0149	EA	20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off Note: Or 250 VAC 10 Amp, double throw BAT handle.	65.76	24.07
26 27 26 00-0150	EA	20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	80.68	27.50
26 27 26 00-0151	EA	20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	116.96	27.50
26 27 26 00-0152	EA	30 Amperes, 120/277 Volt, Single Pole, Local Switch	93.66	27.54
26 27 26 00-0153	EA	30 Amperes, 120/277 Volt, Double Pole, Local Switch	115.43	27.54
26 27 26 00-0154	EA	30 Amperes, 120/277 Volt, Three-Way Local Switch.....	120.73	34.43
26 27 26 00-0155	EA	30 Amperes, 120/277 Volt, Four-Way Local Switch	168.52	37.88
26 27 26 00-0156	EA	15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	80.82	22.52
26 27 26 00-0157	EA	15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot	114.01	22.52
		Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.		
26 27 26 00-0158	EA	15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch	99.70	22.52
26 27 26 00-0159	EA	15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch	94.78	22.52
26 27 26 00-0160	EA	6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch	104.78	11.16
26 27 26 00-0161	EA	6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	111.45	11.16
26 27 26 00-0162	EA	15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	118.88	42.97
26 27 26 00-0163	EA	Three Position, Center Off, Key Operated, Momentary Contact Switch	143.10	42.97
		Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0164	EA	Single Pole, Slide Dimmer (Leviton IP710-LFZ)	170.43	13.78

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0165 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	94.08	13.78
26 27 26 00-0166 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	287.95	13.76
26 27 26 00-0167 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	53.64	13.76
26 27 26 00-0168 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	100.23	13.78
26 27 26 00-0169 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000).....	114.96	13.78
26 27 26 00-0170 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	147.09	13.78
26 27 26 00-0171 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	175.49	13.78
26 27 26 00-0172 Specialty Switches (26 27 26 00-0124)		
26 27 26 00-0173 Dimmers With SPST Switch (26 27 26 00-0172)		
26 27 26 00-0174 EA 600 Watt Dimmers With SPST Switch.....	80.27	30.94
26 27 26 00-0175 EA 1,000 Watt Dimmers With SPST Switch.....	137.67	30.94
26 27 26 00-0176 EA 1,500 Watt Dimmers With SPST Switch.....	247.82	49.79
26 27 26 00-0177 EA 2,000 Watt Dimmers With SPST Switch.....	321.06	49.79
26 27 26 00-0178 EA 600 Watt Fluorescent Dimmer Switch.....	178.94	36.72
26 27 26 00-0179 EA 1,000 Watt Fluorescent Dimmer Switch.....	241.96	36.72
26 27 26 00-0180 EA 1,500 Watt Fluorescent Dimmer Switch.....	437.73	55.43
26 27 26 00-0181 EA Remote Speed Switch For Paddle Fan.....	132.15	45.80
26 27 26 00-0182 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer.....	217.81	68.35
26 27 26 00-0183 Time Switches (26 27 26 00-0172)		
26 27 26 00-0184 EA 40 Amperes, 125 Volt, SPST, Standard Time Switch.....	148.81	41.26
26 27 26 00-0185 EA 40 Amperes, 277 Volt, SPST, Standard Time Switch.....	152.12	41.26
26 27 26 00-0186 EA 40 Amperes, 125 Volt, DPST, Standard Time Switch.....	148.81	41.26
26 27 26 00-0187 EA 40 Amperes, 277 Volt, DPST, Standard Time Switch.....	152.12	41.26
26 27 26 00-0188 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch.....	170.91	41.26
26 27 26 00-0189 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch.....	170.91	41.26
26 27 26 00-0190 EA 40 Amperes, 125 Volt, DPDT, 7-Day Time Switch.....	301.29	41.26
26 27 26 00-0191 EA 40 Amperes, 277 Volt, DPDT, 7-Day Time Switch.....	301.29	41.26
26 27 26 00-0192 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch.....	259.46	41.26
26 27 26 00-0193 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch.....	285.00	41.26
26 27 26 00-0194 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch.....	285.00	41.26
26 27 26 00-0195 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch.....	345.38	41.26
26 27 26 00-0196 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch.....	355.54	41.26
26 27 26 00-0197 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch.....	148.81	41.26
26 27 26 00-0198 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch.....	152.12	41.26
26 27 26 00-0199 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch.....	148.81	41.26
26 27 26 00-0200 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch.....	152.12	41.26
26 27 26 00-0201 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch.....	170.91	41.26
26 27 26 00-0202 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch.....	170.91	41.26
26 27 26 00-0203 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch.....	301.29	41.26
26 27 26 00-0204 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch.....	301.29	41.26
26 27 26 00-0205 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	345.38	41.26
26 27 26 00-0206 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	355.54	41.26
26 27 26 00-0207 Low Voltage Switching (26 27 26 00-0172)		
26 27 26 00-0208 EA 36 Pin Male Or Female Connector.....	241.84	13.76
26 27 26 00-0209 Other Switches (26 27 26 00-0172)		
26 27 26 00-0210 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture.....	45.36	20.63
26 27 26 00-0211 EA SPST Locking Switch For Concealed Devices.....	138.50	55.01
26 27 26 00-0212 EA 3-Way Locking Switch For Concealed Devices.....	140.30	55.01
26 27 26 00-0213 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard.....	153.38	51.43
26 27 26 00-0214 EA 15 Amperes Momentary Contact Switch.....	146.14	51.43
26 27 26 00-0215 EA 20 Amperes Momentary Contact Switch.....	153.77	51.43
26 27 26 00-0216 EA 2-1/4" Handy Box Cover Units Fuseholder Switch.....	145.21	61.98
26 27 26 00-0217 EA 2-3/4" Handy Box Cover Units Fuseholder Switch.....	147.34	61.98
26 27 26 00-0218 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches.....	181.25	75.75
26 27 26 00-0219 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch.....	164.82	68.86
26 27 26 00-0220 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch.....	165.36	68.86
26 27 26 00-0221 Plates And Covers (26 27 26)		
26 27 26 00-0222 Wall Plates (26 27 26 00-0221)		
26 27 26 00-0223 Nylon Wall Plates (26 27 26 00-0222)		
26 27 26 00-0224 EA 1 Gang Nylon Switch Wall Plates.....	2.16	0.69
26 27 26 00-0225 EA 2 Gang Nylon Switch Wall Plates.....	3.66	1.03
26 27 26 00-0226 EA 3 Gang Nylon Switch Wall Plates.....	5.20	1.37
26 27 26 00-0227 EA 4 Gang Nylon Switch Wall Plate.....	7.47	1.73
26 27 26 00-0228 EA 1 Gang Duplex Nylon Wall Plate.....	2.18	0.69
26 27 26 00-0229 EA 2 Gang Duplex Nylon Wall Plate.....	3.75	1.03
26 27 26 00-0230 Plastic Wall Plates (26 27 26 00-0222)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0231 EA 1 Gang Plastic Switch Wall Plates	2.00	0.69
26 27 26 00-0232 EA 2 Gang Plastic Switch Wall Plates	3.34	1.03
26 27 26 00-0233 EA 3 Gang Plastic Switch Wall Plates	4.69	1.37
26 27 26 00-0234 EA 4 Gang Plastic Switch Wall Plates	7.47	1.73
26 27 26 00-0235 EA 1 Gang Duplex Plastic Wall Plate	2.00	0.69
26 27 26 00-0236 EA 2 Gang Duplex Plastic Wall Plate	3.35	1.03
26 27 26 00-0237 Brass Wall Plates (26 27 26 00-0222)		
26 27 26 00-0238 EA 1 Gang, 0.04" Brass Switch Wall Plates	21.14	3.10
26 27 26 00-0239 EA 2 Gang, 0.04" Brass Switch Wall Plates	39.58	3.58
26 27 26 00-0240 EA 3 Gang, 0.04" Brass Switch Wall Plates	57.90	3.99
26 27 26 00-0241 EA 4 Gang, 0.04" Brass Switch Wall Plates	90.05	4.33
26 27 26 00-0242 EA 5 Gang, 0.04" Brass Switch Wall Plates	109.68	4.62
26 27 26 00-0243 EA 6 Gang, 0.04" Brass Switch Wall Plates	126.93	4.82
26 27 26 00-0244 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate	21.14	3.10
26 27 26 00-0245 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate	46.39	3.58
26 27 26 00-0246 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate	66.86	3.99
26 27 26 00-0247 Stainless Steel Wall Plates (26 27 26 00-0222)		
26 27 26 00-0248 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	11.32	3.10
26 27 26 00-0249 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	18.13	3.58
26 27 26 00-0250 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	25.31	3.99
26 27 26 00-0251 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	37.13	4.33
26 27 26 00-0252 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	43.72	4.62
26 27 26 00-0253 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	52.87	4.82
26 27 26 00-0254 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	12.40	3.10
26 27 26 00-0255 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	20.67	3.58
26 27 26 00-0256 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	33.74	3.99
26 27 26 00-0257 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	40.78	4.33
26 27 26 00-0258 Chrome Wall Plates (26 27 26 00-0222)		
26 27 26 00-0259 EA 1 Gang, 0.040" Chrome Switch Wall Plate	42.28	3.10
26 27 26 00-0260 EA 2 Gang 0.040" Chrome Switch Wall Plate	79.19	3.58
26 27 26 00-0261 EA 3 Gang 0.040" Chrome Switch Wall Plate	116.07	3.99
26 27 26 00-0262 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate	42.25	3.10
26 27 26 00-0263 Weatherproof Covers (26 27 26 00-0221)		
26 27 26 00-0264 Stamped Metallic Weatherproof Covers (26 27 26 00-0263)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0265 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC)	15.98	0.69
26 27 26 00-0266 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC)	17.33	0.69
26 27 26 00-0267 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC)	17.33	0.69
26 27 26 00-0268 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC)	17.33	0.69
26 27 26 00-0269 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC)	21.20	1.03
26 27 26 00-0270 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC)	24.12	1.03
26 27 26 00-0271 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC)	24.41	1.03
26 27 26 00-0272 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC)	24.41	1.03
26 27 26 00-0273 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC)	33.31	1.03
26 27 26 00-0274 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB)	31.42	1.37
26 27 26 00-0275 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT)	34.41	1.37
26 27 26 00-0276 Cast Metallic Weatherproof Covers (26 27 26 00-0263)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0277 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC)	19.61	0.69
26 27 26 00-0278 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA)	63.16	0.69
26 27 26 00-0279 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR)	70.85	0.69
26 27 26 00-0280 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG)	19.47	0.69
26 27 26 00-0281 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT)	53.50	0.69
26 27 26 00-0282 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT)	89.16	0.69
26 27 26 00-0283 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST)	113.58	0.69
26 27 26 00-0284 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC)	24.41	1.03
26 27 26 00-0285 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST)	179.45	1.03
26 27 26 00-0286 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC)	40.98	1.37
26 27 26 00-0287 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST)	171.30	1.37
26 27 26 00-0288 Die Cast Aluminum Weatherproof Covers (26 27 26 00-0263)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0289 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027)	6.32	0.69
26 27 26 00-0290 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026)	8.13	0.69
26 27 26 00-0291 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032)	10.91	1.03
26 27 26 00-0292 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	11.85	1.03
26 27 26 00-0293 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042)	11.85	1.03

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0294	EA	Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043)	13.20	1.03	
26 27 26 00-0295		Heavy-Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0263) Note: Includes baked on lacquer finish and neoprene gasket.			
26 27 26 00-0296	EA	Duplex Receptacle, Single Gang, Heavy-Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	65.23	0.69	
26 27 26 00-0297		Polycarbonate Weatherproof Covers (26 27 26 00-0263) Note: Includes neoprene gasket.			
26 27 26 00-0298	EA	Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	13.08	0.69	
26 27 26 00-0307	EA	Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	13.08	0.69	
26 27 26 00-0300	EA	Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	13.08	0.69	
26 27 26 00-0301	EA	Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	16.16	1.03	
26 27 26 00-0302	EA	Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	16.16	1.03	
26 27 26 00-0303		High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0263) Note: Includes neoprene gasket.			
26 27 26 00-0304	EA	Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	97.37	0.69	
26 27 26 00-0305		Non-Metallic (PVC) Weatherproof Covers (26 27 26 00-0263) Note: Includes neoprene gasket.			
26 27 26 00-0306	EA	Blank Cover, Single Gang, Non-Metallic (PVC) Weatherproof Cover	14.68	0.69	
26 27 26 00-0307	EA	Blank Cover, Two Gang, Non-Metallic (PVC) Weatherproof Cover	15.76	1.03	
26 27 26 00-0308	EA	Toggle Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	14.73	0.69	
26 27 26 00-0309	EA	Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	32.46	0.69	
26 27 26 00-0310	EA	Duplex Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	37.63	0.69	
26 27 26 00-0311	EA	20 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	30.51	0.69	
26 27 26 00-0312	EA	30 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	22.73	0.69	
26 27 26 00-0313	EA	50 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	26.60	0.69	
26 27 26 00-0314	EA	Plunger Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	23.78	0.69	
26 27 26 00-0315	EA	Double Duplex Receptacle, Two Gang, Non-Metallic (PVC) Weatherproof Cover	34.25	1.03	
26 27 26 00-0316		Removal And Reinstallation Of Wiring Devices (26 27 26) Note: Includes storage and cleaning.			
26 27 26 00-0317	EA	Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device	90.48		
26 27 26 00-0318	EA	Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate.....	11.46		
26 27 26 00-0319		In Line Midget Fuseholders (26 27 26) See CSI section 26 28 13 00-0078 for fuses.			
26 27 26 00-0320	EA	Single Pole Water Resistant In Line Midget Fuseholder	98.69		
26 27 26 00-0321	EA	Double Pole Water Resistant In Line Midget Fuseholder.....	226.55		
26 27 26 00-0322		Relay Systems (26 27 26)			
26 27 26 00-0323	EA	10 Amperes, 24 Volt Coil, 2 Position Relay	103.29	30.94	
26 27 26 00-0324	EA	20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay	439.66	103.14	
26 27 26 00-0325	EA	20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay	742.16	137.53	
26 27 26 00-0326		Limit Switches (26 27 26)			
26 27 26 00-0327		Heavy-Duty Precision Oiltight (26 27 26 00-0326)			
26 27 26 00-0328		Lever Arm, Plunger, Wobble Stick Type (26 27 26 00-0327)			
26 27 26 00-0329	EA	Limit Switch, Heavy-Duty, Lever Arm Weatherproof, 10 Amperes Rated	482.54	86.64	
26 27 33		Power Distribution Units (26 27) Note: Includes wiring connections and testing.			
26 27 33 00-0001		Liebert Precision Power Center (26 27 33) Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.			
26 27 33 00-0002	EA	PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	22,558.72	422.89	
26 27 33 00-0003	EA	PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	27,237.45	458.37	
26 27 33 00-0004	EA	PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	31,041.03	508.85	
26 27 33 00-0005	EA	PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	35,714.51	550.10	
26 27 33 00-0006	EA	PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	38,973.56	687.63	
26 27 33 00-0007	EA	PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	43,724.60	825.16	
26 27 33 00-0008	EA	PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	50,450.34	962.69	
26 27 33 00-0009	EA	PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C)	53,051.16	1,100.21	
26 27 33 00-0010	EA	PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C)	56,046.89	1,237.74	
26 27 33 00-0011	EA	Ex Panelboard 10-30 KVA	2,004.02	137.53	
26 27 33 00-0012	EA	Ex Panelboard 50-125 KVA	2,994.31	171.90	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 33 00-0013 EA Ex Panelboard 150-220 KVA.....	6,749.17	206.29
26 27 33 00-0014 EA Removal And Reinstallation Of Power Distribution Unit..... Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.	2,200.43	
26 27 33 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only.....	1,650.32	
26 27 73 Door Chimes (26 27)		
26 27 73 00-0001 Door Bell Chime And Door Button With Built-In Viewer (26 27 73) Note: Non-electric chime, mounted on door		
26 27 73 00-0002 EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV)	85.04	17.27
26 27 73 00-0003 Wireless Door Bell System (26 27 73)		
26 27 73 00-0004 EA Wireless Doorbell Chime And Push Button (Broan LA542WH)	153.68	
Note: Includes 2 push buttons		
26 27 73 00-0005 EA Wireless Doorbell Chime And Push Button (STI-3350G).....	144.91	
Note: Includes 2 push buttons		
26 27 73 00-0006 EA Wireless Doorbell Chime And Push Button (GE 19300).....	109.08	
Note: Includes 2 push buttons		
26 27 73 00-0007 Door Bell Buzzer System, Wired (26 27 73)		
26 27 73 00-0008 EA Door Bell, Push-Button And Transformer, Complete	752.13	286.47
26 27 73 00-0009 EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete	305.69	68.76
26 27 73 00-0010 EA Removal And Replacement Of Bell/Buzzer, Complete	124.00	34.38
Note: Includes removal of existing.		
26 28 Low-Voltage Circuit Protective Devices (26 20)		
26 28 13 Fuses (26 28)		
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)		
26 28 13 00-0002 EA 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	33.87	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0003 EA 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	32.92	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0004 EA 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	31.64	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0005 EA 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	31.46	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0006 EA 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	32.66	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0007 EA 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	30.31	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0008 EA 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	29.75	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0009 EA 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	25.18	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0010 EA 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	24.49	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0011 EA 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	25.81	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0012 EA 30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	24.89	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0013 Class RK1, Time Delay Fuses (26 28 13)		
26 28 13 00-0014 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)		
26 28 13 00-0015 EA 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	56.37	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0016 EA 2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	52.23	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0017 EA 3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	55.12	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0018 EA 4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	54.74	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0019 EA 5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	51.85	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0020 EA 10 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	50.13	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0021 EA 15 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.54	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0022 EA 20 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.20	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0023 EA 25 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.58	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60
26 28 13 00-0024 EA 30 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.10	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.60

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0025 EA 35 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	64.60	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0026 EA 40 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	63.22	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0027 EA 45 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	64.25	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0028 EA 50 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	63.41	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0029 EA 60 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	62.15	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0030 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuses (26 28		
13 00-0013)		
26 28 13 00-0031 EA 70 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	119.42	12.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 28 13 00-0032 EA 80 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	118.73	12.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 28 13 00-0033 EA 90 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	132.73	12.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 28 13 00-0034 EA 100 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	117.63	12.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 28 13 00-0035 EA 110 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	348.04	12.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 28 13 00-0036 EA 125 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	252.64	12.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 28 13 00-0037 EA 150 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	230.79	13.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.08	
26 28 13 00-0038 EA 200 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	243.51	13.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.08	
26 28 13 00-0039 EA 250 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	463.03	13.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.08	
26 28 13 00-0040 EA 300 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	496.99	16.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.14	
26 28 13 00-0041 EA 350 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	535.01	16.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.14	
26 28 13 00-0042 EA 400 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	410.29	16.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.14	
26 28 13 00-0043 EA 450 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	924.80	16.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.14	
26 28 13 00-0044 EA 500 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	872.69	20.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.62	
26 28 13 00-0045 EA 600 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	678.25	20.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.62	
26 28 13 00-0046 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26		
28 13 00-0013)		
26 28 13 00-0047 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	90.47	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0048 EA 2 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	83.87	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0049 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	78.35	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0050 EA 4 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	80.17	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0051 EA 5 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	78.60	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0052 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	79.16	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0053 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	73.14	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0054 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	72.54	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0055 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	71.72	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0056 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	72.92	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0057 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	108.67	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0058 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	108.96	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0059 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	106.70	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0060 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	107.76	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0061 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	108.70	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses (26 28		
13 00-0013)		
26 28 13 00-0063 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	207.66	12.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0064	EA		80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	212.21	13.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.08	
26 28 13 00-0065	EA		90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	211.02	13.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.08	
26 28 13 00-0066	EA		100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	211.96	13.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.08	
26 28 13 00-0067	EA		110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	395.13	13.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.08	
26 28 13 00-0068	EA		125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	401.22	13.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.08	
26 28 13 00-0069	EA		150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	394.18	16.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.14	
26 28 13 00-0070	EA		200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	393.18	16.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.14	
26 28 13 00-0071	EA		250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	758.24	16.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.14	
26 28 13 00-0072	EA		300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	760.85	20.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.62	
26 28 13 00-0073	EA		350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	859.45	20.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.62	
26 28 13 00-0074	EA		400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	777.61	20.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.62	
26 28 13 00-0075	EA		450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	1,405.89	20.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.62	
26 28 13 00-0076	EA		500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	1,248.72	24.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.50	
26 28 13 00-0077	EA		600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	1,087.34	24.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.50	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses (26 28 13)					
Note: 250/300 Volt DC.					
26 28 13 00-0079	EA		1 Amperes, 600 Volt AC, Class CC Midget Fuse.....	65.79	9.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 28 13 00-0080	EA		2 Amperes, 600 Volt AC, Class CC Midget Fuse.....	66.89	9.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 28 13 00-0081	EA		3 Amperes, 600 Volt AC, Class CC Midget Fuse.....	66.58	9.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 28 13 00-0082	EA		5 Amperes, 600 Volt AC, Class CC Midget Fuse.....	66.23	9.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 28 13 00-0083	EA		6 Amperes, 600 Volt AC, Class CC Midget Fuse.....	71.41	9.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 28 13 00-0084	EA		8 Amperes, 600 Volt AC, Class CC Midget Fuse.....	63.12	9.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 28 13 00-0085	EA		10 Amperes, 600 Volt AC, Class CC Midget Fuse.....	72.86	9.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 28 13 00-0086	EA		15 Amperes, 600 Volt AC, Class CC Midget Fuse.....	66.26	9.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 28 13 00-0087	EA		20 Amperes, 600 Volt AC, Class CC Midget Fuse.....	64.91	9.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 28 13 00-0088	EA		25 Amperes, 600 Volt AC, Class CC Midget Fuse.....	61.81	9.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 28 13 00-0089	EA		30 Amperes, 600 Volt AC, Class CC Midget Fuse.....	64.44	9.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.60	
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse (26 28 13)					
26 28 13 00-0091	EA		1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	88.88	6.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 28 13 00-0092	EA		3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	89.60	6.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 28 13 00-0093	EA		6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	75.99	8.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.95	
26 28 13 00-0094	EA		10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	74.34	10.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.19	
26 28 13 00-0095	EA		15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	76.07	10.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.19	
26 28 13 00-0096	EA		20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	74.53	10.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.19	
26 28 13 00-0097	EA		25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	94.58	13.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 28 13 00-0098	EA		30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	77.35	13.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 28 13 00-0099	EA		35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	141.67	13.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 28 13 00-0100	EA		40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	119.51	13.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 28 13 00-0101	EA		45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	138.28	13.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 28 13 00-0102	EA		50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	119.68	17.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.32	
26 28 13 00-0103	EA		60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	117.30	17.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.32	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0104 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 185.88		20.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.38	
26 28 13 00-0105 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 199.04		20.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.38	
26 28 13 00-0106 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 195.68		20.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.38	
26 28 13 00-0107 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 167.67		24.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.44	
26 28 13 00-0108 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 413.00		24.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.44	
26 28 13 00-0109 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 348.71		24.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.44	
26 28 13 00-0110 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 329.64		27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.51	
26 28 13 00-0111 EA 175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 334.75		27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.51	
26 28 13 00-0112 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 274.95		27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.51	
26 28 13 00-0113 EA 225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 722.19		27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.51	
26 28 13 00-0114 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 666.38		27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.51	
26 28 13 00-0115 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 612.67		27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.51	
26 28 13 00-0116 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 669.83		27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.51	
26 28 13 00-0117 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 547.78		30.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 28 13 00-0118 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 1,185.57		30.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 28 13 00-0119 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 1,001.13		34.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 28 13 00-0120 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 739.10		34.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses (26 28 13)		
26 28 13 00-0122 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,294.92		17.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31	
26 28 13 00-0123 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,299.47		17.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31	
26 28 13 00-0124 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,303.71		17.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31	
26 28 13 00-0125 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,294.30		20.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.38	
26 28 13 00-0126 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,112.06		20.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.38	
26 28 13 00-0127 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,258.79		24.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.44	
26 28 13 00-0128 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,077.87		24.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.44	
26 28 13 00-0129 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,325.62		24.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.44	
26 28 13 00-0130 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,279.98		24.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.44	
26 28 13 00-0131 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,024.45		27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 13 00-0132 EA 601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,079.35		27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 13 00-0133 EA 650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,769.48		27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 13 00-0134 EA 700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,014.50		27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 13 00-0135 EA 750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 3,099.57		30.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 28 13 00-0136 EA 800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 1,778.18		30.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 28 13 00-0137 EA 900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,604.39		30.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 28 13 00-0138 EA 1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 1,747.99		30.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 28 13 00-0139 EA 1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 1,800.50		30.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 28 13 00-0140 EA 1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 4,023.05		30.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.56	
26 28 13 00-0141 EA 1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 3,966.29		30.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.56	
26 28 13 00-0142 EA 1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 3,576.87		30.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.56	
26 28 13 00-0143 EA 1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,226.65		34.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 28 13 00-0144 EA 1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 4,739.61		34.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0145	EA		2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,027.64 20.63	34.38
26 28 13 00-0146	EA		2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,099.37 20.63	34.38
26 28 13 00-0147	EA		2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,996.32 20.63	34.38
26 28 13 00-0148	EA		3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,570.19 22.69	37.82
26 28 13 00-0149	EA		3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,472.46 22.69	37.82
26 28 13 00-0150	EA		3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,994.53 22.69	37.82
26 28 13 00-0151	EA		4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,349.05 22.69	37.82
26 28 13 00-0152	EA		5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,031.33 22.69	37.82
26 28 13 00-0153	EA		6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,618.91 22.69	37.82
26 28 16 Enclosed Switches and Circuit Breakers (26 28)					
26 28 16 13 Enclosed Circuit Breakers (26 28 16)					
26 28 16 13-0001 Branch Circuit Breakers (26 28 16 13)					
Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.					
26 28 16 13-0002 Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)					
Note: Includes connection of electrical wire.					
26 28 16 13-0003	EA		1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i>	72.40 18.68 -13.75	24.76
Note: Also for use with new interiors in panelboards.					
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>					
26 28 16 13-0004	EA		1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i>	72.40 18.68 -13.75	24.76
Note: Also for use with new interiors in panelboards.					
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>					
26 28 16 13-0005	EA		1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i>	108.88 25.64 -17.19	30.94
Note: Also for use with new interiors in panelboards.					
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>					
26 28 16 13-0006	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i>	177.86 34.27 -17.19	30.94
Note: Also for use with new interiors in panelboards.					
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>					
26 28 16 13-0007	EA		1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i>	256.74 44.13 -17.19	30.94
Note: Also for use with new interiors in panelboards.					
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>					
26 28 16 13-0008	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i>	301.71 49.75 -17.19	30.94
Note: Also for use with new interiors in panelboards.					
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>					
26 28 16 13-0009	EA		1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i>	134.40 28.83 -17.19	30.94
Note: Also for use with new interiors in panelboards.					
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>					
26 28 16 13-0010	EA		2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i>	122.64 29.77 -20.63	37.13
Note: Also for use with new interiors in panelboards.					
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>					
26 28 16 13-0011	EA		2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i>	122.64 29.77 -20.63	37.13
Note: Also for use with new interiors in panelboards.					
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>					
26 28 16 13-0012	EA		2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i>	190.27 43.04 -27.51	49.51
Note: Also for use with new interiors in panelboards.					
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>					
26 28 16 13-0013	EA		2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity..... <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i>	331.49 65.50 -34.38	61.89
Note: Also for use with new interiors in panelboards.					
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>					
				41.26	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0014 EA 2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	394.70	68.76
For Bolt-On, Add	75.81	
For Installation In New Panelboard, Deduct	-37.82	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.38	
26 28 16 13-0015 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	345.41	44.01
For Bolt-On, Add	60.50	
For Installation In New Panelboard, Deduct	-24.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.71	
26 28 16 13-0016 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	474.43	44.01
For Bolt-On, Add	76.63	
For Installation In New Panelboard, Deduct	-24.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.71	
26 28 16 13-0017 EA 3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	250.46	49.51
For Bolt-On, Add	50.56	
For Installation In New Panelboard, Deduct	-27.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0018 EA 3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	250.46	49.51
For Bolt-On, Add	50.56	
For Installation In New Panelboard, Deduct	-27.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0019 EA 3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	330.72	61.89
For Bolt-On, Add	65.41	
For Installation In New Panelboard, Deduct	-34.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0020 EA 3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	516.00	74.26
For Bolt-On, Add	93.38	
For Installation In New Panelboard, Deduct	-41.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.51	
26 28 16 13-0021 EA 3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	664.91	86.64
For Bolt-On, Add	116.81	
For Installation In New Panelboard, Deduct	-48.14	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.76	
26 28 16 13-0022 Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On ^(26 28 16 13-0001)		
Note: Includes connection of electrical wire.		
26 28 16 13-0023 EA 1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	113.26	24.76
For Bolt-On, Add	23.78	
For Installation In New Panelboard, Deduct	-13.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0024 EA 1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	113.26	24.76
For Bolt-On, Add	23.78	
For Installation In New Panelboard, Deduct	-13.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0025 EA 1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	213.36	30.94
For Bolt-On, Add	38.70	
For Installation In New Panelboard, Deduct	-17.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 28 16 13-0026 EA 1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	345.98	30.94
For Bolt-On, Add	55.28	
For Installation In New Panelboard, Deduct	-17.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 28 16 13-0027 EA 2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	230.24	37.13
For Bolt-On, Add	43.22	
For Installation In New Panelboard, Deduct	-20.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0028 EA 2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	230.24	37.13
For Bolt-On, Add	43.22	
For Installation In New Panelboard, Deduct	-20.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0029 EA 2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	472.96	49.51
For Bolt-On, Add	78.37	
For Installation In New Panelboard, Deduct	-27.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0030 EA 2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	648.95	61.89
For Bolt-On, Add	105.19	
For Installation In New Panelboard, Deduct	-34.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0031	EA	2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	972.53	68.76
		For Bolt-On, Add	148.04	
		For Installation In New Panelboard, Deduct	-37.82	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.38	
26 28 16 13-0032	EA	3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	375.29	49.51
		For Bolt-On, Add	66.16	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0033	EA	3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	375.29	49.51
		For Bolt-On, Add	66.16	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0034	EA	3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	571.32	61.89
		For Bolt-On, Add	95.48	
		For Installation In New Panelboard, Deduct	-34.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0035	EA	3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	824.20	74.26
		For Bolt-On, Add	131.91	
		For Installation In New Panelboard, Deduct	-41.26	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.51	
26 28 16 13-0036	EA	3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,299.69	86.64
		For Bolt-On, Add	196.16	
		For Installation In New Panelboard, Deduct	-48.14	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.76	
26 28 16 13-0037	EA	3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,505.77	92.83
		For Bolt-On, Add	224.32	
		For Installation In New Panelboard, Deduct	-51.57	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.89	
26 28 16 13-0038	EA	3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,618.27	99.02
		For Bolt-On, Add	240.79	
		For Installation In New Panelboard, Deduct	-55.01	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.01	
26 28 16 13-0039	EA	3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,924.84	105.20
		For Bolt-On, Add	281.52	
		For Installation In New Panelboard, Deduct	-58.45	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.14	
26 28 16 13-0040		Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On ^(26 28 16 13-0001)		
		Note: Includes connection of electrical wire.		
26 28 16 13-0041	EA	15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	140.13	24.76
		For Bolt-On, Add	27.14	
		For Installation In New Panelboard, Deduct	-13.75	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0042	EA	35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	140.13	24.76
		For Bolt-On, Add	27.14	
		For Installation In New Panelboard, Deduct	-13.75	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0043	EA	70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	239.89	30.94
		For Bolt-On, Add	42.02	
		For Installation In New Panelboard, Deduct	-17.19	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 28 16 13-0044	EA	15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	300.24	37.13
		For Bolt-On, Add	51.97	
		For Installation In New Panelboard, Deduct	-20.63	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0045	EA	35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	300.24	37.13
		For Bolt-On, Add	51.97	
		For Installation In New Panelboard, Deduct	-20.63	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0046	EA	70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	540.08	49.51
		For Bolt-On, Add	86.76	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0047	EA	110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	1,440.26	61.89
		For Bolt-On, Add	204.10	
		For Installation In New Panelboard, Deduct	-34.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0048 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	490.81	49.51
For Bolt-On, Add	80.60	
For Installation In New Panelboard, Deduct	-27.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0049 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	490.81	49.51
For Bolt-On, Add	80.60	
For Installation In New Panelboard, Deduct	-27.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0050 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	655.40	61.89
For Bolt-On, Add	105.99	
For Installation In New Panelboard, Deduct	-34.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0051 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	1,784.94	74.26
For Bolt-On, Add	252.00	
For Installation In New Panelboard, Deduct	-41.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.51	
26 28 16 13-0052 Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
^{16 13-0001)}		
Note: Includes connection of electrical wire.		
26 28 16 13-0053 EA 15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	162.93	24.76
For Bolt-On, Add	29.99	
For Installation In New Panelboard, Deduct	-13.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0054 EA 35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	162.93	24.76
For Bolt-On, Add	29.99	
For Installation In New Panelboard, Deduct	-13.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0055 EA 70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	190.54	30.94
For Bolt-On, Add	35.85	
For Installation In New Panelboard, Deduct	-17.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 28 16 13-0056 EA 15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	342.93	30.94
For Bolt-On, Add	54.90	
For Installation In New Panelboard, Deduct	-17.19	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 28 16 13-0057 EA 15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	359.74	37.13
For Bolt-On, Add	59.41	
For Installation In New Panelboard, Deduct	-20.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0058 EA 35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	359.74	37.13
For Bolt-On, Add	59.41	
For Installation In New Panelboard, Deduct	-20.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0059 EA 70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	432.29	49.51
For Bolt-On, Add	73.29	
For Installation In New Panelboard, Deduct	-27.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0060 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	631.58	61.89
For Bolt-On, Add	103.02	
For Installation In New Panelboard, Deduct	-34.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0061 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	827.49	68.76
For Bolt-On, Add	129.91	
For Installation In New Panelboard, Deduct	-37.82	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.38	
26 28 16 13-0062 EA 250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	1,037.18	80.46
For Bolt-On, Add	160.94	
For Installation In New Panelboard, Deduct	-44.70	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.64	
26 28 16 13-0063 EA 300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	1,113.69	92.83
For Bolt-On, Add	175.31	
For Installation In New Panelboard, Deduct	-51.57	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.89	
26 28 16 13-0064 EA 15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	433.28	49.51
For Bolt-On, Add	73.41	
For Installation In New Panelboard, Deduct	-27.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0065	EA	35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	433.28	49.51
		For Bolt-On, Add	73.41	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0066	EA	70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	504.85	61.89
		For Bolt-On, Add	87.17	
		For Installation In New Panelboard, Deduct	-34.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0067	EA	110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	784.81	74.26
		For Bolt-On, Add	126.98	
		For Installation In New Panelboard, Deduct	-41.26	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.51	
26 28 16 13-0068	EA	150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	1,031.45	96.27
		For Bolt-On, Add	166.24	
		For Installation In New Panelboard, Deduct	-53.29	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.95	
26 28 16 13-0069	EA	250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	1,280.69	111.40
		For Bolt-On, Add	203.41	
		For Installation In New Panelboard, Deduct	-61.89	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.27	
26 28 16 13-0070	EA	300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	1,362.75	118.27
		For Bolt-On, Add	216.07	
		For Installation In New Panelboard, Deduct	-65.33	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.39	
26 28 16 13-0071		Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)		
		Note: Includes connection of electrical wire.		
26 28 16 13-0072	EA	15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	374.60	37.13
		For Bolt-On, Add	61.27	
		For Installation In New Panelboard, Deduct	-20.63	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0073	EA	35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	374.60	37.13
		For Bolt-On, Add	61.27	
		For Installation In New Panelboard, Deduct	-20.63	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0074	EA	70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	575.98	49.51
		For Bolt-On, Add	91.25	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0075	EA	110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	952.71	61.89
		For Bolt-On, Add	143.16	
		For Installation In New Panelboard, Deduct	-34.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0076	EA	150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,501.60	77.01
		For Bolt-On, Add	217.78	
		For Installation In New Panelboard, Deduct	-42.98	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.57	
26 28 16 13-0077	EA	250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,708.79	80.46
		For Bolt-On, Add	244.89	
		For Installation In New Panelboard, Deduct	-44.70	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.64	
26 28 16 13-0078	EA	300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,862.61	92.83
		For Bolt-On, Add	268.93	
		For Installation In New Panelboard, Deduct	-51.57	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.89	
26 28 16 13-0079	EA	15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	541.89	49.51
		For Bolt-On, Add	86.99	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0080	EA	35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	541.89	49.51
		For Bolt-On, Add	86.99	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0081	EA	70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	683.05	61.89
		For Bolt-On, Add	109.45	
		For Installation In New Panelboard, Deduct	-34.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0082	EA	110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,187.68	74.26
		For Bolt-On, Add	177.34	
		For Installation In New Panelboard, Deduct	-41.26	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.51	
26 28 16 13-0083	EA	150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,747.45	96.27
		For Bolt-On, Add	255.74	
		For Installation In New Panelboard, Deduct	-53.29	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.95	
26 28 16 13-0084	EA	250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	2,065.88	111.40
		For Bolt-On, Add	301.56	
		For Installation In New Panelboard, Deduct	-61.89	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.27	
26 28 16 13-0085	EA	300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	2,237.81	118.27
		For Bolt-On, Add	325.45	
		For Installation In New Panelboard, Deduct	-65.33	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.39	
26 28 16 13-0086 Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On ^(26 28 16 13-0001)				
		Note: Includes connection of electrical wire.		
26 28 16 13-0087	EA	2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	389.38	37.13
		For Bolt-On, Add	63.11	
		For Installation In New Panelboard, Deduct	-20.63	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0088	EA	2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	389.38	37.13
		For Bolt-On, Add	63.11	
		For Installation In New Panelboard, Deduct	-20.63	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0089	EA	2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	712.36	49.51
		For Bolt-On, Add	108.30	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0090	EA	2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,330.85	61.89
		For Bolt-On, Add	190.42	
		For Installation In New Panelboard, Deduct	-34.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0091	EA	2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	2,126.68	77.01
		For Bolt-On, Add	295.92	
		For Installation In New Panelboard, Deduct	-42.98	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.57	
26 28 16 13-0092	EA	2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	2,427.70	80.46
		For Bolt-On, Add	334.75	
		For Installation In New Panelboard, Deduct	-44.70	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.64	
26 28 16 13-0093	EA	2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	2,638.40	92.83
		For Bolt-On, Add	365.90	
		For Installation In New Panelboard, Deduct	-51.57	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.89	
26 28 16 13-0094	EA	3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	644.18	49.51
		For Bolt-On, Add	99.78	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0095	EA	3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	644.18	49.51
		For Bolt-On, Add	99.78	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0096	EA	3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	860.34	61.89
		For Bolt-On, Add	131.61	
		For Installation In New Panelboard, Deduct	-34.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0097	EA	3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,619.75	74.26
		For Bolt-On, Add	231.35	
		For Installation In New Panelboard, Deduct	-41.26	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.51	
26 28 16 13-0098	EA	3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	2,044.47	96.27
		For Bolt-On, Add	292.86	
		For Installation In New Panelboard, Deduct	-53.29	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.95	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0099	EA	3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	3,300.21	111.40
		For Bolt-On, Add	455.85	
		For Installation In New Panelboard, Deduct	-61.89	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.27	
26 28 16 13-0100	EA	3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	3,515.81	118.27
		For Bolt-On, Add	485.20	
		For Installation In New Panelboard, Deduct	-65.33	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.39	
26 28 16 13-0101		Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
		^{16 13-0001)}		
		Note: Includes connection of electrical wire.		
26 28 16 13-0102	EA	1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	200.16	24.76
		For Bolt-On, Add	34.65	
		For Installation In New Panelboard, Deduct	-13.75	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0103	EA	1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	200.16	24.76
		For Bolt-On, Add	34.65	
		For Installation In New Panelboard, Deduct	-13.75	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0104	EA	1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	357.26	30.94
		For Bolt-On, Add	56.69	
		For Installation In New Panelboard, Deduct	-17.19	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 28 16 13-0105	EA	2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	449.87	37.13
		For Bolt-On, Add	70.67	
		For Installation In New Panelboard, Deduct	-20.63	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0106	EA	2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	449.87	37.13
		For Bolt-On, Add	70.67	
		For Installation In New Panelboard, Deduct	-20.63	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0107	EA	2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	837.54	49.51
		For Bolt-On, Add	123.95	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0108	EA	2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,580.89	61.89
		For Bolt-On, Add	221.68	
		For Installation In New Panelboard, Deduct	-34.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0109	EA	2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	3,114.25	77.01
		For Bolt-On, Add	419.36	
		For Installation In New Panelboard, Deduct	-42.98	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.57	
26 28 16 13-0110	EA	3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	753.32	49.51
		For Bolt-On, Add	113.42	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0111	EA	3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	753.32	49.51
		For Bolt-On, Add	113.42	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0112	EA	3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,011.99	61.89
		For Bolt-On, Add	150.57	
		For Installation In New Panelboard, Deduct	-34.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0113	EA	3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,949.33	74.26
		For Bolt-On, Add	272.55	
		For Installation In New Panelboard, Deduct	-41.26	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.51	
26 28 16 13-0114	EA	3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	3,872.30	96.27
		For Bolt-On, Add	521.34	
		For Installation In New Panelboard, Deduct	-53.29	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.95	
26 28 16 13-0115		Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
		^{16 13-0001)}		
		Note: Includes connection of electrical wire.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0116	EA		15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	305.04	24.76
			For Bolt-On, Add	47.76	
			For Installation In New Panelboard, Deduct	-13.75	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0117	EA		35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity	305.04	24.76
			For Bolt-On, Add	47.76	
			For Installation In New Panelboard, Deduct	-13.75	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0118	EA		70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	468.81	30.94
			For Bolt-On, Add	70.63	
			For Installation In New Panelboard, Deduct	-17.19	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 28 16 13-0119	EA		15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	571.22	37.13
			For Bolt-On, Add	85.84	
			For Installation In New Panelboard, Deduct	-20.63	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0120	EA		35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	571.22	37.13
			For Bolt-On, Add	85.84	
			For Installation In New Panelboard, Deduct	-20.63	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0121	EA		70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,098.78	49.51
			For Bolt-On, Add	156.60	
			For Installation In New Panelboard, Deduct	-27.51	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0122	EA		110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,024.12	61.89
			For Bolt-On, Add	277.08	
			For Installation In New Panelboard, Deduct	-34.38	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0123	EA		150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	4,094.93	68.76
			For Bolt-On, Add	538.34	
			For Installation In New Panelboard, Deduct	-37.82	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.38	
26 28 16 13-0124	EA		15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	996.49	49.51
			For Bolt-On, Add	143.81	
			For Installation In New Panelboard, Deduct	-27.51	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0125	EA		35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	996.49	49.51
			For Bolt-On, Add	143.81	
			For Installation In New Panelboard, Deduct	-27.51	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0126	EA		70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,387.68	61.89
			For Bolt-On, Add	197.53	
			For Installation In New Panelboard, Deduct	-34.38	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0127	EA		110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,278.92	74.26
			For Bolt-On, Add	313.75	
			For Installation In New Panelboard, Deduct	-41.26	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.51	
26 28 16 13-0128	EA		150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	5,156.95	96.27
			For Bolt-On, Add	681.92	
			For Installation In New Panelboard, Deduct	-53.29	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.95	
26 28 16 13-0129			Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On ^(26 28 16 13-0001)		
			Note: Includes connection of electrical wire.		
26 28 16 13-0130	EA		15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	124.00	24.76
			For Bolt-On, Add	25.13	
			For Installation In New Panelboard, Deduct	-13.75	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0131	EA		15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	276.94	37.13
			For Bolt-On, Add	49.06	
			For Installation In New Panelboard, Deduct	-20.63	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0132	EA		15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	448.70	49.51
			For Bolt-On, Add	75.34	
			For Installation In New Panelboard, Deduct	-27.51	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0133	EA	15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	287.07	24.76
		For Bolt-On, Add	45.51	
		For Installation In New Panelboard, Deduct	-13.75	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0134	EA	35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	287.07	24.76
		For Bolt-On, Add	45.51	
		For Installation In New Panelboard, Deduct	-13.75	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 28 16 13-0135	EA	70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	571.44	49.51
		For Bolt-On, Add	90.68	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0136	EA	15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	671.17	37.13
		For Bolt-On, Add	98.34	
		For Installation In New Panelboard, Deduct	-20.63	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0137	EA	35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	671.17	37.13
		For Bolt-On, Add	98.34	
		For Installation In New Panelboard, Deduct	-20.63	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.76	
26 28 16 13-0138	EA	70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,324.05	49.51
		For Bolt-On, Add	184.76	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0139	EA	110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	2,274.15	61.89
		For Bolt-On, Add	308.34	
		For Installation In New Panelboard, Deduct	-34.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0140	EA	150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	5,077.32	77.01
		For Bolt-On, Add	664.75	
		For Installation In New Panelboard, Deduct	-42.98	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.57	
26 28 16 13-0141	EA	15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,139.49	49.51
		For Bolt-On, Add	161.69	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0142	EA	35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,139.49	49.51
		For Bolt-On, Add	161.69	
		For Installation In New Panelboard, Deduct	-27.51	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 28 16 13-0143	EA	70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,595.27	61.89
		For Bolt-On, Add	223.48	
		For Installation In New Panelboard, Deduct	-34.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.26	
26 28 16 13-0144	EA	110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	2,460.76	74.26
		For Bolt-On, Add	336.48	
		For Installation In New Panelboard, Deduct	-41.26	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.51	
26 28 16 13-0145	EA	150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	6,313.80	96.27
		For Bolt-On, Add	826.53	
		For Installation In New Panelboard, Deduct	-53.29	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.95	

26 28 16 16 Enclosed Switches (26 28 16)

26 28 16 16-0001	Motor And Circuit Disconnects (26 28 16 16)			
	Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.			
26 28 16 16-0002	NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)			
26 28 16 16-0003	Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)			
	Note: Includes fuses and neutral bar.			
26 28 16 16-0004	240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)			
26 28 16 16-0005	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	507.60	137.53
26 28 16 16-0006	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	796.54	165.72
26 28 16 16-0007	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,093.96	193.91

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0008	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,883.67	305.30
26 28 16 16-0009	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,001.42	474.46
26 28 16 16-0010	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,679.82	701.39
26 28 16 16-0011	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,109.44	825.16
26 28 16 16-0012	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,226.92	962.69
26 28 16 16-0013 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)				
26 28 16 16-0014	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	771.15	152.79
26 28 16 16-0015	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	930.39	184.15
26 28 16 16-0016	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,477.74	215.23
26 28 16 16-0017	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,185.42	339.69
26 28 16 16-0018	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,763.43	527.00
26 28 16 16-0019	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,424.59	778.95
26 28 16 16-0020	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,973.57	916.34
26 28 16 16-0021	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,987.73	1,069.68
26 28 16 16-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)				
26 28 16 16-0023	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	722.62	215.92
26 28 16 16-0024	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,064.03	286.74
26 28 16 16-0025	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,430.97	318.37
26 28 16 16-0026	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,263.46	498.53
26 28 16 16-0027	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,696.15	818.28
26 28 16 16-0028	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,633.59	1,146.28
26 28 16 16-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)				
26 28 16 16-0030	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	943.05	238.60
26 28 16 16-0031	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,198.98	318.37
26 28 16 16-0032	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,763.72	358.26
26 28 16 16-0033	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,597.43	545.98
26 28 16 16-0034	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,776.21	881.55
26 28 16 16-0035	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,291.30	1,273.49
26 28 16 16-0036	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,771.27	1,512.79
26 28 16 16-0037	EA	1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	18,876.24	1,719.08
26 28 16 16-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)				
26 28 16 16-0039	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	700.29	215.92
26 28 16 16-0040	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,035.16	286.74
26 28 16 16-0041	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,378.46	318.37
26 28 16 16-0042	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,335.68	498.53
26 28 16 16-0043	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,103.12	818.28
26 28 16 16-0044	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,245.85	1,146.28



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0045	EA	800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,635.96	1,444.02	
26 28 16 16-0046	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	16,810.37	1,650.32	
26 28 16 16-0047		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)			
26 28 16 16-0048	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,024.99	238.60	
26 28 16 16-0049	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,299.68	318.37	
26 28 16 16-0050	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,910.97	358.26	
26 28 16 16-0051	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,817.85	545.98	
26 28 16 16-0052	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,246.49	881.55	
26 28 16 16-0053	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,121.88	1,273.49	
26 28 16 16-0054	EA	800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	16,150.23	1,512.79	
26 28 16 16-0055	EA	1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	20,365.81	1,719.08	
26 28 16 16-0056		Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)			
26 28 16 16-0057		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)			
26 28 16 16-0058	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	493.48	199.00	
26 28 16 16-0059	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	765.86	276.84	
26 28 16 16-0060	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,054.18	318.37	
26 28 16 16-0061	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,651.65	509.40	
26 28 16 16-0062	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,328.58	848.95	
26 28 16 16-0063	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,437.56	1,157.70	
26 28 16 16-0064	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,762.65	1,375.27	
26 28 16 16-0065	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,246.05	1,605.07	
26 28 16 16-0066		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)			
26 28 16 16-0067	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	545.06	219.63	
26 28 16 16-0068	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	867.25	310.68	
26 28 16 16-0069	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,191.37	353.72	
26 28 16 16-0070	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,849.19	553.68	
26 28 16 16-0071	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,581.29	909.60	
26 28 16 16-0072	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,014.05	1,273.36	
26 28 16 16-0073	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,605.59	1,375.27	
26 28 16 16-0074	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,400.43	1,605.07	
26 28 16 16-0075		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)			
26 28 16 16-0076	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	576.56	178.79	
26 28 16 16-0077	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	881.44	248.92	
26 28 16 16-0078	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,187.09	286.74	
26 28 16 16-0079	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,865.40	458.65	
26 28 16 16-0080	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,728.45	763.96	
26 28 16 16-0081	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,002.72	1,041.76	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0082	EA	800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,307.03	1,237.74
26 28 16 16-0083	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	13,424.32	1,444.02
26 28 16 16-0084		480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0085	EA	30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	629.12	197.35
26 28 16 16-0086	EA	60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	969.56	279.87
26 28 16 16-0087	EA	100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,294.62	318.37
26 28 16 16-0088	EA	200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,012.87	498.53
26 28 16 16-0089	EA	400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,994.75	818.28
26 28 16 16-0090	EA	600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,491.03	1,146.28
26 28 16 16-0091	EA	800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,864.64	1,237.74
26 28 16 16-0092		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0093	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	670.70	197.62
26 28 16 16-0094	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,040.48	279.59
26 28 16 16-0095	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,409.94	318.37
26 28 16 16-0096	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,190.50	498.26
26 28 16 16-0097	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,243.23	818.55
26 28 16 16-0098	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,226.41	1,146.01
26 28 16 16-0099	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	11,704.21	1,237.74
26 28 16 16-0100	EA	1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	15,305.16	1,444.02
26 28 16 16-0101		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0102	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	975.94	179.06
26 28 16 16-0103	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,180.98	249.20
26 28 16 16-0104	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,804.89	286.47
26 28 16 16-0105	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,710.35	458.37
26 28 16 16-0106		480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0107	EA	30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,057.14	197.35
26 28 16 16-0108	EA	60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,290.54	279.87
26 28 16 16-0109	EA	100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,956.57	318.37
26 28 16 16-0110	EA	200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,918.20	498.53
26 28 16 16-0111		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0112	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,172.88	197.62
26 28 16 16-0113	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,418.20	279.59
26 28 16 16-0114	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,186.14	318.37
26 28 16 16-0115	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,252.61	498.26



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0116		General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002) Note: Includes fuses and neutral bar.		
26 28 16 16-0117		240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0116)		
26 28 16 16-0118	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	353.68	119.64
26 28 16 16-0119	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	480.94	143.99
26 28 16 16-0120	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	736.64	168.33
26 28 16 16-0121	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,360.78	265.57
26 28 16 16-0122	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,223.44	411.89
26 28 16 16-0123	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,018.69	609.66
26 28 16 16-0124		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0116)		
26 28 16 16-0125	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	490.09	188.00
26 28 16 16-0126	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	690.84	249.20
26 28 16 16-0127	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	953.62	276.84
26 28 16 16-0128	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,697.69	433.34
26 28 16 16-0129	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,826.35	711.84
26 28 16 16-0130	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,798.50	996.52
26 28 16 16-0131		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0116)		
26 28 16 16-0132	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	544.09	188.00
26 28 16 16-0133	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	777.90	249.20
26 28 16 16-0134	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,032.84	276.84
26 28 16 16-0135	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,897.28	433.34
26 28 16 16-0136	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,167.52	711.84
26 28 16 16-0137	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,014.76	996.52
26 28 16 16-0138		General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)		
26 28 16 16-0139		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0138)		
26 28 16 16-0140	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	483.43	166.40
26 28 16 16-0141	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	641.65	191.30
26 28 16 16-0142	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,441.64	305.73
26 28 16 16-0143	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,083.11	508.85
26 28 16 16-0144	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,326.05	693.41
26 28 16 16-0145		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0138)		
26 28 16 16-0146	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	456.61	155.68
26 28 16 16-0147	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	625.85	216.60
26 28 16 16-0148	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	947.12	249.20
26 28 16 16-0149	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,628.34	398.69
26 28 16 16-0150	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,395.46	664.52

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0151	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,753.22	905.74	
26 28 16 16-0152		NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0001)			
26 28 16 16-0153		Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0152)			
		Note: With fuses, neutral bar, and hub if required.			
26 28 16 16-0154		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)			
26 28 16 16-0155	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	743.04	161.59	
26 28 16 16-0156	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,178.21	193.91	
26 28 16 16-0157	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,471.55	225.54	
26 28 16 16-0158	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,154.82	343.82	
26 28 16 16-0159	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,748.77	550.10	
26 28 16 16-0160	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,308.84	733.70	
26 28 16 16-0161	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,440.88	825.16	
26 28 16 16-0162	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,477.46	962.69	
26 28 16 16-0163		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)			
26 28 16 16-0164	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,275.01	215.37	
26 28 16 16-0165	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,518.72	264.05	
26 28 16 16-0166	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,151.26	303.25	
26 28 16 16-0167	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,032.66	454.80	
26 28 16 16-0168	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,584.71	744.16	
26 28 16 16-0169	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,088.28	1,023.33	
26 28 16 16-0170	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,753.07	1,178.33	
26 28 16 16-0171	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	19,558.48	1,326.44	
26 28 16 16-0172		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)			
26 28 16 16-0173	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	950.79	254.43	
26 28 16 16-0174	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,505.15	336.94	
26 28 16 16-0175	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,811.88	369.95	
26 28 16 16-0176	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,688.10	572.80	
26 28 16 16-0177	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,796.11	955.12	
26 28 16 16-0178	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,649.25	1,273.49	
26 28 16 16-0179		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)			
26 28 16 16-0180	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,449.96	301.60	
26 28 16 16-0181	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,730.60	369.67	
26 28 16 16-0182	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,312.73	424.41	
26 28 16 16-0183	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,360.82	636.75	
26 28 16 16-0184	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,059.41	1,041.90	
26 28 16 16-0185	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,724.57	1,432.61	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0186	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,990.00	1,650.32
26 28 16 16-0187	EA	1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	21,527.70	1,856.61
26 28 16 16-0188		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0189	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,042.36	254.43
26 28 16 16-0190	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,507.80	336.94
26 28 16 16-0191	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,940.63	369.95
26 28 16 16-0192	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,773.97	572.80
26 28 16 16-0193	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,874.89	955.12
26 28 16 16-0194	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,515.73	1,273.49
26 28 16 16-0195	EA	800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,510.89	1,444.02
26 28 16 16-0196	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	21,818.77	1,650.32
26 28 16 16-0197		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0198	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,502.50	301.87
26 28 16 16-0199	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,789.66	369.95
26 28 16 16-0200	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,444.01	424.27
26 28 16 16-0201	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,446.15	636.75
26 28 16 16-0202	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,367.93	1,041.76
26 28 16 16-0203	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,079.03	1,432.34
26 28 16 16-0204	EA	800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	19,106.17	1,650.32
26 28 16 16-0205	EA	1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	22,998.96	1,856.61
26 28 16 16-0206		Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0207		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0208	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	704.74	141.52
26 28 16 16-0209	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,148.79	195.97
26 28 16 16-0210	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,508.66	224.72
26 28 16 16-0211	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,010.81	363.90
26 28 16 16-0212	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,465.89	607.04
26 28 16 16-0213	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,127.92	809.35
26 28 16 16-0214	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,058.27	963.10
26 28 16 16-0215	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,229.43	1,100.62
26 28 16 16-0216		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0217	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	793.28	155.95
26 28 16 16-0218	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,301.67	218.26
26 28 16 16-0219	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,703.14	246.45
26 28 16 16-0220	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,230.53	382.04
26 28 16 16-0221	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,065.55	636.75

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0222	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,774.09	848.95	
26 28 16 16-0223	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,925.30	1,008.90	
26 28 16 16-0224	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	18,366.69	1,146.01	
26 28 16 16-0225		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0206)			
26 28 16 16-0226	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	846.24	212.20	
26 28 16 16-0227	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,344.69	293.89	
26 28 16 16-0228	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,733.37	337.08	
26 28 16 16-0229	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,374.63	545.84	
26 28 16 16-0230	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,138.85	910.42	
26 28 16 16-0231	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,066.41	1,213.67	
26 28 16 16-0232	EA	800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	14,165.59	1,444.02	
26 28 16 16-0233	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	18,740.44	1,650.32	
26 28 16 16-0234		480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0206)			
26 28 16 16-0235	EA	30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	919.67	233.80	
26 28 16 16-0236	EA	60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,465.94	327.45	
26 28 16 16-0237	EA	100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,874.27	369.67	
26 28 16 16-0238	EA	200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,520.86	573.08	
26 28 16 16-0239	EA	400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,464.87	954.98	
26 28 16 16-0240	EA	600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,659.28	1,273.36	
26 28 16 16-0241	EA	800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,108.38	1,512.79	
26 28 16 16-0242	EA	1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	19,978.55	1,719.08	
26 28 16 16-0243		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0206)			
26 28 16 16-0244	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	501.95	233.80	
26 28 16 16-0245	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,519.97	327.45	
26 28 16 16-0246	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,949.60	369.67	
26 28 16 16-0247	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,612.54	573.08	
26 28 16 16-0248	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,702.25	954.98	
26 28 16 16-0249	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,623.01	1,273.36	
26 28 16 16-0250	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,088.06	1,512.79	
26 28 16 16-0251	EA	1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	19,950.90	1,719.08	
26 28 16 16-0252		General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0152) Note: With fuses, neutral bar, and hub if required.			
26 28 16 16-0253		240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0252)			
26 28 16 16-0254	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	456.78	140.55	
26 28 16 16-0255	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	642.90	168.61	
26 28 16 16-0256	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	844.15	196.11	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0257	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,725.56	298.98
26 28 16 16-0258	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,207.26	478.32
26 28 16 16-0259	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,445.98	638.12
26 28 16 16-0260		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0252)		
26 28 16 16-0261	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	619.34	221.55
26 28 16 16-0262	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	892.33	293.07
26 28 16 16-0263	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,094.44	321.54
26 28 16 16-0264	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,125.32	498.26
26 28 16 16-0265	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,913.90	830.39
26 28 16 16-0266	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,395.24	1,107.64
26 28 16 16-0267		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0252)		
26 28 16 16-0268	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	695.01	221.42
26 28 16 16-0269	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	968.26	293.07
26 28 16 16-0270	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,338.81	321.54
26 28 16 16-0271	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,283.14	498.26
26 28 16 16-0272	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,015.27	830.52
26 28 16 16-0273	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,186.49	1,107.64
26 28 16 16-0274	EA	800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,110.27	1,254.79
26 28 16 16-0275		General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0276		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0277	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	411.98	123.09
26 28 16 16-0278	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	672.54	170.39
26 28 16 16-0279	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	707.81	195.42
26 28 16 16-0280	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,760.99	316.31
26 28 16 16-0281	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,307.09	527.83
26 28 16 16-0282	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,580.73	703.72
26 28 16 16-0283		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0284	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	644.41	184.56
26 28 16 16-0285	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	927.13	255.53
26 28 16 16-0286	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,353.09	293.07
26 28 16 16-0287	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,324.42	474.60
26 28 16 16-0288		NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0001)		
26 28 16 16-0289		Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0288) Note: With fuses and neutral bar (stainless steel).		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0290		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0291	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,957.70	137.53
26 28 16 16-0292	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,351.72	165.72
26 28 16 16-0293	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,790.26	193.64
26 28 16 16-0294	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,627.47	305.59
26 28 16 16-0295	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,465.83	474.19
26 28 16 16-0296	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	19,357.11	701.11
26 28 16 16-0297		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0298	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,483.24	152.79
26 28 16 16-0299	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,762.20	184.01
26 28 16 16-0300	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,179.52	215.09
26 28 16 16-0301	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,322.02	339.69
26 28 16 16-0302	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,986.19	527.28
26 28 16 16-0303	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,055.38	778.95
26 28 16 16-0304		240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0305	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,203.14	216.19
26 28 16 16-0306	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,762.20	286.47
26 28 16 16-0307	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,257.48	318.37
26 28 16 16-0308	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,476.05	498.26
26 28 16 16-0309	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,568.76	818.55
26 28 16 16-0310	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,789.65	1,146.01
26 28 16 16-0311		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0312	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,661.93	238.75
26 28 16 16-0313	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,038.25	318.37
26 28 16 16-0314	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,480.31	358.12
26 28 16 16-0315	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,754.74	545.70
26 28 16 16-0316	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,047.68	881.55
26 28 16 16-0317	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	21,413.22	1,273.36
26 28 16 16-0318		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0319	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,631.30	216.19
26 28 16 16-0320	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,297.44	286.47
26 28 16 16-0321	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,328.50	318.37
26 28 16 16-0322	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,940.61	498.26
26 28 16 16-0323	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,451.21	818.55
26 28 16 16-0324	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	24,750.84	1,146.01



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0325		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0326	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,167.85	238.75
26 28 16 16-0327	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,611.95	318.37
26 28 16 16-0328	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,573.55	358.12
26 28 16 16-0329	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,231.55	545.70
26 28 16 16-0330	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,969.03	881.55
26 28 16 16-0331	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	25,428.41	1,273.36
26 28 16 16-0332		Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0333		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0334	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,878.69	137.53
26 28 16 16-0335	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,288.12	191.30
26 28 16 16-0336	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,298.94	220.04
26 28 16 16-0337	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,967.31	351.51
26 28 16 16-0338	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,860.63	585.31
26 28 16 16-0339	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,552.63	797.37
26 28 16 16-0340		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0341	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,136.24	151.70
26 28 16 16-0342	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,606.59	214.54
26 28 16 16-0343	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,899.09	244.53
26 28 16 16-0344	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,780.45	382.04
26 28 16 16-0345	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,331.84	628.77
26 28 16 16-0346	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,712.37	880.16
26 28 16 16-0347		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0348	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,961.77	179.06
26 28 16 16-0349	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,373.40	249.20
26 28 16 16-0350	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,478.45	286.47
26 28 16 16-0351	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,775.67	458.37
26 28 16 16-0352	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,792.28	764.10
26 28 16 16-0353	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,501.29	1,041.90
26 28 16 16-0354		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0355	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,227.92	197.62
26 28 16 16-0356	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,736.67	279.59
26 28 16 16-0357	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,046.79	318.37
26 28 16 16-0358	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,012.81	498.26

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0359	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,991.52	818.55
26 28 16 16-0360	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,769.32	1,146.01
26 28 16 16-0361		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0362	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,693.75	179.06
26 28 16 16-0363	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,231.95	249.20
26 28 16 16-0364	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,257.19	286.47
26 28 16 16-0365	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,072.00	458.37
26 28 16 16-0366		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0367	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,064.46	197.62
26 28 16 16-0368	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,683.25	279.59
26 28 16 16-0369	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,275.73	318.37
26 28 16 16-0370	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,602.46	498.26
26 28 16 16-0371		Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0288)		
26 28 16 16-0372		600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0371)		
26 28 16 16-0373	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,564.29	238.60
26 28 16 16-0374	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,065.48	318.37
26 28 16 16-0375	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,295.34	358.26
26 28 16 16-0376	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,500.37	545.98
26 28 16 16-0377		600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0371)		
26 28 16 16-0378	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,336.21	197.35
26 28 16 16-0379	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,827.65	279.87
26 28 16 16-0380	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,895.38	318.37
26 28 16 16-0381	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,376.60	498.53
26 28 16 16-0382		Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0288)		
26 28 16 16-0383		600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0382)		
26 28 16 16-0384	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,073.70	238.60
26 28 16 16-0385	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,635.50	318.37
26 28 16 16-0386	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,373.33	358.26
26 28 16 16-0387		600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0382)		
26 28 16 16-0388	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,818.20	197.35
26 28 16 16-0389	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,367.37	279.87
26 28 16 16-0390	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,930.08	318.37



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0391 NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches (26 28 16 16-0001) Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		
26 28 16 16-0392 Heavy-Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches (26 28 16 16-0391) Note: With fuses and neutral bar.		
26 28 16 16-0393 EA 30 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,226.76	275.06
26 28 16 16-0394 EA 60 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,644.61	327.45
26 28 16 16-0395 EA 100 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	4,042.17	369.67
26 28 16 16-0396 EA 200 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	8,565.57	573.08
26 28 16 16-0397 Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0391)		
26 28 16 16-0398 EA 60 Amperes, 240 Volt, 3 Phase, Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,512.74	327.45
26 28 16 16-0399 EA 100 Amperes, 240 Volt, 3 Phase, Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,939.86	369.67
26 28 16 16-0400 EA 200 Amperes, 240 Volt, 3 Phase, Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	5,398.60	573.08
26 28 16 16-0401 NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)		
26 28 16 16-0402 Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0401) Note: With fuses and neutral bar.		
26 28 16 16-0403 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)		
26 28 16 16-0404 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	719.45	137.53
26 28 16 16-0405 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	938.73	165.72
26 28 16 16-0406 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,279.13	193.91
26 28 16 16-0407 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,156.26	305.30
26 28 16 16-0408 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,591.59	474.46
26 28 16 16-0409 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,281.47	701.39
26 28 16 16-0410 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)		
26 28 16 16-0411 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,126.15	152.66
26 28 16 16-0412 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,162.61	184.29
26 28 16 16-0413 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,671.89	215.23
26 28 16 16-0414 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,615.91	339.69
26 28 16 16-0415 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,695.55	526.73
26 28 16 16-0416 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	11,252.07	779.09
26 28 16 16-0417 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)		
26 28 16 16-0418 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,001.29	215.92
26 28 16 16-0419 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,386.29	286.74
26 28 16 16-0420 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,888.42	318.37
26 28 16 16-0421 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,808.22	498.53
26 28 16 16-0422 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,503.53	818.28
26 28 16 16-0423 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,826.18	1,146.28
26 28 16 16-0424 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)		
26 28 16 16-0425 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,330.88	238.60
26 28 16 16-0426 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,509.74	318.37
26 28 16 16-0427 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,219.48	358.26

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0428	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,231.42	545.98	
26 28 16 16-0429	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,758.51	881.55	
26 28 16 16-0430	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	12,695.06	1,273.49	
26 28 16 16-0431		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)			
26 28 16 16-0432	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,069.21	215.92	
26 28 16 16-0433	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,432.95	286.74	
26 28 16 16-0434	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,034.88	318.37	
26 28 16 16-0435	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,992.10	498.53	
26 28 16 16-0436	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,995.87	818.28	
26 28 16 16-0437	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	9,158.79	1,146.28	
26 28 16 16-0438		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)			
26 28 16 16-0439	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,409.63	238.60	
26 28 16 16-0440	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,719.80	318.37	
26 28 16 16-0441	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,363.92	358.26	
26 28 16 16-0442	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,507.10	545.98	
26 28 16 16-0443	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,204.87	881.55	
26 28 16 16-0444	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	13,062.64	1,273.49	
26 28 16 16-0445		Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0401)			
26 28 16 16-0446		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)			
26 28 16 16-0447	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	752.51	198.73	
26 28 16 16-0448	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	998.32	277.12	
26 28 16 16-0449	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,322.23	318.37	
26 28 16 16-0450	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,887.47	509.53	
26 28 16 16-0451	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,142.66	849.22	
26 28 16 16-0452	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,554.24	1,157.98	
26 28 16 16-0453		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)			
26 28 16 16-0454	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	838.70	219.36	
26 28 16 16-0455	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,109.65	310.81	
26 28 16 16-0456	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,473.65	353.44	
26 28 16 16-0457	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,050.78	553.55	
26 28 16 16-0458	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,386.85	909.74	
26 28 16 16-0459	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,241.56	1,273.49	
26 28 16 16-0460		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)			
26 28 16 16-0461	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	969.20	178.79	
26 28 16 16-0462	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,275.45	248.92	



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Low-Voltage Circuit Protective Devices			26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0463 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,697.26	286.74
26 28 16 16-0464 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,423.74	458.65
26 28 16 16-0465 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,101.00	763.96
26 28 16 16-0466 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,046.02	1,041.76
26 28 16 16-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0468 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	949.22	197.35
26 28 16 16-0469 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,379.58	279.87
26 28 16 16-0470 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,818.26	318.37
26 28 16 16-0471 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,394.75	498.53
26 28 16 16-0472 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,122.83	818.28
26 28 16 16-0473 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	9,578.40	1,146.28
26 28 16 16-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0475 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,163.52	178.79
26 28 16 16-0476 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,385.96	248.92
26 28 16 16-0477 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,149.99	286.74
26 28 16 16-0478 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,409.42	458.65
26 28 16 16-0479 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,161.53	584.49
26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0481 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,209.16	197.35
26 28 16 16-0482 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,510.87	279.87
26 28 16 16-0483 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,297.45	318.37
26 28 16 16-0484 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,504.09	498.53
26 28 16 16-0485 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,558.39	770.15
26 28 16 16-0486 Double Throw Safety Switches (26 28 16 16-0001)		
26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0489 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	903.32	176.72
26 28 16 16-0490 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,332.88	231.04
26 28 16 16-0491 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,868.45	301.87
26 28 16 16-0492 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,491.07	392.63
26 28 16 16-0493 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,987.68	490.97
26 28 16 16-0494 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,888.01	787.33
26 28 16 16-0495 EA 800 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,500.24	1,100.21
26 28 16 16-0496 EA 1,000 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	18,402.43	1,237.74
26 28 16 16-0497 EA 1,200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	21,679.19	1,375.27
26 28 16 16-0498 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0499 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,141.10	247.55
26 28 16 16-0500 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,591.72	323.19
26 28 16 16-0501 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,392.74	422.89
26 28 16 16-0502 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,510.02	550.10
26 28 16 16-0503 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,251.49	687.63
26 28 16 16-0504 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,521.37	1,100.21

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0505 EA 800 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	13,484.59	1,237.74
26 28 16 16-0506 EA 1,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,266.77	1,375.27
26 28 16 16-0507 EA 1,200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	22,836.78	1,512.79
26 28 16 16-0508 EA 1,600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	26,453.65	1,787.84
26 28 16 16-0509 EA 2,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	30,110.18	2,062.90
26 28 16 16-0510 EA 2,600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	40,978.16	2,337.94
26 28 16 16-0511 EA 3,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	45,011.45	2,613.00
26 28 16 16-0512 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0513 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,515.23	309.43
26 28 16 16-0514 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,202.12	404.33
26 28 16 16-0515 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,898.58	528.10
26 28 16 16-0516 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,338.51	686.26
26 28 16 16-0517 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,732.85	859.54
26 28 16 16-0518 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	13,593.66	1,377.32
26 28 16 16-0519 EA 800 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	17,193.01	1,512.79
26 28 16 16-0520 EA 1,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	22,849.77	1,581.55
26 28 16 16-0521 EA 1,200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	25,623.82	1,650.32
26 28 16 16-0522 EA 1,600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	31,271.08	1,925.37
26 28 16 16-0523 EA 2,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	35,981.52	2,200.43
26 28 16 16-0524 EA 2,600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	51,078.37	2,475.47
26 28 16 16-0525 EA 3,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	56,476.50	2,750.53
26 28 16 16-0526 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0527 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,537.63	231.04
26 28 16 16-0528 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,309.88	301.87
26 28 16 16-0529 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,402.31	392.63
26 28 16 16-0530 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,002.20	490.97
26 28 16 16-0531 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,831.39	787.33
26 28 16 16-0532 EA 800 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	13,530.27	1,100.21
26 28 16 16-0533 EA 1,000 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,995.12	1,237.74
26 28 16 16-0534 EA 1,200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	23,572.07	1,375.27
26 28 16 16-0535 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0536 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,721.71	323.19
26 28 16 16-0537 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,551.22	422.89
26 28 16 16-0538 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,715.91	550.10
26 28 16 16-0539 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,395.21	687.63
26 28 16 16-0540 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,459.06	1,100.21
26 28 16 16-0541 EA 800 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	14,585.50	1,237.74
26 28 16 16-0542 EA 1,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,053.25	1,375.27
26 28 16 16-0543 EA 1,200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	24,817.91	1,512.79
26 28 16 16-0544 EA 1,600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	29,999.73	1,787.84
26 28 16 16-0545 EA 2,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	34,137.76	2,062.90
26 28 16 16-0546 EA 2,600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	40,978.10	2,337.94
26 28 16 16-0547 EA 3,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	48,989.99	2,613.00
26 28 16 16-0548 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0549 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,330.27	404.33
26 28 16 16-0550 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,083.94	528.10
26 28 16 16-0551 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,721.43	686.26
26 28 16 16-0552 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,549.03	859.54
26 28 16 16-0553 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	14,507.67	1,377.32



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Low-Voltage Circuit Protective Devices			26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0554 EA 800 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	18,609.75	1,512.79
26 28 16 16-0555 EA 1,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	24,818.44	1,581.55
26 28 16 16-0556 EA 1,200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	27,856.13	1,650.32
26 28 16 16-0557 EA 1,600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	34,013.11	1,925.37
26 28 16 16-0558 EA 2,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	39,139.58	2,200.43
26 28 16 16-0559 EA 2,600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	55,691.12	2,475.47
26 28 16 16-0560 EA 3,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	61,574.05	2,750.53
26 28 16 16-0561 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0562 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0561)		
26 28 16 16-0563 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,332.58	301.87
26 28 16 16-0564 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	5,339.86	392.63
26 28 16 16-0565 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	17,463.67	490.97
26 28 16 16-0566 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	30,076.01	787.33
26 28 16 16-0567 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0561)		
26 28 16 16-0568 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,058.30	422.20
26 28 16 16-0569 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,933.27	549.42
26 28 16 16-0570 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	18,011.98	687.63
26 28 16 16-0571 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	19,586.32	1,102.28
26 28 16 16-0572 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0561)		
26 28 16 16-0573 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,944.47	309.57
26 28 16 16-0574 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,651.96	404.06
26 28 16 16-0575 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	5,119.68	527.97
26 28 16 16-0576 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,401.20	686.53
26 28 16 16-0577 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	12,556.92	859.54
26 28 16 16-0578 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	14,660.51	1,377.46
26 28 16 16-0579 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0561)		
26 28 16 16-0580 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,977.49	231.04
26 28 16 16-0581 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,008.21	301.87
26 28 16 16-0582 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	5,471.04	392.63
26 28 16 16-0583 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	10,518.44	490.97
26 28 16 16-0584 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	14,060.87	787.33
26 28 16 16-0585 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0561)		
26 28 16 16-0586 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,242.24	323.19
26 28 16 16-0587 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,376.39	422.20
26 28 16 16-0588 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,590.21	549.42
26 28 16 16-0589 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	11,413.40	687.63
26 28 16 16-0590 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	15,344.87	1,102.28
26 28 16 16-0591 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0561)		
26 28 16 16-0592 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,681.63	404.06
26 28 16 16-0593 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	5,133.28	527.97
26 28 16 16-0594 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,590.21	686.53
26 28 16 16-0595 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	12,534.60	859.54
26 28 16 16-0596 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	14,783.52	1,377.46
26 28 16 16-0597 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0598 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0597)		
26 28 16 16-0599 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,354.05	176.85
26 28 16 16-0600 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,667.52	230.91
26 28 16 16-0601 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,019.71	301.74
26 28 16 16-0602 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,150.53	392.36
26 28 16 16-0603 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,747.13	491.11

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0604	EA	600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	11,363.49		787.06
26 28 16 16-0605		240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0597)			
26 28 16 16-0606	EA	30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,706.62		247.55
26 28 16 16-0607	EA	60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,202.45		323.19
26 28 16 16-0608	EA	100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,801.68		422.20
26 28 16 16-0609	EA	200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,299.09		549.42
26 28 16 16-0610	EA	400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,648.15		687.63
26 28 16 16-0611	EA	600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	12,755.47		1,102.28
26 28 16 16-0612		240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0597)			
26 28 16 16-0613	EA	30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,041.82		309.57
26 28 16 16-0614	EA	60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,730.32		404.06
26 28 16 16-0615	EA	100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,484.58		527.97
26 28 16 16-0616	EA	200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,808.01		686.53
26 28 16 16-0617	EA	400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	16,291.64		859.54
26 28 16 16-0618	EA	600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	20,252.25		1,377.46
26 28 16 16-0619		600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0597)			
26 28 16 16-0620	EA	60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,516.76		230.91
26 28 16 16-0621	EA	100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,699.99		301.74
26 28 16 16-0622	EA	200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,009.05		392.36
26 28 16 16-0623	EA	400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	10,112.09		491.11
26 28 16 16-0624	EA	600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	13,582.11		787.06
26 28 16 16-0625		600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0597)			
26 28 16 16-0626	EA	60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,862.24		323.19
26 28 16 16-0627	EA	100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,104.46		422.20
26 28 16 16-0628	EA	200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,649.93		549.42
26 28 16 16-0629	EA	400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	10,985.27		687.63
26 28 16 16-0630	EA	600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	14,840.40		1,102.28
26 28 16 16-0631		600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0597)			
26 28 16 16-0632	EA	60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,778.70		404.06
26 28 16 16-0633	EA	100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,841.46		527.97
26 28 16 16-0634	EA	200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,018.36		686.53
26 28 16 16-0635	EA	400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	16,744.42		859.54
26 28 16 16-0636	EA	600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	20,852.40		1,377.46
26 28 16 16-0637		Removal And Reinstallation Of Disconnect (Safety) Switches (26 28 16 16-0001)			
		Note: Includes storage and cleaning.			
26 28 16 16-0638	EA	Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch	687.63		
26 28 16 16-0639	EA	Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch	893.96		
26 28 16 16-0640	EA	Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch	997.14		
26 28 16 16-0641	EA	Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch	1,169.05		
26 28 16 16-0642		Bolted Contact Switches (26 28 16 16)			
		Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.			
26 28 16 16-0643		Electrical Trip, Bolted Contact Switches (26 28 16 16-0642)			
26 28 16 16-0644		Top Feed, Electrical Trip, Bolted Contact Switches (26 28 16 16-0643)			
26 28 16 16-0645	EA	800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480)	10,844.65		1,375.27
26 28 16 16-0646	EA	1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480)	11,742.02		1,650.32
26 28 16 16-0647	EA	1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480)	12,779.65		1,925.37
26 28 16 16-0648	EA	2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480)	13,496.70		2,200.43
26 28 16 16-0649	EA	2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480)	15,242.24		2,475.47
26 28 16 16-0650	EA	3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480)	19,111.47		2,750.53
26 28 16 16-0651	EA	4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480)	25,754.68		3,300.63
26 28 16 16-0652		Bottom Feed, Electrical Trip, Bolted Contact Switches (26 28 16 16-0643)			
26 28 16 16-0653	EA	800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480)	11,492.44		1,375.27
26 28 16 16-0654	EA	1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480)	12,516.70		1,650.32
26 28 16 16-0655	EA	1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480)	13,547.65		1,925.37
26 28 16 16-0656	EA	2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480)	14,598.63		2,200.43



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0657 EA 2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480)	16,430.98	2,475.47
26 28 16 16-0658 EA 3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480)	21,342.02	2,750.53
26 28 16 16-0659 EA 4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480)	28,078.73	3,300.63
26 28 16 16-0660 Manually Operated, Bolted Contact Switches (26 28 16 16-0642)		
26 28 16 16-0661 Top Feed, Manually Operated, Bolted Contact Switches (26 28 16 16-0660)		
26 28 16 16-0662 EA 800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480)	7,932.90	1,375.27
26 28 16 16-0663 EA 1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480)	8,865.00	1,650.32
26 28 16 16-0664 EA 1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480)	9,851.87	1,925.37
26 28 16 16-0665 EA 2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480)	10,830.72	2,200.43
26 28 16 16-0666 EA 2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480)	11,876.37	2,475.47
26 28 16 16-0667 EA 3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480)	15,745.60	2,750.53
26 28 16 16-0668 EA 4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480)	22,308.67	3,300.63
26 28 16 16-0669 Bottom Feed, Manually Operated, Bolted Contact Switches (26 28 16 16-0660)		
26 28 16 16-0670 EA 800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480)	8,361.65	1,375.27
26 28 16 16-0671 EA 1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480)	9,512.80	1,650.32
26 28 16 16-0672 EA 1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480)	10,479.64	1,925.37
26 28 16 16-0673 EA 2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480)	11,660.17	2,200.43
26 28 16 16-0674 EA 2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480)	12,918.19	2,475.47
26 28 16 16-0675 EA 3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480)	17,809.19	2,750.53
26 28 16 16-0676 EA 4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480)	24,472.44	3,300.63
26 29 Low-Voltage Controllers (26 20)		
26 29 13 Enclosed Controllers (26 29)		
26 29 13 13 Across-The-Line Motor Controllers (26 29 13)		
26 29 13 13-0001 Manual Motor Starters (26 29 13 13)		
26 29 13 13-0002 Fractional HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0003 EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1)	258.84	68.86
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.36	
For Oversized Enclosure, Add	33.80	
For Pilot Light, Add	49.57	
26 29 13 13-0004 EA NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2)	339.04	89.52
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.36	
For Oversized Enclosure, Add	33.80	
For Pilot Light, Add	49.57	
26 29 13 13-0005 EA NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3)	292.64	68.86
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.36	
For Oversized Enclosure, Add	33.80	
For Pilot Light, Add	49.57	
26 29 13 13-0006 EA NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4)	372.84	89.52
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.36	
For Oversized Enclosure, Add	33.80	
For Pilot Light, Add	49.57	
26 29 13 13-0007 EA NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5)	273.49	68.86
For Oversized Enclosure, Add	33.80	
26 29 13 13-0008 EA NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6)	358.19	89.52
For Oversized Enclosure, Add	33.80	
26 29 13 13-0009 EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1)	550.00	82.64
For Pilot Light, Add	129.55	
26 29 13 13-0010 EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2)	633.57	103.29
For Pilot Light, Add	129.55	
26 29 13 13-0011 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1)	583.79	82.64
26 29 13 13-0012 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2)	663.99	103.29
26 29 13 13-0013 Non-Reversing Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0014 EA NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1)	209.47	68.86
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	16.31	
For Pilot Light, Add	78.27	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0015	EA	NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	341.02	89.52
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add	16.31	
		For Pilot Light, Add	78.27	
26 29 13 13-0016	EA	NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	236.28	75.75
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add	16.31	
		For Pilot Light, Add	78.27	
26 29 13 13-0017	EA	NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	368.91	96.41
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add	16.31	
		For Pilot Light, Add	78.27	
26 29 13 13-0018	EA	NEMA 1, Non-Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3)	241.00	68.86
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add	16.31	
		For Pilot Light, Add	78.27	
26 29 13 13-0019	EA	NEMA 1, Non-Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	373.63	89.52
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add	16.31	
		For Pilot Light, Add	78.27	
26 29 13 13-0020	EA	NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	506.59	82.64
		For Pilot Light, Add	123.92	
26 29 13 13-0021	EA	NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	626.18	103.29
		For Pilot Light, Add	123.92	
26 29 13 13-0022	EA	NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	534.51	89.52
		For Pilot Light, Add	123.92	
26 29 13 13-0023	EA	NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	650.82	110.18
		For Pilot Light, Add	123.92	
26 29 13 13-0024	EA	NEMA 3R, 7 And 9, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	537.03	82.64
26 29 13 13-0025	EA	NEMA 3R, 7 And 9, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	665.31	103.29
26 29 13 13-0026	EA	Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	152.93	48.20
		For Pilot Light, Add	78.27	
26 29 13 13-0027	EA	Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	284.48	68.86
		For Pilot Light, Add	78.27	
26 29 13 13-0028	EA	Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	179.75	55.09
		For Pilot Light, Add	78.27	
26 29 13 13-0029	EA	Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	311.28	75.75
		For Pilot Light, Add	78.27	
26 29 13 13-0030		Reversing Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0031	EA	NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11)	559.88	123.95
		For Pilot Light, Add	126.09	
26 29 13 13-0032	EA	NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22)	809.92	165.27
		For Pilot Light, Add	126.09	
26 29 13 13-0033		Two Speed Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0034	EA	NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11)	559.88	123.95
26 29 13 13-0035	EA	NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	809.92	165.27
26 29 13 13-0036		Non-Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0037	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1)	511.14	82.64
26 29 13 13-0038	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1).....	511.14	82.64
26 29 13 13-0039	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11).....	1,052.39	96.41
26 29 13 13-0040	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	1,052.39	96.41
26 29 13 13-0041	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1).....	1,372.33	96.41
26 29 13 13-0042	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	650.21	96.41



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Controllers	26 29	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0043	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1).....	436.02	61.98
26 29 13 13-0044	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	606.03	89.52
26 29 13 13-0045	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	606.03	89.52
26 29 13 13-0046	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,258.81	103.29
26 29 13 13-0047	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	1,258.81	103.29
26 29 13 13-0048	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,603.53	103.29
26 29 13 13-0049	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	745.10	103.29
26 29 13 13-0050	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	530.91	68.86
26 29 13 13-0051	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	794.41	96.41
26 29 13 13-0052	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	794.41	96.41
26 29 13 13-0053	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12).....	1,495.63	110.18
26 29 13 13-0054	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	1,495.63	110.18
26 29 13 13-0055	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2).....	1,825.71	110.18
26 29 13 13-0056	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	936.86	110.18
26 29 13 13-0057	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	722.67	75.75
26 29 13 13-0058	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2).....	633.02	103.29
26 29 13 13-0059	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2).....	633.02	103.29
26 29 13 13-0060	EA	NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	1,174.26	117.07
26 29 13 13-0061	EA	NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	1,174.26	117.07
26 29 13 13-0062	EA	NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	1,503.22	117.07
26 29 13 13-0063	EA	Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	773.21	117.07
26 29 13 13-0064	EA	Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2).....	561.28	82.64
26 29 13 13-0065	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	727.90	110.18
26 29 13 13-0066	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	727.90	110.18
26 29 13 13-0067	EA	NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13).....	1,380.68	123.95
26 29 13 13-0068	EA	NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	1,380.68	123.95
26 29 13 13-0069	EA	NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	1,733.29	123.95
26 29 13 13-0070	EA	Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3).....	866.98	123.95
26 29 13 13-0071	EA	Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	652.79	89.52
26 29 13 13-0072		Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0073	EA	NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1).....	1,470.44	144.61
26 29 13 13-0074	EA	NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1).....	1,470.44	144.61
26 29 13 13-0075	EA	Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1).....	1,292.05	103.29
26 29 13 13-0076	EA	NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	1,737.93	158.39
26 29 13 13-0077	EA	Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....	1,559.54	117.07
26 29 13 13-0078		Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0079	EA	NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	1,470.44	144.61
26 29 13 13-0080	EA	Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....	1,292.05	103.29
26 29 13 13-0081	EA	NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,737.93	158.39
26 29 13 13-0082	EA	Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,559.54	117.07

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0083	Magnetic Motor Starters (26 29 13 13)			
26 29 13 13-0084	Non-Reversing, Magnetic Contactors (26 29 13 13-0083)			
26 29 13 13-0085	Open Enclosure, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)			
26 29 13 13-0086	EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO11).....	598.77	137.73	
	For Factory Installed Accessory, Deduct	-275.45		
26 29 13 13-0087	EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO12).....	673.63	151.49	
	For Factory Installed Accessory, Deduct	-303.00		
26 29 13 13-0088	EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO5).....	646.08	137.73	
	For Factory Installed Accessory, Deduct	-275.45		
26 29 13 13-0089	EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO1).....	722.08	151.49	
	For Factory Installed Accessory, Deduct	-303.00		
26 29 13 13-0090	EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO2).....	796.93	165.27	
	For Factory Installed Accessory, Deduct	-330.54		
26 29 13 13-0091	EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO3).....	1,006.87	206.59	
	For Factory Installed Accessory, Deduct	-413.18		
26 29 13 13-0092	EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO4).....	1,266.37	247.91	
	For Factory Installed Accessory, Deduct	-495.81		
26 29 13 13-0093	EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO5).....	752.49	151.49	
	For Factory Installed Accessory, Deduct	-303.00		
26 29 13 13-0094	EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO1).....	827.35	165.27	
	For Factory Installed Accessory, Deduct	-330.54		
26 29 13 13-0095	EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO2).....	904.46	179.05	
	For Factory Installed Accessory, Deduct	-358.08		
26 29 13 13-0096	EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO3).....	1,156.83	241.02	
	For Factory Installed Accessory, Deduct	-482.03		
26 29 13 13-0097	EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,415.21	282.34	
	For Factory Installed Accessory, Deduct	-564.67		
26 29 13 13-0098	EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,262.20	165.27	
	For Factory Installed Accessory, Deduct	-330.54		
26 29 13 13-0099	EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,406.80	206.59	
	For Factory Installed Accessory, Deduct	-413.18		
26 29 13 13-0100	EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,834.03	275.45	
	For Factory Installed Accessory, Deduct	-550.89		
26 29 13 13-0101	EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,888.96	206.59	
	For Factory Installed Accessory, Deduct	-413.18		
26 29 13 13-0102	EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO2).....	2,156.22	275.45	
	For Factory Installed Accessory, Deduct	-550.89		
26 29 13 13-0103	EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,742.32	344.31	
	For Factory Installed Accessory, Deduct	-688.62		
26 29 13 13-0104	EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,907.46	413.18	
	For Factory Installed Accessory, Deduct	-826.35		
26 29 13 13-0105	EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO1).....	4,250.76	344.31	
	For Factory Installed Accessory, Deduct	-688.62		
26 29 13 13-0106	EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO2).....	4,678.02	413.18	
	For Factory Installed Accessory, Deduct	-826.35		
26 29 13 13-0107	EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO3).....	6,323.06	482.03	
	For Factory Installed Accessory, Deduct	-964.07		
26 29 13 13-0108	EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO1).....	8,545.46	413.18	
	For Factory Installed Accessory, Deduct	-826.35		
26 29 13 13-0109	EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO2).....	9,495.71	550.89	
	For Factory Installed Accessory, Deduct	-1,101.80		
26 29 13 13-0110	EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHO2).....	24,565.55	826.35	
	For Factory Installed Accessory, Deduct	-1,652.69		
26 29 13 13-0111	EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJO2).....	35,180.48	1,239.52	
	For Factory Installed Accessory, Deduct	-2,479.04		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0112	NEMA 1, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)			
26 29 13 13-0113	EA	Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG11).....	633.69	137.73
		For Factory Installed Accessory, Deduct	-275.45	
26 29 13 13-0114	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG12).....	708.56	151.49
		For Factory Installed Accessory, Deduct	-303.00	
26 29 13 13-0115	EA	Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG5).....	681.01	137.73
		For Factory Installed Accessory, Deduct	-275.45	
26 29 13 13-0116	EA	Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG1).....	758.13	151.49
		For Factory Installed Accessory, Deduct	-303.00	
26 29 13 13-0117	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG2).....	832.98	165.27
		For Factory Installed Accessory, Deduct	-330.54	
26 29 13 13-0118	EA	Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG3).....	1,045.17	206.59
		For Factory Installed Accessory, Deduct	-413.18	
26 29 13 13-0119	EA	Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,305.80	247.91
		For Factory Installed Accessory, Deduct	-495.81	
26 29 13 13-0120	EA	Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG5).....	789.67	151.49
		For Factory Installed Accessory, Deduct	-303.00	
26 29 13 13-0121	EA	Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG1).....	866.78	165.27
		For Factory Installed Accessory, Deduct	-330.54	
26 29 13 13-0122	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG2).....	941.63	179.05
		For Factory Installed Accessory, Deduct	-358.08	
26 29 13 13-0123	EA	Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG3).....	1,195.13	241.02
		For Factory Installed Accessory, Deduct	-482.03	
26 29 13 13-0124	EA	Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG4).....	1,452.39	282.34
		For Factory Installed Accessory, Deduct	-564.67	
26 29 13 13-0125	EA	Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG1).....	1,428.92	165.27
		For Factory Installed Accessory, Deduct	-330.54	
26 29 13 13-0126	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG2).....	1,574.65	206.59
		For Factory Installed Accessory, Deduct	-413.18	
26 29 13 13-0127	EA	Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG3).....	2,000.76	275.45
		For Factory Installed Accessory, Deduct	-550.89	
26 29 13 13-0128	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG1).....	2,216.78	206.59
		For Factory Installed Accessory, Deduct	-413.18	
26 29 13 13-0129	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG2).....	2,482.92	275.45
		For Factory Installed Accessory, Deduct	-550.89	
26 29 13 13-0130	EA	Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG3).....	3,070.14	344.31
		For Factory Installed Accessory, Deduct	-688.62	
26 29 13 13-0131	EA	Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG1).....	4,930.07	344.31
		For Factory Installed Accessory, Deduct	-688.62	
26 29 13 13-0132	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG2).....	5,357.33	413.18
		For Factory Installed Accessory, Deduct	-826.35	
26 29 13 13-0133	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGG2).....	10,733.79	550.89
		For Factory Installed Accessory, Deduct	-1,101.80	
26 29 13 13-0134	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHG2).....	30,010.16	826.35
		For Factory Installed Accessory, Deduct	-1,652.69	
26 29 13 13-0135	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJG2).....	40,640.85	1,239.52
		For Factory Installed Accessory, Deduct	-2,479.04	
26 29 13 13-0136	NEMA 12, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)			
26 29 13 13-0137	EA	Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA1).....	950.77	151.49
		For Factory Installed Accessory, Deduct	-303.00	
26 29 13 13-0138	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA2).....	1,025.62	165.27
		For Factory Installed Accessory, Deduct	-330.54	
26 29 13 13-0139	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCA2).....	1,134.27	179.05
		For Factory Installed Accessory, Deduct	-358.08	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0140	EA		Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA1) 1,780.41	1,780.41	165.27
			<i>For Factory Installed Accessory, Deduct</i> -330.54		
26 29 13 13-0141	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA2) 1,927.26	1,927.26	206.59
			<i>For Factory Installed Accessory, Deduct</i> -413.18		
26 29 13 13-0142	EA		Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA1) 2,633.61	2,633.61	206.59
			<i>For Factory Installed Accessory, Deduct</i> -413.18		
26 29 13 13-0143	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA2) 2,898.62	2,898.62	275.45
			<i>For Factory Installed Accessory, Deduct</i> -550.89		
26 29 13 13-0144	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFA2) 6,737.35	6,737.35	413.18
			<i>For Factory Installed Accessory, Deduct</i> -826.35		
26 29 13 13-0145	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGA2) 14,265.51	14,265.51	550.89
			<i>For Factory Installed Accessory, Deduct</i> -1,101.80		
26 29 13 13-0146	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHA2) 34,340.61	34,340.61	826.35
			<i>For Factory Installed Accessory, Deduct</i> -1,652.69		
26 29 13 13-0147 NEMA 4/4X, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)					
			Note: Brushed stainless steel enclosure.		
26 29 13 13-0148	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBW12) 1,395.13	1,395.13	165.27
			<i>For Factory Installed Accessory, Deduct</i> -330.54		
26 29 13 13-0149	EA		Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW11) 1,444.70	1,444.70	165.27
			<i>For Factory Installed Accessory, Deduct</i> -330.54		
26 29 13 13-0150	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW12) 1,519.55	1,519.55	179.05
			<i>For Factory Installed Accessory, Deduct</i> -358.08		
26 29 13 13-0151	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW13) 1,773.05	1,773.05	241.02
			<i>For Factory Installed Accessory, Deduct</i> -482.03		
26 29 13 13-0152	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDW12) 2,730.49	2,730.49	206.59
			<i>For Factory Installed Accessory, Deduct</i> -413.18		
26 29 13 13-0153	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEW12) 4,118.67	4,118.67	275.45
			<i>For Factory Installed Accessory, Deduct</i> -550.89		
26 29 13 13-0154	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFW12) 8,150.04	8,150.04	413.18
			<i>For Factory Installed Accessory, Deduct</i> -826.35		
26 29 13 13-0155	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGW12) 14,265.51	14,265.51	550.89
			<i>For Factory Installed Accessory, Deduct</i> -1,101.80		
26 29 13 13-0156	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHW2) 38,031.18	38,031.18	826.35
			<i>For Factory Installed Accessory, Deduct</i> -1,652.69		
26 29 13 13-0157 NEMA 7/9, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)					
			Note: Bolted cast iron enclosure.		
26 29 13 13-0158	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBT2) 2,772.67	2,772.67	220.36
			<i>For Factory Installed Accessory, Deduct</i> -440.72		
26 29 13 13-0159 Non-Reversing, Magnetic Starters (26 29 13 13-0083)					
26 29 13 13-0160 Open Enclosure, Non-Reversing, Magnetic Starters (26 29 13 13-0159)					
26 29 13 13-0161	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO11) 710.30	710.30	137.73
			<i>For Factory Installed Accessory, Deduct</i> -275.45		
26 29 13 13-0162	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO12) 737.85	737.85	151.49
			<i>For Factory Installed Accessory, Deduct</i> -303.00		
26 29 13 13-0163	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO1) 793.05	793.05	151.49
			<i>For Factory Installed Accessory, Deduct</i> -303.00		
26 29 13 13-0164	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO2) 876.92	876.92	165.27
			<i>For Factory Installed Accessory, Deduct</i> -330.54		
26 29 13 13-0165	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO4) 1,407.19	1,407.19	247.91
			<i>For Factory Installed Accessory, Deduct</i> -495.81		
26 29 13 13-0166	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO1) 901.70	901.70	165.27
			<i>For Factory Installed Accessory, Deduct</i> -330.54		
26 29 13 13-0167	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO3) 1,056.54	1,056.54	179.05
			<i>For Factory Installed Accessory, Deduct</i> -358.08		



Electrical		26	26
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0168	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO2).....	1,103.85	179.05
			<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0169	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO6).....	1,364.71	165.27
			<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0170	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO1).....	1,552.12	206.59
			<i>For Factory Installed Accessory, Deduct</i>	-413.18	
26 29 13 13-0171	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEO1).....	2,396.18	275.45
			<i>For Factory Installed Accessory, Deduct</i>	-550.89	
26 29 13 13-0172	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFO1).....	5,047.53	413.18
			<i>For Factory Installed Accessory, Deduct</i>	-826.35	
26 29 13 13-0173	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGO1).....	11,411.97	550.89
			<i>For Factory Installed Accessory, Deduct</i>	-1,101.80	
26 29 13 13-0174	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHO2).....	26,161.87	826.35
			<i>For Factory Installed Accessory, Deduct</i>	-1,652.69	
26 29 13 13-0175	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SJO2).....	37,694.93	1,239.52
			<i>For Factory Installed Accessory, Deduct</i>	-2,479.04	
26 29 13 13-0176			NEMA 1, Non-Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0177	EA		Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG11).....	747.47	137.73
			<i>For Factory Installed Accessory, Deduct</i>	-275.45	
26 29 13 13-0178	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG12).....	775.02	151.49
			<i>For Factory Installed Accessory, Deduct</i>	-303.00	
26 29 13 13-0179	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG1).....	830.22	151.49
			<i>For Factory Installed Accessory, Deduct</i>	-303.00	
26 29 13 13-0180	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG2).....	914.09	165.27
			<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0181	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG1).....	937.75	165.27
			<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0182	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG3).....	1,022.74	179.05
			<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0183	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG2).....	1,142.16	179.05
			<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0184	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG6).....	1,532.57	165.27
			<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0185	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG1).....	1,719.98	206.59
			<i>For Factory Installed Accessory, Deduct</i>	-413.18	
26 29 13 13-0186	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEG1).....	2,724.00	275.45
			<i>For Factory Installed Accessory, Deduct</i>	-550.89	
26 29 13 13-0187	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFG1).....	5,726.83	413.18
			<i>For Factory Installed Accessory, Deduct</i>	-826.35	
26 29 13 13-0188	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGG1).....	12,653.42	550.89
			<i>For Factory Installed Accessory, Deduct</i>	-1,101.80	
26 29 13 13-0189			NEMA 12, Non-Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0190	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA1).....	1,022.86	151.49
			<i>For Factory Installed Accessory, Deduct</i>	-303.00	
26 29 13 13-0191	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA2).....	1,106.73	165.27
			<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0192	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA1).....	1,130.39	165.27
			<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0193	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA3).....	1,215.38	179.05
			<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0194	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA2).....	1,334.80	179.05
			<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0195	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA6).....	1,885.18	165.27
			<i>For Factory Installed Accessory, Deduct</i>	-330.54	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0196	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA1).....	2,071.46	206.59
		<i>For Factory Installed Accessory, Deduct</i>	-473.18	
26 29 13 13-0197	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEA1).....	3,139.70	275.45
		<i>For Factory Installed Accessory, Deduct</i>	-550.89	
26 29 13 13-0198	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFA1).....	7,105.73	413.18
		<i>For Factory Installed Accessory, Deduct</i>	-826.35	
26 29 13 13-0199	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGA1).....	16,181.77	550.89
		<i>For Factory Installed Accessory, Deduct</i>	-1,101.80	
26 29 13 13-0200	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHA2).....	38,521.23	826.35
		<i>For Factory Installed Accessory, Deduct</i>	-1,652.69	
26 29 13 13-0201 NEMA 3R, Non-Reversing, Magnetic Starters (26 29 13 13-0159)				
26 29 13 13-0202	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH1).....	1,022.86	151.49
		<i>For Factory Installed Accessory, Deduct</i>	-303.00	
26 29 13 13-0203	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH2).....	1,106.73	165.27
		<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0204	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH1).....	1,130.39	165.27
		<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0205	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH3).....	1,215.38	179.05
		<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0206	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH2).....	1,334.80	179.05
		<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0207	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH6).....	1,885.18	165.27
		<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0208	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH1).....	2,071.46	206.59
		<i>For Factory Installed Accessory, Deduct</i>	-473.18	
26 29 13 13-0209	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEH1).....	3,139.70	275.45
		<i>For Factory Installed Accessory, Deduct</i>	-550.89	
26 29 13 13-0210	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFH1).....	7,105.73	413.18
		<i>For Factory Installed Accessory, Deduct</i>	-826.35	
26 29 13 13-0211 NEMA 3R/4/4X/7/9, Non-Reversing, Magnetic Starters (26 29 13 13-0159)				
		Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT4).....	2,890.34	234.13
		<i>For Factory Installed Accessory, Deduct</i>	-468.26	
26 29 13 13-0213	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR1).....	3,545.99	234.13
		<i>For Factory Installed Accessory, Deduct</i>	-468.26	
26 29 13 13-0214	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR3).....	3,654.65	247.91
		<i>For Factory Installed Accessory, Deduct</i>	-495.81	
26 29 13 13-0215	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDR1).....	5,650.77	275.45
		<i>For Factory Installed Accessory, Deduct</i>	-550.89	
26 29 13 13-0216	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SET43).....	6,815.91	344.31
		<i>For Factory Installed Accessory, Deduct</i>	-688.62	
26 29 13 13-0217	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFT41).....	10,852.91	482.03
		<i>For Factory Installed Accessory, Deduct</i>	-964.07	
26 29 13 13-0218 NEMA 4/4X, Non-Reversing, Magnetic Starters (26 29 13 13-0159)				
		Note: Brushed stainless steel enclosure.		
26 29 13 13-0219	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW11).....	1,391.25	151.49
		<i>For Factory Installed Accessory, Deduct</i>	-303.00	
26 29 13 13-0220	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW12).....	1,476.24	165.27
		<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0221	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW11).....	1,515.67	165.27
		<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0222	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW13).....	1,600.66	179.05
		<i>For Factory Installed Accessory, Deduct</i>	-358.08	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Controllers	26 29	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0223	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW12).....	1,720.08	179.05
		<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0224	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW16).....	2,686.15	165.27
		<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0225	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW11).....	4,358.62	275.45
		<i>For Factory Installed Accessory, Deduct</i>	-550.89	
26 29 13 13-0226	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW11).....	8,517.29	413.18
		<i>For Factory Installed Accessory, Deduct</i>	-826.35	
26 29 13 13-0227	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGW11).....	18,895.63	550.89
		<i>For Factory Installed Accessory, Deduct</i>	-1,101.80	
26 29 13 13-0228 NEMA 4X, Non-Reversing, Magnetic Starters (26 29 13 13-0159)				
		Note: Glass polyester enclosure.		
26 29 13 13-0229	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW21).....	2,875.81	206.59
		<i>For Factory Installed Accessory, Deduct</i>	-413.18	
26 29 13 13-0230	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW21).....	5,311.68	275.45
		<i>For Factory Installed Accessory, Deduct</i>	-550.89	
26 29 13 13-0231	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW21).....	10,441.44	413.18
		<i>For Factory Installed Accessory, Deduct</i>	-826.35	
26 29 13 13-0232 NEMA 7/9, Non-Reversing, Magnetic Starters (26 29 13 13-0159)				
		Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT1).....	2,796.33	220.36
		<i>For Factory Installed Accessory, Deduct</i>	-440.72	
26 29 13 13-0234	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT2).....	2,890.34	234.13
		<i>For Factory Installed Accessory, Deduct</i>	-468.26	
26 29 13 13-0235	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT1).....	2,930.89	234.13
		<i>For Factory Installed Accessory, Deduct</i>	-468.26	
26 29 13 13-0236	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT3).....	3,020.40	247.91
		<i>For Factory Installed Accessory, Deduct</i>	-495.81	
26 29 13 13-0237	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT2).....	3,157.84	247.91
		<i>For Factory Installed Accessory, Deduct</i>	-495.81	
26 29 13 13-0238	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDT1).....	4,632.37	275.45
		<i>For Factory Installed Accessory, Deduct</i>	-550.89	
26 29 13 13-0239 Reversing, Magnetic Starters (26 29 13 13-0083)				
26 29 13 13-0240 Open Enclosure, Reversing, Magnetic Starters (26 29 13 13-0239)				
26 29 13 13-0241	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....	1,330.29	179.05
		<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0242	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....	1,401.26	179.05
		<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0243	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....	1,550.47	192.81
		<i>For Factory Installed Accessory, Deduct</i>	-385.62	
26 29 13 13-0244	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....	1,609.57	206.59
		<i>For Factory Installed Accessory, Deduct</i>	-413.18	
26 29 13 13-0245	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	1,649.00	206.59
		<i>For Factory Installed Accessory, Deduct</i>	-413.18	
26 29 13 13-0246	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....	1,764.41	220.36
		<i>For Factory Installed Accessory, Deduct</i>	-440.72	
26 29 13 13-0247	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....	1,839.52	241.02
		<i>For Factory Installed Accessory, Deduct</i>	-482.03	
26 29 13 13-0248	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7).....	1,880.08	241.02
		<i>For Factory Installed Accessory, Deduct</i>	-482.03	
26 29 13 13-0249	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	3,197.15	275.45
		<i>For Factory Installed Accessory, Deduct</i>	-550.89	
26 29 13 13-0250	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	5,222.14	413.18
		<i>For Factory Installed Accessory, Deduct</i>	-826.35	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0251	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	11,975.52	619.76
		<i>For Factory Installed Accessory, Deduct</i>	-1,239.52	
26 29 13 13-0252	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	22,278.66	826.35
		<i>For Factory Installed Accessory, Deduct</i>	-1,652.69	
26 29 13 13-0253	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	72,031.00	1,514.97
		<i>For Factory Installed Accessory, Deduct</i>	-3,029.94	
26 29 13 13-0254 NEMA 1, Reversing, Magnetic Starters (26 29 13 13-0239)				
26 29 13 13-0255	EA	Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,370.34	165.27
		<i>For Factory Installed Accessory, Deduct</i>	-330.54	
26 29 13 13-0256	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG15).....	1,431.68	179.05
		<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0257	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....	1,472.24	179.05
		<i>For Factory Installed Accessory, Deduct</i>	-358.08	
26 29 13 13-0258	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....	1,618.06	192.81
		<i>For Factory Installed Accessory, Deduct</i>	-385.62	
26 29 13 13-0259	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....	1,679.42	206.59
		<i>For Factory Installed Accessory, Deduct</i>	-413.18	
26 29 13 13-0260	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....	1,719.98	206.59
		<i>For Factory Installed Accessory, Deduct</i>	-413.18	
26 29 13 13-0261	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2).....	1,865.80	220.36
		<i>For Factory Installed Accessory, Deduct</i>	-440.72	
26 29 13 13-0262	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....	1,940.91	241.02
		<i>For Factory Installed Accessory, Deduct</i>	-482.03	
26 29 13 13-0263	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,981.47	241.02
		<i>For Factory Installed Accessory, Deduct</i>	-482.03	
26 29 13 13-0264	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	3,460.76	275.45
		<i>For Factory Installed Accessory, Deduct</i>	-550.89	
26 29 13 13-0265	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	5,678.39	413.18
		<i>For Factory Installed Accessory, Deduct</i>	-826.35	
26 29 13 13-0266	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	12,813.67	619.76
		<i>For Factory Installed Accessory, Deduct</i>	-1,239.52	
26 29 13 13-0267 NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)				
26 29 13 13-0268	EA	Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,967.82	206.59
		<i>For Factory Installed Accessory, Deduct</i>	-413.18	
26 29 13 13-0269	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	2,008.37	206.59
		<i>For Factory Installed Accessory, Deduct</i>	-413.18	
26 29 13 13-0270	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	2,269.86	241.02
		<i>For Factory Installed Accessory, Deduct</i>	-482.03	
26 29 13 13-0271	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,942.93	275.45
		<i>For Factory Installed Accessory, Deduct</i>	-550.89	
26 29 13 13-0272 NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)				
		Note: Brushed stainless steel enclosure.		
26 29 13 13-0273	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	2,456.74	206.59
		<i>For Factory Installed Accessory, Deduct</i>	-413.18	
26 29 13 13-0274	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	2,893.22	220.36
		<i>For Factory Installed Accessory, Deduct</i>	-440.72	
26 29 13 13-0275 Magnetic Contactor/Starters Accessories (26 29 13 13-0083)				
26 29 13 13-0276	EA	NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2).....	183.45	17.22
		<i>For Factory Installed Accessory, Deduct</i>	-34.43	
26 29 13 13-0277	EA	NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3).....	310.63	17.22
		<i>For Factory Installed Accessory, Deduct</i>	-34.43	
26 29 13 13-0278	EA	NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	183.45	17.22
		<i>For Factory Installed Accessory, Deduct</i>	-34.43	
26 29 13 13-0279	EA	NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	310.63	17.22
		<i>For Factory Installed Accessory, Deduct</i>	-34.43	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Controllers	26 29	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 29 13 13-0280	EA NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R)	310.63		17.22
	For Factory Installed Accessory, Deduct	-34.43		
26 29 13 13-0281	EA Internal Non-Convertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	154.72		13.78
	For Factory Installed Accessory, Deduct	-27.54		
26 29 13 13-0282	EA External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6)	138.02		13.78
	For Factory Installed Accessory, Deduct	-27.54		
26 29 13 13-0283	EA External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8)	183.45		17.22
	For Factory Installed Accessory, Deduct	-34.43		
26 29 13 13-0284	EA External Field Non-Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	154.72		13.78
	For Factory Installed Accessory, Deduct	-27.54		
26 29 13 13-0285	EA External Field Non-Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15)	206.57		17.22
	For Factory Installed Accessory, Deduct	-34.43		
26 29 13 13-0286	EA 30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6)	230.52		13.78
	For Factory Installed Accessory, Deduct	-27.54		
26 29 13 13-0287	EA 45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11)	396.24		13.78
	For Factory Installed Accessory, Deduct	-27.54		
26 29 13 13-0288	EA 60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21)	420.65		13.78
	For Factory Installed Accessory, Deduct	-27.54		
26 29 13 13-0289	EA 30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8)	503.33		17.22
	For Factory Installed Accessory, Deduct	-34.43		
26 29 13 13-0290	EA 45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13)	877.17		17.22
	For Factory Installed Accessory, Deduct	-34.43		
26 29 13 13-0291	EA 60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23)	877.17		17.22
	For Factory Installed Accessory, Deduct	-34.43		
26 29 13 13-0292	EA Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	54.20		10.33
	For Factory Installed Accessory, Deduct	-20.66		
26 29 13 13-0293	EA 1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	109.76		13.78
	For Factory Installed Accessory, Deduct	-27.54		
26 29 13 13-0294	EA 2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	144.91		17.22
	For Factory Installed Accessory, Deduct	-34.43		
26 29 13 13-0295	EA Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	114.08		17.22
	For Factory Installed Accessory, Deduct	-34.43		
26 29 13 13-0296	EA Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	63.45		10.33
	For Factory Installed Accessory, Deduct	-20.66		
26 29 13 13-0297	EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1)	39.04		10.33
	For Factory Installed Accessory, Deduct	-20.66		
26 29 13 13-0298	EA 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39)	200.97		13.78
	For Factory Installed Accessory, Deduct	-27.54		
26 29 13 13-0299	EA 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40)	346.60		17.22
	For Factory Installed Accessory, Deduct	-34.43		
26 29 13 13-0300	Definite Purpose Starters (26 29 13 13)			
26 29 13 13-0301	Open Enclosure, Definite Purpose Starter (26 29 13 13-0300)			
26 29 13 13-0302	EA Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13)	665.12		165.27
	For Factory Installed Accessory, Deduct	-330.54		
26 29 13 13-0303	EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22)	664.00		165.27
	For Factory Installed Accessory, Deduct	-330.54		
26 29 13 13-0304	EA Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23)	718.58		179.05
	For Factory Installed Accessory, Deduct	-358.08		
26 29 13 13-0305	EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32)	705.68		165.27
	For Factory Installed Accessory, Deduct	-330.54		
26 29 13 13-0306	EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33)	767.02		179.05
	For Factory Installed Accessory, Deduct	-358.08		
26 29 13 13-0307	EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42)	741.73		165.27
	For Factory Installed Accessory, Deduct	-330.54		
26 29 13 13-0308	EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43)	862.67		206.59
	For Factory Installed Accessory, Deduct	-413.18		
26 29 13 13-0309	EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52)	956.18		206.59
	For Factory Installed Accessory, Deduct	-413.18		
26 29 13 13-0310	EA Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53)	1,200.77		241.02
	For Factory Installed Accessory, Deduct	-482.03		
26 29 13 13-0311	NEMA 1, Definite Purpose Starter (26 29 13 13-0300)			
26 29 13 13-0312	EA NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12)	677.01		151.49
	For Factory Installed Accessory, Deduct	-303.00		
26 29 13 13-0313	EA NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13)	731.59		165.27
	For Factory Installed Accessory, Deduct	-330.54		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0314	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22)	729.34	165.27	
		<i>For Factory Installed Accessory, Deduct</i>	-330.54		
26 29 13 13-0315	EA	NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23)	787.29	179.05	
		<i>For Factory Installed Accessory, Deduct</i>	-358.08		
26 29 13 13-0316	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32)	772.15	165.27	
		<i>For Factory Installed Accessory, Deduct</i>	-330.54		
26 29 13 13-0317	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33)	834.61	179.05	
		<i>For Factory Installed Accessory, Deduct</i>	-358.08		
26 29 13 13-0318	EA	NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42)	810.45	165.27	
		<i>For Factory Installed Accessory, Deduct</i>	-330.54		
26 29 13 13-0319	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43)	930.27	206.59	
		<i>For Factory Installed Accessory, Deduct</i>	-413.18		
26 29 13 13-0320	EA	NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52)	1,020.39	206.59	
		<i>For Factory Installed Accessory, Deduct</i>	-413.18		
26 29 13 13-0321	EA	NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53)	1,266.11	241.02	
		<i>For Factory Installed Accessory, Deduct</i>	-482.03		
26 29 13 13-0322		Definite Purpose Starter Accessory (26 29 13 13-0300)			
26 29 13 13-0323	EA	Start-Stop Push Button Kit, Definite Purpose Starter Accessory	206.57	17.22	
		Note: Or Hand-Off-Auto Selector Switch Kit			
		<i>For Factory Installed Accessory, Deduct</i>	-34.43		
26 29 13 13-0324		Panel Mounted Miniature Contactor (26 29 13 13)			
26 29 13 13-0325		Non-Reversing, Panel Mounted Miniature Contactor (26 29 13 13-0324)			
26 29 13 13-0326	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K)	201.94	68.86	
26 29 13 13-0327	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K)	235.98	75.75	
26 29 13 13-0328	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K)	235.98	75.75	
26 29 13 13-0329	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K)	262.15	82.64	
26 29 13 13-0330	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K)	222.22	68.86	
26 29 13 13-0331	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K)	233.49	68.86	
26 29 13 13-0332	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K)	255.13	75.75	
26 29 13 13-0333	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K)	266.40	75.75	
26 29 13 13-0334	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K)	261.89	75.75	
26 29 13 13-0335	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K)	266.40	75.75	
26 29 13 13-0336	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K)	284.68	82.64	
26 29 13 13-0337	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K)	273.16	75.75	
26 29 13 13-0338	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K)	295.95	82.64	
26 29 13 13-0339	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K)	275.41	75.75	
26 29 13 13-0340	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K)	275.41	75.75	
26 29 13 13-0341	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K)	307.21	82.64	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0342	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K)	307.21	82.64
26 29 13 13-0343 Reversing, Panel Mounted Miniature Contactor (26 29 13 13-0324)				
26 29 13 13-0344	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	284.18	68.86
26 29 13 13-0345	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	306.71	68.86
26 29 13 13-0346	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	339.62	75.75
26 29 13 13-0347	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	339.62	75.75
26 29 13 13-0348	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	362.15	75.75
26 29 13 13-0349	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	380.44	82.64
26 29 13 13-0350	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	380.44	82.64
26 29 13 13-0351	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	325.86	68.86
26 29 13 13-0352	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	348.39	68.86
26 29 13 13-0353	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	379.05	75.75
26 29 13 13-0354	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	401.58	75.75
26 29 13 13-0355	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	426.63	82.64
26 29 13 13-0356	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	449.16	82.64
26 29 13 13-0357	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	366.66	75.75
26 29 13 13-0358	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	419.61	75.75
26 29 13 13-0359	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	473.94	82.64
26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories (26 29 13 13-0324)				
26 29 13 13-0361	EA	2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02)	86.55	34.43
26 29 13 13-0362	EA	4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40)	95.24	34.43
26 29 13 13-0363	EA	Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U)	111.00	34.43
26 29 13 13-0364	EA	Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301)	142.32	34.43
26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole (26 29 13 13)				
26 29 13 13-0366 NEMA 1 Enclosure (26 29 13 13-0365)				
26 29 13 13-0367	EA	Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	7,851.32	660.13
		<i>For NEMA 4, Add</i>	812.88	
26 29 13 13-0368	EA	Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	13,641.37	880.16
		<i>For NEMA 4, Add</i>	1,484.78	
26 29 13 13-0369	EA	Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	23,763.30	1,045.20
		<i>For NEMA 4, Add</i>	2,709.95	
26 29 13 13-0370	EA	Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	57,653.86	1,278.99
		<i>For NEMA 4, Add</i>	6,888.39	
26 29 13 13-0371	EA	Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	91,890.84	1,636.57
		<i>For NEMA 4, Add</i>	11,077.05	
26 29 13 13-0372 NEMA 12 Enclosure (26 29 13 13-0365)				
26 29 13 13-0373	EA	Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	7,797.15	674.15
26 29 13 13-0374	EA	Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	13,542.44	881.55
26 29 13 13-0375	EA	Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	23,582.72	1,041.90
26 29 13 13-0376	EA	Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	57,194.85	1,273.36
26 29 13 13-0377	EA	Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	91,152.72	1,637.25

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0378		Factory Modifications Pilot Devices (26 29 13 13-0365)		
26 29 13 13-0379	EA	Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	191.52	
26 29 13 13-0380	EA	H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	211.22	
26 29 13 13-0381	EA	Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	359.54	
26 29 13 13-0382	EA	Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	195.35	
26 29 13 13-0383	EA	Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	280.89	
26 29 13 13-0384	EA	Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	140.44	
26 29 13 13-0385	EA	Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	458.40	
26 29 13 13-0386		Factory Modifications Meters (26 29 13 13-0365)		
26 29 13 13-0387	EA	Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,842.64	
26 29 13 13-0388	EA	Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,779.73	
26 29 13 13-0389	EA	Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	629.19	
26 29 13 13-0390	EA	Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	521.35	
26 29 13 13-0391		Factory Modifications Main Circuit Breakers (26 29 13 13-0365)		
26 29 13 13-0392	EA	Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....	2,435.31	
26 29 13 13-0393	EA	Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....	4,453.89	
26 29 13 13-0394	EA	Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....	9,473.85	
26 29 13 13-0395		Factory Modifications Addition (26 29 13 13-0365)		
		Note: For reversing service auto transformer type.		
26 29 13 13-0396	EA	Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	408.99	
26 29 13 13-0397	EA	Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	408.99	
26 29 13 13-0398	EA	Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	408.99	
26 29 13 13-0399	EA	Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	408.99	
26 29 13 13-0400		Combination Starters Non-Reversing (26 29 13 13)		
26 29 13 13-0401		240-600 Volt, 3-Pole (26 29 13 13-0400)		
26 29 13 13-0402		NEMA 1 With Disconnect (Safety) Switch (26 29 13 13-0401)		
26 29 13 13-0403	EA	Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,929.23	316.31
		For Electronic Overloads, Add.....	245.58	
26 29 13 13-0404	EA	Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,360.12	495.09
		For Electronic Overloads, Add.....	259.07	
26 29 13 13-0405	EA	Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,305.00	577.62
		For Electronic Overloads, Add.....	410.20	
26 29 13 13-0406	EA	Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,026.09	715.13
		For Electronic Overloads, Add.....	682.77	
26 29 13 13-0407	EA	Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,223.48	1,141.47
		For Electronic Overloads, Add.....	1,316.96	
26 29 13 13-0408	EA	Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	18,427.56	1,430.28
		For Electronic Overloads, Add.....	2,956.86	
26 29 13 13-0409		NEMA 1 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0410	EA	Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,440.56	316.31
		For Electronic Overloads, Add.....	342.73	
26 29 13 13-0411	EA	Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,871.45	495.09
		For Electronic Overloads, Add.....	356.23	
26 29 13 13-0412	EA	Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,802.13	577.62
		For Electronic Overloads, Add.....	504.66	
26 29 13 13-0413	EA	Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,295.95	715.13
		For Electronic Overloads, Add.....	734.04	
26 29 13 13-0414	EA	Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	10,771.67	1,141.47
		For Electronic Overloads, Add.....	1,611.12	
26 29 13 13-0415	EA	Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	22,532.41	1,430.28
		For Electronic Overloads, Add.....	3,736.78	
26 29 13 13-0416		Factory Modifications For NEMA 1 Enclosure (26 29 13 13-0401)		
26 29 13 13-0417	EA	Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	232.86	
26 29 13 13-0418	EA	H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	546.92	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Controllers	26 29	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 29 13 13-0419	EA	Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	377.47		
26 29 13 13-0420 NEMA 4 With Disconnect (Safety) Switch (26 29 13 13-0401)					
26 29 13 13-0421	EA	Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,505.00	412.58	
		For Electronic Overloads, Add	504.66		
26 29 13 13-0422	EA	Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,873.14	577.62	
		For Electronic Overloads, Add	518.15		
26 29 13 13-0423	EA	Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,534.48	632.62	
		For Electronic Overloads, Add	809.61		
26 29 13 13-0424	EA	Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,786.12	770.15	
		For Electronic Overloads, Add	1,379.03		
26 29 13 13-0425	EA	Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	13,910.67	1,141.47	
		For Electronic Overloads, Add	2,207.53		
26 29 13 13-0426	EA	Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	30,387.01	1,430.28	
		For Electronic Overloads, Add	5,229.16		
26 29 13 13-0427 NEMA 4 With Circuit Breaker (26 29 13 13-0401)					
26 29 13 13-0428	EA	Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,016.33	412.58	
		For Electronic Overloads, Add	601.81		
26 29 13 13-0429	EA	Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,384.47	577.62	
		For Electronic Overloads, Add	615.30		
26 29 13 13-0430	EA	Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,031.60	632.62	
		For Electronic Overloads, Add	904.06		
26 29 13 13-0431	EA	Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,055.99	770.15	
		For Electronic Overloads, Add	1,430.30		
26 29 13 13-0432	EA	Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	15,458.87	1,141.47	
		For Electronic Overloads, Add	2,501.68		
26 29 13 13-0433	EA	Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	28,782.00	1,430.28	
		For Electronic Overloads, Add	4,924.21		
26 29 13 13-0434 Factory Modifications For NEMA 4 Enclosure (26 29 13 13-0401)					
26 29 13 13-0435	EA	Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	232.89		
26 29 13 13-0436	EA	H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt	546.92		
26 29 13 13-0437	EA	Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	377.47		
26 29 13 13-0438 NEMA 12 With Disconnect (Safety) Switch (26 29 13 13-0401)					
26 29 13 13-0439	EA	Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,993.85	318.37	
		For Electronic Overloads, Add	257.86		
26 29 13 13-0440	EA	Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,428.29	498.26	
		For Electronic Overloads, Add	272.03		
26 29 13 13-0441	EA	Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,412.94	573.08	
		For Electronic Overloads, Add	430.71		
26 29 13 13-0442	EA	Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	5,205.76	716.24	
		For Electronic Overloads, Add	716.91		
26 29 13 13-0443	EA	Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	9,570.04	1,146.14	
		For Electronic Overloads, Add	1,382.81		
26 29 13 13-0444	EA	Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	19,205.67	1,432.47	
		For Electronic Overloads, Add	3,104.70		
26 29 13 13-0445 NEMA 12 With Circuit Breaker (26 29 13 13-0401)					
26 29 13 13-0446	EA	Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,604.42	318.37	
		For Electronic Overloads, Add	373.87		
26 29 13 13-0447	EA	Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,041.76	498.26	
		For Electronic Overloads, Add	388.59		
26 29 13 13-0448	EA	Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	4,043.40	573.08	
		For Electronic Overloads, Add	550.50		
26 29 13 13-0449	EA	Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,646.89	716.24	
		For Electronic Overloads, Add	800.72		
26 29 13 13-0450	EA	Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	11,541.94	1,146.14	
		For Electronic Overloads, Add	1,757.47		
26 29 13 13-0451	EA	Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	24,318.94	1,432.47	
		For Electronic Overloads, Add	4,076.22		
26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure (26 29 13 13-0401)					
26 29 13 13-0453	EA	Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	230.95		
26 29 13 13-0454	EA	H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	542.37		
26 29 13 13-0455	EA	Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	374.33		
26 29 13 13-0456 NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0401)					
26 29 13 13-0457	EA	Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,567.99	660.13	
26 29 13 13-0458	EA	Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,186.56	880.16	
26 29 13 13-0459	EA	Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,764.82	1,210.24	
26 29 13 13-0460	EA	Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	10,029.26	1,650.32	
26 29 13 13-0461	EA	Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	15,085.39	2,310.44	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0462		Factory Modifications For NEMA 7 Or 9 Enclosure (26 29 13 13-0401)		
26 29 13 13-0463	EA	Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt	1,384.82	
26 29 13 13-0464	EA	H-0-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,384.82	
26 29 13 13-0465	EA	Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,384.82	
26 29 13 13-0466		Combination Starters Reversing (26 29 13 13)		
26 29 13 13-0467		240-600 Volt, 3 Pole (26 29 13 13-0466)		
26 29 13 13-0468		NEMA 1 With Disconnect (Safety) Switch (26 29 13 13-0467)		
26 29 13 13-0469	EA	Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,389.20	412.58
26 29 13 13-0470	EA	Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,789.47	577.62
26 29 13 13-0471	EA	Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	4,020.45	632.62
26 29 13 13-0472	EA	Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	6,080.15	770.15
26 29 13 13-0473	EA	Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	11,826.03	1,141.47
26 29 13 13-0474		NEMA 1 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0475	EA	Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,658.99	412.58
26 29 13 13-0476	EA	Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,077.47	577.62
26 29 13 13-0477	EA	Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,357.59	632.62
26 29 13 13-0478	EA	Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,616.00	770.15
26 29 13 13-0479	EA	Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,737.94	1,141.47
26 29 13 13-0480		NEMA 12 With Disconnect (Safety) Switch (26 29 13 13-0467)		
26 29 13 13-0481	EA	Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,546.09	424.55
26 29 13 13-0482	EA	Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,956.87	573.08
26 29 13 13-0483	EA	Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	4,300.26	636.75
26 29 13 13-0484	EA	Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	6,543.80	764.10
26 29 13 13-0485	EA	Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	12,797.12	1,146.14
26 29 13 13-0486		NEMA 12 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0487	EA	Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,843.36	424.55
26 29 13 13-0488	EA	Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,274.19	573.08
26 29 13 13-0489	EA	Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,671.73	636.75
26 29 13 13-0490	EA	Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	6,032.38	764.10
26 29 13 13-0491	EA	Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	13,801.91	1,146.14
26 29 13 13-0492		NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0493	EA	Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,550.24	880.16
26 29 13 13-0494	EA	Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,983.77	1,100.21
26 29 13 13-0495	EA	Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	8,583.75	1,430.28
26 29 13 13-0496	EA	Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	13,603.95	1,870.36
26 29 13 13-0497	EA	Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	24,716.93	2,530.49
26 29 13 13-0498		Solid State Motor Controllers (26 29 13 13)		
26 29 13 13-0499		Adjustable Voltage Drives, DC Motors (26 29 13 13-0498)		
26 29 13 13-0500	EA	0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking	1,884.90	247.55
26 29 13 13-0501	EA	0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	2,262.42	247.55
26 29 13 13-0502		Removal And Reinstallation Of Motor Starters (26 29 13 13)		
		Note: Includes storage and cleaning.		
26 29 13 13-0503	EA	Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	982.33	
26 29 13 13-0504		Auxiliary Devices (26 29 13 13)		
26 29 13 13-0505	EA	Normally Open, Auxiliary Contact	568.99	137.53
26 29 13 13-0506	EA	Normally Closed, Auxiliary Contact.....	568.99	137.53
26 29 13 13-0507	EA	Pilot Light Kit.....	598.65	137.53
26 29 13 13-0508		Irrigation Controller Panel (26 29 13 13)		
		Note: 230 VAC supply voltage, 30 Amp minimum service required.		
26 29 13 13-0509	EA	Irrigation Booster Pump Control Panel Adder.....	3,081.79	162.17
		Note: Includes: main disconnect, 30 Amp 2 pole breaker, IEC starter for 11A, 1500VA fused CPT, overtemp and pump fail relays, 22MM green light run, 22MM red light run, 22MM HOA switch, terminals and accessories and misc hardware		
26 29 23		Variable-Frequency Motor Controllers (26 29)		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 29 23 00-0001 208/230 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives (26 29 23)				
Note: 1 or 3 phase. Wall mounted. ABB ACH580 Series. Includes full voltage bypass with main input circuit breaker. NEMA 1 enclosure.				
26 29 23 00-0002	EA 3/4 HP, 208/230 Volt Variable Frequency Drive	2,226.17		467.06
	For 6-Pulse Drive Package, Deduct	-710.56		
26 29 23 00-0003	EA 1 HP, 208/230 Volt Variable Frequency Drive	2,503.54		510.47
	For 6-Pulse Drive Package, Deduct	-818.03		
26 29 23 00-0004	EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive	2,904.16		561.30
	For 6-Pulse Drive Package, Deduct	-979.86		
26 29 23 00-0005	EA 2 HP, 208/230 Volt Variable Frequency Drive	3,052.58		539.53
	For 6-Pulse Drive Package, Deduct	-1,085.44		
26 29 23 00-0006	EA 3 HP, 208/230 Volt Variable Frequency Drive	3,274.13		588.24
	For 6-Pulse Drive Package, Deduct	-1,153.71		
26 29 23 00-0007	EA 5 HP, 208/230 Volt Variable Frequency Drive	3,532.74		588.24
	For 6-Pulse Drive Package, Deduct	-1,295.95		
26 29 23 00-0008	EA 7.5 HP, 208/230 Volt Variable Frequency Drive	4,220.74		702.35
	For 6-Pulse Drive Package, Deduct	-1,548.82		
26 29 23 00-0009	EA 10 HP, 208/230 Volt Variable Frequency Drive	4,594.29		702.35
	For 6-Pulse Drive Package, Deduct	-1,754.27		
26 29 23 00-0010	EA 15 HP, 208/230 Volt Variable Frequency Drive	6,080.49		1,057.53
	For 6-Pulse Drive Package, Deduct	-2,180.99		
26 29 23 00-0011	EA 20 HP, 208/230 Volt Variable Frequency Drive	7,114.95		1,057.53
	For 6-Pulse Drive Package, Deduct	-2,749.94		
26 29 23 00-0012	EA 25 HP, 208/230 Volt Variable Frequency Drive	8,700.22		1,404.83
	For 6-Pulse Drive Package, Deduct	-3,239.87		
26 29 23 00-0013	EA 30 HP, 208/230 Volt Variable Frequency Drive	9,993.29		1,404.83
	For 6-Pulse Drive Package, Deduct	-3,951.06		
26 29 23 00-0014	EA 40 HP, 208/230 Volt Variable Frequency Drive	11,113.96		1,404.83
	For 6-Pulse Drive Package, Deduct	-4,567.43		
26 29 23 00-0015	EA 50 HP, 208/230 Volt Variable Frequency Drive	14,643.35		1,775.89
	For 6-Pulse Drive Package, Deduct	-6,100.44		
26 29 23 00-0016	EA 60 HP, 208/230 Volt Variable Frequency Drive	17,649.64		2,100.83
	For 6-Pulse Drive Package, Deduct	-7,396.39		
26 29 23 00-0017	EA 75 HP, 208/230 Volt Variable Frequency Drive	19,948.44		2,100.83
	For 6-Pulse Drive Package, Deduct	-8,660.73		
26 29 23 00-0018 460/480 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives (26 29 23)				
Note: 3 Phase. ABB ACH580 Series. Includes full voltage bypass with main circuit breaker. NEMA 1 enclosure.				
26 29 23 00-0019	EA 3 HP, 460/480 Volt Variable Frequency Drive	5,243.85		840.36
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-1,959.73		
26 29 23 00-0020	EA 5 HP, 460/480 Volt Variable Frequency Drive	5,416.26		840.36
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-2,054.55		
26 29 23 00-0021	EA 7.5 HP, 460/480 Volt Variable Frequency Drive	5,939.17		1,001.30
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-2,165.19		
26 29 23 00-0022	EA 10 HP, 460/480 Volt Variable Frequency Drive	5,967.90		1,001.30
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-2,180.99		
26 29 23 00-0023	EA 15 HP, 460/480 Volt Variable Frequency Drive	8,035.90		1,518.00
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-2,749.94		
26 29 23 00-0024	EA 20 HP, 460/480 Volt Variable Frequency Drive	8,438.19		1,518.00
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-2,971.20		
26 29 23 00-0025	EA 25 HP, 460/480 Volt Variable Frequency Drive	10,183.09		2,002.59
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-3,397.91		
26 29 23 00-0026	EA 30 HP, 460/480 Volt Variable Frequency Drive	11,619.85		2,002.59
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-4,188.13		
26 29 23 00-0027	EA 40 HP, 460/480 Volt Variable Frequency Drive	13,114.07		2,002.59
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-5,009.95		
26 29 23 00-0028	EA 50 HP, 460/480 Volt Variable Frequency Drive	17,156.12		2,543.78
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-6,637.79		
26 29 23 00-0029	EA 60 HP, 460/480 Volt Variable Frequency Drive	22,814.43		3,016.60
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-9,229.68		
26 29 23 00-0030	EA 75 HP, 460/480 Volt Variable Frequency Drive	24,193.71		3,016.60
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-9,988.29		
26 29 23 00-0031	EA 100 HP, 460/480 Volt Variable Frequency Drive	27,986.62		3,361.42
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-11,695.15		
26 29 23 00-0032	EA 125 HP, 460/480 Volt Variable Frequency Drive	29,480.84		3,361.42
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-12,516.97		
26 29 23 00-0033	EA 150 HP, 460/480 Volt Variable Frequency Drive	32,584.22		3,361.42
	Note: Floor mounted.			
	For 6-Pulse Drive Package, Deduct	-14,223.83		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0034 EA 200 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	37,653.25 -16,246.77	4,056.84
26 29 23 00-0035 EA 250 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	46,962.30 -21,167.58	4,237.89
26 29 23 00-0036 EA 300 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	55,058.01 -24,932.79	4,862.83
26 29 23 00-0037 EA 350 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	63,281.23 -29,003.33	5,273.89
26 29 23 00-0038 EA 400 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	73,264.97 -34,031.61	5,694.72
26 29 23 00-0039 EA 450 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	78,968.68 -36,639.94	6,175.31

26 29 33 Controllers for Fire Pump Drivers (26 29)**26 29 33 13 Full-Service Controllers for Fire Pump Electric-Motor Drivers (26 29 33)****26 29 33 13-0001 Electric Controllers For Fire Pumps (26 29 33 13)****26 29 33 13-0002 Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller (26 29 33 13-0001)**

26 29 33 13-0003 EA 30 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	23,717.44	264.76
26 29 33 13-0004 EA 40 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	26,850.39	294.18
26 29 33 13-0005 EA 50 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	28,155.65	323.60
26 29 33 13-0006 EA 75 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	32,099.86	353.01
26 29 33 13-0007 EA 150 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	33,927.10	411.85
26 29 33 13-0008 EA 175 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	36,182.84	529.52
26 29 33 13-0009 EA 200 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	39,222.31	588.36
26 29 33 13-0010 EA 250 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	44,857.66	670.73
26 29 33 13-0011 EA 300 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	54,039.81	723.68
26 29 33 13-0012 EA 350 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	63,502.58	823.70
26 29 33 13-0013 EA 400 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	75,742.62	882.53
26 29 33 13-0014 EA 500 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	85,496.02	941.37

26 29 33 19 Controllers for Fire Pump Diesel Engine Drivers (26 29 33)

See CSI section 26 29 33 13-0000 for controllers for fire pump diesel engine drivers.

26 30 Facility Electrical Power Generating and Storing Equipment

(26)

26 31 Photovoltaic Collectors (26 30)**26 31 00 00-0001 Rigid Photovoltaic Modules (26 31)****26 31 00 00-0002 Sanyo Rigid Photovoltaic Modules (26 31 00 00-0001)**

26 31 00 00-0003 EA 205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	2,331.40	130.65
<i>For >25 To 50, Deduct</i>	-168.32	
<i>For >50 To 100, Deduct</i>	-226.61	
<i>For >100, Deduct</i>	-336.65	
26 31 00 00-0004 EA 210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	2,443.61	130.65
<i>For >25 To 50, Deduct</i>	-176.74	
<i>For >50 To 100, Deduct</i>	-237.83	
<i>For >100, Deduct</i>	-353.48	
26 31 00 00-0005 EA 215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	2,287.38	130.65
<i>For >25 To 50, Deduct</i>	-165.02	
<i>For >50 To 100, Deduct</i>	-222.21	
<i>For >100, Deduct</i>	-330.04	

26 31 00 00-0006 Sharp Rigid Photovoltaic Modules (26 31 00 00-0001)

26 31 00 00-0007 EA 224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	1,826.12	130.65
<i>For >25 To 50, Deduct</i>	-130.43	
<i>For >50 To 100, Deduct</i>	-176.08	
<i>For >100, Deduct</i>	-260.85	
26 31 00 00-0008 EA 230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3)	2,076.59	130.65
<i>For >25 To 50, Deduct</i>	-149.21	
<i>For >50 To 100, Deduct</i>	-201.13	
<i>For >100, Deduct</i>	-298.42	
26 31 00 00-0009 EA 235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1).....	2,116.27	130.65
<i>For >25 To 50, Deduct</i>	-152.19	
<i>For >50 To 100, Deduct</i>	-205.09	
<i>For >100, Deduct</i>	-304.38	



Electrical		26	26
Facility Electrical Power Generating and Storing Equipment		26 30	
Photovoltaic Collectors		26 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0010 EA 240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1)	1,992.27	130.65
For >25 To 50, Deduct	-142.89	
For >50 To 100, Deduct	-192.69	
For >100, Deduct	-285.78	
26 31 00 00-0011 BP Solar Rigid Photovoltaic Modules (26 31 00 00-0001)		
Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.		
26 31 00 00-0012 EA 50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J)	903.47	130.65
For >25 To 50, Deduct	-61.23	
For >50 To 100, Deduct	-83.81	
For >100, Deduct	-122.46	
26 31 00 00-0013 EA 75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J)	1,114.26	130.65
For >25 To 50, Deduct	-77.04	
For >50 To 100, Deduct	-104.89	
For >100, Deduct	-154.07	
26 31 00 00-0014 EA 80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J)	1,198.58	130.65
For >25 To 50, Deduct	-83.36	
For >50 To 100, Deduct	-113.33	
For >100, Deduct	-166.72	
26 31 00 00-0015 Photovoltaic Inverters (26 31)		
26 31 00 00-0016 Fronius Photovoltaic Inverters (26 31 00 00-0015)		
26 31 00 00-0017 EA 3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1)	5,547.56	137.53
26 31 00 00-0018 EA 5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1)	7,315.60	137.53
26 31 00 00-0019 EA 6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1)	7,721.81	137.53
26 31 00 00-0020 EA 7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1)	8,633.17	137.53
26 31 00 00-0021 EA 10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1)	13,667.05	137.53
26 31 00 00-0022 EA 12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1)	15,886.03	137.53
26 31 00 00-0023 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta)	12,944.25	275.06
26 31 00 00-0024 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3)	16,379.18	275.06
26 31 00 00-0025 EA Inverter Display Stand (Fronius 4,045,894)	488.93	68.76
26 31 00 00-0026 SMA Photovoltaic Inverters (26 31 00 00-0015)		
26 31 00 00-0027 EA 4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22)	4,121.42	137.53
26 31 00 00-0028 EA 5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22)	4,945.85	137.53
26 31 00 00-0029 EA 6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22)	5,714.18	137.53
26 31 00 00-0030 EA 7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22)	6,300.73	137.53
26 31 00 00-0031 EA 8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12)	6,103.15	137.53
26 31 00 00-0032 PVPowered Photovoltaic Inverters (26 31 00 00-0015)		
26 31 00 00-0033 EA 120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100)	5,098.79	137.53
26 31 00 00-0034 EA 240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000)	5,332.34	137.53
26 31 00 00-0035 EA 240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500)	5,890.89	137.53
26 31 00 00-0036 EA 240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500)	6,985.31	171.90
26 31 00 00-0037 EA 208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600)	8,516.42	206.29
26 31 00 00-0038 EA 240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800)	8,587.52	206.29
26 31 00 00-0039 EA 240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200)	9,060.74	206.29
26 31 00 00-0040 EA 208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW)	107,962.18	1,100.21
26 31 00 00-0041 EA 480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW)	108,105.01	1,100.21
26 31 00 00-0042 EA 208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW)	116,975.43	1,100.21
26 31 00 00-0043 EA 480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW)	108,445.86	1,100.21
26 31 00 00-0044 Solectria Photovoltaic Inverters (26 31 00 00-0015)		
26 31 00 00-0045 EA 208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI)	16,983.36	275.06
26 31 00 00-0046 EA 208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI)	16,983.36	275.06
26 31 00 00-0047 EA 208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI)	17,479.66	275.06
26 31 00 00-0048 EA 480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI)	17,479.66	275.06
26 31 00 00-0049 EA 208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	53,211.04	825.16
26 31 00 00-0050 EA 480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	50,729.51	825.16
26 31 00 00-0051 EA 208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	58,174.11	825.16
26 31 00 00-0052 EA 480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	56,795.48	825.16
26 31 00 00-0053 EA 208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	61,758.54	825.16
26 31 00 00-0054 EA 480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	59,001.29	825.16
26 31 00 00-0055 EA 208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	65,065.91	1,100.21
26 31 00 00-0056 EA 480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	62,032.93	1,100.21
26 31 00 00-0057 EA 208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	67,547.44	1,100.21
26 31 00 00-0058 EA 480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	63,963.01	1,100.21
26 31 00 00-0059 Xantrex Photovoltaic Inverters (26 31 00 00-0015)		
26 31 00 00-0060 EA 0.6 KW Photovoltaic Inverter (Xantrex 806-1206)	711.67	34.38
26 31 00 00-0061 EA 1 KW Photovoltaic Inverter (Xantrex 806-1210)	775.53	34.38
26 31 00 00-0062 EA 2 KW Photovoltaic Inverter (Xantrex 806-1220)	1,244.83	34.38

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 31 Photovoltaic Collectors**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0063			Photovoltaic DC-DC Converters (26 31)		
26 31 00 00-0064	EA		15 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20).....	420.57	51.57
			Note: Hazardous locations.		
26 31 00 00-0065	EA		20 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23).....	281.69	51.57
26 31 00 00-0066	EA		60 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60).....	777.67	51.57
26 31 00 00-0067			Photovoltaic Combiner Boxes (26 31)		
26 31 00 00-0068			Midnight Solar Photovoltaic Combiner Boxes (26 31 00 00-0067)		
26 31 00 00-0069	EA		3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3).....	509.23	137.53
26 31 00 00-0070	EA		6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6).....	496.36	137.53
26 31 00 00-0071	EA		12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12).....	788.89	206.29
26 31 00 00-0072	EA		6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250)	793.40	206.29
26 31 00 00-0073	EA		16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16).....	1,210.57	206.29
26 31 00 00-0074			SMA Photovoltaic Combiner Boxes (26 31 00 00-0067)		
26 31 00 00-0075	EA		6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6).....	1,116.22	137.53
26 31 00 00-0076	EA		12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12)	1,335.39	137.53
26 31 00 00-0077	EA		28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28)	2,587.00	275.06
26 31 00 00-0078	EA		52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52)	5,923.89	275.06
26 31 00 00-0079	EA		4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch)	997.61	137.53
26 31 00 00-0080			Photovoltaic Charge Controller (26 31)		
26 31 00 00-0081	EA		35 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-35).....	336.25	51.57
26 31 00 00-0082	EA		40 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-40).....	447.85	51.57
26 31 00 00-0083	EA		60 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-60).....	522.24	51.57
26 31 00 00-0084	EA		Remote Digital Meter For Xantrex C-35, 40 And 60	400.73	51.57
26 31 00 00-0085	EA		MPPT Charge Controller (Xantrex XW SCC).....	1,382.32	68.76
26 31 00 00-0086			Photovoltaic Batteries (26 31)		
26 31 00 00-0087			Concorde Photovoltaic Batteries (26 31 00 00-0086)		
26 31 00 00-0088	EA		34 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T).....	308.84	20.63
26 31 00 00-0089	EA		45 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T).....	389.48	27.50
26 31 00 00-0090	EA		49 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T).....	421.91	27.50
26 31 00 00-0091	EA		56 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T).....	483.88	41.26
26 31 00 00-0092	EA		69 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T).....	550.78	41.26
26 31 00 00-0093	EA		89 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T).....	653.72	48.13
26 31 00 00-0094	EA		104 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T).....	749.71	55.01
26 31 00 00-0095	EA		108 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T).....	741.05	55.01
26 31 00 00-0096	EA		210 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T).....	1,357.04	65.33
26 31 00 00-0097	EA		255 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T).....	1,569.06	68.76
26 31 00 00-0098			Deka Photovoltaic Batteries (26 31 00 00-0086)		
26 31 00 00-0099	EA		31 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8GU1).....	324.29	34.43
26 31 00 00-0100	EA		50 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G22NF).....	445.80	34.43
26 31 00 00-0101	EA		74 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G24).....	656.60	34.43
26 31 00 00-0102	EA		86 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G27).....	750.83	34.43
26 31 00 00-0103	EA		98 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G31).....	753.31	34.43
26 31 00 00-0104	EA		183 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G4D).....	1,457.60	34.43
26 31 00 00-0105	EA		225 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G8D).....	1,685.75	34.43
26 31 00 00-0106			Battery Enclosures (26 31 00 00-0086)		
26 31 00 00-0107	EA		14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010).....	366.35	34.38
26 31 00 00-0108	EA		22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC).....	1,787.43	34.43
26 31 00 00-0109	EA		37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL).....	1,680.80	34.43
26 31 00 00-0110	EA		37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC).....	2,238.77	34.43
26 31 00 00-0111	EA		15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1).....	998.82	34.43
26 31 00 00-0112	EA		31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP).....	2,345.41	34.43
26 31 00 00-0113			Photovoltaic System Monitoring (26 31)		
26 31 00 00-0114	EA		Solar Inverter Monitor (Xantrex 864-0203).....	772.88	68.76
26 31 00 00-0115	EA		Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox)	1,592.04	34.38
26 31 00 00-0116	EA		Sun Radiation And Temperature Monitor (SMA Sunny SensorBox)	1,330.48	34.38
26 31 00 00-0117	EA		PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA)	246.87	34.38
26 31 00 00-0118	EA		Wind Sensor Accessory For Sunny SensorBox (SMA).....	609.41	68.76
26 31 00 00-0119	EA		Sunny Boy Control with RS485 (SMA).....	1,566.00	34.38
26 31 00 00-0120	EA		RS 485 Module (SMA).....	357.40	34.38
26 31 00 00-0121	EA		RS 232 Module (SMA).....	366.35	34.38
26 31 00 00-0122	EA		Wireless Monitor with Bluetooth (SMA Sunny Beam).....	687.34	



		Electrical	26	26
		Facility Electrical Power Generating and Storing Equipment	26 30	
		Photovoltaic Collectors	26 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0123 EA Bluetooth Piggy-Back Computer Card (SMA).....	371.18	34.38
26 31 00 00-0124 EA RS485-N Communication Computer Card (SMA).....	368.68	34.38
26 31 00 00-0125 EA Bluetooth Repeater (SMA).....	694.84	34.38
26 31 00 00-0126 EA Sunny Boy PC Service Cable (SMA).....	329.84	10.31
26 31 00 00-0127 EA Integrated Revenue Grade Meter, Option (PVPowered)	6,360.94	
26 31 00 00-0128 EA Data Monitoring Module (PVPowered PVM1010).....	693.38	34.38
26 31 00 00-0129 EA Wireless IG Personal Display (Fronius 4,240,108).....	698.23	
26 31 00 00-0130 EA DatCom Power Supply (Fronius 43,0001,2311).....	227.54	
26 31 00 00-0131 EA Wireless Card For IG Personal Display (Fronius 4,240,008,Z).....	413.41	34.38
26 31 00 00-0132 EA Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z).....	349.93	34.38
26 31 00 00-0133 EA Datalogger Pro Box (Fronius 4,240,102).....	1,371.41	34.38
26 31 00 00-0134 EA Datalogger Easy Box (Fronius 4,240,103).....	892.42	34.38
26 31 00 00-0135 EA Datalogger Interface Box (Fronius 4,240,105).....	1,548.16	34.38
26 31 00 00-0136 EA Datalogger Web (Fronius 4,240,122).....	2,659.64	34.38
26 31 00 00-0137 EA Interface Box (Fronius 4,240,109).....	715.28	34.38
26 31 00 00-0138 EA Interface Card (Fronius 4,240,009,Z).....	510.64	34.38
26 31 00 00-0139 EA Interface Card Easy (Fronius 4,240,013,Z).....	337.04	34.38
26 31 00 00-0140 EA Sensor Box (Fronius 4,240,104).....	1,432.26	34.38
26 31 00 00-0141 EA Ambient Temperature Sensor (Fronius 43,0001,1188).....	159.66	34.38
26 31 00 00-0142 EA Irradiance Sensor (Fronius 43,0001,1188).....	498.04	34.38
26 31 00 00-0143 EA Module Temperature Sensor (Fronius 43,0001,1190).....	554.57	34.38
26 31 00 00-0144 EA Wind Speed Sensor (Fronius 42,0411,0027).....	294.83	68.76
26 31 00 00-0145 Photovoltaic System Accessories (26 31)		
26 31 00 00-0146 EA Four Inverter Bypass Switch (OutBack AC-IOB-100Q).....	1,058.14	68.76
26 31 00 00-0147 EA Line Communication Filter (Enphase LCF).....	2,306.10	137.53
26 31 00 00-0148 EA 15 Meter RS 485 Communication Cable (SMA).....	176.86	10.31
26 31 00 00-0149 EA 15 Meter RS 232 Communication Cable (SMA).....	266.14	10.31
26 31 00 00-0150 EA 24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	40.78	3.41
26 31 00 00-0151 EA 36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	43.77	3.41
26 31 00 00-0152 EA 48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	45.46	3.41
26 31 00 00-0153 EA 72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	50.15	3.41
26 31 00 00-0154 EA 120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	57.18	3.41
26 31 00 00-0155 EA 240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	90.94	6.80
26 31 00 00-0156 EA 360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	112.76	6.80
26 31 00 00-0157 EA 420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect	148.12	10.21
26 31 00 00-0158 EA 36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	51.32	3.41
26 31 00 00-0159 EA 120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	71.24	3.41
26 31 00 00-0160 EA 240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	105.00	6.80
26 31 00 00-0161 EA 360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	140.15	6.80
26 31 00 00-0162 EA 600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	227.57	13.62
26 31 00 00-0163 EA 1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect	237.49	13.62
26 31 00 00-0164 EA Lighting Kit, 9 Watt Fluorescent, 12 Volt, 4.5 Ampere Hours Battery.....	4,232.48	371.32
Note: Tamper proof enclosure.		
26 31 00 00-0165 Photovoltaic Mounting Systems (26 31)		
26 31 00 00-0166 LF Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard).....	14.57	3.44
26 31 00 00-0167 EA Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229).....	42.16	17.19
26 31 00 00-0168 EA Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216).....	53.20	17.19
26 31 00 00-0169 EA 8" x 3/8" Hanger Bolt (UNIRAC 310046).....	27.99	6.87
Note: Supports mounting rail above tile or metal roof.		
26 31 00 00-0170 EA Mounting Rail Grounding Clip (UNIRAC 980006).....	13.39	5.16
Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.		
26 31 00 00-0171 EA Mounting Rail Grounding Lugs (UNIRAC 980012).....	28.50	6.87
Note: Two grounding lugs for each rail splice and one additional lug for each rail.		
26 31 00 00-0172 EA Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002).....	7.66	2.29
Note: Four for each row of modules you plan to mount.		
26 31 00 00-0173 EA Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008).....	8.02	2.29
Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.		
26 31 00 00-0174 EA Photovoltaic Module Mount L-Foot (UNIRAC 310065).....	19.94	6.87
26 31 00 00-0175 EA 12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121).....	118.41	34.38
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0176 EA 30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122).....	130.91	34.38
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0177 EA 44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123).....	140.97	34.38
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0178 EA 12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107).....	173.97	51.57
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0179 EA 44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108).....	211.46	51.57
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0180 EA 72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109).....	245.49	51.57
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 31 Photovoltaic Collectors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0181 EA 18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	270.85	68.76
26 31 00 00-0182 EA 64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	360.42	68.76
26 31 00 00-0183 EA 104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	506.95	103.14
26 31 00 00-0184 EA Ballasted Photovoltaic Module Frame (UNIRAC 310351) Note: Excludes ballast.	247.57	
26 31 00 00-0185 EA Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355) Note: Excludes ballast.	460.76	
26 31 00 00-0186 EA 3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051)	93.44	34.38
26 31 00 00-0187 EA 4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052)	94.59	34.38
26 31 00 00-0188 EA 6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053)	95.64	34.38
26 31 00 00-0189 EA 7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054)	98.27	34.38
26 31 00 00-0190 EA 3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553)	86.47	34.38
26 31 00 00-0191 EA 4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554)	87.80	34.38
26 31 00 00-0192 EA 6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555)	91.67	34.38
26 31 00 00-0193 EA 7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556)	90.57	34.38
26 31 00 00-0194 EA 3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390)	178.83	51.57
26 31 00 00-0195 EA 4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391)	179.63	51.57
26 31 00 00-0196 EA 7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394)	181.99	51.57
26 31 00 00-0197 EA Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370)	179.52	51.57
26 31 00 00-0198 EA Photovoltaic Module Standoff Flashing (UNIRAC 990103)	35.57	6.87
26 31 00 00-0199 EA Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161)	23.51	6.87
26 31 00 00-0200 EA 1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100)	44.52	10.31
26 31 00 00-0201 EA 3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100)	46.32	10.31
26 31 00 00-0202 EA Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100) Note: Mid or end clamp.	12.91	2.29
26 31 00 00-0203 EA Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024)	58.78	6.87
26 31 00 00-0204 EA Photovoltaic Module Wire Clip (UNIRAC 908002S-0100)	3.05	

26 32 Packaged Generator Assemblies (26 30)**26 32 13 Engine Generators (26 32)**

See CSI section 23 13 23 13-0001 for fuel storage tanks.

26 32 13 13 Diesel-Engine-Driven Generator Sets (26 32 13)

See CSI section 01 22 23 00-0886 for fuel reimbursement for commissioning.

26 32 13 13-0001 Diesel Generator Sets (Cummins) (26 32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0835 for loadbank rental, 23 13 23 13-0001 for fuel day tank.

26 32 13 13-0002 EA 20 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	34,933.25	1,179.84
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
For Single Phase, Add	1,292.65	
26 32 13 13-0003 EA 25 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	36,740.38	1,246.20
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
26 32 13 13-0004 EA 30 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	38,578.77	1,316.25
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
For Single Phase, Add	1,425.41	
26 32 13 13-0005 EA 35 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	39,383.40	1,452.67
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
26 32 13 13-0006 EA 40 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	40,202.93	1,592.78
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	



		Electrical	26	26
		Facility Electrical Power Generating and Storing Equipment	26 30	
		Packaged Generator Assemblies	26 32	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0007	EA	50 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	47,149.01 5,259.87 12,377.50 16,503.33 13,392.56 19,426.44 25,901.92	1,828.74
26 32 13 13-0008	EA	60 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	50,798.46 5,259.87 12,377.50 16,503.33 13,392.56 19,426.44 25,901.92	2,101.58
26 32 13 13-0009	EA	80 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	59,664.29 5,259.87 12,377.50 16,503.33 13,392.56 19,426.44 25,901.92	2,462.91
26 32 13 13-0010	EA	100 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	64,133.06 7,978.11 18,924.12 25,232.17 17,182.89 20,657.37 27,543.17	2,861.10
26 32 13 13-0011	EA	125 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	65,644.80 7,978.11 18,924.12 25,232.17 17,182.89 20,657.37 27,543.17	3,392.02
26 32 13 13-0012	EA	150 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	72,567.89 7,978.11 18,924.12 25,232.17 17,182.89 20,657.37 27,543.17	3,738.60
26 32 13 13-0013	EA	175 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	76,234.03 7,978.11 18,924.12 25,232.17 17,182.89 20,657.37 27,543.17	4,173.65
26 32 13 13-0014	EA	200 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	81,000.76 7,978.11 18,924.12 25,232.17 17,182.89 20,657.37 27,543.17	4,571.86
26 32 13 13-0015	EA	230 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	87,275.80 7,978.11 18,924.12 25,232.17 17,182.89 20,657.37 27,543.17	4,829.94
26 32 13 13-0016	EA	250 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	90,946.63 51,740.04 57,291.24 76,388.32 62,752.90 70,031.21 93,374.94	5,029.03
26 32 13 13-0017	EA	275 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	98,931.40 51,740.04 57,291.24 76,388.32 62,752.90 70,031.21 93,374.94	5,301.87
26 32 13 13-0018	EA	300 KW, 3 Phase, Standby Diesel Generator Set (Cummins)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quietsite Level 1 Steel Diesel Generator Enclosure, Add For Quietsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	101,107.68 51,740.04 57,291.24 76,388.32 62,752.90 70,031.21 93,374.94	5,537.84

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0019 EA 350 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	113,899.18	6,194.12
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
26 32 13 13-0020 EA 400 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	122,589.62	6,784.04
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
26 32 13 13-0021 EA 450 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	138,295.57	7,307.59
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
26 32 13 13-0022 EA 500 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	145,426.39	7,786.90
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
26 32 13 13-0023 EA 600 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	210,883.23	8,575.91
For Weather Resistant Steel Diesel Generator Enclosure, Add	105,695.41	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	127,281.97	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	169,709.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	124,318.39	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	148,281.58	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	197,708.77	
26 32 13 13-0024 EA 750 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	241,441.81	9,431.29
For Weather Resistant Steel Diesel Generator Enclosure, Add	105,695.41	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	127,281.97	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	169,709.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	124,318.39	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	148,281.58	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	197,708.77	
26 32 13 13-0025 EA 800 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	252,094.63	9,637.76
For Weather Resistant Steel Diesel Generator Enclosure, Add	105,695.41	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	127,281.97	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	169,709.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	124,318.39	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	148,281.58	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	197,708.77	
26 32 13 13-0026 EA 900 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	307,319.31	10,389.91
For Weather Resistant Steel Diesel Generator Enclosure, Add	105,695.41	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	127,281.97	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	169,709.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	124,318.39	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	148,281.58	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	197,708.77	
26 32 13 13-0027 EA 1,000 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	343,315.83	11,060.93
For Weather Resistant Steel Diesel Generator Enclosure, Add	105,695.41	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	127,281.97	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	169,709.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	124,318.39	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	148,281.58	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	197,708.77	
26 32 13 13-0028 Diesel Generator Sets (Generac SD) ^(26 32 13 13)		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with 24 hour run time fuel tank, radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes startup and training. Excludes fuel, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0835 for loadbank rental, 01 22 23 00-0886 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switch.		
26 32 13 13-0029 EA 10 KW, Industrial, Diesel Generator Set (Generac SD).....	22,480.81	737.40
For Steel Weather Protective Housing, Add	3,146.47	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,826.69	
26 32 13 13-0030 EA 15 KW, Industrial, Diesel Generator Set (Generac SD).....	22,939.75	884.88
For Steel Weather Protective Housing, Add	3,146.47	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,826.69	
26 32 13 13-0031 EA 20 KW, Industrial, Diesel Generator Set (Generac SD).....	23,772.66	988.11
For Steel Weather Protective Housing, Add	3,146.47	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,826.69	
26 32 13 13-0032 EA 25 KW, Industrial, Diesel Generator Set (Generac SD).....	25,549.13	1,179.84
For Steel Weather Protective Housing, Add	3,146.47	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,826.69	
26 32 13 13-0033 EA 30 KW, Industrial, Diesel Generator Set (Generac SD).....	26,141.38	1,316.25
For Steel Weather Protective Housing, Add	3,146.47	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,826.69	



		Electrical	26	26
		Facility Electrical Power Generating and Storing Equipment	26 30	
		Packaged Generator Assemblies	26 32	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0034	EA		35 KW, Industrial, Diesel Generator Set (Generac SD).....	28,980.01	1,452.67
			For Steel Weather Protective Housing, Add	3,146.47	
			For Level 1 Steel Weather/Sound Protective Housing, Add	5,826.69	
26 32 13 13-0035	EA		40 KW, Industrial, Diesel Generator Set (Generac SD).....	29,490.01	1,592.78
			For Steel Weather Protective Housing, Add	3,146.47	
			For Level 1 Steel Weather/Sound Protective Housing, Add	5,826.69	
26 32 13 13-0036	EA		50 KW, Industrial, Diesel Generator Set (Generac SD).....	30,558.82	1,828.74
			For Steel Weather Protective Housing, Add	3,146.47	
			For Level 1 Steel Weather/Sound Protective Housing, Add	5,826.69	
26 32 13 13-0037	EA		60 KW, Industrial, Diesel Generator Set (Generac SD).....	33,385.21	2,101.58
			For Steel Weather Protective Housing, Add	3,813.90	
			For Level 1 Steel Weather/Sound Protective Housing, Add	7,657.36	
26 32 13 13-0038	EA		80 KW, Industrial, Diesel Generator Set (Generac SD).....	40,196.75	2,462.91
			For Steel Weather Protective Housing, Add	3,813.90	
			For Level 1 Steel Weather/Sound Protective Housing, Add	8,257.09	
26 32 13 13-0039	EA		100 KW, Industrial, Diesel Generator Set (Generac SD).....	42,003.31	2,831.60
			For Steel Weather Protective Housing, Add	5,656.65	
			For Level 1 Steel Weather/Sound Protective Housing, Add	10,099.84	
26 32 13 13-0040	EA		135 KW, Industrial, Diesel Generator Set (Generac SD).....	52,128.46	3,465.75
			For Steel Weather Protective Housing, Add	5,656.65	
			For Level 1 Steel Weather/Sound Protective Housing, Add	10,442.14	
26 32 13 13-0041	EA		150 KW, Industrial, Diesel Generator Set (Generac SD).....	54,943.40	3,738.60
			For Steel Weather Protective Housing, Add	5,656.65	
			For Level 1 Steel Weather/Sound Protective Housing, Add	10,442.14	
26 32 13 13-0042	EA		180 KW, Industrial, Diesel Generator Set (Generac SD).....	62,440.38	4,240.02
			For Steel Weather Protective Housing, Add	5,656.65	
			For Level 1 Steel Weather/Sound Protective Housing, Add	10,442.14	
26 32 13 13-0043	EA		200 KW, Industrial, Diesel Generator Set (Generac SD).....	62,512.56	4,571.86
			For Steel Weather Protective Housing, Add	7,093.85	
			For Level 1 Steel Weather/Sound Protective Housing, Add	11,879.34	
26 32 13 13-0044	EA		230 KW, Industrial, Diesel Generator Set (Generac SD).....	75,377.19	4,829.94
			For Steel Weather Protective Housing, Add	7,093.85	
			For Level 1 Steel Weather/Sound Protective Housing, Add	19,100.96	
26 32 13 13-0045	EA		250 KW, Industrial, Diesel Generator Set (Generac SD).....	80,157.56	5,029.03
			For Steel Weather Protective Housing, Add	7,093.85	
			For Level 1 Steel Weather/Sound Protective Housing, Add	19,100.96	
26 32 13 13-0046	EA		275 KW, Industrial, Diesel Generator Set (Generac SD).....	82,344.80	5,301.87
			For Steel Weather Protective Housing, Add	10,806.05	
			For Level 1 Steel Weather/Sound Protective Housing, Add	22,813.16	
26 32 13 13-0047	EA		300 KW, Industrial, Diesel Generator Set (Generac SD).....	90,189.95	5,537.84
			For Steel Weather Protective Housing, Add	10,806.05	
			For Level 1 Steel Weather/Sound Protective Housing, Add	22,813.16	
26 32 13 13-0048	EA		350 KW, Industrial, Diesel Generator Set (Generac SD).....	97,946.09	6,194.12
			For Steel Weather Protective Housing, Add	10,806.05	
			For Level 1 Steel Weather/Sound Protective Housing, Add	23,474.87	
26 32 13 13-0049	EA		400 KW, Industrial, Diesel Generator Set (Generac SD).....	105,224.98	6,636.56
			For Steel Weather Protective Housing, Add	10,806.05	
			For Level 1 Steel Weather/Sound Protective Housing, Add	23,474.87	
26 32 13 13-0050	EA		500 KW, Industrial, Diesel Generator Set (Generac SD).....	117,127.46	7,786.90
			For Steel Weather Protective Housing, Add	18,116.02	
			For Level 1 Steel Weather/Sound Protective Housing, Add	25,816.29	
26 32 13 13-0051	EA		600 KW, Industrial, Diesel Generator Set (Generac SD).....	157,338.39	8,575.91
			For Steel Weather Protective Housing, Add	23,588.97	
			For Level 1 Steel Weather/Sound Protective Housing, Add	36,257.79	
26 32 13 13-0052			Diesel Generator Sets (Kohler) (26 32 13 13) Note: 3 Phase, 4-Wire 480/277, 416/240 or 380/220 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0835 for loadbank rental, 01 22 23 00-0886 for fuel reimbursement, 23 13 23 13-0001 for fuel day tank, 26 36 23 00-0000 for automatic transfer switch.		
26 32 13 13-0053	EA		80 KW Diesel Generator Set, 3 Phase (Kohler 80REQZJ).....	36,107.35	2,462.91
			For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
			For Quiesite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
			For Quiesite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
			For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
			For Quiesite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
			For Quiesite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
26 32 13 13-0054	EA		100 KW Diesel Generator Set, 3 Phase (Kohler 100REQZJ).....	37,963.32	2,861.10
			For Weather Resistant Steel Diesel Generator Enclosure, Add	7,978.11	
			For Quiesite Level 1 Steel Diesel Generator Enclosure, Add	18,924.12	
			For Quiesite Level 2 Steel Diesel Generator Enclosure, Add	25,232.17	
			For Weather Resistant Aluminum Diesel Generator Enclosure, Add	17,182.89	
			For Quiesite Level 1 Aluminum Diesel Generator Enclosure, Add	20,657.37	
			For Quiesite Level 2 Aluminum Diesel Generator Enclosure, Add	27,543.17	
26 32 13 13-0055	EA		125 KW Diesel Generator Set, 3 Phase (Kohler 125REQZJ).....	47,863.60	3,392.02
			For Weather Resistant Steel Diesel Generator Enclosure, Add	7,978.11	
			For Quiesite Level 1 Steel Diesel Generator Enclosure, Add	18,924.12	
			For Quiesite Level 2 Steel Diesel Generator Enclosure, Add	25,232.17	
			For Weather Resistant Aluminum Diesel Generator Enclosure, Add	17,182.89	
			For Quiesite Level 1 Aluminum Diesel Generator Enclosure, Add	20,657.37	
			For Quiesite Level 2 Aluminum Diesel Generator Enclosure, Add	27,543.17	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0056 EA 150 KW Diesel Generator Set, 3 Phase (Kohler 150REOZJ).....	49,447.44	3,738.60
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,978.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	17,182.89	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,657.37	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	27,543.17	
26 32 13 13-0057 EA 200 KW Diesel Generator Set, 3 Phase (Kohler 200REOZJ).....	58,915.18	4,571.86
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,978.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	17,182.89	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,657.37	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	27,543.17	
26 32 13 13-0058 EA 250 KW Diesel Generator Set, 3 Phase (Kohler 250REOZJ).....	73,286.61	5,029.03
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
26 32 13 13-0059 EA 300 KW Diesel Generator Set, 3 Phase (Kohler 300REOZJ).....	80,344.92	5,537.84
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
26 32 13 13-0060 EA 350 KW Diesel Generator Set, 3 Phase (Kohler 350REOZJ).....	89,008.13	6,194.12
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
26 32 13 13-0061 EA 400 KW Diesel Generator Set, 3 Phase (Kohler 400REOZJ).....	94,649.77	6,784.04
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
26 32 13 13-0062 EA 500 KW Diesel Generator Set, 3 Phase (Kohler 500REOZJ).....	112,154.03	7,786.90
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
26 32 13 13-0063 EA 600 KW Diesel Generator Set, 3 Phase (Kohler 600REOZJ).....	139,086.32	8,575.91
For Weather Resistant Steel Diesel Generator Enclosure, Add	105,695.41	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	127,281.97	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	169,709.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	124,318.39	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	148,281.58	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	197,708.77	
26 32 13 13-0064 EA 1,250 KW Diesel Generator Set, 3 Phase (Kohlar REOZDD).....	477,289.03	11,429.63
26 32 13 13-0065 EA 1,500 KW Diesel Generator Set, 3 Phase (Kohlar REOZDD).....	487,829.48	11,798.33
26 32 13 13-0066 EA 1,750 KW Diesel Generator Set, 3 Phase (Kohlar REOZDD).....	570,443.90	12,167.03
26 32 13 13-0067 EA 2,000 KW Diesel Generator Set, 3 Phase (Kohlar REOZDD).....	672,336.61	12,535.72
26 32 13 13-0068 EA 2,250 KW Diesel Generator Set, 3 Phase (Kohlar REOZDD).....	765,376.33	12,904.42
26 32 13 13-0069 EA 2,500 KW Diesel Generator Set, 3 Phase (Kohlar REOZDB).....	964,063.31	13,273.12
26 32 13 13-0070 EA 2,800 KW Diesel Generator Set, 3 Phase (Kohlar REOZDB).....	1,162,750.32	13,641.82
26 32 13 13-0071 EA 3,000 KW Diesel Generator Set, 3 Phase (Kohlar REOZD).....	1,330,148.72	14,379.21
26 32 13 13-0072 EA 3,250 KW Diesel Generator Set, 3 Phase (Kohlar REOZD).....	1,419,874.35	15,116.61
26 32 13 13-0073 EA 4,000 KW Diesel Generator Set, 3 Phase (Caterpillar C175).....	2,071,603.24	17,328.79
26 32 13 13-0074 Diesel Generator Sets (Taylor) (26 32 13 13)		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0835 for loadbank rental, 23 13 23 13-0001 for fuel day tank, 26 36 23 00-0000 for automatic transfer switch.		
26 32 13 13-0075 EA 9 KW Diesel Generator Set, 3 Phase (Taylor TD9).....	25,476.72	883.99
26 32 13 13-0076 EA 13 KW Diesel Generator Set, 3 Phase (Taylor TD13).....	26,195.80	997.10
26 32 13 13-0077 EA 20 KW Diesel Generator Set, 3 Phase (Taylor TD20).....	27,412.85	1,112.73
26 32 13 13-0078 EA 28 KW Diesel Generator Set, 3 Phase (Taylor TD28).....	30,437.73	1,248.12
26 32 13 13-0079 EA 30 KW Diesel Generator Set, 3 Phase (Taylor TD30).....	31,842.09	1,316.25
26 32 13 13-0080 EA 55 KW Diesel Generator Set, 3 Phase (Taylor TD55).....	35,694.44	1,965.16
26 32 13 13-0081 EA 60 KW Diesel Generator Set, 3 Phase (Taylor TD60).....	38,702.80	2,101.58
26 32 13 13-0082 EA 80 KW Diesel Generator Set, 3 Phase (Taylor TD80).....	41,603.22	2,462.91
26 32 13 13-0083 EA 100 KW Diesel Generator Set, 3 Phase (Taylor TD100).....	43,231.08	2,861.10
26 32 13 13-0084 EA 125 KW Diesel Generator Set, 3 Phase (Taylor TD125).....	57,423.15	3,392.02



		Electrical	26	26
		Facility Electrical Power Generating and Storing Equipment	26 30	
		Packaged Generator Assemblies	26 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0085 EA 140 KW Diesel Generator Set, 3 Phase (Taylor TD140)	58,403.71	3,565.31
26 32 13 13-0086 EA 150 KW Diesel Generator Set, 3 Phase (Taylor TD150)	59,443.59	3,738.60
26 32 13 13-0087 EA 175 KW Diesel Generator Set, 3 Phase (Taylor TD175)	63,336.34	4,173.65
26 32 13 13-0088 EA 200 KW Diesel Generator Set, 3 Phase (Taylor TD200)	66,252.16	4,571.86
26 32 13 13-0089 EA 250 KW Diesel Generator Set, 3 Phase (Taylor TD250)	80,301.00	5,029.03
26 32 13 13-0090 EA 300 KW Diesel Generator Set, 3 Phase (Taylor TD300)	90,962.35	5,537.84
26 32 13 13-0091 EA 350 KW Diesel Generator Set, 3 Phase (Taylor TD350)	99,307.55	6,194.12
26 32 13 13-0092 EA 400 KW Diesel Generator Set, 3 Phase (Taylor TD400)	101,942.26	6,784.04
26 32 13 13-0093 EA 450 KW Diesel Generator Set, 3 Phase (Taylor TD450)	110,003.70	7,307.59
26 32 13 13-0094 EA 500 KW Diesel Generator Set, 3 Phase (Taylor TD500)	115,652.76	7,786.90
26 32 13 13-0095 EA 550 KW Diesel Generator Set, 3 Phase (Taylor TD550)	118,961.51	8,181.40
26 32 13 13-0096 EA 600 KW Diesel Generator Set, 3 Phase (Taylor TD600)	146,333.48	8,575.91
26 32 13 13-0097 Diesel Particulate Filters (26 32 13 13)		
26 32 13 13-0098 EA Up To 50 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	38,314.78	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0099 EA >50 To 75 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	50,083.66	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0100 EA >75 To 100 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	60,683.48	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0101 EA >100 To 200 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	74,438.28	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0102 EA >200 To 500 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	87,499.61	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0103 EA >500 To 1,000 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	109,304.48	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0104 Fuel Level Alarm And Float Switch (26 32 13 13)		
26 32 13 13-0105 EA Liquid Level Tank Alarm and 3 Level Float Switch (Cummins)	6,483.04	
26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)		
26 32 13 19-0001 Natural Gas Or Propane Generator Sets (Cummins) (26 32 13 19)		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0835 for loadbank rental.		
26 32 13 19-0002 EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA)	15,622.88	988.11
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,783.94
For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		12,377.50
For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		16,503.33
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		5,181.36
For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		8,596.36
26 32 13 19-0003 EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB)	17,652.60	1,179.84
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,783.94
For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		12,377.50
For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		16,503.33
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		5,181.36
For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		8,596.36
26 32 13 19-0004 EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC)	20,359.26	1,312.57
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,783.94
For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		12,377.50
For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		16,503.33
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		5,181.36
For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		8,596.36
26 32 13 19-0005 EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA)	23,082.43	1,452.67
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,783.94
For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		12,377.50
For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		16,503.33
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add		14,655.99
For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		24,599.21
26 32 13 19-0006 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB)	25,891.97	1,592.78
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,783.94
For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		12,377.50
For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		16,503.33
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add		14,655.99
For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		24,599.21
26 32 13 19-0007 EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC)	28,055.12	1,718.13
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,783.94
For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		12,377.50
For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		16,503.33
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add		14,655.99
For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		24,599.21

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0008	EA	60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE).....	30,734.42	2,101.58
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,783.94	
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,377.50	
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,503.33	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	14,655.99	
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0009	EA	70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF).....	32,994.93	2,352.29
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,783.94	
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,377.50	
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,503.33	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	14,655.99	
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0010	EA	85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG).....	43,175.84	2,514.52
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,719.01	
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,924.12	
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	25,232.17	
		For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	17,182.89	
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0011	EA	100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH).....	51,974.36	2,831.60
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,719.01	
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,924.12	
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	25,232.17	
		For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	17,182.89	
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0012	EA	125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLA).....	59,562.77	3,392.02
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,719.01	
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,924.12	
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	25,232.17	
		For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	17,182.89	
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0013	EA	150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLB).....	70,720.48	3,738.60
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,719.01	
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,924.12	
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	25,232.17	
		For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	17,182.89	
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0014	EA	175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA).....	113,970.13	9,944.37
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	46,529.24	
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	51,506.37	
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	68,675.15	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	50,874.02	
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	76,341.70	
26 32 13 19-0015	EA	205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB).....	129,323.70	4,490.74
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	46,529.24	
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	51,506.37	
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	68,675.15	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	50,874.02	
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	76,341.70	
26 32 13 19-0016	EA	250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC).....	139,101.65	5,029.03
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	46,529.24	
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	51,506.37	
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	68,675.15	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	50,874.02	
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	76,341.70	
26 32 13 19-0017	EA	300 KW Natural Gas Generator Set, 3 Phase (Cummins GFCA).....	179,679.44	5,537.84
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	46,529.24	
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	51,506.37	
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	68,675.15	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	50,874.02	
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	76,341.70	
26 32 13 19-0018	EA	350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB).....	192,910.04	6,194.12
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	46,529.24	
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	51,506.37	
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	68,675.15	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	50,874.02	
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	76,341.70	
26 32 13 19-0019	EA	450 KW Natural Gas Generator Set, 3 Phase (Cummins GFCA).....	270,713.46	7,307.59
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	101,598.39	
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	107,947.53	
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	143,930.04	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	115,398.19	
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	163,097.66	
26 32 13 19-0020	EA	500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB).....	345,938.62	7,786.90
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	101,598.39	
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	107,947.53	
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	143,930.04	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	115,398.19	
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	163,097.66	
26 32 13 19-0021	EA	550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC).....	386,979.45	8,207.21
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	101,598.39	
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	107,947.53	
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	143,930.04	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	115,398.19	
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	163,097.66	



		Electrical	26	26
		Facility Electrical Power Generating and Storing Equipment	26 30	
		Packaged Generator Assemblies	26 32	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
26 32 13 19-0022	EA	600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA)	440,611.24	8,575.91
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	101,598.39	
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	107,947.53	
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	143,930.04	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	115,398.19	
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	163,097.66	
26 32 13 19-0023	EA	650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB)	460,686.09	8,900.36
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	101,598.39	
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	107,947.53	
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	143,930.04	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	115,398.19	
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	163,097.66	
26 32 13 19-0024	EA	725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC)	487,287.42	9,512.40
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	101,598.39	
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	107,947.53	
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	143,930.04	
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	115,398.19	
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	163,097.66	
26 32 13 19-0025 Natural Gas Or Propane Generator Sets (Generac QTA) (26 32 13 19)				
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes startup and training. Excludes fuel, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0835 for loadbank rental, 01 22 23 00-0886 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switches.				
26 32 13 19-0026	EA	25 KW, Commercial, Natural Gas Generator Set (Generac QTA)	17,734.76	1,179.84
		For Steel Weather Protective Housing, Add	1,188.67	
		For Aluminum Weather Protective Housing, Add	1,845.93	
26 32 13 19-0027	EA	55 KW, Commercial, Natural Gas Generator Set (Generac QTA)	26,394.89	1,968.85
		For Steel Weather Protective Housing, Add	1,685.74	
		For Aluminum Weather Protective Housing, Add	2,169.16	
26 32 13 19-0028	EA	70 KW, Commercial, Natural Gas Generator Set (Generac QTA)	29,667.84	2,352.29
		For Steel Weather Protective Housing, Add	2,180.28	
		For Aluminum Weather Protective Housing, Add	2,167.25	
26 32 13 19-0029	EA	80 KW, Commercial, Natural Gas Generator Set (Generac QTA)	31,232.18	2,462.91
		For Steel Weather Protective Housing, Add	1,685.74	
		For Aluminum Weather Protective Housing, Add	2,538.15	
26 32 13 19-0030	EA	100 KW, Commercial, Natural Gas Generator Set (Generac QTA)	38,118.85	2,831.60
		For Steel Weather Protective Housing, Add	2,180.28	
		For Aluminum Weather Protective Housing, Add	2,336.01	
26 32 13 19-0031	EA	130 KW, Commercial, Natural Gas Generator Set (Generac QTA)	44,086.26	3,377.27
		For Steel Weather Protective Housing, Add	2,180.28	
		For Aluminum Weather Protective Housing, Add	1,923.16	
26 32 13 19-0032	EA	150 KW, Commercial, Natural Gas Generator Set (Generac QTA)	49,758.40	3,738.60
		For Steel Weather Protective Housing, Add	2,180.28	
		For Aluminum Weather Protective Housing, Add	1,872.62	
26 32 13 19-0033 Natural Gas Or Propane Generator Sets (Generac SG) (26 32 13 19)				
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes startup and training. Excludes fuel, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0835 for loadbank rental, 01 22 23 00-0886 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switches.				
26 32 13 19-0034	EA	35 KW, Industrial, Natural Gas Or Propane Generator Set (Generac SG)	20,904.08	1,452.67
		For Steel Weather Protective Housing, Add	3,623.20	
		For Level 2 Steel Weather/Sound Protective Housing, Add	6,488.40	
26 32 13 19-0035	EA	40 KW, Industrial, Natural Gas Or Propane Generator Set (Generac SG)	23,462.14	1,592.78
		For Steel Weather Protective Housing, Add	3,623.20	
		For Level 2 Steel Weather/Sound Protective Housing, Add	6,488.40	
26 32 13 19-0036	EA	45 KW, Industrial, Natural Gas Or Propane Generator Set (Generac SG)	24,441.32	1,718.13
		For Steel Weather Protective Housing, Add	3,623.20	
		For Level 2 Steel Weather/Sound Protective Housing, Add	6,488.40	
26 32 13 19-0037	EA	70 KW, Industrial, Natural Gas Generator Set (Generac SG)	32,547.01	2,352.29
		For Steel Weather Protective Housing, Add	2,180.28	
		For Level 2 Steel Weather/Sound Protective Housing, Add	9,060.87	
26 32 13 19-0038	EA	100 KW, Industrial, Natural Gas Generator Set (Generac SG)	38,838.41	2,831.60
		For Steel Weather Protective Housing, Add	2,180.28	
		For Level 2 Steel Weather/Sound Protective Housing, Add	9,060.87	
26 32 13 19-0039	EA	130 KW, Industrial, Natural Gas Generator Set (Generac SG)	46,903.47	3,377.27
		For Steel Weather Protective Housing, Add	2,180.28	
		For Level 2 Steel Weather/Sound Protective Housing, Add	9,060.87	
26 32 13 19-0040	EA	150 KW, Industrial, Natural Gas Generator Set (Generac SG)	77,549.02	3,738.60
		For Steel Weather Protective Housing, Add	9,534.75	
		For Level 2 Steel Weather/Sound Protective Housing, Add	17,381.85	
26 32 13 19-0041	EA	175 KW, Industrial, Natural Gas Generator Set (Generac SG)	86,216.67	4,173.65
		For Steel Weather Protective Housing, Add	9,534.75	
		For Level 2 Steel Weather/Sound Protective Housing, Add	17,381.85	
26 32 13 19-0042	EA	200 KW, Industrial, Natural Gas Generator Set (Generac SG)	91,334.20	4,571.86
		For Steel Weather Protective Housing, Add	9,534.75	
		For Level 2 Steel Weather/Sound Protective Housing, Add	17,381.85	
26 32 13 19-0043	EA	250 KW, Industrial, Natural Gas Generator Set (Generac SG)	131,162.75	5,029.03
		For Steel Weather Protective Housing, Add	9,534.75	
		For Level 2 Steel Weather/Sound Protective Housing, Add	17,381.85	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0044 EA 275 KW, Industrial, Natural Gas Generator Set (Generac SG)..... <i>For Steel Weather Protective Housing, Add</i> <i>For Level 2 Steel Weather/Sound Protective Housing, Add</i>	133,819.42 9,534.75 17,381.85	5,301.87
26 32 13 19-0045 EA 300 KW, Industrial, Natural Gas Generator Set (Generac SG)..... <i>For Steel Weather Protective Housing, Add</i> <i>For Level 2 Steel Weather/Sound Protective Housing, Add</i>	136,523.43 9,534.75 17,381.85	5,537.84
26 32 13 19-0046 Natural Gas Or Propane Generator Sets (Taylor) (26 32 13 19)		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0835 for loadbank rental, 26 36 23 00-0000 for automatic transfer switches.		
26 32 13 19-0047 EA 30 KW Natural Gas Or Propane Generator Set, 3 Phase (Taylor TG30).....	27,766.40	1,316.25
26 32 13 19-0048 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Taylor TG40).....	30,250.45	1,578.03
26 32 13 19-0049 EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Taylor TG60).....	31,578.95	2,101.58
26 32 13 19-0050 EA 80 KW Natural Gas Or Propane Generator Set, 3 Phase (Taylor TG80).....	47,187.73	2,462.91
26 32 13 19-0051 EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Taylor TG100).....	51,405.32	2,861.10
26 32 13 19-0052 EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Taylor TG125).....	67,289.89	3,392.02
26 32 13 19-0053 EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Taylor TG150).....	70,514.53	3,738.60
26 32 13 19-0054 EA 200 KW Natural Gas Or Propane Generator Set, 3 Phase (Taylor TG200).....	116,093.82	4,571.86
26 32 13 19-0055 EA 250 KW Natural Gas Or Propane Generator Set, 3 Phase (Taylor TG250).....	161,964.71	5,029.03
26 32 13 19-0056 EA 350 KW Natural Gas Or Propane Generator Set, 3 Phase (Taylor TG350).....	197,405.21	6,194.12
26 32 13 19-0057 EA 400 KW Natural Gas Or Propane Generator Set, 3 Phase (Taylor TG400).....	235,165.72	6,784.04
26 32 13 19-0058 Natural Gas Or Propane Generator Sets (Kohler KG) (26 32 13 19)		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes startup and training. Excludes fuel, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0835 for loadbank rental, 01 22 23 00-0886 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switches.		
26 32 13 19-0059 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Kohler KG40)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	23,957.47 4,783.94 12,377.50 16,503.33 14,655.99 24,599.21	1,592.78
26 32 13 19-0060 EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Kohler KG45)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	25,309.15 4,783.94 12,377.50 16,503.33 14,655.99 24,599.21	1,718.13
26 32 13 19-0061 EA 50 KW Natural Gas Or Propane Generator Set, 3 Phase (Kohler KG50)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	27,261.32 4,783.94 12,377.50 16,503.33 14,655.99 24,599.21	1,843.49
26 32 13 19-0062 EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Kohler KG60)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	28,678.27 4,783.94 12,377.50 16,503.33 14,655.99 24,599.21	2,101.58
26 32 13 19-0063 EA 80 KW Natural Gas Or Propane Generator Set, 3 Phase (Kohler KG80)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	34,478.48 8,719.01 18,924.12 25,232.17 17,182.89 24,599.21	2,514.52
26 32 13 19-0064 EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Kohler KG100)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	38,865.88 8,719.01 18,924.12 25,232.17 17,182.89 24,599.21	2,831.60
26 32 13 19-0065 EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Kohler KG125)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	44,141.29 8,719.01 18,924.12 25,232.17 17,182.89 24,599.21	3,392.02
26 32 13 19-0066 EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Kohler KG150)..... <i>For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add</i>	52,879.42 8,719.01 18,924.12 25,232.17 17,182.89 24,599.21	3,738.60



Electrical			26
Facility Electrical Power Generating and Storing Equipment			26 30
Packaged Generator Assemblies			26 32

26

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0067	EA	180 KW Natural Gas Generator Set, 3 Phase (Kohler KG180) For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	77,109.76 46,529.24 51,506.37 68,675.15 50,874.02 76,341.70	9,944.37
26 32 13 19-0068	EA	200 KW Natural Gas Generator Set, 3 Phase (Kohler KG200) For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	87,744.60 46,529.24 51,506.37 68,675.15 50,874.02 76,341.70	4,490.74
26 32 13 19-0069		Small Natural Gas Or Propane Air-Cooled Generator Sets (26 32 13 19)		
26 32 13 19-0070	EA	7.5 KW Natural Gas Or Propane Air-Cooled Generator Set Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.	5,319.92	633.85
26 32 13 19-0071	EA	10 KW Natural Gas Or Propane Air-Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	6,696.34	704.27
26 32 13 19-0072	EA	14 KW Natural Gas Or Propane Air-Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	7,718.49	774.71
26 32 29		Rotary Converters (26 32)		
26 32 29 00-0001		60 Hz AC Input 230 Or 460 Volt, 125 Volt DC Output (26 32 29)		
26 32 29 00-0002	EA	3 KW, 24 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,416.34	275.06
26 32 29 00-0003	EA	5 KW, 40 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,685.82	275.06
26 32 29 00-0004	EA	7.5 KW, 60 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,802.26	275.06
26 32 29 00-0005	EA	10 KW, 80 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,934.36	275.06
26 32 29 00-0006	EA	15 KW, 120 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	18,799.36	343.82
26 32 29 00-0007	EA	20 KW, 160 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	20,358.70	343.82
26 32 29 00-0008	EA	25 KW, 200 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	21,317.61	343.82
26 32 29 00-0009	EA	40 KW, 320 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	25,960.50	453.83
26 32 29 00-0010	EA	50 KW, 400 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	28,851.39	453.83
26 32 29 00-0011		60 Hz AC Input, 230 Or 460 Volt, 250 Volts DC Output (26 32 29)		
26 32 29 00-0012	EA	3 KW, 12 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,059.33	275.06
26 32 29 00-0013	EA	5 KW, 20 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,378.60	275.06
26 32 29 00-0014	EA	7.5 KW, 30 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,444.79	275.06
26 32 29 00-0015	EA	10 KW, 40 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,900.84	275.06
26 32 29 00-0016	EA	15 KW, 60 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	19,144.39	343.82
26 32 29 00-0017	EA	20 KW, 80 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	21,053.24	343.82
26 32 29 00-0018	EA	25 KW, 100 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	21,747.78	343.82
26 32 29 00-0019	EA	40 KW, 160 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	25,857.44	453.83
26 32 29 00-0020	EA	50 KW, 200 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	27,430.23	453.83
26 32 29 00-0021		460 Volt 3 Phase AC Motor Drive 250 Volt DC (26 32 29)		
26 32 29 00-0022	EA	33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	30,291.15	5,161.76
26 32 29 00-0023	EA	40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	33,583.56	5,161.76
26 32 29 00-0024	EA	50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	38,192.15	7,373.96
26 32 29 00-0025	EA	65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	44,573.31	7,373.96
26 32 29 00-0026	EA	85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	50,597.07	7,373.96
26 32 29 00-0027	EA	100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	59,389.86	11,060.93
26 32 29 00-0028	EA	125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	71,965.09	11,060.93
26 32 29 00-0029		4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC (26 32 29)		
26 32 29 00-0030	EA	170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	105,212.99	14,747.91
26 32 29 00-0031	EA	200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	114,643.02	14,747.91
26 32 29 00-0032	EA	240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	137,923.77	19,172.28
26 32 29 00-0033	EA	320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	156,782.05	23,301.69
26 32 29 00-0034	EA	400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	185,745.82	23,301.69
26 32 29 00-0035	EA	560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	263,459.60	34,805.07
26 32 29 00-0036	EA	640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	272,559.35	34,805.07
26 32 29 00-0037	EA	800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	313,867.77	40,556.75
26 32 36		Resistive Load Banks (26 32) See CSI section 01 22 23 00-0835 for resistive load bank testing of generators, 26 32 13 00-0000 for generators.		
26 33		Battery Equipment (26 30)		
26 33 13		Batteries (26 33)		
26 33 13 00-0001		Standby Batteries (26 33 13)		
26 33 13 00-0002	EA	12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery	1,275.95	34.43
26 33 13 00-0003	EA	12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket.....	1,378.25	34.43
26 33 13 00-0004	EA	725CCA, Group 31, 12 Volt Lead Calcium Standby Battery.....	375.99	34.43

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 33 Battery Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 13 00-0005	EA	810CCA, Group 24, 12 Volt Lead Calcium Standby Battery	342.21	34.43
26 33 13 00-0006	EA	1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery	583.07	34.43
26 33 13 00-0007	EA	1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery	676.40	34.43
26 33 43 Battery Chargers (26 33)				
26 33 43 00-0001		Solid State Chargers, Single Phase (26 33 43)		
		Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.		
26 33 43 00-0002	EA	Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	3,677.63	785.35
26 33 43 00-0003	EA	Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	4,290.10	785.35
26 33 43 00-0004	EA	Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	4,722.19	785.35
26 33 43 00-0005	EA	Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	4,997.85	929.84
26 33 53 Static Uninterruptible Power Supply (26 33)				
26 33 53 00-0001		Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)		
26 33 53 00-0002		Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53 00-0001)		
26 33 53 00-0003		120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
		Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0004	EA	0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120).....	1,265.95	136.16
		Note: Includes 12 minutes of battery backup at full load.		
26 33 53 00-0005	EA	0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120).....	1,511.57	158.84
		Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0006	EA	1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120).....	1,860.83	181.53
		Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0007	EA	1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120).....	2,270.35	204.23
		Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0008	EA	2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120).....	2,907.61	226.92
		Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0009	EA	3 kVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120).....	4,667.81	272.30
		Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0010		208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
		Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0011	EA	3 kVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208).....	4,582.68	272.30
		Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0012		120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
		Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0013	EA	5 kVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208).....	7,060.03	363.07
		Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0014	EA	6 kVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208).....	7,722.53	408.46
		Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0015	EA	8 kVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208).....	11,529.36	499.22
		Note: Includes 7 minutes of battery backup at full load.		
26 33 53 00-0016	EA	10 kVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208).....	13,248.40	544.60
		Note: Includes 4-1/2 minutes of battery backup at full load.		
26 33 53 00-0017		230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
		Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0018	EA	0.7 kVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230).....	1,511.57	158.84
		Note: Includes 11 minutes of battery backup at full load.		
26 33 53 00-0019	EA	1 kVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230).....	1,860.83	181.53
		Note: Includes 6 minutes of battery backup at full load.		



Electrical			26
Facility Electrical Power Generating and Storing Equipment			26 30
Battery Equipment			26 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0020	EA	1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230).....	2,295.50	204.23
		Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0021	EA	2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230)	2,913.68	226.92
		Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0022	EA	3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230)	4,686.70	272.30
		Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0023	EA	5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230)	6,775.74	363.07
		Note: Includes 9 minutes of battery backup at full load.		
26 33 53 00-0024	EA	6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230)	8,313.58	408.46
		Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0025	EA	10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230).....	12,842.01	544.60
		Note: Includes 3 minutes of battery backup at full load.		
26 33 53 00-0026		Optional Accessories For Single Phase, Uninterruptible Power Supply Systems (26 33 53 00-0001)		
26 33 53 00-0027	EA	External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT).....	829.50	41.26
		Note: Rack mount or tower configuration.		
26 33 53 00-0028	EA	External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT).....	1,085.22	41.26
		Note: Rack mount or tower configuration.		
26 33 53 00-0029	EA	External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT).....	1,056.75	41.26
		Note: Rack mount or tower configuration.		
26 33 53 00-0030	EA	External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT).....	719.34	41.26
		Note: Rack mount or tower configuration.		
26 33 53 00-0031	EA	Internal Replacement Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT).....	1,078.91	136.16
26 33 53 00-0032	EA	Internal Replacement Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT).....	1,216.43	181.53
26 33 53 00-0033		Three Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)		
26 33 53 00-0034		208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery (26 33 53 00-0033)		
		Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.		
26 33 53 00-0035	EA	10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	44,294.39	544.60
26 33 53 00-0036	EA	15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	49,067.71	726.13
26 33 53 00-0037	EA	20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	54,871.06	907.68
26 33 53 00-0038	EA	30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	59,541.36	1,089.21
26 33 53 00-0039	EA	40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	71,628.03	1,270.75
26 33 53 00-0040		208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (26 33 53 00-0033)		
		Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0041	EA	60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	97,545.44	2,271.16
26 33 53 00-0042	EA	80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	106,264.71	2,811.91
26 33 53 00-0043	EA	100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	117,595.19	3,280.56
26 33 53 00-0044	EA	120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	144,994.49	3,713.16
26 33 53 00-0045	EA	140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	150,659.71	4,145.76
26 33 53 00-0046	EA	160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	156,572.18	4,578.37
26 33 53 00-0047	EA	180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	163,720.72	5,010.96
26 33 53 00-0048	EA	200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	170,869.26	5,443.56
26 33 53 00-0049		480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (26 33 53 00-0033)		
		Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0050	EA	50 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	91,020.10	1,874.60

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 33 Battery Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0051 EA 100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	118,213.22	3,294.98
26 33 53 00-0052 EA 150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	161,305.30	3,806.89
26 33 53 00-0053 EA 200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	189,837.65	4,181.81
26 33 53 00-0054 EA 250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	221,872.17	4,614.41
26 33 53 00-0055 Optional Accessories For Three Phase, Uninterruptible Power Supply Systems (26 33 53 00-0033)		
26 33 53 00-0056 EA Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....	743.18	68.76
26 33 53 00-0057 EA Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....	1,191.84	68.76
26 33 53 00-0058 EA Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....	2,302.67	137.53
26 33 53 00-0059 EA Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....	7,191.49	550.10
26 33 53 00-0060 EA 12 Volt, 491 Watt, 3 Phase, 134 Ampere Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	674.33	68.76
26 33 53 00-0061 EA 12 Volt, 204 Watt, 3 Phase, 55 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	368.72	68.76
26 33 53 00-0062 EA 12 Volt, 257 Watt, 3 Phase, 65 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	413.31	68.76
26 33 53 00-0063 EA 12 Volt, 311 Watt, 3 Phase, 75 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	457.91	68.76
26 33 53 00-0064 EA 12 Volt, 374 Watt, 3 Phase, 90 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	538.18	68.76
26 33 53 00-0065 EA 12 Volt, 415 Watt, 3 Phase, 100 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	564.94	68.76
26 33 53 00-0066 EA 12 Volt, 493 Watt, 3 Phase, 135 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	703.19	68.76
26 33 53 00-0067 EA 12 Volt, 540 Watt, 3 Phase, 150 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	736.63	68.76
26 33 53 00-0068 Other Uninterruptable Power Supply Equipment (26 33 53)		
26 33 53 00-0069 EA Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	6,601.00	125.65
26 33 53 00-0070 EA Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	7,947.07	251.31
26 33 53 00-0071 EA 1 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	34.78	7.54
26 33 53 00-0072 EA 2 Pole, 15 To 40 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	62.64	9.42
26 33 53 00-0073 EA 2 Pole, 50 To 80 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	117.38	9.42
26 33 53 00-0074 EA 3 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	171.83	12.57
26 33 53 00-0075 EA 3 Pole, 70 To 100 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	244.08	12.57
26 33 53 00-0076 EA Uninterrupted Power Supply Remote Status Panel.....	4,520.93	125.65
26 33 53 00-0077 EA Uninterrupted Power Supply Remote Contact Board.....	1,502.19	94.24
26 35 Power Filters and Conditioners (26 30)		
26 35 33 Power Factor Correction Equipment (26 35)		
26 35 33 16 Low-Voltage Power Factor Correction Equipment (26 35 33)		
26 35 33 16-0001 Power Factor Correction Capacitors (26 35 33 16)		
26 35 33 16-0002 EA Power Factor Correction Capacitors, 2.0 KVAC.....	1,226.58	
26 35 33 16-0003 EA Power Factor Correction Capacitors, 3.0 KVAC.....	1,358.48	
26 35 33 16-0004 EA Power Factor Correction Capacitors, 4.0 KVAC.....	1,490.37	
26 35 33 16-0005 EA Power Factor Correction Capacitors, 5.0 KVAC.....	1,616.98	
26 35 33 16-0006 EA Power Factor Correction Capacitors, 7.5 KVAC.....	1,986.28	
26 35 33 16-0007 EA Power Factor Correction Capacitors, 10.0 KVAC.....	2,426.79	
26 35 33 16-0008 EA Power Factor Correction Capacitors, 15.0 KVAC.....	3,748.34	
26 35 33 16-0009 EA Power Factor Correction Capacitors, 20.0 KVAC.....	4,552.87	
26 35 33 16-0010 EA Power Factor Correction Capacitors, 25.0 KVAC.....	5,882.33	
26 35 33 16-0011 EA Power Factor Correction Capacitors, 30.0 KVAC.....	6,689.50	
26 35 33 16-0012 EA Power Factor Correction Capacitors, 50.0 KVAC.....	11,738.28	
26 35 33 16-0013 EA Power Factor Correction Capacitors, 75.0 KVAC.....	17,649.63	
26 35 33 16-0014 EA Power Factor Correction Capacitors, 100.0 KVAC.....	23,534.60	
26 35 33 16-0015 EA Power Factor Correction Capacitors, Fuse Kit.....	1,092.06	
26 35 43 Static-Frequency Converters (26 35)		
26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)		
26 35 43 00-0002 EA 750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure.....	772.92	137.53
26 35 43 00-0003 EA 2 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,341.46	165.03
26 35 43 00-0004 EA 3 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,538.66	220.04
26 35 43 00-0005 EA 5 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,111.20	275.06
26 35 43 00-0006 EA 7 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,905.92	357.57
26 35 43 00-0007 EA 11 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,753.11	440.09
26 35 43 00-0008 EA 15 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,705.27	522.60
26 35 43 00-0009 EA 21 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	5,734.84	591.36
26 35 43 00-0010 EA 29 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	6,664.56	715.13
26 35 43 00-0011 EA 36 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	7,630.45	804.53



Electrical		26	26
Facility Electrical Power Generating and Storing Equipment		26 30	
Power Filters and Conditioners		26 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 35 43 00-0012 EA 44 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	8,596.34	893.92
26 35 43 00-0013 EA 55 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	10,673.07	1,079.58
26 35 43 00-0014 EA 74 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	13,868.04	1,299.62
26 35 43 00-0015 EA 87 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	17,580.33	1,581.55
26 35 43 00-0016 EA 110 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	20,110.70	1,849.73
26 35 43 00-0017 EA 125 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	25,889.40	2,062.90
26 35 43 00-0018 EA 165 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	39,558.02	2,337.94
26 35 43 00-0019 EA 220 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	58,998.77	2,613.00

26 35 53 Voltage Regulators (26 35)

26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)

Note: For diesel motor generator sets mounted in switchgear cabinet.

26 35 53 00-0002 EA 50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	7,941.47	2,186.67
26 35 53 00-0003 EA 75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	9,079.38	2,750.53
26 35 53 00-0004 EA 100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	10,127.20	3,273.13

26 36 Transfer Switches (26 36)

26 36 13 Manual Transfer Switches (26 36)

26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)

26 36 13 00-0002 EA 30 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,481.60	240.67
26 36 13 00-0003 EA 60 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,728.67	298.98

26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure

(26 36 13)

26 36 13 00-0005 EA 40 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40).....	3,738.03	352.14
For NEMA 3R Enclosure, Add	1,193.86	
For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0006 EA 70 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70).....	4,141.57	422.56
For NEMA 3R Enclosure, Add	1,193.86	
For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0007 EA 125 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125).....	4,700.92	493.00
For NEMA 3R Enclosure, Add	1,193.86	
For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0008 EA 150 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150).....	5,836.77	563.42
For NEMA 3R Enclosure, Add	1,404.54	
For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0009 EA 225 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225).....	7,224.46	633.85
For NEMA 3R Enclosure, Add	1,404.54	
For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0010 EA 260 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260).....	8,122.47	704.27
For NEMA 3R Enclosure, Add	1,404.54	
For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0011 EA 300 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300).....	9,034.64	774.71
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0012 EA 400 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400).....	10,607.39	845.13
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0013 EA 600 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....	14,028.94	1,056.41
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0014 EA 800 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....	15,782.95	1,267.70
For NEMA 3R Enclosure, Add	2,036.56	
For NEMA 12 Enclosure, Add	1,966.35	
26 36 13 00-0015 EA 1,000 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....	21,009.33	1,769.74
For NEMA 3R Enclosure, Add	2,036.56	
For NEMA 12 Enclosure, Add	1,966.35	

26 36 23 Automatic Transfer Switches (26 36)

26 36 23 00-0001 Automatic Transfer Switch (26 36 23)

26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23)

00-0001

Note: Programmable, 120/240 volt single phase, 3 wire.

26 36 23 00-0003 EA 100 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	3,376.47	493.00
For Level 2 Controller, Add	185.26	
For Level 3 Controller, Add	382.48	
For Level 4 Controller, Add	555.79	
26 36 23 00-0004 EA 225 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	4,593.60	633.85
For Level 2 Controller, Add	257.76	
For Level 3 Controller, Add	532.14	
For Level 4 Controller, Add	773.27	
26 36 23 00-0005 EA 400 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	7,302.74	845.13
For Level 2 Controller, Add	434.97	
For Level 3 Controller, Add	898.00	
For Level 4 Controller, Add	1,304.90	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 36 Transfer Switches**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0006 EA 600 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add	11,878.56 756.84 1,562.52 2,270.53	1,056.41
26 36 23 00-0007 Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
26 36 23 00-0008 EA 40 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40)..... For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add For NEMA 3R Enclosure, Add For NEMA 4 Enclosure, Add For NEMA 12 Enclosure, Add	5,574.25 377.42 779.20 1,132.27 1,193.86 1,264.08 1,264.08	352.14
26 36 23 00-0009 EA 70 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70)..... For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add For NEMA 3R Enclosure, Add For NEMA 4 Enclosure, Add For NEMA 12 Enclosure, Add	6,434.90 433.21 894.36 1,299.62 1,193.86 1,264.08 1,264.08	422.56
26 36 23 00-0010 EA 100 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC100)..... For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add For NEMA 3R Enclosure, Add For NEMA 4 Enclosure, Add For NEMA 12 Enclosure, Add	6,753.85 452.47 934.13 1,357.40 1,193.86 1,264.08 1,264.08	457.78
26 36 23 00-0011 EA 125 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125)..... For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add For NEMA 3R Enclosure, Add For NEMA 4 Enclosure, Add For NEMA 12 Enclosure, Add	7,072.80 471.73 973.89 1,415.18 1,193.86 1,264.08 1,264.08	493.00
26 36 23 00-0012 EA 150 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150)..... For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add For NEMA 3R Enclosure, Add For NEMA 4 Enclosure, Add For NEMA 12 Enclosure, Add	8,415.06 564.84 1,166.11 1,694.51 1,404.54 1,825.89 1,264.08	563.42
26 36 23 00-0013 EA 225 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225)..... For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add For NEMA 3R Enclosure, Add For NEMA 4 Enclosure, Add For NEMA 12 Enclosure, Add	9,609.23 646.47 1,334.64 1,939.41 1,404.54 1,825.89 1,264.08	633.85
26 36 23 00-0014 EA 260 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260)..... For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add For NEMA 3R Enclosure, Add For NEMA 4 Enclosure, Add For NEMA 12 Enclosure, Add	10,603.81 712.63 1,471.24 2,137.90 1,404.54 1,825.89 1,264.08	704.27
26 36 23 00-0015 EA 300 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300)..... For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add For NEMA 3R Enclosure, Add For NEMA 4 Enclosure, Add For NEMA 12 Enclosure, Add	11,078.17 738.48 1,524.60 2,215.44 1,657.35 1,966.35 1,404.54	774.71
26 36 23 00-0016 EA 400 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400)..... For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add For NEMA 3R Enclosure, Add For NEMA 4 Enclosure, Add For NEMA 12 Enclosure, Add	12,529.88 840.07 1,734.34 2,520.21 1,657.35 1,966.35 1,404.54	845.13
26 36 23 00-0017 EA 600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600)..... For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add For NEMA 3R Enclosure, Add For NEMA 4 Enclosure, Add For NEMA 12 Enclosure, Add	17,176.00 1,167.40 2,410.11 3,502.19 1,657.35 1,966.35 1,404.54	1,056.41
26 36 23 00-0018 EA 800 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800)..... For Level 2 Controller, Add For Level 3 Controller, Add For Level 4 Controller, Add For NEMA 3R Enclosure, Add For NEMA 4 Enclosure, Add For NEMA 12 Enclosure, Add	19,258.37 1,296.03 2,675.68 3,888.09 2,036.56 2,247.26 1,966.35	1,267.70



		Electrical	26	26
		Facility Electrical Power Generating and Storing Equipment	26 30	
		Transfer Switches	26 36	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0019 EA 1,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000) 25,071.92	1,769.74	
For Level 2 Controller, Add	1,668.76	
For Level 3 Controller, Add	3,445.19	
For Level 4 Controller, Add	5,006.29	
For NEMA 3R Enclosure, Add	2,036.56	
For NEMA 4 Enclosure, Add	2,247.26	
For NEMA 12 Enclosure, Add	1,966.35	
26 36 23 00-0020 EA 1,200 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200) 32,567.37	1,917.22	
For Level 2 Controller, Add	2,226.80	
For Level 3 Controller, Add	4,597.27	
For Level 4 Controller, Add	6,680.40	
For NEMA 3R Enclosure, Add	4,494.50	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	2,106.80	
26 36 23 00-0021 EA 1,600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600) 34,708.96	2,212.18	
For Level 2 Controller, Add	2,347.05	
For Level 3 Controller, Add	4,845.53	
For Level 4 Controller, Add	7,041.16	
For NEMA 3R Enclosure, Add	7,303.55	
For NEMA 4 Enclosure, Add	8,988.98	
For NEMA 12 Enclosure, Add	7,303.55	
26 36 23 00-0022 EA 2,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000) 39,687.01	2,507.14	
For Level 2 Controller, Add	2,687.14	
For Level 3 Controller, Add	5,547.64	
For Level 4 Controller, Add	8,061.41	
For NEMA 3R Enclosure, Add	7,303.55	
For NEMA 4 Enclosure, Add	8,988.98	
For NEMA 12 Enclosure, Add	7,303.55	
26 36 23 00-0023 EA 3,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000) 47,926.77	3,097.06	
For Level 2 Controller, Add	3,234.28	
For Level 3 Controller, Add	6,677.22	
For Level 4 Controller, Add	9,702.84	
For NEMA 3R Enclosure, Add	7,303.55	
26 36 23 00-0024 EA 4,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000) 83,310.95	3,686.98	
For Level 2 Controller, Add	5,885.12	
For Level 3 Controller, Add	12,149.92	
For Level 4 Controller, Add	17,655.35	
For NEMA 3R Enclosure, Add	13,539.65	
26 36 23 00-0025 Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
26 36 23 00-0026 EA 150 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150).....27,675.33	2,676.26	
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
For Level 2 Controller, Add	1,730.02	
For Level 3 Controller, Add	3,571.65	
For Level 4 Controller, Add	5,190.06	
26 36 23 00-0027 EA 225 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225).....28,886.98	2,817.11	
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
For Level 2 Controller, Add	1,802.09	
For Level 3 Controller, Add	3,720.44	
For Level 4 Controller, Add	5,406.27	
26 36 23 00-0028 EA 260 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260).....30,281.32	2,957.97	
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
For Level 2 Controller, Add	1,888.32	
For Level 3 Controller, Add	3,898.46	
For Level 4 Controller, Add	5,664.96	
26 36 23 00-0029 EA 300 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300).....33,832.91	3,028.39	
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
For Level 2 Controller, Add	2,152.65	
For Level 3 Controller, Add	4,444.18	
For Level 4 Controller, Add	6,457.95	
26 36 23 00-0030 EA 400 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400).....39,100.13	3,098.82	
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
For Level 2 Controller, Add	2,549.94	
For Level 3 Controller, Add	5,264.40	
For Level 4 Controller, Add	7,649.83	
26 36 23 00-0031 EA 600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600).....47,010.97	3,239.68	
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,404.54	
For Level 2 Controller, Add	3,141.20	
For Level 3 Controller, Add	6,485.06	
For Level 4 Controller, Add	9,423.60	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 36 Transfer Switches**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0032	EA		800 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800).....	51,850.37	3,380.53
			For NEMA 3R Enclosure, Add	2,528.16	
			For NEMA 4 Enclosure, Add	2,528.16	
			For NEMA 12 Enclosure, Add	1,544.99	
			For Level 2 Controller, Add	3,494.42	
			For Level 3 Controller, Add	7,214.29	
			For Level 4 Controller, Add	10,483.26	
26 36 23 00-0033	EA		1,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	65,190.14	3,943.95
			For NEMA 3R Enclosure, Add	2,528.16	
			For NEMA 4 Enclosure, Add	2,528.16	
			For NEMA 12 Enclosure, Add	1,544.99	
			For Level 2 Controller, Add	4,440.92	
			For Level 3 Controller, Add	9,168.36	
			For Level 4 Controller, Add	13,322.77	
26 36 23 00-0034	EA		1,200 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	85,561.08	4,424.38
			For NEMA 3R Enclosure, Add	11,236.23	
			For NEMA 4 Enclosure, Add	14,045.28	
			For NEMA 12 Enclosure, Add	11,236.23	
			For Level 2 Controller, Add	5,945.21	
			For Level 3 Controller, Add	12,273.97	
			For Level 4 Controller, Add	17,835.62	
26 36 23 00-0035	EA		1,600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	111,766.49	4,719.33
			For NEMA 3R Enclosure, Add	23,876.97	
			For NEMA 4 Enclosure, Add	23,876.97	
			For NEMA 12 Enclosure, Add	22,247.72	
			For Level 2 Controller, Add	7,930.41	
			For Level 3 Controller, Add	16,372.45	
			For Level 4 Controller, Add	23,791.22	
26 36 23 00-0036	EA		2,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	126,932.87	5,161.76
			For NEMA 3R Enclosure, Add	23,876.97	
			For NEMA 4 Enclosure, Add	23,876.97	
			For NEMA 12 Enclosure, Add	22,247.72	
			For Level 2 Controller, Add	9,037.22	
			For Level 3 Controller, Add	18,657.49	
			For Level 4 Controller, Add	27,111.67	
26 36 23 00-0037	EA		3,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	203,322.29	5,899.16
			For NEMA 3R Enclosure, Add	29,495.07	
			For Level 2 Controller, Add	14,843.11	
			For Level 3 Controller, Add	30,643.83	
			For Level 4 Controller, Add	44,529.32	
26 36 23 00-0038	EA		4,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	219,428.98	6,636.56
			For NEMA 3R Enclosure, Add	29,495.07	
			For Level 2 Controller, Add	15,977.08	
			For Level 3 Controller, Add	32,984.94	
			For Level 4 Controller, Add	47,931.24	
26 36 23 00-0039			Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
26 36 23 00-0040	EA		40 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	9,117.91	352.14
			For Level 2 Controller, Add	652.06	
			For Level 3 Controller, Add	1,346.18	
			For Level 4 Controller, Add	1,956.17	
			For NEMA 3R Enclosure, Add	702.27	
			For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0041	EA		70 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	9,856.25	422.56
			For Level 2 Controller, Add	698.36	
			For Level 3 Controller, Add	1,441.78	
			For Level 4 Controller, Add	2,095.09	
			For NEMA 3R Enclosure, Add	702.27	
			For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0042	EA		100 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE100).....	10,224.78	457.78
			For Level 2 Controller, Add	721.46	
			For Level 3 Controller, Add	1,489.48	
			For Level 4 Controller, Add	2,164.39	
			For NEMA 3R Enclosure, Add	702.27	
			For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0043	EA		125 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	10,593.30	493.00
			For Level 2 Controller, Add	744.57	
			For Level 3 Controller, Add	1,537.17	
			For Level 4 Controller, Add	2,233.70	
			For NEMA 3R Enclosure, Add	702.27	
			For NEMA 12 Enclosure, Add	1,264.08	



Electrical			26	26
Facility Electrical Power Generating and Storing Equipment			26 30	
Transfer Switches			26 36	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0044	EA		150 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	12,724.89	563.42
			For Level 2 Controller, Add	898.65	
			For Level 3 Controller, Add	1,855.69	
			For Level 4 Controller, Add	2,696.54	
			For Four Pole Circuit Breaker, Add	3,511.32	
			For NEMA 3R Enclosure, Add	702.27	
			For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0045	EA		225 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	16,579.38	633.85
			For Level 2 Controller, Add	1,186.66	
			For Level 3 Controller, Add	2,449.87	
			For Level 4 Controller, Add	3,559.97	
			For Four Pole Circuit Breaker, Add	3,511.32	
			For NEMA 3R Enclosure, Add	702.27	
			For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0046	EA		250 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	17,648.65	704.27
			For Level 2 Controller, Add	1,258.61	
			For Level 3 Controller, Add	2,598.41	
			For Level 4 Controller, Add	3,775.82	
			For Four Pole Circuit Breaker, Add	3,511.32	
			For NEMA 3R Enclosure, Add	702.27	
			For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0047	EA		300 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	18,349.65	774.71
			For Level 2 Controller, Add	1,302.02	
			For Level 3 Controller, Add	2,688.04	
			For Level 4 Controller, Add	3,906.06	
			For Four Pole Circuit Breaker, Add	4,775.40	
			For NEMA 3R Enclosure, Add	1,825.89	
			For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0048	EA		400 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	20,768.39	845.13
			For Level 2 Controller, Add	1,478.55	
			For Level 3 Controller, Add	3,052.50	
			For Level 4 Controller, Add	4,435.66	
			For Four Pole Circuit Breaker, Add	4,775.40	
			For NEMA 3R Enclosure, Add	1,825.89	
			For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0049	EA		600 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	25,196.90	1,056.41
			For Level 2 Controller, Add	1,789.02	
			For Level 3 Controller, Add	3,693.45	
			For Level 4 Controller, Add	5,367.05	
			For Four Pole Circuit Breaker, Add	4,775.40	
			For NEMA 3R Enclosure, Add	1,825.89	
			For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0050	EA		800 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	26,232.38	1,267.70
			For Level 2 Controller, Add	1,836.52	
			For Level 3 Controller, Add	3,791.52	
			For Level 4 Controller, Add	5,509.55	
			For Four Pole Circuit Breaker, Add	6,811.96	
			For NEMA 3R Enclosure, Add	3,146.15	
			For NEMA 12 Enclosure, Add	1,966.35	
26 36 23 00-0051	EA		1,000 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000).....	31,098.22	1,769.74
			For Level 2 Controller, Add	2,135.80	
			For Level 3 Controller, Add	4,409.40	
			For Level 4 Controller, Add	6,407.40	
			For Four Pole Circuit Breaker, Add	6,811.96	
			For NEMA 3R Enclosure, Add	3,146.15	
			For NEMA 12 Enclosure, Add	1,966.35	
26 36 23 00-0052			Accessories (26 36 23)		
26 36 23 00-0053	EA		Auxiliary Contacts For Automatic Transfer Switch.....	325.86	
26 36 23 00-0054	EA		Battery Charger For Automatic Transfer Switch.....	2,668.61	
26 36 23 00-0055	EA		Elevator Relay Signal For Automatic Transfer Switch.....	969.13	

26 40 Electrical And Cathodic Protection (26)

26 43 Surge Protective Devices (26 40)

26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits (26 43)

26 43 13 00-0001 25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)

			Note: Liebert LPL		
26 43 13 00-0002	EA		120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	274.19	34.38
26 43 13 00-0003	EA		208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	295.03	34.38
26 43 13 00-0004	EA		240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	308.79	41.26
26 43 13 00-0005	EA		277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	254.48	27.50
26 43 13 00-0006	EA		480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	308.79	41.26

26 Electrical**26 40 Electrical And Cathodic Protection****26 43 Surge Protective Devices**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0007			50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13) Note: Liebert LPL		
26 43 13 00-0008	EA	120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	376.90	34.38	
26 43 13 00-0009	EA	208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	402.57	41.26	
26 43 13 00-0010	EA	208 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	388.81	34.38	
26 43 13 00-0011	EA	480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	402.57	41.26	
26 43 13 00-0012			100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13) Note: Liebert LPL		
26 43 13 00-0013	EA	120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	454.31	34.38	
26 43 13 00-0014	EA	208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	479.98	41.26	
26 43 13 00-0015	EA	277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	422.69	27.50	
26 43 13 00-0016	EA	480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	479.98	41.26	
26 43 13 00-0017			100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13) Note: Liebert LPM		
26 43 13 00-0018	EA	120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	534.69	34.38	
26 43 13 00-0019	EA	208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	603.53	41.26	
26 43 13 00-0020	EA	277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	504.57	27.50	
26 43 13 00-0021			160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13) Note: Liebert LPM		
26 43 13 00-0022	EA	120/240 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	938.46	41.26	
26 43 13 00-0023	EA	208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	924.70	34.38	
26 43 13 00-0024	EA	480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	938.46	41.26	
26 43 13 00-0025			250 kA, 500 Joule Transient Voltage Surge Suppression (26 43 13) Note: Liebert Interceptor Hybrid.		
26 43 13 00-0026	EA	LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	8,398.03	68.76	
26 43 13 00-0027	EA	Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor	10,270.99	68.76	
26 43 13 00-0028			Class 1310 Transient Voltage Surge Suppression (26 43 13) Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.		
26 43 13 00-0029			NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028) Note: Square D. EMA series.		
26 43 13 00-0030	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,382.24	178.79	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0031	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,835.59	206.29	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0032	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,050.18	240.67	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0033	EA	320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	9,368.22	275.06	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0034	EA	480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	13,855.52	378.20	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0035	EA	120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,570.80	178.79	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0036	EA	160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,042.73	206.29	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0037	EA	240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,370.19	240.67	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0038	EA	320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	9,783.84	275.06	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0039	EA	480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	14,496.87	378.20	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0040	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,570.80	178.79	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0041	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,042.73	206.29	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0042	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,370.13	240.67	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		



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Electrical And Cathodic Protection		26 40	
Surge Protective Devices		26 43	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0043	EA	320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	9,783.84	275.06	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0044	EA	480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	14,496.87	378.20	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0045	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,759.38	178.79	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0046	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,252.53	206.29	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0047	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,692.85	240.67	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0048	EA	320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	10,202.20	275.06	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0049	EA	480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	15,140.83	378.20	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0050	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,978.47	178.79	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0051	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,470.35	206.29	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0052	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,030.12	240.67	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0053	EA	320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	10,640.38	275.06	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0054	EA	480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	14,903.77	378.20	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0055		NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor ⁽²⁶			
		^{43 13 00-0028)}			
		Note: Square D EBA series.			
26 43 13 00-0056	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,426.23	178.79	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0057	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,137.21	206.29	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0058	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	6,049.00	240.67	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0059	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,533.79	178.79	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0060	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,296.55	206.29	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0061	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	6,257.47	240.67	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0062	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,533.79	178.79	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0063	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,296.55	206.29	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0064	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	6,257.47	240.67	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0065	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,670.56	178.79	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0066	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,467.84	206.29	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0067	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	6,524.36	240.67	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0068	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,813.97	178.79	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0069	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,649.75	206.29	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0070	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	6,804.53	240.67	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		

26 Electrical**26 40 Electrical And Cathodic Protection****26 43 Surge Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0071 NEMA 4X Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028)				
Note: Square D EMA series. Stainless steel.				
26 43 13 00-0072	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	5,637.04	178.79
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0073	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	6,090.39	206.29
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0074	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	8,304.98	240.67
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0075	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	5,825.60	178.79
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0076	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	6,297.53	206.29
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0077	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	8,624.99	240.67
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0078	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	5,825.60	178.79
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0079	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	6,297.53	206.29
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0080	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	8,624.93	240.67
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0081	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	6,014.18	178.79
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0082	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	6,507.34	206.29
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0083	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	8,947.65	240.67
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0084	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	6,233.27	178.79
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0085	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	6,725.15	206.29
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0086	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	9,284.92	240.67
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028)				
Note: Square D EBA series. Stainless steel.				
26 43 13 00-0088	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	4,681.04	178.79
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0089	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	5,392.01	206.29
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0090	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	7,303.80	240.67
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0091	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	4,788.59	178.79
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0092	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	5,551.35	206.29
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0093	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	7,512.27	240.67
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0094	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	4,788.59	178.79
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0095	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	5,551.35	206.29
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0096	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	7,512.27	240.67
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0097	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	4,925.36	178.79
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	



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		Electrical And Cathodic Protection	26 40
		Surge Protective Devices	26 43

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0098 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,722.64 265.68 203.04	206.29
26 43 13 00-0099 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	7,779.16 265.68 203.04	240.67
26 43 13 00-0100 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,068.77 265.68 203.04	178.79
26 43 13 00-0101 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,904.55 265.68 203.04	206.29
26 43 13 00-0102 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	8,059.33 265.68 203.04	240.67

26 43 23 Surge Protective Devices for Lightning Protection (26 43)**26 43 23 00-0001 Surge And Lightning Arrestors (26 43 23)****26 43 23 00-0002 Metal Top Intermediate Type IMX (26 43 23 00-0001)**

Note: For outdoor construction, single phase.

26 43 23 00-0003 EA 3 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,212.38	298.64
26 43 23 00-0004 EA 4.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,308.06	298.64
26 43 23 00-0005 EA 6 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,308.06	298.64
26 43 23 00-0006 EA 7.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,485.76	298.64
26 43 23 00-0007 EA 9 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,485.76	298.64
26 43 23 00-0008 EA 10 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,633.39	298.64
26 43 23 00-0009 EA 12 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,633.39	298.64
26 43 23 00-0010 EA 15 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,220.12	373.29
26 43 23 00-0011 EA 18 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,296.67	373.29
26 43 23 00-0012 EA 21 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,532.97	447.95
26 43 23 00-0013 EA 24 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,729.81	447.95
26 43 23 00-0014 EA 27 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	3,224.63	447.95

26 43 23 00-0015 Porcelain Top Intermediate Type IMX (26 43 23 00-0001)

Note: For cubicle mounting, single phase.

26 43 23 00-0016 EA 3 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,212.38	298.64
26 43 23 00-0017 EA 4.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,308.06	298.64
26 43 23 00-0018 EA 6 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,308.06	298.64
26 43 23 00-0019 EA 7.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,485.76	298.64
26 43 23 00-0020 EA 9 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,485.76	298.64
26 43 23 00-0021 EA 10 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,633.39	298.64
26 43 23 00-0022 EA 12 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,633.39	298.64
26 43 23 00-0023 EA 15 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	2,220.12	373.29
26 43 23 00-0024 EA 18 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	2,296.67	373.29
26 43 23 00-0025 EA 21 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	2,532.97	447.95
26 43 23 00-0026 EA 24 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	2,729.81	447.95
26 43 23 00-0027 EA 27 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	3,224.63	447.95

26 43 23 00-0028 IMX Accessories (26 43 23 00-0001)

26 43 23 00-0029 EA 1 Crossarm Bracket Reversible 3-27 KV IMX	1,015.55	298.64
26 43 23 00-0030 EA Single Unit Horizontal Pole Mounted Bracket (IMX)	1,004.61	298.64
26 43 23 00-0031 EA 3 Unit Horizontal Pole Mounted Bracket (IMX)	922.70	298.64

26 43 23 00-0032 Lightning Arrestor And Cutouts (26 43 23 00-0001)

26 43 23 00-0033 EA 3 KV La Distribution Class, Lightning Arrestor	709.36	298.64
26 43 23 00-0034 EA 3 KV La Interior Class, Lightning Arrestor	1,285.21	298.64
26 43 23 00-0035 EA 3 KV La Station Class, Lightning Arrestor	1,212.38	298.64
26 43 23 00-0036 EA 9 KV La Distribution Class, Lightning Arrestor	769.50	298.64
26 43 23 00-0037 EA 9 KV La Interior Class, Lightning Arrestor	1,444.65	298.64
26 43 23 00-0038 EA 9 KV La Station Class, Lightning Arrestor	1,485.76	298.64
26 43 23 00-0039 EA 5 KV Enclosed Fused Cutout	863.00	298.64
26 43 23 00-0040 EA 15 KV Open Fused Cutout	946.16	373.29
26 43 23 00-0041 EA 18 KV La Distribution Class, Lightning Arrestor	737.86	298.64
26 43 23 00-0042 EA 18 KV La Interior Class, Lightning Arrestor	1,529.87	298.64

26 50 Lighting (26)

Note: Includes testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 51 Interior Lighting (26 50)**26 51 13 Incandescent Interior Lighting (26 51)****26 51 13 00-0001 Recessed Fixtures (26 51 13)**
Note: Housing and trim priced separately.

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 51 13 00-0002	Incandescent, Recessed Fixture Housings (26 51 13 00-0001)				
26 51 13 00-0003	EA 4" Round, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	93.08 4.38		39.34	
26 51 13 00-0004	EA 5" Round, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	93.08 4.38		39.34	
26 51 13 00-0005	EA 6" Round, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	98.75 4.75		41.26	
26 51 13 00-0006	EA 7" Round, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	104.62 5.16		43.04	
26 51 13 00-0007	EA 8" Round, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	110.51 5.56		44.84	
26 51 13 00-0008	EA 10" To 12" Square, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	112.82 5.33		47.58	
26 51 13 00-0009	Recessed Fixture Trim (26 51 13 00-0001)				
26 51 13 00-0010	EA Circular, Recessed Fixture Trim	70.88		19.26	
26 51 13 00-0011	EA Circular Clear Lens, Recessed Fixture Trim	78.57		19.26	
26 51 13 00-0012	EA Open/Baffle, Recessed Fixture Trim	91.90		19.26	
26 51 13 00-0013	EA Specular Reflector, Recessed Fixture Trim	98.96		19.26	
26 51 13 00-0014	EA Eyeball, Recessed Fixture Trim	78.68		19.26	
26 51 13 00-0015	EA 10" To 12" Square, Clear Lens, Recessed Fixture Trim	74.55		19.26	
26 51 13 00-0016	EA 10" To 12" Square, Drop Dish, Recessed Fixture Trim	79.29		19.26	
26 51 13 00-0017	Track Lighting (26 51 13)				
26 51 13 00-0018	Incandescent Track Lighting Fixtures (26 51 13 00-0017) See CSI section 26 51 19 00-0690 for track lighting tracks.				
26 51 13 00-0019	EA Incandescent Track Lighting Fixture, 120 Volt	91.47		22.96	
26 51 13 00-0020	EA Par 20 Track Fixture, White Or Black Finish, 120 Volt.....	68.85		22.96	
26 51 13 00-0021	EA Par 30 Track Fixture, White Or Black Finish, 120 Volt.....	95.46		22.96	
26 51 13 00-0022	EA Par 38 Track Fixture, White Or Black Finish, 120 Volt.....	98.10		22.96	
26 51 13 00-0023	EA PAR 16, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	80.89		22.96	
26 51 13 00-0024	EA PAR 20, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	68.85		22.96	
26 51 13 00-0025	EA PAR 30, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt..... Note: 120V.	79.63		22.96	
26 51 13 00-0026	EA PAR 38, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	100.74		22.96	
26 51 13 00-0027	Wet Location, Dust Resistant, Vapor Tight Fixtures (26 51 13)				
26 51 13 00-0028	Incandescent, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 13 00-0027)				
26 51 13 00-0029	EA 100 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... For Wall Mounted, Add	142.11 5.10		55.01	
26 51 13 00-0030	EA 200 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... For Wall Mounted, Add	160.92 5.10		55.01	
26 51 16	Fluorescent Interior Lighting (26 51)				
26 51 16 00-0001	Fluorescent Fixtures (26 51 16)				
26 51 16 00-0002	Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0001)				
26 51 16 00-0003	6" x 2', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)				
26 51 16 00-0004	EA 1 T8 Lamp, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture.....	200.99		39.33	
26 51 16 00-0005	EA 2 T8 Lamps, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture.....	225.71		39.33	
26 51 16 00-0006	6" x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)				
26 51 16 00-0007	EA 1 T8 Lamp, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture.....	226.69		40.96	
26 51 16 00-0008	EA 2 T8 Lamps, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture.....	253.62		40.96	
26 51 16 00-0009	1' x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)				
26 51 16 00-0010	EA 2 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	270.45		45.99	
26 51 16 00-0011	EA 3 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	320.51		45.99	
26 51 16 00-0012	EA 4 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	375.59		45.99	
26 51 16 00-0013	2' x 2', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)				
26 51 16 00-0014	EA 2 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture	221.28		50.26	
26 51 16 00-0015	EA 3 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture	255.61		50.26	
26 51 16 00-0016	2' x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)				
26 51 16 00-0017	EA 2 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	346.04		58.55	
26 51 16 00-0018	EA 3 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	372.30		58.55	
26 51 16 00-0019	EA 4 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	422.28		58.55	



Electrical		26	26
Lighting		26 50	
Interior Lighting		26 51	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0020		Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0001) Note: Includes prismatic lens.		
26 51 16 00-0021		1' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)		
26 51 16 00-0022	EA	2 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	268.94	45.61
26 51 16 00-0023	EA	3 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	435.95	45.61
26 51 16 00-0024	EA	4 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	497.02	45.61
26 51 16 00-0025		2' x 2', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)		
26 51 16 00-0026	EA	2 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....	419.83	50.26
26 51 16 00-0027	EA	3 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....	458.49	50.26
26 51 16 00-0028	EA	4 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....	486.42	50.26
26 51 16 00-0029		2' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)		
26 51 16 00-0030	EA	2 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	425.95	58.55
26 51 16 00-0031	EA	3 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	467.03	58.55
26 51 16 00-0032	EA	4 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	489.65	58.55
26 51 16 00-0033	EA	6 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	524.08	58.55
26 51 16 00-0034		4' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 16 00-0020)		
26 51 16 00-0035	EA	4 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	843.18	75.39
26 51 16 00-0036	EA	6 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	857.02	75.39
26 51 16 00-0037	EA	8 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	821.21	75.39
26 51 16 00-0038		Recessed Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0039		Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)		
26 51 16 00-0040		1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)		
26 51 16 00-0041	EA	2 T8 Lamps, 1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	421.38	39.33
		For Drywall Or Plaster Ceilings, Add	26.58	
26 51 16 00-0042		1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)		
26 51 16 00-0043	EA	2 T8 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	558.50	45.61
		For Drywall Or Plaster Ceilings, Add	31.10	
26 51 16 00-0044	EA	2 T5 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	1,051.36	45.61
		For Drywall Or Plaster Ceilings, Add	31.10	
26 51 16 00-0045		2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)		
26 51 16 00-0046	EA	2 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	565.15	50.26
		For Drywall Or Plaster Ceilings, Add	33.93	
26 51 16 00-0047	EA	3 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	652.05	50.26
		For Drywall Or Plaster Ceilings, Add	33.93	
26 51 16 00-0048	EA	4 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	658.11	50.26
		For Drywall Or Plaster Ceilings, Add	33.93	
26 51 16 00-0049	EA	2 T5 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	710.30	50.26
		For Drywall Or Plaster Ceilings, Add	33.93	
26 51 16 00-0050		2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 16 00-0039)		
26 51 16 00-0051	EA	2 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	538.46	58.55
		For Drywall Or Plaster Ceilings, Add	39.58	
26 51 16 00-0052	EA	3 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	770.10	58.55
		For Drywall Or Plaster Ceilings, Add	39.58	
26 51 16 00-0053	EA	4 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	777.02	58.55
		For Drywall Or Plaster Ceilings, Add	39.58	
26 51 16 00-0054	EA	6 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	868.65	58.55
		For Drywall Or Plaster Ceilings, Add	39.58	
26 51 16 00-0055	EA	2 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	739.38	58.55
		For Drywall Or Plaster Ceilings, Add	39.58	
26 51 16 00-0056	EA	3 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	1,030.05	58.55
		For Drywall Or Plaster Ceilings, Add	39.58	
26 51 16 00-0057	EA	4 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	1,046.87	58.55
		For Drywall Or Plaster Ceilings, Add	39.58	
26 51 16 00-0058		Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)		
26 51 16 00-0059		1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)		
26 51 16 00-0060	EA	1 T8 Lamp, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture.....	501.77	39.33
		For Drywall Or Plaster Ceilings, Add	26.58	
26 51 16 00-0061	EA	2 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	507.81	39.33
		For Drywall Or Plaster Ceilings, Add	26.58	

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0062	EA	3 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	600.28 26.58	39.33
26 51 16 00-0063		1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)		
26 51 16 00-0064	EA	1 T8 Lamp, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	571.34 31.10	45.61
26 51 16 00-0065	EA	2 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	578.25 31.10	45.61
26 51 16 00-0066	EA	3 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	656.18 31.10	45.61
26 51 16 00-0067		2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)		
26 51 16 00-0068	EA	2 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	583.93 33.93	50.26
26 51 16 00-0069	EA	3 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	589.97 33.93	50.26
26 51 16 00-0070	EA	4 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	681.02 33.93	50.26
26 51 16 00-0071		2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0058)		
26 51 16 00-0072	EA	2 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	538.46 39.58	58.55
26 51 16 00-0073	EA	3 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	636.48 39.58	58.55
26 51 16 00-0074	EA	4 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	729.48 39.58	58.55
26 51 16 00-0075	EA	6 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	829.75 39.58	58.55
26 51 16 00-0076		Direct-Indirect, Recessed Fluorescent Fixtures (26 51 16 00-0038)		
26 51 16 00-0077		1' x 4', Direct-Indirect, Recessed Fluorescent Fixtures (26 51 16 00-0076)		
26 51 16 00-0078	EA	1 T8 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,113.39 31.10	45.61
26 51 16 00-0079	EA	2 T8 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,120.31 31.10	45.61
26 51 16 00-0080	EA	1 T5 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,327.70 31.10	45.61
26 51 16 00-0081	EA	2 T5 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,344.52 31.10	45.61
26 51 16 00-0082		2' x 2', Direct-Indirect, Recessed Fluorescent Fixtures (26 51 16 00-0076)		
26 51 16 00-0083	EA	2 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	869.87 33.93	50.26
26 51 16 00-0084	EA	3 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	974.14 33.93	50.26
26 51 16 00-0085	EA	2 T5 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,199.30 33.93	50.26
26 51 16 00-0086		2' x 4', Direct-Indirect, Recessed Fluorescent Fixtures (26 51 16 00-0076)		
26 51 16 00-0087	EA	2 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	974.94 39.58	58.55
26 51 16 00-0088	EA	3 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,215.23 39.58	58.55
26 51 16 00-0089	EA	1 T5 Lamp, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,297.72 39.58	58.55
26 51 16 00-0090	EA	2 T5 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,426.25 39.58	58.55
26 51 16 00-0091		Volumetric, Recessed Fluorescent Fixtures (26 51 16 00-0038)		
26 51 16 00-0092		1' x 4', Volumetric, Recessed Fluorescent Fixtures (26 51 16 00-0091)		
26 51 16 00-0093	EA	2 T8 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	861.58 31.10	45.61
26 51 16 00-0094	EA	2 T5 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,155.22 31.10	45.61
26 51 16 00-0095		2' x 2', Volumetric, Recessed Fluorescent Fixtures (26 51 16 00-0091)		
26 51 16 00-0096	EA	2 T8 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	856.13 33.93	50.26
26 51 16 00-0097	EA	2 T5 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	987.43 33.93	50.26



Electrical		26	26
Lighting		26 50	
Interior Lighting		26 51	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0098		2' x 4', Volumetric, Recessed Fluorescent Fixtures (26 51 16 00-0091)		
26 51 16 00-0099	EA	2 T8 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	949.84 39.58	58.55
26 51 16 00-0100	EA	2 T5 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	952.03 39.58	58.55
26 51 16 00-0101		Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)		
26 51 16 00-0102		1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0101)		
26 51 16 00-0103	EA	2 T8 Lamps, 1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	794.12 31.10	45.61
26 51 16 00-0104		2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0101)		
26 51 16 00-0105	EA	2 T8 Lamps, 2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	757.29 33.93	50.26
26 51 16 00-0106		2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0101)		
26 51 16 00-0107	EA	2 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	919.41 39.58	58.55
26 51 16 00-0108	EA	3 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	654.66 39.58	58.55
26 51 16 00-0109	EA	4 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,058.23 39.58	58.55
26 51 16 00-0110		Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)		
26 51 16 00-0111		1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0110)		
26 51 16 00-0112	EA	2 T8 Lamps, 1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	754.23 31.10	45.61
26 51 16 00-0113		2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0110)		
26 51 16 00-0114	EA	2 T8 Lamps, 2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	756.34 33.93	50.26
26 51 16 00-0115		2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0110)		
26 51 16 00-0116	EA	2 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	941.79 39.58	58.55
26 51 16 00-0117	EA	3 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	956.49 39.58	58.55
26 51 16 00-0118	EA	4 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	979.92 39.58	58.55
26 51 16 00-0119		Striplight Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0120		1 Lamp Cross Section, Striplight Fluorescent Fixtures (26 51 16 00-0119)		
26 51 16 00-0121	EA	1-1/2' Length, 1 T8 Lamp, Striplight Fluorescent Fixture	306.30	37.69
26 51 16 00-0122	EA	2' Length, 1 T8 Lamp, Striplight Fluorescent Fixture	382.57	37.69
26 51 16 00-0123	EA	3' Length, 1 T8 Lamp, Striplight Fluorescent Fixture	372.72	41.84
26 51 16 00-0124	EA	4' Length, 1 T8 Lamp, Striplight Fluorescent Fixture	378.72	45.99
26 51 16 00-0125	EA	8' Length, 1 T8 Lamp, Striplight Fluorescent Fixture	463.76	54.47
26 51 16 00-0126		2 Lamp Cross Section, Striplight Fluorescent Fixtures (26 51 16 00-0119)		
26 51 16 00-0127	EA	2' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	377.61	41.84
26 51 16 00-0128	EA	3' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	386.19	45.99
26 51 16 00-0129	EA	4' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	391.92	50.26
26 51 16 00-0130		3 Lamp Cross Section, Striplight Fluorescent Fixtures (26 51 16 00-0119)		
26 51 16 00-0131	EA	2' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	569.48	41.84
26 51 16 00-0132	EA	3' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	544.63	45.99
26 51 16 00-0133	EA	4' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	550.12	50.26
26 51 16 00-0134		Display Case Fluorescent Fixtures (26 51 16 00-0119)		

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0135	EA	1 T8 Lamp, 1-1/2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU15W).....	202.37	41.26
26 51 16 00-0136	EA	1 T8 Lamp, 2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU20W).....	276.63	41.26
26 51 16 00-0137	EA	1 T8 Lamp, 3' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU30W).....	298.57	48.13
26 51 16 00-0138	EA	1 T8 Lamp, 4' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU40W).....	308.92	48.13
26 51 16 00-0139		Industrial Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0140		1 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)		
26 51 16 00-0141	EA	2' Length, 1 T8 Lamp, Industrial Fluorescent Fixture	456.04	37.69
26 51 16 00-0142	EA	4' Length, 1 T8 Lamp, Industrial Fluorescent Fixture	477.90	45.99
26 51 16 00-0143	EA	8' Length, 1 T8 Lamp, Industrial Fluorescent Fixture	901.47	58.55
26 51 16 00-0144		2 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)		
26 51 16 00-0145	EA	2' Length, 2 T8 Lamps, Industrial Fluorescent Fixture	468.36	41.84
26 51 16 00-0146	EA	4' Length, 2 T8 Lamps, Industrial Fluorescent Fixture	491.12	50.26
26 51 16 00-0147	EA	8' Length, 2 T8 Lamps, Industrial Fluorescent Fixture	915.31	58.55
26 51 16 00-0148		3 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)		
26 51 16 00-0149	EA	2' Length, 3 T8 Lamps, Industrial Fluorescent Fixture	487.37	41.84
26 51 16 00-0150	EA	4' Length, 3 T8 Lamps, Industrial Fluorescent Fixture	507.76	50.26
26 51 16 00-0151	EA	8' Length, 3 T8 Lamps, Industrial Fluorescent Fixture	782.21	58.55
26 51 16 00-0152		4 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)		
26 51 16 00-0153	EA	4' Length, 4 T8 Lamps, Industrial Fluorescent Fixture	713.04	50.26
26 51 16 00-0154	EA	8' Length, 4 T8 Lamps, Industrial Fluorescent Fixture	1,055.35	58.55
26 51 16 00-0155		Flanged Fluorescent Fixture (26 51 16 00-0001) Note: For plaster or drywall application. With electronic ballast.		
26 51 16 00-0156	EA	2 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture	658.67	75.39
26 51 16 00-0157	EA	3 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture	795.23	75.39
26 51 16 00-0158	EA	4 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture	802.15	75.39
26 51 16 00-0159		Undercabinet Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0160	EA	1 T5 Lamp, 12-3/16" Length, Slimline Undercabinet Fluorescent Fixture	236.33	33.93
26 51 16 00-0161	EA	1 T5 Lamp, 21-3/16" Length, Slimline Undercabinet Fluorescent Fixture	273.77	41.46
26 51 16 00-0162	EA	2 T5 Lamps, 24-7/16" Length, Slimline Undercabinet Fluorescent Fixture	268.84	41.46
26 51 16 00-0163	EA	1 T5 Lamp, 33-7/16" Length, Slimline Undercabinet Fluorescent Fixture	328.29	45.23
26 51 16 00-0164	EA	2 T5 Lamps, 42-7/16" Length, Slimline Undercabinet Fluorescent Fixture	381.53	52.78
26 51 16 00-0165		Corner Mounted, Fluorescent Fixtures (26 51 16 00-0001) Note: Includes acrylic drop dish diffuser.		
26 51 16 00-0166		2' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)		
26 51 16 00-0167	EA	1 T8 Lamp, 2' Length, Corner Mounted, Fluorescent Fixture	268.83	37.69
26 51 16 00-0168	EA	2 T8 Lamps, 2' Length, Corner Mounted, Fluorescent Fixture	299.67	37.69
26 51 16 00-0169		3' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)		
26 51 16 00-0170	EA	1 T8 Lamp, 3' Length, Corner Mounted, Fluorescent Fixture	306.61	39.58
26 51 16 00-0171	EA	2 T8 Lamps, 3' Length, Corner Mounted, Fluorescent Fixture	336.10	39.58
26 51 16 00-0172		4' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)		
26 51 16 00-0173	EA	1 T8 Lamp, 4' Length, Corner Mounted, Fluorescent Fixture	302.24	41.46
26 51 16 00-0174	EA	2 T8 Lamps, 4' Length, Corner Mounted, Fluorescent Fixture	332.60	41.46
26 51 16 00-0175		Wall Bracket, Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0176		Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0175) Note: Includes extruded aluminum housing with brushed finish, acrylic diffuser and solid-state electronic ballast.		
26 51 16 00-0177		2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0176)		
26 51 16 00-0178	EA	1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	282.58	63.26
26 51 16 00-0179	EA	2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	287.73	63.26
26 51 16 00-0180		3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0176)		
26 51 16 00-0181	EA	1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	371.13	63.26
26 51 16 00-0182	EA	2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	378.32	63.26
26 51 16 00-0183		4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0176)		



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0184	EA	1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....	385.12	63.26
26 51 16 00-0185	EA	2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....	390.27	63.26
26 51 16 00-0186		Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0175) Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.		
26 51 16 00-0187		2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0186)		
26 51 16 00-0188	EA	1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	713.75	63.26
26 51 16 00-0189	EA	2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	718.90	63.26
26 51 16 00-0190		3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0186)		
26 51 16 00-0191	EA	1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	559.05	63.26
26 51 16 00-0192	EA	2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	566.24	63.26
26 51 16 00-0193		4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0186)		
26 51 16 00-0194	EA	1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	646.72	63.26
26 51 16 00-0195	EA	2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	651.87	63.26
26 51 16 00-0196		Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0175) Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.		
26 51 16 00-0197		2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0196)		
26 51 16 00-0198	EA	1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	269.83	63.26
26 51 16 00-0199	EA	2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	274.99	63.26
26 51 16 00-0200		3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0196)		
26 51 16 00-0201	EA	1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	271.88	63.26
26 51 16 00-0202	EA	2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	279.07	63.26
26 51 16 00-0203		4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0196)		
26 51 16 00-0204	EA	1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	260.07	63.26
26 51 16 00-0205	EA	2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	265.22	63.26
26 51 16 00-0206		Low Occupancy, Industrial Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0207	EA	1 T8 Lamp, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP).....	334.54	45.99
26 51 16 00-0208	EA	2 T8 Lamps, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP).....	340.82	50.26
26 51 16 00-0209		Ceiling Mounted Fluorescent Fixtures (26 51 16)		
26 51 16 00-0210		Ceiling Mounted, Compact Fluorescent/Incandescent Fixtures (26 51 16 00-0209)		
26 51 16 00-0211		Glass Globe, Compact Fluorescent/Incandescent Fixtures (26 51 16 00-0210)		
26 51 16 00-0212	EA	6" Diameter, Ceiling Mounted, Glass Globe, Compact Fluorescent/Incandescent Fixture.....	243.63	55.01
26 51 16 00-0213	EA	9" Diameter, Ceiling Mounted, Mushroom Style Glass Globe, Compact Fluorescent/Incandescent Fixture.....	298.73	55.01
26 51 16 00-0214		Ceiling Mounted, Circline Fluorescent Fixtures (26 51 16 00-0209)		
26 51 16 00-0215		Exposed Lamps, Circline Fluorescent Fixtures (26 51 16 00-0214)		
26 51 16 00-0216	EA	8-1/2" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture.....	194.25	55.01
26 51 16 00-0217	EA	12" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture.....	214.31	55.01
26 51 16 00-0218		Low Profile Acrylic Diffuser, Circline Fluorescent Fixtures (26 51 16 00-0214)		
26 51 16 00-0219	EA	11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	316.66	55.01
26 51 16 00-0220	EA	14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	468.35	55.01
26 51 16 00-0221	EA	19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	573.45	55.01
26 51 16 00-0222	EA	12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	365.80	55.01
26 51 16 00-0223	EA	15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	471.46	55.01
26 51 16 00-0224	EA	19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	573.45	55.01
26 51 16 00-0225		Ceiling Mounted, Double Twin Tube Compact Fluorescent Fixtures (26 51 16 00-0209)		
26 51 16 00-0226		Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixtures (26 51 16 00-0225)		
26 51 16 00-0227	EA	11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	320.96	55.01
26 51 16 00-0228	EA	14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	432.27	55.01
26 51 16 00-0229	EA	19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	526.69	55.01
26 51 16 00-0230	EA	12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	250.59	55.01
26 51 16 00-0231	EA	15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	308.45	55.01

26 Electrical
26 50 Lighting
26 51 Interior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0232	EA	19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture	418.09	55.01
26 51 16 00-0233		Pendant Mounted, Compact Fluorescent/Incandescent Downlights (26 51 16 00-0209)		
26 51 16 00-0234		Pendant Mounted, Compact Fluorescent/Incandescent Open Reflector Downlights (26 51 16 00-0233)		
26 51 16 00-0235	EA	6" Diameter, Pendant Mounted, Open Reflector Compact Fluorescent/Incandescent Downlight	538.39	45.19
26 51 16 00-0236		Pendant Mounted, Compact Fluorescent/Incandescent Downlights With Baffle (26 51 16 00-0233)		
26 51 16 00-0237	EA	6" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle	622.27	45.19
26 51 16 00-0238	EA	8" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle	892.89	45.19
26 51 16 00-0239		Pendant Mounted, Horizontal Indirect Fluorescent Fixtures (26 51 16 00-0209)		
26 51 16 00-0240	EA	1 T5HO Lamp, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	326.13	45.19
26 51 16 00-0241	EA	2 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	347.32	45.19
26 51 16 00-0242	EA	3 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	416.17	45.19
26 51 16 00-0243	EA	2 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	431.82	45.19
26 51 16 00-0244	EA	4 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	517.53	45.19
26 51 16 00-0245	EA	6 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	618.42	45.19
26 51 16 00-0246		Finelite Fluorescent Fixtures (26 51 16 00-0209)		
26 51 16 00-0247		Pendant Mounted, Fluorescent Downlight Fixtures (Finelite Series 10) (26 51 16 00-0246)		
26 51 16 00-0248	EA	1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	551.77	64.08
		For Dual Circuit, Add	136.65	
26 51 16 00-0249	EA	2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	549.30	64.08
		For Dual Circuit, Add	135.91	
26 51 16 00-0250	EA	3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	593.77	64.08
		For Dual Circuit, Add	149.25	
26 51 16 00-0251	EA	1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	665.69	64.08
		For Dual Circuit, Add	170.83	
26 51 16 00-0252	EA	2 T5HO Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	730.21	64.08
		For Dual Circuit, Add	190.18	
26 51 16 00-0253	EA	3 T5HO Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	898.00	64.08
		For Dual Circuit, Add	240.52	
26 51 16 00-0254	EA	2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	786.75	66.84
		For Dual Circuit, Add	154.74	
26 51 16 00-0255	EA	4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	809.98	66.84
		For Dual Circuit, Add	159.97	
26 51 16 00-0256	EA	6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	898.92	66.84
		For Dual Circuit, Add	179.98	
26 51 16 00-0257	EA	2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	864.40	66.84
		For Dual Circuit, Add	172.21	
26 51 16 00-0258	EA	4 T5HO Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	1,087.31	66.84
		For Dual Circuit, Add	222.37	
26 51 16 00-0259	EA	6 T5HO Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	1,282.07	66.84
		For Dual Circuit, Add	266.19	
26 51 16 00-0260	EA	3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	1,040.51	69.59
		For Dual Circuit, Add	140.81	
26 51 16 00-0261	EA	6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	1,080.04	69.59
		For Dual Circuit, Add	146.74	
26 51 16 00-0262	EA	9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	1,194.68	69.59
		For Dual Circuit, Add	163.94	
26 51 16 00-0263	EA	3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	1,203.92	69.59
		For Dual Circuit, Add	165.32	
26 51 16 00-0264	EA	6 T5HO Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	1,491.36	69.59
		For Dual Circuit, Add	208.44	
26 51 16 00-0265	EA	9 T5HO Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	1,788.18	69.59
		For Dual Circuit, Add	252.96	



Electrical			26
Lighting			26 50
Interior Lighting			26 51

26

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0266		Pendant Mounted, Fluorescent Wallwash Fixtures (Finelite Series X2-O) (26 51 16 00-0246)		
26 51 16 00-0267	EA	1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	542.17	64.08
		For Dual Circuit, Add	133.77	
26 51 16 00-0268	EA	1 T5 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	590.48	64.08
		For Dual Circuit, Add	148.26	
26 51 16 00-0269	EA	1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	590.82	64.08
		For Dual Circuit, Add	148.37	
26 51 16 00-0270	EA	2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	795.49	66.84
		For Dual Circuit, Add	156.71	
26 51 16 00-0271	EA	2 T5 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	851.52	66.84
		For Dual Circuit, Add	169.31	
26 51 16 00-0272	EA	2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	852.18	66.84
		For Dual Circuit, Add	169.46	
26 51 16 00-0273	EA	3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	1,048.82	69.59
		For Dual Circuit, Add	142.06	
26 51 16 00-0274	EA	3 T5 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	1,193.77	69.59
		For Dual Circuit, Add	163.80	
26 51 16 00-0275	EA	3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	1,194.77	69.59
		For Dual Circuit, Add	163.95	
26 51 16 00-0276		Pendant Mounted, Fluorescent Indirect Fixtures (Finelite Series 8) (26 51 16 00-0246)		
26 51 16 00-0277	EA	1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	414.70	64.08
		For Dual Circuit, Add	95.53	
26 51 16 00-0278	EA	2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	437.18	64.08
		For Dual Circuit, Add	102.27	
26 51 16 00-0279	EA	3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	516.75	64.08
		For Dual Circuit, Add	126.14	
26 51 16 00-0280	EA	2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	541.12	66.84
		For Dual Circuit, Add	99.47	
26 51 16 00-0281	EA	4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	637.98	66.84
		For Dual Circuit, Add	121.27	
26 51 16 00-0282	EA	6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	753.00	66.84
		For Dual Circuit, Add	147.15	
26 51 16 00-0283	EA	3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	745.38	69.59
		For Dual Circuit, Add	96.54	
26 51 16 00-0284	EA	6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	911.43	69.59
		For Dual Circuit, Add	121.45	
26 51 16 00-0285	EA	9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	1,087.85	69.59
		For Dual Circuit, Add	147.91	
26 51 16 00-0286		Fluorescent, Recessed Fixture Housings (26 51 16)		
26 51 16 00-0287	EA	4" Round, Fluorescent, T Or ICT Recessed Fixture Housing	146.97	39.34
		For ICAT Housing, Add	11.33	
26 51 16 00-0288	EA	5" Round, Fluorescent, T Or ICT Recessed Fixture Housing	151.76	39.34
		For ICAT Housing, Add	11.95	
26 51 16 00-0289	EA	6" Round, Fluorescent, T Or ICT Recessed Fixture Housing	158.14	41.12
		For ICAT Housing, Add	12.42	
26 51 16 00-0290	EA	7" Round, Fluorescent, T Or ICT Recessed Fixture Housing	166.14	42.63
		For ICAT Housing, Add	13.09	
26 51 16 00-0291	EA	8" Round, Fluorescent, T Or ICT Recessed Fixture Housing	173.18	44.84
		For ICAT Housing, Add	13.65	
26 51 16 00-0292	EA	10" To 12" Square, Fluorescent, T Or ICT Recessed Fixture Housing	179.48	47.58
		For ICAT Housing, Add	13.93	
26 51 16 00-0293		Compact Fluorescent, Recessed Fixture Housings (26 51 16)		
26 51 16 00-0294	EA	4" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing	167.55	39.34
		For ICAT Housing, Add	13.98	
26 51 16 00-0295	EA	5" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing	172.26	39.34
		For ICAT Housing, Add	14.59	

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0296	EA	6" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	178.80 15.08	41.26
26 51 16 00-0297	EA	7" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	184.10 15.41	43.04
26 51 16 00-0298	EA	8" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	190.17 15.84	44.84
26 51 16 00-0299	EA	10" To 12" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing..... <i>For ICAT Housing, Add</i>	196.10 16.07	47.58
26 51 16 00-0300		Fluorescent Track Lighting Fixtures (26 51 16)		
26 51 16 00-0301	EA	2L 18W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	334.06	22.96
26 51 16 00-0302	EA	2L 39W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	344.62	22.96
26 51 16 00-0303	EA	2L 40W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	351.21	22.96
26 51 16 00-0304	EA	2L 50W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	232.30	22.96
26 51 16 00-0305	EA	2L, 55 Watt BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	378.53	22.96
26 51 16 00-0306		Compact Fluorescent Track Lighting Fixtures (26 51 16)		
26 51 16 00-0307	EA	Compact Fluorescent Track Lighting Fixture	106.99	22.96
26 51 16 00-0308		Compact Fluorescent, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 16)		
26 51 16 00-0309	EA	13 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... <i>For Wall Mounted, Add</i>	151.82 6.02	55.01
26 51 16 00-0310	EA	22 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... <i>For Wall Mounted, Add</i>	155.51 6.02	55.01
26 51 16 00-0311	EA	28 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... <i>For Wall Mounted, Add</i>	164.66 6.02	55.01
26 51 16 00-0312		Wet Location, Dust Resistant, Vapor Tight, Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 16)		
26 51 16 00-0313		4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 16 00-0312)		
26 51 16 00-0314		4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia DMW) (26 51 16 00-0313) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0315	EA	1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	333.53 28.12	58.55
26 51 16 00-0316	EA	2 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	349.51 29.95	58.55
26 51 16 00-0317	EA	3 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	545.28 52.36	58.55
26 51 16 00-0318	EA	1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....	471.24	58.55
26 51 16 00-0319	EA	2 T8HO Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....	756.44	58.55
26 51 16 00-0320		4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Day- Brite V2W) (26 51 16 00-0313) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0321	EA	1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	392.55	58.55
26 51 16 00-0322	EA	2 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	397.41	58.55
26 51 16 00-0323	EA	3 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	578.42	58.55
26 51 16 00-0324	EA	1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	478.61	58.55
26 51 16 00-0325	EA	2 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	500.24	58.55
26 51 16 00-0326		8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 16 00-0312) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0327		8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia TDMW) (26 51 16 00-0326) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0328	EA	2 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	627.17 58.14	79.54
26 51 16 00-0329	EA	4 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	652.38 61.03	79.54
26 51 16 00-0330		High Bay Fluorescent Fixtures (26 51 16)		
26 51 16 00-0331		(T8) Fluorescent, High Bay Fixtures (26 51 16 00-0330)		



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
26 51 16 00-0332 (T8) Fluorescent, High Bay Fixtures (Lithonia) (26 51 16 00-0331)				
Note: For 8' fixture, use two (2) 4' fixtures.				
26 51 16 00-0333	EA	2 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	550.20	128.17
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0334	EA	3 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	576.56	141.99
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0335	EA	4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	653.43	162.09
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0336	EA	6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	782.85	170.76
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0337	EA	8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	851.40	178.68
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0338	EA	4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	509.34	162.09
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0339	EA	6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	535.74	170.76
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0340	EA	8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	614.22	178.68
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0341 (T5HO) Fluorescent, High Bay Fixtures (26 51 16 00-0330)				
26 51 16 00-0342 (T5HO) Fluorescent, High Bay Fixtures (Lithonia) (26 51 16 00-0341)				
Note: For 8' fixture, use two (2) 4' fixtures.				
26 51 16 00-0343	EA	2 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	558.60	128.17
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0344	EA	3 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	586.23	141.99
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0345	EA	4 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	668.35	162.09
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0346	EA	6 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	810.61	170.76
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0347	EA	4 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)	543.18	162.09
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0348	EA	6 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)	600.99	170.76
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 16 00-0349	EA	8 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)	704.42	178.68
		For Wire Guard, Add	40.50	
		For Polycarbonate Lens, Add	47.75	
		For Acrylic Lens, Add	54.00	
26 51 19 LED Interior Lighting (26 51)				
26 51 19 00-0001 LED Fixtures (26 51 19)				
26 51 19 00-0002 Undercabinet LED Fixtures (26 51 19 00-0001)				
26 51 19 00-0003	EA	12" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ12-M6)	147.94	33.93
		For >50 To 100, Deduct	-5.11	
		For >100 To 250, Deduct	-8.81	
		For >250 To 500, Deduct	-14.79	
		For >500, Deduct	-20.78	
26 51 19 00-0004	EA	18" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ18-M6)	182.82	41.46
		For >50 To 100, Deduct	-6.30	
		For >100 To 250, Deduct	-10.87	
		For >250 To 500, Deduct	-18.28	
		For >500, Deduct	-25.70	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0005 EA 24" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ24-M6)	183.26	41.46
For>50 To 100, Deduct	-6.31	
For>100 To 250, Deduct	-10.89	
For>250 To 500, Deduct	-18.33	
For>500, Deduct	-25.76	
26 51 19 00-0006 EA 24" HIDE-A-LITE V Series LED Undercabinet Fixture (Progress Lighting P700003-028-30)	176.17	33.93
For>50 To 100, Deduct	-5.82	
For>100 To 250, Deduct	-10.22	
For>250 To 500, Deduct	-17.62	
For>500, Deduct	-25.01	
26 51 19 00-0007 Surface Mount Linear/Striplight LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0008 Striplight LED Fixtures (Lithonia CLX) (26 51 19 00-0007)		
Note: Standard efficiency, flat or round diffuse lens, 120-277 volt, 0-10 volt dimming, 3000K to 5000K color temperature, 80CRI		
26 51 19 00-0009 EA 2' Length, 1,500 Lumens, LED Striplight Fixture (Lithonia CLX)	226.89	37.69
Note: With integral occupancy sensor		
26 51 19 00-0010 EA 2' Length, 2,000 Lumens, LED Striplight Fixture (Lithonia CLX)	232.83	37.69
Note: With integral occupancy sensor		
26 51 19 00-0011 EA 4' Length, 3,000 Lumens, LED Striplight Fixture (Lithonia CLX)	269.17	45.99
Note: With integral occupancy sensor		
26 51 19 00-0012 EA 4' Length, 4,000 Lumens, LED Striplight Fixture (Lithonia CLX)	275.13	45.99
Note: With integral occupancy sensor		
26 51 19 00-0013 EA 4' Length, 5,000 Lumens, LED Striplight Fixture (Lithonia CLX)	281.08	45.99
Note: With integral occupancy sensor		
26 51 19 00-0014 EA 4' Length, 7,000 Lumens, LED Striplight Fixture (Lithonia CLX)	287.02	45.99
Note: With integral occupancy sensor		
26 51 19 00-0015 EA 4' Length, 9,000 Lumens, LED Striplight Fixture (Lithonia CLX)	292.97	45.99
Note: With integral occupancy sensor		
26 51 19 00-0016 EA 8' Length, 6,000 Lumens, LED Striplight Fixture (Lithonia CLX)	373.92	54.41
Note: With integral occupancy sensor		
26 51 19 00-0017 EA 8' Length, 8,000 Lumens, LED Striplight Fixture (Lithonia CLX)	385.82	54.41
Note: With integral occupancy sensor		
26 51 19 00-0018 EA 8' Length, 10,000 Lumens, LED Striplight Fixture (Lithonia CLX)	399.20	54.41
Note: With integral occupancy sensor		
26 51 19 00-0019 EA 8' Length, 14,000 Lumens, LED Striplight Fixture (Lithonia CLX)	411.10	54.41
Note: With integral occupancy sensor		
26 51 19 00-0020 EA 8' Length, 18,000 Lumens, LED Striplight Fixture (Lithonia CLX)	424.48	54.41
Note: With integral occupancy sensor		
26 51 19 00-0021 EA 8' Length, 20,000 Lumens, LED Striplight Fixture (Lithonia CLX)	436.37	54.41
Note: With integral occupancy sensor		
26 51 19 00-0022 Striplight LED Fixtures (Lithonia ZL) (26 51 19 00-0007)		
26 51 19 00-0023 EA 3,000 Lumens, 2' Length, LED Striplight Fixture (Lithonia ZL1)	233.44	37.69
For>50 To 100, Deduct	-7.25	
For>100 To 250, Deduct	-13.09	
For>250 To 500, Deduct	-23.34	
For>500, Deduct	-33.60	
26 51 19 00-0024 EA 2,800 Lumens, 4' Length, LED Striplight Fixture (Lithonia ZL1)	246.00	45.99
For>50 To 100, Deduct	-7.88	
For>100 To 250, Deduct	-14.03	
For>250 To 500, Deduct	-24.60	
For>500, Deduct	-35.17	
26 51 19 00-0025 EA 1,400 Lumens, 2' Length, Lensed LED Striplight Fixture (Lithonia ZL2)	276.20	37.69
For>50 To 100, Deduct	-8.32	
For>100 To 250, Deduct	-15.22	
For>250 To 500, Deduct	-27.62	
For>500, Deduct	-40.02	
26 51 19 00-0026 EA 2,300 Lumens, 4' Length, Lensed LED Striplight Fixture (Lithonia ZL2)	288.76	45.99
For>50 To 100, Deduct	-8.95	
For>100 To 250, Deduct	-16.17	
For>250 To 500, Deduct	-28.88	
For>500, Deduct	-41.59	
26 51 19 00-0027 EA 4,600 Lumens, 4' Length, Lensed LED Striplight Fixture (Lithonia ZL2)	361.01	45.99
For>50 To 100, Deduct	-10.75	
For>100 To 250, Deduct	-19.78	
For>250 To 500, Deduct	-36.10	
For>500, Deduct	-52.42	
26 51 19 00-0028 Striplight LED Fixtures (Lithonia TZL1D) (26 51 19 00-0007)		
26 51 19 00-0029 EA 8,077 Lumens, 60 Watt, 8' Length, 3000K CCT, LED Striplight (Lithonia Lighting TZL1D L96 6000LM MVOLT 30K 80CRI)	444.35	54.41
For>50 To 100, Deduct	-13.15	
For>100 To 250, Deduct	-24.26	
For>250 To 500, Deduct	-44.44	
For>500, Deduct	-64.61	



Electrical			26
Lighting			26 50
Interior Lighting			26 51

26

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0030	EA	8,257 Lumens, 60 Watt, 8' Length, 3500K CCT, LED Striplight (Lithonia Lighting TZL1D L96 6000LM MVOLT 35K 80CRI).....		444.35	54.41
		For >50 To 100, Deduct		-13.15	
		For >100 To 250, Deduct		-24.26	
		For >250 To 500, Deduct		-44.44	
		For >500, Deduct		-64.61	
26 51 19 00-0031	EA	8,386 Lumens, 60 Watt, 8' Length, 4000K CCT, LED Striplight (Lithonia Lighting TZL1D L96 6000LM MVOLT 40K 80CRI).....		444.35	54.41
		For >50 To 100, Deduct		-13.15	
		For >100 To 250, Deduct		-24.26	
		For >250 To 500, Deduct		-44.44	
		For >500, Deduct		-64.61	
26 51 19 00-0032	EA	8,694 Lumens, 60 Watt, 8' Length, 5000K CCT, LED Striplight (Lithonia Lighting TZL1D L96 6000LM MVOLT 50K 80CRI).....		444.35	54.41
		For >50 To 100, Deduct		-13.15	
		For >100 To 250, Deduct		-24.26	
		For >250 To 500, Deduct		-44.44	
		For >500, Deduct		-64.61	
26 51 19 00-0033	EA	11,021 Lumens, 81 Watt, 8' Length, 3000K CCT, LED Striplight (Lithonia Lighting TZL1D L96 10000LM MVOLT 30K 80CRI).....		467.53	54.41
		For >50 To 100, Deduct		-13.73	
		For >100 To 250, Deduct		-25.42	
		For >250 To 500, Deduct		-46.75	
		For >500, Deduct		-68.09	
26 51 19 00-0034	EA	11,267 Lumens, 81 Watt, 8' Length, 3500K CCT, LED Striplight (Lithonia Lighting TZL1D L96 10000LM MVOLT 35K 80CRI).....		467.53	54.41
		For >50 To 100, Deduct		-13.73	
		For >100 To 250, Deduct		-25.42	
		For >250 To 500, Deduct		-46.75	
		For >500, Deduct		-68.09	
26 51 19 00-0035	EA	11,442 Lumens, 81 Watt, 8' Length, 4000K CCT, LED Striplight (Lithonia Lighting TZL1D L96 10000LM MVOLT 40K 80CRI).....		467.53	54.41
		For >50 To 100, Deduct		-13.73	
		For >100 To 250, Deduct		-25.42	
		For >250 To 500, Deduct		-46.75	
		For >500, Deduct		-68.09	
26 51 19 00-0036	EA	11,864 Lumens, 81 Watt, 8' Length, 5000K CCT, LED Striplight (Lithonia Lighting TZL1D L96 10000LM MVOLT 50K 80CRI).....		467.53	54.41
		For >50 To 100, Deduct		-13.73	
		For >100 To 250, Deduct		-25.42	
		For >250 To 500, Deduct		-46.75	
		For >500, Deduct		-68.09	
26 51 19 00-0037	EA	15,397 Lumens, 121 Watt, 8' Length, 3000K CCT, LED Striplight (Lithonia Lighting TZL1D L96 14000LM MVOLT 30K 80CRI).....		490.84	54.41
		For >50 To 100, Deduct		-14.31	
		For >100 To 250, Deduct		-26.58	
		For >250 To 500, Deduct		-49.08	
		For >500, Deduct		-71.58	
26 51 19 00-0038	EA	15,741 Lumens, 121 Watt, 8' Length, 3500K CCT, LED Striplight (Lithonia Lighting TZL1D L96 14000LM MVOLT 35K 80CRI).....		490.84	54.41
		For >50 To 100, Deduct		-14.31	
		For >100 To 250, Deduct		-26.58	
		For >250 To 500, Deduct		-49.08	
		For >500, Deduct		-71.58	
26 51 19 00-0039	EA	15,986 Lumens, 121 Watt, 8' Length, 4000K CCT, LED Striplight (Lithonia Lighting TZL1D L96 14000LM MVOLT 40K 80CRI).....		490.84	54.41
		For >50 To 100, Deduct		-14.31	
		For >100 To 250, Deduct		-26.58	
		For >250 To 500, Deduct		-49.08	
		For >500, Deduct		-71.58	
26 51 19 00-0040	EA	16,574 Lumens, 121 Watt, 8' Length, 5000K CCT, LED Striplight (Lithonia Lighting TZL1D L96 14000LM MVOLT 50K 80CRI).....		490.84	54.41
		For >50 To 100, Deduct		-14.31	
		For >100 To 250, Deduct		-26.58	
		For >250 To 500, Deduct		-49.08	
		For >500, Deduct		-71.58	
26 51 19 00-0041	Striplight LED Fixtures (Lithonia ZL1D) (26 51 19 00-0007)				
26 51 19 00-0042	EA	1,985 Lumens, 17 Watt, 2' Length, 3000K CCT, LED Striplight (Lithonia Lighting ZL1D L24 1500LM MVOLT 30K 80CRI).....		184.43	37.69
		For >50 To 100, Deduct		-6.02	
		For >100 To 250, Deduct		-10.64	
		For >250 To 500, Deduct		-18.44	
		For >500, Deduct		-26.25	
26 51 19 00-0043	EA	2,030 Lumens, 17 Watt, 2' Length, 3500K CCT, LED Striplight (Lithonia Lighting ZL1D L24 1500LM MVOLT 35K 80CRI).....		184.43	37.69
		For >50 To 100, Deduct		-6.02	
		For >100 To 250, Deduct		-10.64	
		For >250 To 500, Deduct		-18.44	
		For >500, Deduct		-26.25	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 51 19 00-0044	EA	2,061 Lumens, 17 Watt, 2' Length, 4000K CCT, LED Striplight (Lithonia Lighting ZL1D L24 1500LM MVOLT 40K 80CRI).....	184.43		37.69
		For >50 To 100, Deduct	-6.02		
		For >100 To 250, Deduct	-10.64		
		For >250 To 500, Deduct	-18.44		
		For >500, Deduct	-26.25		
26 51 19 00-0045	EA	2,137 Lumens, 17 Watt, 2' Length, 5000K CCT, LED Striplight (Lithonia Lighting ZL1D L24 1500LM MVOLT 50K 80CRI).....	184.43		37.69
		For >50 To 100, Deduct	-6.02		
		For >100 To 250, Deduct	-10.64		
		For >250 To 500, Deduct	-18.44		
		For >500, Deduct	-26.25		
26 51 19 00-0046	EA	2,682 Lumens, 22 Watt, 2' Length, 3000K CCT, LED Striplight (Lithonia Lighting ZL1D L24 2500LM MVOLT 30K 80CRI).....	207.73		37.69
		For >50 To 100, Deduct	-6.61		
		For >100 To 250, Deduct	-11.80		
		For >250 To 500, Deduct	-20.77		
		For >500, Deduct	-29.75		
26 51 19 00-0047	EA	2,742 Lumens, 22 Watt, 2' Length, 3500K CCT, LED Striplight (Lithonia Lighting ZL1D L24 2500LM MVOLT 35K 80CRI).....	207.73		37.69
		For >50 To 100, Deduct	-6.61		
		For >100 To 250, Deduct	-11.80		
		For >250 To 500, Deduct	-20.77		
		For >500, Deduct	-29.75		
26 51 19 00-0048	EA	2,785 Lumens, 22 Watt, 2' Length, 4000K CCT, LED Striplight (Lithonia Lighting ZL1D L24 2500LM MVOLT 40K 80CRI).....	207.73		37.69
		For >50 To 100, Deduct	-6.61		
		For >100 To 250, Deduct	-11.80		
		For >250 To 500, Deduct	-20.77		
		For >500, Deduct	-29.75		
26 51 19 00-0049	EA	2,887 Lumens, 22 Watt, 2' Length, 5000K CCT, LED Striplight (Lithonia Lighting ZL1D L24 2500LM MVOLT 50K 80CRI).....	207.73		37.69
		For >50 To 100, Deduct	-6.61		
		For >100 To 250, Deduct	-11.80		
		For >250 To 500, Deduct	-20.77		
		For >500, Deduct	-29.75		
26 51 19 00-0050	EA	4,099 Lumens, 36 Watt, 2' Length, 3000K CCT, LED Striplight (Lithonia Lighting ZL1D L24 3500LM MVOLT 30K 80CRI).....	219.32		37.69
		For >50 To 100, Deduct	-6.90		
		For >100 To 250, Deduct	-12.38		
		For >250 To 500, Deduct	-21.93		
		For >500, Deduct	-31.48		
26 51 19 00-0051	EA	4,190 Lumens, 36 Watt, 2' Length, 3500K CCT, LED Striplight (Lithonia Lighting ZL1D L24 3500LM MVOLT 35K 80CRI).....	219.32		37.69
		For >50 To 100, Deduct	-6.90		
		For >100 To 250, Deduct	-12.38		
		For >250 To 500, Deduct	-21.93		
		For >500, Deduct	-31.48		
26 51 19 00-0052	EA	4,255 Lumens, 36 Watt, 2' Length, 4000K CCT, LED Striplight (Lithonia Lighting ZL1D L24 3500LM MVOLT 40K 80CRI).....	219.32		37.69
		For >50 To 100, Deduct	-6.90		
		For >100 To 250, Deduct	-12.38		
		For >250 To 500, Deduct	-21.93		
		For >500, Deduct	-31.48		
26 51 19 00-0053	EA	4,412 Lumens, 36 Watt, 2' Length, 5000K CCT, LED Striplight (Lithonia Lighting ZL1D L24 3500LM MVOLT 50K 80CRI).....	219.32		37.69
		For >50 To 100, Deduct	-6.90		
		For >100 To 250, Deduct	-12.38		
		For >250 To 500, Deduct	-21.93		
		For >500, Deduct	-31.48		
26 51 19 00-0054	EA	3,880 Lumens, 30 Watt, 4' Length, 3000K CCT, LED Striplight (Lithonia Lighting ZL1D L48 3000LM MVOLT 30K 80CRI).....	250.46		45.99
		For >50 To 100, Deduct	-7.99		
		For >100 To 250, Deduct	-14.25		
		For >250 To 500, Deduct	-25.05		
		For >500, Deduct	-35.84		
26 51 19 00-0055	EA	3,966 Lumens, 30 Watt, 4' Length, 3500K CCT, LED Striplight (Lithonia Lighting ZL1D L48 3000LM MVOLT 35K 80CRI).....	250.46		45.99
		For >50 To 100, Deduct	-7.99		
		For >100 To 250, Deduct	-14.25		
		For >250 To 500, Deduct	-25.05		
		For >500, Deduct	-35.84		
26 51 19 00-0056	EA	4,028 Lumens, 30 Watt, 4' Length, 4000K CCT, LED Striplight (Lithonia Lighting ZL1D L48 3000LM MVOLT 40K 80CRI).....	250.46		45.99
		For >50 To 100, Deduct	-7.99		
		For >100 To 250, Deduct	-14.25		
		For >250 To 500, Deduct	-25.05		
		For >500, Deduct	-35.84		
26 51 19 00-0057	EA	4,176 Lumens, 30 Watt, 4' Length, 5000K CCT, LED Striplight (Lithonia Lighting ZL1D L48 3000LM MVOLT 50K 80CRI).....	250.46		45.99
		For >50 To 100, Deduct	-7.99		
		For >100 To 250, Deduct	-14.25		
		For >250 To 500, Deduct	-25.05		
		For >500, Deduct	-35.84		



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0058	EA	5,337 Lumens, 41 Watt, 4' Length, 3000K CCT, LED Striplight (Lithonia Lighting ZL1D L48 5000LM MVOLT 30K 80CRI)		262.04	45.99
		For >50 To 100, Deduct		-8.28	
		For >100 To 250, Deduct		-14.83	
		For >250 To 500, Deduct		-26.20	
		For >500, Deduct		-37.58	
26 51 19 00-0059	EA	5,456 Lumens, 41 Watt, 4' Length, 3500K CCT, LED Striplight (Lithonia Lighting ZL1D L48 5000LM MVOLT 35K 80CRI)		262.04	45.99
		For >50 To 100, Deduct		-8.28	
		For >100 To 250, Deduct		-14.83	
		For >250 To 500, Deduct		-26.20	
		For >500, Deduct		-37.58	
26 51 19 00-0060	EA	5,541 Lumens, 41 Watt, 4' Length, 4000K CCT, LED Striplight (Lithonia Lighting ZL1D L48 5000LM MVOLT 40K 80CRI)		262.04	45.99
		For >50 To 100, Deduct		-8.28	
		For >100 To 250, Deduct		-14.83	
		For >250 To 500, Deduct		-26.20	
		For >500, Deduct		-37.58	
26 51 19 00-0061	EA	5,745 Lumens, 41 Watt, 4' Length, 5000K CCT, LED Striplight (Lithonia Lighting ZL1D L48 5000LM MVOLT 50K 80CRI)		262.04	45.99
		For >50 To 100, Deduct		-8.28	
		For >100 To 250, Deduct		-14.83	
		For >250 To 500, Deduct		-26.20	
		For >500, Deduct		-37.58	
26 51 19 00-0062	EA	7,317 Lumens, 59 Watt, 4' Length, 3000K CCT, LED Striplight (Lithonia Lighting ZL1D L48 7000LM MVOLT 30K 80CRI)		273.64	45.99
		For >50 To 100, Deduct		-8.57	
		For >100 To 250, Deduct		-15.41	
		For >250 To 500, Deduct		-27.36	
		For >500, Deduct		-39.32	
26 51 19 00-0063	EA	7,480 Lumens, 59 Watt, 4' Length, 3500K CCT, LED Striplight (Lithonia Lighting ZL1D L48 7000LM MVOLT 35K 80CRI)		273.64	45.99
		For >50 To 100, Deduct		-8.57	
		For >100 To 250, Deduct		-15.41	
		For >250 To 500, Deduct		-27.36	
		For >500, Deduct		-39.32	
26 51 19 00-0064	EA	7,596 Lumens, 59 Watt, 4' Length, 4000K CCT, LED Striplight (Lithonia Lighting ZL1D L48 7000LM MVOLT 40K 80CRI)		273.64	45.99
		For >50 To 100, Deduct		-8.57	
		For >100 To 250, Deduct		-15.41	
		For >250 To 500, Deduct		-27.36	
		For >500, Deduct		-39.32	
26 51 19 00-0065	EA	7,876 Lumens, 59 Watt, 4' Length, 5000K CCT, LED Striplight (Lithonia Lighting ZL1D L48 7000LM MVOLT 50K 80CRI)		273.64	45.99
		For >50 To 100, Deduct		-8.57	
		For >100 To 250, Deduct		-15.41	
		For >250 To 500, Deduct		-27.36	
		For >500, Deduct		-39.32	
26 51 19 00-0066	Striplight LED Fixtures (Mobern) (26 51 19 00-0007)				
26 51 19 00-0067	EA	1,100 Lumens, 12 Watt, 2' Length, Chrome, LED Bracket Fixture (Mobern 7924LED12DMV30)		236.58	37.69
		For >50 To 100, Deduct		-7.33	
		For >100 To 250, Deduct		-13.24	
		For >250 To 500, Deduct		-23.66	
		For >500, Deduct		-34.07	
26 51 19 00-0068	Striplight LED Fixtures (Eaton) (26 51 19 00-0007)				
26 51 19 00-0069	EA	2,301 Lumens, 18 Watt, 4' Length, LED Strip Lighting (Eaton Lighting 4SNLED-LD4-22SL-LC-UNV-L840-CD1-U)		300.72	45.99
		For >50 To 100, Deduct		-9.25	
		For >100 To 250, Deduct		-16.76	
		For >250 To 500, Deduct		-30.07	
		For >500, Deduct		-43.38	
26 51 19 00-0070	EA	2,382 Lumens, 16 Watt, 4' Length, LED Clear Lensed Striplight (Cooper Industries 4SNLED-LD5-22SL-LC-UNV-L840-CD1-U)		283.82	45.99
		For >50 To 100, Deduct		-8.82	
		For >100 To 250, Deduct		-15.92	
		For >250 To 500, Deduct		-28.38	
		For >500, Deduct		-40.85	
26 51 19 00-0071	EA	2,382 Lumens, 16 Watt, 4' Length, Clear Lens, LED Striplight (Cooper Industries Metalux Series 4SNLED-LD5-22SL-LC-UNV-830-CD1-U)		300.72	45.99
		For >50 To 100, Deduct		-9.25	
		For >100 To 250, Deduct		-16.76	
		For >250 To 500, Deduct		-30.07	
		For >500, Deduct		-43.38	
26 51 19 00-0072	Suspended Linear LED Fixtures (26 51 19 00-0001)				
26 51 19 00-0073	Suspended, Pendant Mounted, Linear LED Fixtures (Lithonia GRD) (26 51 19 00-0072)				

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0074	EA	3,303 Lumens, 25 Watt, 4' Length, 3000K CCT, 4' Length, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 30K ID800LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0075	EA	3,401 Lumens, 25 Watt, 4' Length, 3500K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 35K ID800LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0076	EA	3,456 Lumens, 25 Watt, 4' Length, 4000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 40K ID800LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0077	EA	4,033 Lumens, 32 Watt, 4' Length, 3000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 30K ID1000LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0078	EA	4,153 Lumens, 32 Watt, 4' Length, 3500K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 35K ID1000LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0079	EA	4,220 Lumens, 32 Watt, 4' Length, 4000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 40K ID1000LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0080	EA	4,843 Lumens, 40 Watt, 4' Length, 3000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 30K ID1300LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0081	EA	4,987 Lumens, 40 Watt, 4' Length, 3500K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 35K ID1300LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0082	EA	5,067 Lumens, 40 Watt, 4' Length, 4000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 40K ID1300LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0083	EA	5,841 Lumens, 51 Watt, 4' Length, 3000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 30K ID1500LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0084	EA	6,015 Lumens, 51 Watt, 4' Length, 3500K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 35K ID1500LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0085	EA	6,111 Lumens, 51 Watt, 4' Length, 4000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL4 40K ID1500LMF)	758.39	45.99	
		For >50 To 100, Deduct	-20.69		
		For >100 To 250, Deduct	-39.65		
		For >250 To 500, Deduct	-75.84		
		For >500, Deduct	-112.03		
26 51 19 00-0086	EA	6,606 Lumens, 50 Watt, 8' Length, 3000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 30K ID800LMF)	1,129.62	54.41	
		For >50 To 100, Deduct	-30.28		
		For >100 To 250, Deduct	-58.52		
		For >250 To 500, Deduct	-112.96		
		For >500, Deduct	-167.40		
26 51 19 00-0087	EA	6,802 Lumens, 50 Watt, 8' Length, 3500K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 35K ID800LMF)	1,129.62	54.41	
		For >50 To 100, Deduct	-30.28		
		For >100 To 250, Deduct	-58.52		
		For >250 To 500, Deduct	-112.96		
		For >500, Deduct	-167.40		



Electrical		26	26
Lighting		26 50	
Interior Lighting		26 51	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0088	EA	6,912 Lumens, 50 Watt, 8' Length, 4000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 40K ID800LMF).....		1,129.62	54.41
		For >50 To 100, Deduct		-30.28	
		For >100 To 250, Deduct		-58.52	
		For >250 To 500, Deduct		-112.96	
		For >500, Deduct		-167.40	
26 51 19 00-0089	EA	8,066 Lumens, 64 Watt, 8' Length, 3000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 30K ID1000LMF).....		1,129.62	54.41
		For >50 To 100, Deduct		-30.28	
		For >100 To 250, Deduct		-58.52	
		For >250 To 500, Deduct		-112.96	
		For >500, Deduct		-167.40	
26 51 19 00-0090	EA	8,303 Lumens, 64 Watt, 8' Length, 3500K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 35K ID1000LMF).....		1,129.62	54.41
		For >50 To 100, Deduct		-30.28	
		For >100 To 250, Deduct		-58.52	
		For >250 To 500, Deduct		-112.96	
		For >500, Deduct		-167.40	
26 51 19 00-0091	EA	8,440 Lumens, 64 Watt, 8' Length, 4000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 40K ID1000LMF).....		1,129.62	54.41
		For >50 To 100, Deduct		-30.28	
		For >100 To 250, Deduct		-58.52	
		For >250 To 500, Deduct		-112.96	
		For >500, Deduct		-167.40	
26 51 19 00-0092	EA	9,686 Lumens, 80 Watt, 8' Length, 3000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 30K ID1300LMF).....		1,129.62	54.41
		For >50 To 100, Deduct		-30.28	
		For >100 To 250, Deduct		-58.52	
		For >250 To 500, Deduct		-112.96	
		For >500, Deduct		-167.40	
26 51 19 00-0093	EA	9,974 Lumens, 80 Watt, 8' Length, 3500K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 35K ID1300LMF).....		1,129.62	54.41
		For >50 To 100, Deduct		-30.28	
		For >100 To 250, Deduct		-58.52	
		For >250 To 500, Deduct		-112.96	
		For >500, Deduct		-167.40	
26 51 19 00-0094	EA	10,134 Lumens, 80 Watt, 8' Length, 4000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 40K ID1300LMF).....		1,129.62	54.41
		For >50 To 100, Deduct		-30.28	
		For >100 To 250, Deduct		-58.52	
		For >250 To 500, Deduct		-112.96	
		For >500, Deduct		-167.40	
26 51 19 00-0095	EA	11,682 Lumens, 102 Watt, 8' Length, 3000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 30K ID1500LMF).....		1,129.62	54.41
		For >50 To 100, Deduct		-30.28	
		For >100 To 250, Deduct		-58.52	
		For >250 To 500, Deduct		-112.96	
		For >500, Deduct		-167.40	
26 51 19 00-0096	EA	12,030 Lumens, 102 Watt, 8' Length, 3500K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 35K ID1500LMF).....		1,129.62	54.41
		For >50 To 100, Deduct		-30.28	
		For >100 To 250, Deduct		-58.52	
		For >250 To 500, Deduct		-112.96	
		For >500, Deduct		-167.40	
26 51 19 00-0097	EA	12,222 Lumens, 102 Watt, 8' Length, 4000K CCT, Grad Linear, Suspended LED Light (Lithonia Lighting GRD LSL MSL8 40K ID1500LMF).....		1,129.62	54.41
		For >50 To 100, Deduct		-30.28	
		For >100 To 250, Deduct		-58.52	
		For >250 To 500, Deduct		-112.96	
		For >500, Deduct		-167.40	
26 51 19 00-0098		Suspended Linear LED Fixtures (Lithonia GRD) (26 51 19 00-0072)			
26 51 19 00-0099	EA	24' Length, 8' Sections, 80 CRI, 3,500K, LED Linear Fixture (Lithonia GRD 24FT MSL8 80 CRI 35K ID800LMF 20/80 MIN1 ZT 120 SCT PDT).....		2,261.05	207.33
26 51 19 00-0100		Lay-In/Troffer LED Fixtures (26 51 19 00-0001)			
26 51 19 00-0101		Prismatic Lensed, Lay-In/Troffer LED Fixtures (26 51 19 00-0100)			
26 51 19 00-0102		Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0101)			
26 51 19 00-0103	EA	1' x 4', 4,300 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia TL4).....		632.01	45.61
		For Drywall Or Plaster Ceilings With Frame Kit, Add		48.88	
		For >50 To 100, Deduct		-17.53	
		For >100 To 250, Deduct		-33.33	
		For >250 To 500, Deduct		-63.20	
		For >500, Deduct		-93.07	
26 51 19 00-0104	EA	2' x 2', 3,300 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL2).....		381.08	50.26
		For Drywall Or Plaster Ceilings, Add		33.93	
		For >50 To 100, Deduct		-11.41	
		For >100 To 250, Deduct		-20.94	
		For >250 To 500, Deduct		-38.11	
		For >500, Deduct		-55.28	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0105	EA	2' x 4', 4,600 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL4)	.....	638.75	58.55
		For Drywall Or Plaster Ceilings With Frame Kit, Add		53.93	
		For >50 To 100, Deduct		-18.17	
		For >100 To 250, Deduct		-34.14	
		For >250 To 500, Deduct		-63.88	
		For >500, Deduct		-93.61	
26 51 19 00-0106		Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lunera)	(26 51 19 00-0101)	909.75	45.61
26 51 19 00-0107	EA	1' x 4', 3,200 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 14G4)	.....	909.75	45.61
		For >50 To 100, Deduct		-24.47	
		For >100 To 250, Deduct		-47.22	
		For >250 To 500, Deduct		-90.98	
		For >500, Deduct		-134.73	
26 51 19 00-0108	EA	2' x 2', 3,200 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 22G5)	.....	640.80	50.26
		For >50 To 100, Deduct		-17.90	
		For >100 To 250, Deduct		-33.92	
		For >250 To 500, Deduct		-64.08	
		For >500, Deduct		-94.24	
26 51 19 00-0109	EA	2' x 4', 4,175 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 24G4)	.....	834.46	58.55
		For >50 To 100, Deduct		-23.06	
		For >100 To 250, Deduct		-43.92	
		For >250 To 500, Deduct		-83.45	
		For >500, Deduct		-122.97	
26 51 19 00-0110		Prismatic Lensed, Lay-In/Troffer LED Fixtures (PlanLED)	(26 51 19 00-0101)	423.01	50.26
26 51 19 00-0111	EA	2,591 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E)	.....	423.01	50.26
		For >50 To 100, Deduct		-12.46	
		For >100 To 250, Deduct		-23.04	
		For >250 To 500, Deduct		-42.30	
		For >500, Deduct		-61.57	
26 51 19 00-0112	EA	3,883 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E)	.....	467.86	50.26
		For >50 To 100, Deduct		-13.58	
		For >100 To 250, Deduct		-25.28	
		For >250 To 500, Deduct		-46.79	
		For >500, Deduct		-68.29	
26 51 19 00-0113	EA	3,700 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-40)	.....	398.34	50.26
		For >50 To 100, Deduct		-11.84	
		For >100 To 250, Deduct		-21.80	
		For >250 To 500, Deduct		-39.83	
		For >500, Deduct		-57.87	
26 51 19 00-0114	EA	4,200 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-45)	.....	398.34	50.26
		For >50 To 100, Deduct		-11.84	
		For >100 To 250, Deduct		-21.80	
		For >250 To 500, Deduct		-39.83	
		For >500, Deduct		-57.87	
26 51 19 00-0115	EA	4,600 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-50)	.....	427.49	50.26
		For >50 To 100, Deduct		-12.57	
		For >100 To 250, Deduct		-23.26	
		For >250 To 500, Deduct		-42.75	
		For >500, Deduct		-62.24	
26 51 19 00-0116		Volumetric, Lay-In/Troffer LED Fixtures	(26 51 19 00-0100)	519.82	45.61
26 51 19 00-0117		Volumetric, Lay-In/Troffer LED Fixtures (Lithonia)	(26 51 19 00-0116)	519.82	45.61
26 51 19 00-0118	EA	1' x 4', 3,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia RTL4)	.....	519.82	45.61
		For Drywall Or Plaster Ceilings, Add		31.10	
		For >50 To 100, Deduct		-14.72	
		For >100 To 250, Deduct		-27.72	
		For >250 To 500, Deduct		-51.98	
		For >500, Deduct		-76.25	
26 51 19 00-0119	EA	1' x 4', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia RTL4)	.....	638.02	45.61
		For Drywall Or Plaster Ceilings, Add		31.10	
		For >50 To 100, Deduct		-17.68	
		For >100 To 250, Deduct		-33.63	
		For >250 To 500, Deduct		-63.80	
		For >500, Deduct		-93.98	
26 51 19 00-0120	EA	2' x 2', 2,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2)	.....	500.69	50.26
		For Drywall Or Plaster Ceilings With Frame Kit, Add		43.88	
		For >50 To 100, Deduct		-14.40	
		For >100 To 250, Deduct		-26.92	
		For >250 To 500, Deduct		-50.07	
		For >500, Deduct		-73.22	
26 51 19 00-0121	EA	2' x 2', 3,300 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2)	.....	572.49	50.26
		For Drywall Or Plaster Ceilings With Frame Kit, Add		47.47	
		For >50 To 100, Deduct		-16.20	
		For >100 To 250, Deduct		-30.51	
		For >250 To 500, Deduct		-57.25	
		For >500, Deduct		-83.99	
26 51 19 00-0122	EA	2' x 2', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2)	.....	629.93	50.26
		For >50 To 100, Deduct		-17.63	
		For >100 To 250, Deduct		-33.38	
		For >250 To 500, Deduct		-62.99	
		For >500, Deduct		-92.60	



Electrical			26
Lighting			26 50
Interior Lighting			26 51

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0123	EA	2' x 4', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4)	.....	642.50	58.55
		For Drywall Or Plaster Ceilings With Frame Kit, Add		54.12	
		For >50 To 100, Deduct		-18.26	
		For >100 To 250, Deduct		-34.32	
		For >250 To 500, Deduct		-64.25	
		For >500, Deduct		-94.18	
26 51 19 00-0124	EA	2' x 4', 4,800 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4)	.....	699.94	58.55
		For Drywall Or Plaster Ceilings With Frame Kit, Add		56.99	
		For >50 To 100, Deduct		-19.70	
		For >100 To 250, Deduct		-37.20	
		For >250 To 500, Deduct		-69.99	
		For >500, Deduct		-102.79	
26 51 19 00-0125	EA	2' x 4', 6,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4)	.....	757.38	58.55
		For Drywall Or Plaster Ceilings With Frame Kit, Add		59.86	
		For >50 To 100, Deduct		-21.13	
		For >100 To 250, Deduct		-40.07	
		For >250 To 500, Deduct		-75.74	
		For >500, Deduct		-111.41	
26 51 19 00-0126	EA	2' x 2', 2,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL2)	.....	443.26	50.26
		For Drywall Or Plaster Ceilings With Frame Kit, Add		41.01	
		For >50 To 100, Deduct		-12.97	
		For >100 To 250, Deduct		-24.05	
		For >250 To 500, Deduct		-44.33	
		For >500, Deduct		-64.60	
26 51 19 00-0127	EA	2' x 2', 3,300 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL2)	.....	515.05	50.26
		For Drywall Or Plaster Ceilings With Frame Kit, Add		44.60	
		For >50 To 100, Deduct		-14.76	
		For >100 To 250, Deduct		-27.64	
		For >250 To 500, Deduct		-51.51	
		For >500, Deduct		-75.37	
26 51 19 00-0128	EA	2' x 2', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL2)	.....	558.12	50.26
		For Drywall Or Plaster Ceilings With Frame Kit, Add		46.75	
		For >50 To 100, Deduct		-15.84	
		For >100 To 250, Deduct		-29.79	
		For >250 To 500, Deduct		-55.81	
		For >500, Deduct		-81.83	
26 51 19 00-0129	EA	2' x 4', 3,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL4)	.....	556.35	58.55
		For Drywall Or Plaster Ceilings With Frame Kit, Add		49.81	
		For >50 To 100, Deduct		-16.11	
		For >100 To 250, Deduct		-30.02	
		For >250 To 500, Deduct		-55.64	
		For >500, Deduct		-81.25	
26 51 19 00-0130	EA	2' x 4', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL4)	.....	585.06	58.55
		For Drywall Or Plaster Ceilings With Frame Kit, Add		51.24	
		For >50 To 100, Deduct		-16.83	
		For >100 To 250, Deduct		-31.45	
		For >250 To 500, Deduct		-58.51	
		For >500, Deduct		-85.56	
26 51 19 00-0131	EA	2' x 4', 4,800 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL4)	.....	642.50	58.55
		For Drywall Or Plaster Ceilings With Frame Kit, Add		54.12	
		For >50 To 100, Deduct		-18.26	
		For >100 To 250, Deduct		-34.32	
		For >250 To 500, Deduct		-64.25	
		For >500, Deduct		-94.18	
26 51 19 00-0132	Architectural, Lay-In/Troffer LED Fixtures (26 51 19 00-0100)				
26 51 19 00-0133	Architectural, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0132)				
	Note: Includes 4,000K color temperature, 120/277 voltage and steel housing assembly. Excludes sensors.				
26 51 19 00-0134	EA	2,100 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4)	.....	431.11	58.55
		For Drywall Or Plaster Ceilings With Frame Kit, Add		43.55	
		For >50 To 100, Deduct		-12.98	
		For >100 To 250, Deduct		-23.75	
		For >250 To 500, Deduct		-43.11	
		For >500, Deduct		-62.47	
26 51 19 00-0135	EA	4,300 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4)	.....	504.84	58.55
		For Drywall Or Plaster Ceilings With Frame Kit, Add		47.23	
		For >50 To 100, Deduct		-14.82	
		For >100 To 250, Deduct		-27.44	
		For >250 To 500, Deduct		-50.48	
		For >500, Deduct		-73.53	
26 51 19 00-0136	EA	6,400 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4)	.....	571.20	58.55
		For Drywall Or Plaster Ceilings With Frame Kit, Add		50.55	
		For >50 To 100, Deduct		-16.48	
		For >100 To 250, Deduct		-30.76	
		For >250 To 500, Deduct		-57.12	
		For >500, Deduct		-83.48	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
26 51 19 00-0137		Architectural, Lay-In/Troffer LED Fixtures (CREE® CR Series) (26 51 19 00-0132)				
		Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and 20 gauge steel housing assembly. Excludes sensors.				
26 51 19 00-0138	EA	1' x 4', 2,200 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™)	437.61		58.55	
		For Expanded Size Junction Box For Through Wiring, Add	4.40			
		For Drywall Or Plaster Ceilings, Add	147.64			
		For Surface Mount, Add	228.05			
		For >50 To 100, Deduct	-13.14			
		For >100 To 250, Deduct	-24.08			
		For >250 To 500, Deduct	-43.76			
		For >500, Deduct	-63.44			
26 51 19 00-0139	EA	1' x 4', 3,100 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™)	470.60		58.55	
		For Expanded Size Junction Box For Through Wiring, Add	4.40			
		For Drywall Or Plaster Ceilings, Add	147.64			
		For Surface Mount, Add	228.05			
		For >50 To 100, Deduct	-13.96			
		For >100 To 250, Deduct	-25.73			
		For >250 To 500, Deduct	-47.06			
		For >500, Deduct	-68.39			
26 51 19 00-0140	EA	1' x 4', 4,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™)	470.60		58.55	
		For Expanded Size Junction Box For Through Wiring, Add	4.40			
		For Drywall Or Plaster Ceilings, Add	147.64			
		For Surface Mount, Add	228.05			
		For >50 To 100, Deduct	-13.96			
		For >100 To 250, Deduct	-25.73			
		For >250 To 500, Deduct	-47.06			
		For >500, Deduct	-68.39			
26 51 19 00-0141	EA	1' x 4', 5,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™)	519.28		58.55	
		For Expanded Size Junction Box For Through Wiring, Add	4.40			
		For Drywall Or Plaster Ceilings, Add	147.64			
		For Surface Mount, Add	228.05			
		For >50 To 100, Deduct	-15.18			
		For >100 To 250, Deduct	-28.16			
		For >250 To 500, Deduct	-51.93			
		For >500, Deduct	-75.69			
26 51 19 00-0142	EA	2' x 2', 2,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR22™)	406.38		50.26	
		Note: CCT 30K to 50K				
		For Expanded Size Junction Box For Through Wiring, Add	4.40			
		For Drywall Or Plaster Ceilings, Add	128.79			
		For Surface Mount, Add	214.54			
		For >50 To 100, Deduct	-12.04			
		For >100 To 250, Deduct	-22.20			
		For >250 To 500, Deduct	-40.64			
		For >500, Deduct	-59.07			
26 51 19 00-0143	EA	2' x 2', 3,200 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR22™)	384.21		50.26	
		Note: CCT 30K to 50K				
		For Expanded Size Junction Box For Through Wiring, Add	4.40			
		For Drywall Or Plaster Ceilings, Add	128.79			
		For Surface Mount, Add	214.54			
		For >50 To 100, Deduct	-11.49			
		For >100 To 250, Deduct	-21.10			
		For >250 To 500, Deduct	-38.42			
		For >500, Deduct	-55.75			
26 51 19 00-0144	EA	2' x 4', 2,200 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™)	455.91		58.55	
		Note: CCT 30K to 50K				
		For Expanded Size Junction Box For Through Wiring, Add	4.40			
		For Drywall Or Plaster Ceilings, Add	150.78			
		For Surface Mount, Add	248.47			
		For >50 To 100, Deduct	-13.60			
		For >100 To 250, Deduct	-24.99			
		For >250 To 500, Deduct	-45.59			
		For >500, Deduct	-66.19			
26 51 19 00-0145	EA	2' x 4', 3,100 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™)	470.60		58.55	
		Note: CCT 30K to 50K				
		For Expanded Size Junction Box For Through Wiring, Add	4.40			
		For Drywall Or Plaster Ceilings, Add	150.78			
		For Surface Mount, Add	248.47			
		For >50 To 100, Deduct	-13.96			
		For >100 To 250, Deduct	-25.73			
		For >250 To 500, Deduct	-47.06			
		For >500, Deduct	-68.39			
26 51 19 00-0146	EA	2' x 4', 4,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™)	470.60		58.55	
		Note: CCT 30K to 50K				
		For Expanded Size Junction Box For Through Wiring, Add	4.40			
		For Drywall Or Plaster Ceilings, Add	150.78			
		For Surface Mount, Add	248.47			
		For >50 To 100, Deduct	-13.96			
		For >100 To 250, Deduct	-25.73			
		For >250 To 500, Deduct	-47.06			
		For >500, Deduct	-68.39			



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0147	EA	2' x 4', 4,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24 LHE™)	594.67		58.55
Note: CCT 30K to 50K					
For Expanded Size Junction Box For Through Wiring, Add				4.40	
For Drywall Or Plaster Ceilings, Add				150.78	
For Surface Mount, Add				248.47	
For >50 To 100, Deduct				-17.07	
For >100 To 250, Deduct				-31.93	
For >250 To 500, Deduct				-59.47	
For >500, Deduct				-87.00	
26 51 19 00-0148	EA	2' x 4', 5,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™)	519.28		58.55
Note: CCT 30K to 50K					
For Expanded Size Junction Box For Through Wiring, Add				4.40	
For Drywall Or Plaster Ceilings, Add				150.78	
For Surface Mount, Add				248.47	
For >50 To 100, Deduct				-15.18	
For >100 To 250, Deduct				-28.16	
For >250 To 500, Deduct				-51.93	
For >500, Deduct				-75.69	
26 51 19 00-0149 Architectural, Lay-In/Troffer LED Fixtures (CREE® ZR Series) (26 51 19 00-0132)					
Note: Includes 3,500 or 4,000K color temperature, 120/277 voltage and 22 gauge steel housing assembly.					
Excludes sensors.					
26 51 19 00-0150	EA	1' x 4', 4,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® ZR14-40L-35K-10V)	289.37		59.06
For Drywall Or Plaster Ceilings, Add				147.64	
For >50 To 100, Deduct				-9.43	
For >100 To 250, Deduct				-16.67	
For >250 To 500, Deduct				-28.94	
For >500, Deduct				-41.21	
For Surface Mount, Add				174.65	
26 51 19 00-0151	EA	2' x 2', 3,200 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® ZR22-40L-35K-10V)	258.32		50.26
For Drywall Or Plaster Ceilings, Add				128.79	
For >50 To 100, Deduct				-8.34	
For >100 To 250, Deduct				-14.80	
For >250 To 500, Deduct				-25.83	
For >500, Deduct				-36.86	
For Surface Mount, Add				162.90	
26 51 19 00-0152	EA	2' x 2', 3,200 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® ZR22-32LHE-35K-10V)	812.64		50.26
For Drywall Or Plaster Ceilings, Add				128.79	
For >50 To 100, Deduct				-22.20	
For >100 To 250, Deduct				-42.52	
For >250 To 500, Deduct				-81.26	
For >500, Deduct				-120.01	
For Surface Mount, Add				162.90	
26 51 19 00-0153	EA	2' x 4', 4,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® ZR24-40L-35K-10V)	298.61		59.06
For Drywall Or Plaster Ceilings, Add				150.78	
For >50 To 100, Deduct				-9.66	
For >100 To 250, Deduct				-17.13	
For >250 To 500, Deduct				-29.86	
For >500, Deduct				-42.59	
For Surface Mount, Add				193.12	
26 51 19 00-0154	EA	2' x 4', 4,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® ZR24-32LHE-35K-10V)	1,009.99		59.06
For Drywall Or Plaster Ceilings, Add				150.78	
For >50 To 100, Deduct				-27.45	
For >100 To 250, Deduct				-52.70	
For >250 To 500, Deduct				-101.00	
For >500, Deduct				-149.30	
For Surface Mount, Add				193.12	
26 51 19 00-0155	EA	2' x 4', 5,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® ZR24-50L-40K-10V-FD)	318.93		59.06
For Drywall Or Plaster Ceilings, Add				150.78	
For >50 To 100, Deduct				-10.17	
For >100 To 250, Deduct				-18.15	
For >250 To 500, Deduct				-31.89	
For >500, Deduct				-45.64	
For Surface Mount, Add				193.12	
26 51 19 00-0156	EA	1' x 4', 4,000 Lumens, Smartcast Technology, Architectural, Lay-In/Troffer LED Fixture (Cree® ZR14-40L-35K-CMA)	363.27		59.06
For Drywall Or Plaster Ceilings, Add				147.64	
For >50 To 100, Deduct				-11.28	
For >100 To 250, Deduct				-20.36	
For >250 To 500, Deduct				-36.33	
For >500, Deduct				-52.29	
For Surface Mount, Add				174.65	
26 51 19 00-0157	EA	2' x 2', 4,000 Lumens, Smartcast Technology, Architectural, Lay-In/Troffer LED Fixture (Cree® ZR22-32L-35K-CMA)	332.23		50.26
For Drywall Or Plaster Ceilings, Add				128.79	
For >50 To 100, Deduct				-10.19	
For >100 To 250, Deduct				-18.50	
For >250 To 500, Deduct				-33.22	
For >500, Deduct				-47.95	
For Surface Mount, Add				162.90	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 51 19 00-0158	EA	2' x 4', 4,000 Lumens, Smartcast Technology, Architectural, Lay-In/Troffer LED Fixture (Cree® ZR24-40L-35K-CMA)	372.52		59.06
		For Drywall Or Plaster Ceilings, Add	150.78		
		For >50 To 100, Deduct	-11.51		
		For >100 To 250, Deduct	-20.83		
		For >250 To 500, Deduct	-37.25		
		For >500, Deduct	-53.68		
		For Surface Mount, Add	193.12		
26 51 19 00-0159		Architectural, Lay-In/Troffer LED Fixtures (Metalux®) (26 51 19 00-0132)			
		Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and code gauge steel housing assembly. Excludes sensors.			
26 51 19 00-0160	EA	2' x 2', 2,500 Lumens, Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC)	311.61		50.26
		For >50 To 100, Deduct	-9.68		
		For >100 To 250, Deduct	-17.47		
		For >250 To 500, Deduct	-31.16		
		For >500, Deduct	-44.86		
26 51 19 00-0161	EA	2' x 4', 4,700 Lumens, Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC)	413.31		58.55
		For >50 To 100, Deduct	-12.53		
		For >100 To 250, Deduct	-22.86		
		For >250 To 500, Deduct	-41.33		
		For >500, Deduct	-59.80		
26 51 19 00-0162		Architectural, Lay-In/Troffer LED Fixtures (Orion) (26 51 19 00-0132)			
		Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and code gauge steel housing assembly. Excludes sensors.			
26 51 19 00-0163	EA	2' x 2', 3,500 Lumens, Architectural, Lay-In/Troffer LED Fixture (Orion OLRL-035L-L-UNV-FDX-840-22-1P-CT-M-LF)	348.15		50.26
		For >50 To 100, Deduct	-10.59		
		For >100 To 250, Deduct	-19.29		
		For >250 To 500, Deduct	-34.82		
		For >500, Deduct	-50.34		
26 51 19 00-0164	EA	2' x 2', 4,100 Lumens, Architectural, Lay-In/Troffer LED Fixture (Orion OLRL-041L-L-UNV-FDX-840-22-1P-CT-M-LF)	360.66		50.26
		For >50 To 100, Deduct	-10.90		
		For >100 To 250, Deduct	-19.92		
		For >250 To 500, Deduct	-36.07		
		For >500, Deduct	-52.21		
26 51 19 00-0165	EA	2' x 4', 3,500 Lumens, Architectural, Lay-In/Troffer LED Fixture (Orion OLRL-035L-L-UNV-FDX-840-24-1P-CT-M-LF)	376.98		59.06
		For >50 To 100, Deduct	-11.62		
		For >100 To 250, Deduct	-21.05		
		For >250 To 500, Deduct	-37.70		
		For >500, Deduct	-54.35		
26 51 19 00-0166	EA	2' x 4', 4,100 Lumens, Architectural, Lay-In/Troffer LED Fixture (Orion OLRL-041L-L-UNV-FDX-840-24-1P-CT-M-LF)	389.49		59.06
		For >50 To 100, Deduct	-11.94		
		For >100 To 250, Deduct	-21.67		
		For >250 To 500, Deduct	-38.95		
		For >500, Deduct	-56.22		
26 51 19 00-0167		Architectural, Lay-In/Troffer LED Fixtures (Everlast) (26 51 19 00-0132)			
		Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and code gauge steel housing assembly. Excludes sensors.			
26 51 19 00-0168	EA	2' x 2', 4,200 Lumens, Architectural, Lay-In/Troffer LED Fixture (Everlast EL-LED-MQ)	463.38		50.26
		For >50 To 100, Deduct	-13.47		
		For >100 To 250, Deduct	-25.05		
		For >250 To 500, Deduct	-46.34		
		For >500, Deduct	-67.62		
26 51 19 00-0169	EA	2' x 4', 10,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Everlast EL-LED-MQ)	771.98		59.06
		For >50 To 100, Deduct	-21.50		
		For >100 To 250, Deduct	-40.80		
		For >250 To 500, Deduct	-77.20		
		For >500, Deduct	-113.60		
26 51 19 00-0170		Architectural, Lay-In/Troffer LED Fixtures (Finelite) (26 51 19 00-0132)			
		Note: Includes 3,000K color temperature, 120/277 voltage and 20 gauge steel housing assembly. Excludes sensors.			
26 51 19 00-0171	EA	2' x 2', 4,301 Lumens, Architectural, Lay-In/Troffer LED Fixture (Finelite HPR LED A 2x2)	423.62		50.26
		For >50 To 100, Deduct	-12.48		
		For >100 To 250, Deduct	-23.07		
		For >250 To 500, Deduct	-42.36		
		For >500, Deduct	-61.66		
26 51 19 00-0172	EA	2' x 4', 4,671 Lumens, Architectural, Lay-In/Troffer LED Fixture (Finelite HPR LED A 2x2)	573.81		59.06
		For >50 To 100, Deduct	-16.54		
		For >100 To 250, Deduct	-30.89		
		For >250 To 500, Deduct	-57.38		
		For >500, Deduct	-83.87		
26 51 19 00-0173		Shadow Box Style, Lay-In/Troffer LED Fixtures (26 51 19 00-0100)			



Electrical		26	26
Lighting		26 50	
Interior Lighting		26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0174			Shadow Box Style, Lay-In/Troffer LED Fixtures (Lithonia SBSL) (26 51 19 00-0173)		
26 51 19 00-0175	EA	2' x 2', 3,300 Lumens, Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL2)	671.38	50.26	
		For Drywall Or Plaster Ceilings, Add	33.93		
		For >50 To 100, Deduct	-18.67		
		For >100 To 250, Deduct	-35.45		
		For >250 To 500, Deduct	-67.14		
		For >500, Deduct	-98.82		
26 51 19 00-0176	EA	2' x 4', 4,600 Lumens, Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL4)	915.47	58.55	
		For Drywall Or Plaster Ceilings With Frame Kit, Add	67.76		
		For >50 To 100, Deduct	-25.09		
		For >100 To 250, Deduct	-47.97		
		For >250 To 500, Deduct	-91.55		
		For >500, Deduct	-135.12		
26 51 19 00-0177			Panel Type, Lay-In/Troffer LED Fixtures (26 51 19 00-0100)		
26 51 19 00-0178			Panel Type, Lay-In/Troffer LED Fixtures (CREE® FP Series) (26 51 19 00-0177)		
26 51 19 00-0179	EA	4,000 Lumens, 1' x 4', Panel Type, Lay-In/Troffer LED Fixture (Cree® FP14-40L-35K-10V)	314.12	59.06	
		For >50 To 100, Deduct	-10.05		
		For >100 To 250, Deduct	-17.91		
		For >250 To 500, Deduct	-31.41		
		For >500, Deduct	-44.92		
26 51 19 00-0180	EA	4,000 Lumens, 1' x 4', Panel Type, Lay-In/Troffer LED Fixture, 1,400 Lumens Emergency Backup (Cree® FP14-40L-35K-10V-EB14)	779.02	59.06	
		For >50 To 100, Deduct	-21.67		
		For >100 To 250, Deduct	-41.15		
		For >250 To 500, Deduct	-77.90		
		For >500, Deduct	-114.65		
26 51 19 00-0181	EA	3,400 Lumens, 2' x 2', Panel Type, Lay-In/Troffer LED Fixture (Cree® FP22-34L-35K-10V)	240.30	50.26	
		For >50 To 100, Deduct	-7.89		
		For >100 To 250, Deduct	-13.90		
		For >250 To 500, Deduct	-24.03		
		For >500, Deduct	-34.16		
26 51 19 00-0182	EA	5,000 Lumens, 2' x 2', Panel Type, Lay-In/Troffer LED Fixture (Cree® FP22-50L-35K-10V)	274.85	50.26	
		For >50 To 100, Deduct	-8.76		
		For >100 To 250, Deduct	-15.63		
		For >250 To 500, Deduct	-27.49		
		For >500, Deduct	-39.34		
26 51 19 00-0183	EA	3,400 Lumens, 2' x 2', Panel Type, Lay-In/Troffer LED Fixture, 1,400 Lumens Emergency Backup (Cree® FP22-34L-35K-10V-EB14)	714.34	59.06	
		For >50 To 100, Deduct	-20.06		
		For >100 To 250, Deduct	-37.92		
		For >250 To 500, Deduct	-71.43		
		For >500, Deduct	-104.95		
26 51 19 00-0184	EA	5,000 Lumens, 2' x 2', Panel Type, Lay-In/Troffer LED Fixture, 1,400 Lumens Emergency Backup (Cree® FP22-50L-35K-10V-EB14)	751.30	59.06	
		For >50 To 100, Deduct	-20.98		
		For >100 To 250, Deduct	-39.76		
		For >250 To 500, Deduct	-75.13		
		For >500, Deduct	-110.50		
26 51 19 00-0185	EA	4,000 Lumens, 2' x 4', Panel Type, Lay-In/Troffer LED Fixture (Cree® FP24-40L-35K-10V)	331.40	59.06	
		For >50 To 100, Deduct	-10.48		
		For >100 To 250, Deduct	-18.77		
		For >250 To 500, Deduct	-33.14		
		For >500, Deduct	-47.51		
26 51 19 00-0186	EA	5,000 Lumens, 2' x 4', Panel Type, Lay-In/Troffer LED Fixture (Cree® FP24-50L-35K-10V)	359.67	59.06	
		For >50 To 100, Deduct	-11.19		
		For >100 To 250, Deduct	-20.18		
		For >250 To 500, Deduct	-35.97		
		For >500, Deduct	-51.75		
26 51 19 00-0187	EA	4,000 Lumens, 2' x 4', Panel Type, Lay-In/Troffer LED Fixture, 1,400 Lumens Emergency Backup (Cree® FP24-40L-35K-10V-EB14)	797.49	59.06	
		For >50 To 100, Deduct	-22.14		
		For >100 To 250, Deduct	-42.07		
		For >250 To 500, Deduct	-79.75		
		For >500, Deduct	-117.42		
26 51 19 00-0188	EA	5,000 Lumens, 2' x 4', Panel Type, Lay-In/Troffer LED Fixture, 1,400 Lumens Emergency Backup (Cree® FP24-50L-35K-10V-EB14)	827.06	59.06	
		For >50 To 100, Deduct	-22.88		
		For >100 To 250, Deduct	-43.55		
		For >250 To 500, Deduct	-82.71		
		For >500, Deduct	-121.86		
26 51 19 00-0189			Panel Type, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0177)		
26 51 19 00-0190	EA	2' x 4', 4000/5000/6000 Lumens, 3500K CCT, LED Switchable Flat Panel Troffer (Lithonia Lighting CPANL 2X4 40/50/60LM 35K M2)	287.04	58.55	
		For >50 To 100, Deduct	-9.38		
		For >100 To 250, Deduct	-16.55		
		For >250 To 500, Deduct	-28.70		
		For >500, Deduct	-40.86		

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 51 19 00-0191	EA	2' x 4', 4000/5000/6000 Lumens, 4000K CCT, LED Switchable Flat Panel Troffer (Lithonia Lighting CPANL 2X4 40/50/60LM 40K M2).....	287.04		58.55
		For >50 To 100, Deduct	-9.38		
		For >100 To 250, Deduct	-16.55		
		For >250 To 500, Deduct	-28.70		
		For >500, Deduct	-40.86		
26 51 19 00-0192	EA	2' x 2', 2400/3300/4000/Lumens, 3500K CCT, LED Switchable Flat Panel Troffer (Lithonia Lighting CPANL 2X2 24/33/44LM 35K M4).....	232.67		58.55
		For >50 To 100, Deduct	-8.02		
		For >100 To 250, Deduct	-13.83		
		For >250 To 500, Deduct	-23.27		
		For >500, Deduct	-32.70		
26 51 19 00-0193	EA	2' x 2', 2400/3300/4000/Lumens, 4000K CCT, LED Switchable Flat Panel Troffer (Lithonia Lighting CPANL 2X2 24/33/44LM 40K M4).....	232.67		58.55
		For >50 To 100, Deduct	-8.02		
		For >100 To 250, Deduct	-13.83		
		For >250 To 500, Deduct	-23.27		
		For >500, Deduct	-32.70		
26 51 19 00-0194	EA	1' x 4', 2400/3300/4000/Lumens, 3500K CCT, LED Switchable Flat Panel Troffer (Lithonia Lighting CPANL 1X4 24/33/44LM 35K M4).....	256.50		58.55
		For >50 To 100, Deduct	-8.61		
		For >100 To 250, Deduct	-15.02		
		For >250 To 500, Deduct	-25.65		
		For >500, Deduct	-36.28		
26 51 19 00-0195	EA	1' x 4', 2400/3300/4000/Lumens, 4000K CCT, LED Switchable Flat Panel Troffer (Lithonia Lighting CPANL 1X4 24/33/44LM 40K M4).....	256.50		58.55
		For >50 To 100, Deduct	-8.61		
		For >100 To 250, Deduct	-15.02		
		For >250 To 500, Deduct	-25.65		
		For >500, Deduct	-36.28		
26 51 19 00-0196 Panel Type, Lay-In/Troffer LED Fixtures (PlanLED Galaxy) (26 51 19 00-0177)					
26 51 19 00-0197	EA	1' x 4', 3,100 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL140-34).....	459.72		58.55
		For >50 To 100, Deduct	-13.69		
		For >100 To 250, Deduct	-25.19		
		For >250 To 500, Deduct	-45.97		
		For >500, Deduct	-66.76		
26 51 19 00-0198	EA	2' x 2', 3,100 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL220-34).....	477.53		58.55
		For >50 To 100, Deduct	-14.14		
		For >100 To 250, Deduct	-26.08		
		For >250 To 500, Deduct	-47.75		
		For >500, Deduct	-69.43		
26 51 19 00-0199	EA	2' x 4', 4,000 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-40).....	595.51		58.55
		For >50 To 100, Deduct	-17.09		
		For >100 To 250, Deduct	-31.97		
		For >250 To 500, Deduct	-59.55		
		For >500, Deduct	-87.13		
26 51 19 00-0200	EA	2' x 4', 5,000 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-52).....	595.51		58.55
		For >50 To 100, Deduct	-17.09		
		For >100 To 250, Deduct	-31.97		
		For >250 To 500, Deduct	-59.55		
		For >500, Deduct	-87.13		
26 51 19 00-0201 Panel Type, Lay-In/Troffer LED Fixtures (Sylvania) (26 51 19 00-0177)					
26 51 19 00-0202	EA	1' x 4', 3,300 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/14G/WH).....	244.43		58.55
		For Surface Mounting Kit (Sylvania SMK1T1A/14A/WH), Add	58.45		
		For >50 To 100, Deduct	-8.31		
		For >100 To 250, Deduct	-14.42		
		For >250 To 500, Deduct	-24.44		
		For >500, Deduct	-34.47		
26 51 19 00-0203	EA	2' x 2', 3,500 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/22G/WH).....	252.05		58.55
		For >50 To 100, Deduct	-8.50		
		For >100 To 250, Deduct	-14.80		
		For >250 To 500, Deduct	-25.21		
		For >500, Deduct	-35.61		
26 51 19 00-0204	EA	2' x 4', 3,300 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/24G/WH).....	255.54		58.55
		For Surface Mounting Kit (Sylvania SMK1T1A/24A/WH)	73.06		
		For >50 To 100, Deduct	-8.59		
		For >100 To 250, Deduct	-14.98		
		For >250 To 500, Deduct	-25.55		
		For >500, Deduct	-36.13		
26 51 19 00-0205	EA	2' x 4', 3,300 Lumens, 32 Watt, 3500K CCT, LED Edge Lite Panel With Kit (Sylvania PANELF1A/032UNVD835/24G/WH_SMK1T1A/24A/WH).....	584.82		58.55
		For >50 To 100, Deduct	-16.82		
		For >100 To 250, Deduct	-31.44		
		For >250 To 500, Deduct	-58.48		
		For >500, Deduct	-85.52		
26 51 19 00-0206 Surface Mount LED Fixtures (26 51 19 00-0001)					
26 51 19 00-0207 Surface Mount, Volumetric LED Fixtures (Lithonia STL) (26 51 19 00-0206)					



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0208	EA	2'	Length, 2,200 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL2).....	377.58	37.69
			For >50 To 100, Deduct	-10.85	
			For >100 To 250, Deduct	-20.29	
			For >250 To 500, Deduct	-37.76	
			For >500, Deduct	-55.22	
26 51 19 00-0209	EA	4'	Length, 3,000 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL4).....	318.79	45.99
			For >50 To 100, Deduct	-9.70	
			For >100 To 250, Deduct	-17.67	
			For >250 To 500, Deduct	-31.88	
			For >500, Deduct	-46.09	
26 51 19 00-0210	EA	4'	Length, 4,000 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL4).....	382.39	45.99
			For >50 To 100, Deduct	-11.29	
			For >100 To 250, Deduct	-20.85	
			For >250 To 500, Deduct	-38.24	
			For >500, Deduct	-55.63	
26 51 19 00-0211 Surface Mount, Wraparound LED Fixtures (Lithonia LBL) (26 51 19 00-0206)					
26 51 19 00-0212	EA	2'	Length, 2,000 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL2)	291.80	37.69
			For >50 To 100, Deduct	-8.71	
			For >100 To 250, Deduct	-16.00	
			For >250 To 500, Deduct	-29.18	
			For >500, Deduct	-42.36	
26 51 19 00-0213	EA	4'	Length, 4,000 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL4)	383.20	45.99
			For >50 To 100, Deduct	-11.31	
			For >100 To 250, Deduct	-20.89	
			For >250 To 500, Deduct	-38.32	
			For >500, Deduct	-55.75	
26 51 19 00-0214 Surface Mount, Shadow Box Style LED Fixtures (26 51 19 00-0206)					
26 51 19 00-0215 Surface Mount, Shadow Box Style LED Fixtures (Lithonia SBSLX) (26 51 19 00-0214)					
26 51 19 00-0216	EA	2' x 2'	3,300 Lumens, Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX2)	860.60	50.26
			For >50 To 100, Deduct	-23.40	
			For >100 To 250, Deduct	-44.91	
			For >250 To 500, Deduct	-86.06	
			For >500, Deduct	-127.21	
26 51 19 00-0217	EA	2' x 4'	4,600 Lumens, Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX4)	1,104.69	58.55
			For >50 To 100, Deduct	-29.82	
			For >100 To 250, Deduct	-57.43	
			For >250 To 500, Deduct	-110.47	
			For >500, Deduct	-163.50	
26 51 19 00-0218 Surface Mount, Low Profile Fixtures (26 51 19 00-0206)					
26 51 19 00-0219	EA	6"	Diameter, 993 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 8538-90)	117.12	34.43
			For >50 To 100, Deduct	-4.65	
			For >100 To 250, Deduct	-7.58	
			For >250 To 500, Deduct	-11.71	
			For >500, Deduct	-15.85	
26 51 19 00-0220	EA	6"	Diameter, 1,215 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 8569).....	96.17	34.43
			For >50 To 100, Deduct	-4.13	
			For >100 To 250, Deduct	-6.53	
			For >250 To 500, Deduct	-9.62	
			For >500, Deduct	-12.70	
26 51 19 00-0221	EA	13"	Diameter, 1,400 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 4329).....	161.11	34.43
			For >50 To 100, Deduct	-5.75	
			For >100 To 250, Deduct	-9.78	
			For >250 To 500, Deduct	-16.11	
			For >500, Deduct	-22.45	
26 51 19 00-0222	EA	15"	Diameter, 2,100 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting 4330).....	194.63	34.43
			For >50 To 100, Deduct	-6.59	
			For >100 To 250, Deduct	-11.45	
			For >250 To 500, Deduct	-19.46	
			For >500, Deduct	-27.47	
26 51 19 00-0223 Surface Mount, LED Disc Light Fixtures (26 51 19 00-0206)					
26 51 19 00-0224	EA		Surface Frame Octagonal Junction Box, EM Driver, 1-10V Dimming, 1,500 Lumens (DMF DRDH-N-JO-150SEMS)	95.37	34.43
			For >50 To 100, Deduct	-4.11	
			For >100 To 250, Deduct	-6.49	
			For >250 To 500, Deduct	-9.54	
			For >500, Deduct	-12.58	
26 51 19 00-0225	EA	8"	Round, 1,500 Lumens, 17 Watt, 3500K, 120 Volt, 0-10V Dimming, Surface Mounted Disc Light Fixture (DMF DRD5S-8-R-15-9-35-O).....	173.70	34.43
			For >50 To 100, Deduct	-6.06	
			For >100 To 250, Deduct	-10.41	
			For >250 To 500, Deduct	-17.37	
			For >500, Deduct	-24.33	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 51 19 00-0226	EA	8" Round, 1,500 Lumens, 17 Watt, 3500K, 120 Volt, 0-10V Dimming, Surface Mounted Disc Light Fixture With Emergency Battery (DMF DRD5S-8-R-15-9-35-O-A-EM)	210.39		34.43
		For >50 To 100, Deduct	-6.98		
		For >100 To 250, Deduct	-12.24		
		For >250 To 500, Deduct	-21.04		
		For >500, Deduct	-29.84		
26 51 19 00-0227		Recessed LED Downlights (26 51 19 00-0001)			
26 51 19 00-0228		Recessed LED Downlights (26 51 19 00-0227)			
26 51 19 00-0229		Recessed LED Downlights (Lithonia) (26 51 19 00-0228)			
		Note: Includes housing and trim.			
26 51 19 00-0230	EA	8" Diameter, 1,200 Lumens, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED)	430.97		60.51
		For Dimming Driver And Sensor Switch nLight Dimming Relay, Add	90.16		
		For >50 To 100, Deduct	-13.04		
		For >100 To 250, Deduct	-23.82		
		For >250 To 500, Deduct	-43.10		
		For >500, Deduct	-62.38		
26 51 19 00-0231	EA	8" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED)	467.84		60.51
		For Dimming Driver And Sensor Switch nLight Dimming Relay, Add	90.16		
		For >50 To 100, Deduct	-13.97		
		For >100 To 250, Deduct	-25.66		
		For >250 To 500, Deduct	-46.78		
		For >500, Deduct	-67.91		
26 51 19 00-0232		Recessed LED Downlights (Portfolio®) (26 51 19 00-0228)			
		Note: Includes housing and trim.			
26 51 19 00-0233	EA	4" Diameter, 1,300 Lumens, Recessed LED Downlight With Open Trim (Portfolio® LD413)	274.18		60.51
		For >50 To 100, Deduct	-9.12		
		For >100 To 250, Deduct	-15.98		
		For >250 To 500, Deduct	-27.42		
		For >500, Deduct	-38.86		
26 51 19 00-0234		Recessed LED Downlights (Gotham® EVO®) (26 51 19 00-0228)			
		Note: Includes housing and trim.			
26 51 19 00-0235	EA	6" Diameter, 1,800 Lumens, Recessed LED Downlight With Open Trim (Gotham® EVO® ALED)	322.75		60.51
		For >50 To 100, Deduct	-10.34		
		For >100 To 250, Deduct	-18.41		
		For >250 To 500, Deduct	-32.28		
		For >500, Deduct	-46.14		
26 51 19 00-0236	EA	6" Diameter, 1,800 Lumens, Recessed LED Shower Downlight With Non-Conductive Regressed Lens (Gotham® EVO® ALED)	332.64		60.51
		For >50 To 100, Deduct	-10.59		
		For >100 To 250, Deduct	-18.90		
		For >250 To 500, Deduct	-33.26		
		For >500, Deduct	-47.63		
26 51 19 00-0237	EA	6" Diameter, 1,800 Lumens, Recessed LED Wallwash Downlight With Specular Reflector Trim (Gotham® EVO® DLWLED)	373.22		60.51
		For >50 To 100, Deduct	-11.60		
		For >100 To 250, Deduct	-20.93		
		For >250 To 500, Deduct	-37.32		
		For >500, Deduct	-53.71		
26 51 19 00-0238	EA	6" Diameter, 1,800 Lumens, Decorative Recessed LED Downlight With Glass Drop Luminous Ring (Gotham® EVO® ALED)	377.19		60.51
		For >50 To 100, Deduct	-11.70		
		For >100 To 250, Deduct	-21.13		
		For >250 To 500, Deduct	-37.72		
		For >500, Deduct	-54.31		
26 51 19 00-0239	EA	6" Diameter, 1,800 Lumens, Vandal Resistant, Recessed LED Downlight With Tempered Prismatic Lens (Gotham® EVO® VRALED)	411.82		60.51
		For >50 To 100, Deduct	-12.56		
		For >100 To 250, Deduct	-22.86		
		For >250 To 500, Deduct	-41.18		
		For >500, Deduct	-59.50		
26 51 19 00-0240		Recessed LED Downlights (Lightolier) (26 51 19 00-0228)			
		Note: Includes housing and trim.			
26 51 19 00-0241	EA	4" Diameter, 500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C4L05DL)	645.12		60.51
		For >50 To 100, Deduct	-18.40		
		For >100 To 250, Deduct	-34.53		
		For >250 To 500, Deduct	-64.51		
		For >500, Deduct	-94.50		
26 51 19 00-0242	EA	4" Diameter, 1,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C4L10DL)	756.28		60.51
		For >50 To 100, Deduct	-21.18		
		For >100 To 250, Deduct	-40.08		
		For >250 To 500, Deduct	-75.63		
		For >500, Deduct	-111.17		



Electrical			26
Lighting			26 50
Interior Lighting			26 51

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0243	EA		6" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL).....	811.73	60.51
			For >50 To 100, Deduct	-22.56	
			For >100 To 250, Deduct	-42.86	
			For >250 To 500, Deduct	-81.17	
			For >500, Deduct	-119.49	
26 51 19 00-0244	EA		6" Diameter, 2,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL).....	811.73	60.51
			For >50 To 100, Deduct	-22.56	
			For >100 To 250, Deduct	-42.86	
			For >250 To 500, Deduct	-81.17	
			For >500, Deduct	-119.49	
26 51 19 00-0245	EA		7" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL).....	839.58	60.51
			For >50 To 100, Deduct	-23.26	
			For >100 To 250, Deduct	-44.25	
			For >250 To 500, Deduct	-83.96	
			For >500, Deduct	-123.67	
26 51 19 00-0246	EA		7" Diameter, 2,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL).....	867.45	60.51
			For >50 To 100, Deduct	-23.96	
			For >100 To 250, Deduct	-45.64	
			For >250 To 500, Deduct	-86.75	
			For >500, Deduct	-127.85	
26 51 19 00-0247 Recessed LED Downlights (Cooper) (26 51 19 00-0228)					
26 51 19 00-0248	EA		600 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5606827)	173.80	60.51
			For >50 To 100, Deduct	-6.61	
			For >100 To 250, Deduct	-10.96	
			For >250 To 500, Deduct	-17.38	
			For >500, Deduct	-23.80	
26 51 19 00-0249	EA		600 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5606830)	173.80	60.51
			For >50 To 100, Deduct	-6.61	
			For >100 To 250, Deduct	-10.96	
			For >250 To 500, Deduct	-17.38	
			For >500, Deduct	-23.80	
26 51 19 00-0250	EA		600 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5606835)	173.80	60.51
			For >50 To 100, Deduct	-6.61	
			For >100 To 250, Deduct	-10.96	
			For >250 To 500, Deduct	-17.38	
			For >500, Deduct	-23.80	
26 51 19 00-0251	EA		600 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5606840)	173.80	60.51
			For >50 To 100, Deduct	-6.61	
			For >100 To 250, Deduct	-10.96	
			For >250 To 500, Deduct	-17.38	
			For >500, Deduct	-23.80	
26 51 19 00-0252	EA		900 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5609827)	176.89	60.51
			For >50 To 100, Deduct	-6.69	
			For >100 To 250, Deduct	-11.11	
			For >250 To 500, Deduct	-17.69	
			For >500, Deduct	-24.26	
26 51 19 00-0253	EA		900 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5609830)	176.89	60.51
			For >50 To 100, Deduct	-6.69	
			For >100 To 250, Deduct	-11.11	
			For >250 To 500, Deduct	-17.69	
			For >500, Deduct	-24.26	
26 51 19 00-0254	EA		900 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5609835)	176.89	60.51
			For >50 To 100, Deduct	-6.69	
			For >100 To 250, Deduct	-11.11	
			For >250 To 500, Deduct	-17.69	
			For >500, Deduct	-24.26	
26 51 19 00-0255	EA		900 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5609840)	176.89	60.51
			For >50 To 100, Deduct	-6.69	
			For >100 To 250, Deduct	-11.11	
			For >250 To 500, Deduct	-17.69	
			For >500, Deduct	-24.26	
26 51 19 00-0256	EA		1,200 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5612827)	218.81	60.51
			For >50 To 100, Deduct	-7.74	
			For >100 To 250, Deduct	-13.21	
			For >250 To 500, Deduct	-21.88	
			For >500, Deduct	-30.55	
26 51 19 00-0257	EA		1,200 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5612830)	216.68	60.51
			For >50 To 100, Deduct	-7.69	
			For >100 To 250, Deduct	-13.10	
			For >250 To 500, Deduct	-21.67	
			For >500, Deduct	-30.23	
26 51 19 00-0258	EA		1,200 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5612835)	216.68	60.51
			For >50 To 100, Deduct	-7.69	
			For >100 To 250, Deduct	-13.10	
			For >250 To 500, Deduct	-21.67	
			For >500, Deduct	-30.23	
26 51 19 00-0259	EA		1,200 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5612840)	216.68	60.51
			For >50 To 100, Deduct	-7.69	
			For >100 To 250, Deduct	-13.10	
			For >250 To 500, Deduct	-21.67	
			For >500, Deduct	-30.23	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 51 19 00-0260	EA	5" LED Trim, Polymer Dead-Front, Shallow White Baffle And Flange (Cooper Halo 591WB)	103.48		19.26
		For >50 To 100, Deduct	-3.31		
		For >100 To 250, Deduct	-5.90		
		For >250 To 500, Deduct	-10.35		
		For >500, Deduct	-14.80		
26 51 19 00-0261	EA	5" LED Trim, Specular Reflector And White Flange (Cooper Halo 592SC)	65.11		19.26
		For >50 To 100, Deduct	-2.35		
		For >100 To 250, Deduct	-3.98		
		For >250 To 500, Deduct	-6.51		
		For >500, Deduct	-9.04		
26 51 19 00-0262	EA	5" LED Trim, Haze Reflector And White Flange (Cooper Halo 592H)	81.62		19.26
		For >50 To 100, Deduct	-2.76		
		For >100 To 250, Deduct	-4.80		
		For >250 To 500, Deduct	-8.16		
		For >500, Deduct	-11.52		
26 51 19 00-0263	EA	5" LED Trim, White Reflector And Flange (Cooper Halo 592W)	68.43		19.26
		For >50 To 100, Deduct	-2.43		
		For >100 To 250, Deduct	-4.14		
		For >250 To 500, Deduct	-6.84		
		For >500, Deduct	-9.54		
26 51 19 00-0264	EA	5" LED Trim, White Micro-Step Baffle And Flange (Cooper Halo 593WB)	54.94		19.26
		For >50 To 100, Deduct	-2.10		
		For >100 To 250, Deduct	-3.47		
		For >250 To 500, Deduct	-5.49		
		For >500, Deduct	-7.52		
26 51 19 00-0265	EA	5" LED Trim, Black Micro-Step Baffle And White Flange (Cooper Halo 593BB)	67.84		19.26
		For >50 To 100, Deduct	-2.42		
		For >100 To 250, Deduct	-4.11		
		For >250 To 500, Deduct	-6.78		
		For >500, Deduct	-9.45		
26 51 19 00-0266	EA	5" LED Trim, Satin Nickel Micro-Step Baffle And Flange (Cooper Halo 593SNB)	75.69		19.26
		For >50 To 100, Deduct	-2.61		
		For >100 To 250, Deduct	-4.51		
		For >250 To 500, Deduct	-7.57		
		For >500, Deduct	-10.63		
26 51 19 00-0267	EA	5" LED Trim, Tuscan Bronze Micro-Step Baffle And Flange (Cooper Halo 593TBZB)	82.69		19.26
		For >50 To 100, Deduct	-2.79		
		For >100 To 250, Deduct	-4.86		
		For >250 To 500, Deduct	-8.27		
		For >500, Deduct	-11.68		
26 51 19 00-0268	EA	5" LED Directional Trim, White eyeball, Baffle And Flange (Cooper Halo 594WB)	96.37		19.26
		For >50 To 100, Deduct	-3.13		
		For >100 To 250, Deduct	-5.54		
		For >250 To 500, Deduct	-9.64		
		For >500, Deduct	-13.73		
26 51 19 00-0269	EA	5" LED Directional Trim, Satin Nickel eyeball, Baffle And Flange (Cooper Halo 594SNB)	96.81		19.26
		For >50 To 100, Deduct	-3.14		
		For >100 To 250, Deduct	-5.56		
		For >250 To 500, Deduct	-9.68		
		For >500, Deduct	-13.80		
26 51 19 00-0270	EA	5" LED Directional Trim, Tuscan Bronze eyeball, Baffle And Flange (Cooper Halo 594TBZB)	94.84		19.26
		For >50 To 100, Deduct	-3.09		
		For >100 To 250, Deduct	-5.46		
		For >250 To 500, Deduct	-9.48		
		For >500, Deduct	-13.50		
26 51 19 00-0271	EA	5" LED Trim, Wall Wash - Specular reflector, repositionable Specular kick reflector, White Flange (Cooper Halo 595WW)	117.27		19.26
		For >50 To 100, Deduct	-3.65		
		For >100 To 250, Deduct	-6.59		
		For >250 To 500, Deduct	-11.73		
		For >500, Deduct	-16.87		
26 51 19 00-0272	EA	5" LED Trim, White Shallow Baffle And Flange (Cooper Halo 596WB)	55.42		19.26
		For >50 To 100, Deduct	-2.11		
		For >100 To 250, Deduct	-3.49		
		For >250 To 500, Deduct	-5.54		
		For >500, Deduct	-7.59		
26 51 19 00-0273	EA	6" LED Trim, Polymer Dead-Front, White Shallow Baffle And Flange (Cooper Halo 691WB)	100.20		19.26
		For >50 To 100, Deduct	-3.23		
		For >100 To 250, Deduct	-5.73		
		For >250 To 500, Deduct	-10.02		
		For >500, Deduct	-14.31		
26 51 19 00-0274	EA	6" LED Trim, Specular Reflector And White Flange (Cooper Halo 692SC)	85.10		19.26
		For >50 To 100, Deduct	-2.85		
		For >100 To 250, Deduct	-4.98		
		For >250 To 500, Deduct	-8.51		
		For >500, Deduct	-12.04		
26 51 19 00-0275	EA	6" LED Trim, Haze Reflector And White Flange (Cooper Halo 692H)	79.80		19.26
		For >50 To 100, Deduct	-2.72		
		For >100 To 250, Deduct	-4.71		
		For >250 To 500, Deduct	-7.98		
		For >500, Deduct	-11.25		
26 51 19 00-0276	EA	6" LED Trim, White Reflector And Flange (Cooper Halo 692W)	71.07		19.26
		For >50 To 100, Deduct	-2.50		
		For >100 To 250, Deduct	-4.28		
		For >250 To 500, Deduct	-7.11		
		For >500, Deduct	-9.94		



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0277	EA	6" LED Trim, White Micro-Step Baffle And Flange (Cooper Halo 693WB)	71.70	19.26
			For >50 To 100, Deduct	-2.51	
			For >100 To 250, Deduct	-4.31	
			For >250 To 500, Deduct	-7.17	
			For >500, Deduct	-10.03	
26 51	19 00-0278	EA	6" LED Trim, Black Micro-Step Baffle And White Flange (Cooper Halo 693BB).....	77.30	19.26
			For >50 To 100, Deduct	-2.65	
			For >100 To 250, Deduct	-4.59	
			For >250 To 500, Deduct	-7.73	
			For >500, Deduct	-10.87	
26 51	19 00-0279	EA	6" LED Trim, Satin Nickel Micro-Step Baffle And Flange (Cooper Halo 693SNB).....	70.72	19.26
			For >50 To 100, Deduct	-2.49	
			For >100 To 250, Deduct	-4.26	
			For >250 To 500, Deduct	-7.07	
			For >500, Deduct	-9.89	
26 51	19 00-0280	EA	6" LED Trim, Tuscan Bronze Micro-Step Baffle And Flange (Cooper Halo 693TBZB).....	88.60	19.26
			For >50 To 100, Deduct	-2.94	
			For >100 To 250, Deduct	-5.15	
			For >250 To 500, Deduct	-8.86	
			For >500, Deduct	-12.57	
26 51	19 00-0281	EA	6" LED Directional Trim, White eyeball, Baffle And Flange (Cooper Halo 694WB)	96.13	19.26
			For >50 To 100, Deduct	-3.13	
			For >100 To 250, Deduct	-5.53	
			For >250 To 500, Deduct	-9.61	
			For >500, Deduct	-13.70	
26 51	19 00-0282	EA	6" LED Directional Trim, Satin Nickel eyeball, Baffle And Flange (Cooper Halo 694SNB).....	121.20	19.26
			For >50 To 100, Deduct	-3.75	
			For >100 To 250, Deduct	-6.78	
			For >250 To 500, Deduct	-12.12	
			For >500, Deduct	-17.46	
26 51	19 00-0283	EA	6" LED Directional Trim, Tuscan Bronze eyeball, Baffle And Flange (Cooper Halo 694TBZB).....	118.06	19.26
			For >50 To 100, Deduct	-3.67	
			For >100 To 250, Deduct	-6.63	
			For >250 To 500, Deduct	-11.81	
			For >500, Deduct	-16.99	
26 51	19 00-0284	EA	6" LED Trim, Wall Wash - Specular reflector, repositionable Specular kick reflector, White Flange (Cooper Halo 695WW)	119.44	19.26
			For >50 To 100, Deduct	-3.71	
			For >100 To 250, Deduct	-6.69	
			For >250 To 500, Deduct	-11.94	
			For >500, Deduct	-17.19	
26 51	19 00-0285	EA	6" LED Trim, White Shallow Baffle And Flange (Cooper Halo 696WB)	72.45	19.26
			For >50 To 100, Deduct	-2.53	
			For >100 To 250, Deduct	-4.34	
			For >250 To 500, Deduct	-7.25	
			For >500, Deduct	-10.15	
26 51	19 00-0286	EA	6" LED, Insulated Ceiling, Air-Tite, New Construction Housing (Cooper Halo H750ICAT)	68.63	41.26
			For >50 To 100, Deduct	-3.26	
			For >100 To 250, Deduct	-4.98	
			For >250 To 500, Deduct	-6.86	
			For >500, Deduct	-8.75	
26 51	19 00-0287	EA	6" LED, Insulated Ceiling, Air-Tite, Remodel Housing (Cooper Halo H750RICAT)	74.77	41.26
			For >50 To 100, Deduct	-3.42	
			For >100 To 250, Deduct	-5.29	
			For >250 To 500, Deduct	-7.48	
			For >500, Deduct	-9.67	
26 51	19 00-0288	EA	6" LED, Non-IC, Air-Tite, New Construction Housing (Cooper Halo H750T)	72.31	41.26
			For >50 To 100, Deduct	-3.36	
			For >100 To 250, Deduct	-5.16	
			For >250 To 500, Deduct	-7.23	
			For >500, Deduct	-9.30	
26 51	19 00-0289	EA	6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing (Cooper Halo H750TCP)	96.50	41.26
			For >50 To 100, Deduct	-3.96	
			For >100 To 250, Deduct	-6.37	
			For >250 To 500, Deduct	-9.65	
			For >500, Deduct	-12.93	
26 51	19 00-0290	EA	6" LED, Shallow, Insulated Ceiling, Air-Tite, New Constr. (Cooper Halo H2750ICAT)	93.66	41.26
			For >50 To 100, Deduct	-3.89	
			For >100 To 250, Deduct	-6.23	
			For >250 To 500, Deduct	-9.37	
			For >500, Deduct	-12.50	
26 51	19 00-0291	EA	6" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo H7ICAT)	75.60	41.26
			For >50 To 100, Deduct	-3.44	
			For >100 To 250, Deduct	-5.33	
			For >250 To 500, Deduct	-7.56	
			For >500, Deduct	-9.79	
26 51	19 00-0292	EA	6" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H7RICAT)	79.74	41.26
			For >50 To 100, Deduct	-3.54	
			For >100 To 250, Deduct	-5.53	
			For >250 To 500, Deduct	-7.97	
			For >500, Deduct	-10.41	
26 51	19 00-0293	EA	6" Insulated Ceiling, New Construction Housing (Cooper Halo H7ICT)	74.74	41.26
			For >50 To 100, Deduct	-3.42	
			For >100 To 250, Deduct	-5.28	
			For >250 To 500, Deduct	-7.47	
			For >500, Deduct	-9.66	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 51 19 00-0294	EA	6" Insulated Ceiling, Remodel Housing (Cooper Halo H7RICT)	79.27		41.26
		For>50 To 100, Deduct	-3.53		
		For>100 To 250, Deduct	-5.51		
		For>250 To 500, Deduct	-7.93		
		For>500, Deduct	-10.34		
26 51 19 00-0295	EA	6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket (Cooper Halo H7ICATNB).....	75.49		41.26
		For>50 To 100, Deduct	-3.43		
		For>100 To 250, Deduct	-5.32		
		For>250 To 500, Deduct	-7.55		
		For>500, Deduct	-9.78		
26 51 19 00-0296	EA	6" Insulated Ceiling, New Construction Housing, No Socket Bracket (Cooper Halo H7ICTNB)	75.07		41.26
		For>50 To 100, Deduct	-3.42		
		For>100 To 250, Deduct	-5.30		
		For>250 To 500, Deduct	-7.51		
		For>500, Deduct	-9.71		
26 51 19 00-0297	EA	6" Non-IC, New Construction Housing (Cooper Halo H7T).....	78.34		41.26
		For>50 To 100, Deduct	-3.51		
		For>100 To 250, Deduct	-5.46		
		For>250 To 500, Deduct	-7.83		
		For>500, Deduct	-10.20		
26 51 19 00-0298	EA	6" Non-IC, Remodel Housing (Cooper Halo H7RT)	80.11		41.26
		For>50 To 100, Deduct	-3.55		
		For>100 To 250, Deduct	-5.55		
		For>250 To 500, Deduct	-8.01		
		For>500, Deduct	-10.47		
26 51 19 00-0299	EA	6" Non-IC, New Construction Housing, No Socket Bracket (Cooper Halo H7TNB)	80.67		41.26
		For>50 To 100, Deduct	-3.56		
		For>100 To 250, Deduct	-5.58		
		For>250 To 500, Deduct	-8.07		
		For>500, Deduct	-10.55		
26 51 19 00-0300	EA	6" Non-IC, Chicago Plenum, New Construction/Remodel Housing (Cooper Halo H7TCP)	108.07		41.26
		For>50 To 100, Deduct	-4.25		
		For>100 To 250, Deduct	-6.95		
		For>250 To 500, Deduct	-10.81		
		For>500, Deduct	-14.66		
26 51 19 00-0301	EA	6" Insulated Ceiling, Universal New Construction Housing (Cooper Halo H7UICT).....	101.19		41.26
		For>50 To 100, Deduct	-4.08		
		For>100 To 250, Deduct	-6.61		
		For>250 To 500, Deduct	-10.12		
		For>500, Deduct	-13.63		
26 51 19 00-0302	EA	6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing (Cooper Halo H7UICAT).....	101.99		41.26
		For>50 To 100, Deduct	-4.10		
		For>100 To 250, Deduct	-6.65		
		For>250 To 500, Deduct	-10.20		
		For>500, Deduct	-13.75		
26 51 19 00-0303	EA	6" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo EI700AT)	106.59		41.26
		For>50 To 100, Deduct	-4.21		
		For>100 To 250, Deduct	-6.88		
		For>250 To 500, Deduct	-10.66		
		For>500, Deduct	-14.44		
26 51 19 00-0304	EA	6" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI700RAT)	106.59		41.26
		For>50 To 100, Deduct	-4.21		
		For>100 To 250, Deduct	-6.88		
		For>250 To 500, Deduct	-10.66		
		For>500, Deduct	-14.44		
26 51 19 00-0305	EA	6" Insulated Ceiling, New Construction Housing (Cooper Halo EI700)	106.59		41.26
		For>50 To 100, Deduct	-4.21		
		For>100 To 250, Deduct	-6.88		
		For>250 To 500, Deduct	-10.66		
		For>500, Deduct	-14.44		
26 51 19 00-0306	EA	6" Insulated Ceiling, Remodel Housing (Cooper Halo EI700R)	106.59		41.26
		For>50 To 100, Deduct	-4.21		
		For>100 To 250, Deduct	-6.88		
		For>250 To 500, Deduct	-10.66		
		For>500, Deduct	-14.44		
26 51 19 00-0307	EA	6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket (Cooper Halo EI700ATNB)	106.59		41.26
		For>50 To 100, Deduct	-4.21		
		For>100 To 250, Deduct	-6.88		
		For>250 To 500, Deduct	-10.66		
		For>500, Deduct	-14.44		
26 51 19 00-0308	EA	6" Insulated Ceiling, New Construction Housing, No Socket Bracket (Cooper Halo EI700NB)	94.56		41.26
		For>50 To 100, Deduct	-3.91		
		For>100 To 250, Deduct	-6.28		
		For>250 To 500, Deduct	-9.46		
		For>500, Deduct	-12.64		
26 51 19 00-0309	EA	6" Insulated Ceiling, Universal New Construction Housing (Cooper Halo EI700U).....	94.56		41.26
		For>50 To 100, Deduct	-3.91		
		For>100 To 250, Deduct	-6.28		
		For>250 To 500, Deduct	-9.46		
		For>500, Deduct	-12.64		
26 51 19 00-0310	EA	6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing (Cooper Halo EI700UAT).....	94.56		41.26
		For>50 To 100, Deduct	-3.91		
		For>100 To 250, Deduct	-6.28		
		For>250 To 500, Deduct	-9.46		
		For>500, Deduct	-12.64		



Electrical		26	26
Lighting		26 50	
Interior Lighting		26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0311	EA	6" Non-IC, New Construction Housing (Cooper Halo ET700)	.....	94.56	41.26
		For >50 To 100, Deduct		-3.91	
		For >100 To 250, Deduct		-6.28	
		For >250 To 500, Deduct		-9.46	
		For >500, Deduct		-12.64	
26 51 19 00-0312	EA	6" Non-IC, Remodel Housing (Cooper Halo ET700R)	.....	94.56	41.26
		For >50 To 100, Deduct		-3.91	
		For >100 To 250, Deduct		-6.28	
		For >250 To 500, Deduct		-9.46	
		For >500, Deduct		-12.64	
26 51 19 00-0313	EA	6" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo H27ICAT)	.....	95.44	41.26
		For >50 To 100, Deduct		-3.93	
		For >100 To 250, Deduct		-6.32	
		For >250 To 500, Deduct		-9.54	
		For >500, Deduct		-12.77	
26 51 19 00-0314	EA	6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H27RICAT)	.....	108.95	41.26
		For >50 To 100, Deduct		-4.27	
		For >100 To 250, Deduct		-6.99	
		For >250 To 500, Deduct		-10.90	
		For >500, Deduct		-14.80	
26 51 19 00-0315	EA	6" Shallow, Insulated Ceiling, New Construction Housing (Cooper Halo H27ICT)	.....	95.44	41.26
		For >50 To 100, Deduct		-3.93	
		For >100 To 250, Deduct		-6.32	
		For >250 To 500, Deduct		-9.54	
		For >500, Deduct		-12.77	
26 51 19 00-0316	EA	6" Shallow, Insulated Ceiling, Remodel Housing (Cooper Halo H27RICT)	.....	105.13	41.26
		For >50 To 100, Deduct		-4.18	
		For >100 To 250, Deduct		-6.80	
		For >250 To 500, Deduct		-10.51	
		For >500, Deduct		-14.22	
26 51 19 00-0317	EA	6" Shallow, Non-IC, New Construction Housing (Cooper Halo H27T)	.....	89.96	41.26
		For >50 To 100, Deduct		-3.80	
		For >100 To 250, Deduct		-6.05	
		For >250 To 500, Deduct		-9.00	
		For >500, Deduct		-11.95	
26 51 19 00-0318	EA	6" Shallow, Non-IC, Remodel Housing (Cooper Halo H27RT)	.....	91.30	41.26
		For >50 To 100, Deduct		-3.83	
		For >100 To 250, Deduct		-6.11	
		For >250 To 500, Deduct		-9.13	
		For >500, Deduct		-12.15	
26 51 19 00-0319	EA	6" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo EI2700AT)	.....	100.74	41.26
		For >50 To 100, Deduct		-4.07	
		For >100 To 250, Deduct		-6.58	
		For >250 To 500, Deduct		-10.07	
		For >500, Deduct		-13.56	
26 51 19 00-0320	EA	6" Shallow, Insulated Ceiling, New Construction Housing (Cooper Halo EI2700)	.....	100.74	41.26
		For >50 To 100, Deduct		-4.07	
		For >100 To 250, Deduct		-6.58	
		For >250 To 500, Deduct		-10.07	
		For >500, Deduct		-13.56	
26 51 19 00-0321	EA	6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI2700R)	.....	100.74	41.26
		For >50 To 100, Deduct		-4.07	
		For >100 To 250, Deduct		-6.58	
		For >250 To 500, Deduct		-10.07	
		For >500, Deduct		-13.56	
26 51 19 00-0322	EA	6" Shallow, Non-IC, New Construction Housing (Cooper Halo ET2700)	.....	100.74	41.26
		For >50 To 100, Deduct		-4.07	
		For >100 To 250, Deduct		-6.58	
		For >250 To 500, Deduct		-10.07	
		For >500, Deduct		-13.56	
26 51 19 00-0323	EA	6" Shallow, Non-IC, Remodel Housing (Cooper Halo ET2700R)	.....	100.74	41.26
		For >50 To 100, Deduct		-4.07	
		For >100 To 250, Deduct		-6.58	
		For >250 To 500, Deduct		-10.07	
		For >500, Deduct		-13.56	
26 51 19 00-0324	EA	6" Retrofit Enclosure, Non-IC, BX Whip (Cooper Halo ML7BXRFK)	.....	82.42	19.26
		For >50 To 100, Deduct		-2.78	
		For >100 To 250, Deduct		-4.84	
		For >250 To 500, Deduct		-8.24	
		For >500, Deduct		-11.64	
26 51 19 00-0325	EA	6" Retrofit Enclosure, Non-IC, E26 Screw base Interface (Cooper Halo ML7E26RFK)	.....	85.16	19.26
		For >50 To 100, Deduct		-2.85	
		For >100 To 250, Deduct		-4.98	
		For >250 To 500, Deduct		-8.52	
		For >500, Deduct		-12.05	
26 51 19 00-0326	EA	5" LED, Insulated Ceiling, Air-Tite, New Construction Housing (Cooper Halo H550ICAT)	.....	83.99	41.26
		For >50 To 100, Deduct		-3.65	
		For >100 To 250, Deduct		-5.75	
		For >250 To 500, Deduct		-8.40	
		For >500, Deduct		-11.05	
26 51 19 00-0327	EA	5" LED, Insulated Ceiling, Air-Tite, Remodel Housing (Cooper Halo H550RICAT)	.....	84.32	41.26
		For >50 To 100, Deduct		-3.66	
		For >100 To 250, Deduct		-5.76	
		For >250 To 500, Deduct		-8.43	
		For >500, Deduct		-11.10	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0328	EA	5" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo H5ICAT)	78.62	41.26	
		For >50 To 100, Deduct	-3.51		
		For >100 To 250, Deduct	-5.48		
		For >250 To 500, Deduct	-7.86		
		For >500, Deduct	-10.25		
26 51 19 00-0329	EA	5" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H5RICAT)	81.42	41.26	
		For >50 To 100, Deduct	-3.58		
		For >100 To 250, Deduct	-5.62		
		For >250 To 500, Deduct	-8.14		
		For >500, Deduct	-10.67		
26 51 19 00-0330	EA	5" Non-IC, New Construction Housing (Cooper Halo H5T)	80.51	41.26	
		For >50 To 100, Deduct	-3.56		
		For >100 To 250, Deduct	-5.57		
		For >250 To 500, Deduct	-8.05		
		For >500, Deduct	-10.53		
26 51 19 00-0331	EA	5" Non-IC, Remodel Housing (Cooper Halo H5RT)	81.36	41.26	
		For >50 To 100, Deduct	-3.58		
		For >100 To 250, Deduct	-5.62		
		For >250 To 500, Deduct	-8.14		
		For >500, Deduct	-10.66		
26 51 19 00-0332	EA	5" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo EI500AT)	93.37	41.26	
		For >50 To 100, Deduct	-3.88		
		For >100 To 250, Deduct	-6.22		
		For >250 To 500, Deduct	-9.34		
		For >500, Deduct	-12.46		
26 51 19 00-0333	EA	5" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI500RAT)	94.01	41.26	
		For >50 To 100, Deduct	-3.90		
		For >100 To 250, Deduct	-6.25		
		For >250 To 500, Deduct	-9.40		
		For >500, Deduct	-12.55		
26 51 19 00-0334	EA	5" Non-IC, New Construction Housing (Cooper Halo ET500)	97.24	41.26	
		For >50 To 100, Deduct	-3.98		
		For >100 To 250, Deduct	-6.41		
		For >250 To 500, Deduct	-9.72		
		For >500, Deduct	-13.04		
26 51 19 00-0335	EA	5" Non-IC, Remodel Housing (Cooper Halo ET500R)	99.50	41.26	
		For >50 To 100, Deduct	-4.03		
		For >100 To 250, Deduct	-6.52		
		For >250 To 500, Deduct	-9.95		
		For >500, Deduct	-13.38		
26 51 19 00-0336	EA	5" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo H25ICAT)	109.44	41.26	
		For >50 To 100, Deduct	-4.28		
		For >100 To 250, Deduct	-7.02		
		For >250 To 500, Deduct	-10.94		
		For >500, Deduct	-14.87		
26 51 19 00-0337		Recessed LED Downlights (Maxlite DLR)			
26 51 19 00-0338	EA	4" Diameter, 1,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR410)	191.78	60.51	
		For >50 To 100, Deduct	-7.06		
		For >100 To 250, Deduct	-11.86		
		For >250 To 500, Deduct	-19.18		
		For >500, Deduct	-26.50		
26 51 19 00-0339	EA	4" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR415)	194.36	60.51	
		For >50 To 100, Deduct	-7.13		
		For >100 To 250, Deduct	-11.99		
		For >250 To 500, Deduct	-19.44		
		For >500, Deduct	-26.88		
26 51 19 00-0340	EA	4" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR420)	202.14	60.51	
		For >50 To 100, Deduct	-7.32		
		For >100 To 250, Deduct	-12.38		
		For >250 To 500, Deduct	-20.21		
		For >500, Deduct	-28.05		
26 51 19 00-0341	EA	6" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR615)	186.58	60.51	
		For >50 To 100, Deduct	-6.93		
		For >100 To 250, Deduct	-11.60		
		For >250 To 500, Deduct	-18.66		
		For >500, Deduct	-25.72		
26 51 19 00-0342	EA	6" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR620)	186.58	60.51	
		For >50 To 100, Deduct	-6.93		
		For >100 To 250, Deduct	-11.60		
		For >250 To 500, Deduct	-18.66		
		For >500, Deduct	-25.72		
26 51 19 00-0343	EA	6" Diameter, 3,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR630)	186.58	60.51	
		For >50 To 100, Deduct	-6.93		
		For >100 To 250, Deduct	-11.60		
		For >250 To 500, Deduct	-18.66		
		For >500, Deduct	-25.72		
26 51 19 00-0344	EA	8" Diameter, 1,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR810)	202.14	60.51	
		For >50 To 100, Deduct	-7.32		
		For >100 To 250, Deduct	-12.38		
		For >250 To 500, Deduct	-20.21		
		For >500, Deduct	-28.05		



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0345	EA		8" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR815)	204.73	60.51
			For >50 To 100, Deduct	-7.39	
			For >100 To 250, Deduct	-12.51	
			For >250 To 500, Deduct	-20.47	
			For >500, Deduct	-28.44	
26 51 19 00-0346	EA		8" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR820)	209.90	60.51
			For >50 To 100, Deduct	-7.52	
			For >100 To 250, Deduct	-12.76	
			For >250 To 500, Deduct	-20.99	
			For >500, Deduct	-29.22	
26 51 19 00-0347	EA		8" Diameter, 3,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR830)	225.43	60.51
			For >50 To 100, Deduct	-7.91	
			For >100 To 250, Deduct	-13.54	
			For >250 To 500, Deduct	-22.54	
			For >500, Deduct	-31.55	
26 51 19 00-0348	EA		8" Diameter, 5,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR850)	246.16	60.51
			For >50 To 100, Deduct	-8.42	
			For >100 To 250, Deduct	-14.58	
			For >250 To 500, Deduct	-24.62	
			For >500, Deduct	-34.65	
26 51 19 00-0349			Recessed LED Downlight Retrofits And Trim (CREE®) (26 51 19 00-0227)		
26 51 19 00-0350			Recessed LED Downlight Retrofits (CREE®) (26 51 19 00-0349)		
			Note: Dimmable to 5%. For installation in standard recessed IC or non-IC housings. Includes removal of existing lamp from fixture. Excludes housing and disposal of hazardous lamps.		
26 51 19 00-0351	EA		4" Diameter, 575 Lumens, Recessed LED Downlight Retrofit (Cree® CR4-575L)	102.75	
			For >50 To 100, Deduct	-3.43	
			For >100 To 250, Deduct	-6.00	
			For >250 To 500, Deduct	-10.28	
			For >500, Deduct	-14.55	
26 51 19 00-0352	EA		6" Diameter, 625 Lumens, Recessed LED Downlight Retrofit (Cree® CR6-625L)	91.66	
			For >50 To 100, Deduct	-3.15	
			For >100 To 250, Deduct	-5.44	
			For >250 To 500, Deduct	-9.17	
			For >500, Deduct	-12.89	
26 51 19 00-0353	EA		6" Diameter, 800 Lumens, Recessed LED Downlight Retrofit (Cree® CR6-800L)	113.84	
			For >50 To 100, Deduct	-3.71	
			For >100 To 250, Deduct	-6.55	
			For >250 To 500, Deduct	-11.38	
			For >500, Deduct	-16.22	
26 51 19 00-0354	EA		6" Diameter, 650 Lumens, Recessed LED Downlight Retrofit (Cree® LR6C-277)	126.76	
			For >50 To 100, Deduct	-4.03	
			For >100 To 250, Deduct	-7.20	
			For >250 To 500, Deduct	-12.68	
			For >500, Deduct	-18.15	
26 51 19 00-0355	EA		6" Diameter, 1,000 Lumens, Deep Recessed LED Downlight Retrofit (Cree® LR6-10L-XXX-120V-A-DR)	137.85	
			For >50 To 100, Deduct	-4.31	
			For >100 To 250, Deduct	-7.75	
			For >250 To 500, Deduct	-13.79	
			For >500, Deduct	-19.82	
26 51 19 00-0356			Recessed LED Downlight Retrofits Trim (CREE®) (26 51 19 00-0349)		
			Note: For installation in standard recessed IC or non-IC housings. Excludes housing and lamp.		
26 51 19 00-0357	EA		6" Diameter, Diffuse Anodized Finish Reflector For LED Downlight Retrofits (Cree® CT6AX)	39.10	9.63
			For >50 To 100, Deduct	-1.49	
			For >100 To 250, Deduct	-2.47	
			For >250 To 500, Deduct	-3.91	
			For >500, Deduct	-5.35	
26 51 19 00-0358	EA		6" Diameter, Diffuse Anodized Finish Reflector With Painted Flange For LED Downlight Retrofits (Cree® LT6AP)	46.50	9.63
			For >50 To 100, Deduct	-1.68	
			For >100 To 250, Deduct	-2.84	
			For >250 To 500, Deduct	-4.65	
			For >500, Deduct	-6.46	
26 51 19 00-0359	EA		6" Diameter, Flat Black Finish Trim And Reflector For LED Downlight Retrofits (Cree® CT6BB)	40.95	9.63
			For >50 To 100, Deduct	-1.54	
			For >100 To 250, Deduct	-2.56	
			For >250 To 500, Deduct	-4.10	
			For >500, Deduct	-5.63	
26 51 19 00-0360			Recessed LED Downlight Fixture Housings (CREE®) (26 51 19 00-0349)		
			Note: Excludes lamp and trim.		
26 51 19 00-0361	EA		6" Diameter, IC Rated, Architectural Recessed LED Downlight Fixture Housing (Cree® H6)	106.24	41.26
			For >50 To 100, Deduct	-4.20	
			For >100 To 250, Deduct	-6.86	
			For >250 To 500, Deduct	-10.62	
			For >500, Deduct	-14.39	
26 51 19 00-0362	EA		6" Diameter, IC Rated, Retrofit Recessed LED Downlight Fixture Housing (Cree® RR6)	80.36	41.26
			For >50 To 100, Deduct	-3.56	
			For >100 To 250, Deduct	-5.57	
			For >250 To 500, Deduct	-8.04	
			For >500, Deduct	-10.51	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0363 Can Retrofit Or Surface Mount, LED Downlights (26 51 19 00-0227)		
26 51 19 00-0364 EA 6" Diameter, 15 Watt, Can Retrofit Or Surface Mount, LED Downlight (Lighting Science® GLP6)	111.98	37.69
For >50 To 100, Deduct	-4.21	
For >100 To 250, Deduct	-7.01	
For >250 To 500, Deduct	-11.20	
For >500, Deduct	-15.38	
26 51 19 00-0365 EA 4" Diameter, 7 Watt, Can Retrofit, LED Downlight (Green Creative0 1-811-D)	90.44	37.69
For >50 To 100, Deduct	-3.67	
For >100 To 250, Deduct	-5.94	
For >250 To 500, Deduct	-9.04	
For >500, Deduct	-12.15	
26 51 19 00-0366 EA 6" Diameter, 9.5 Watt, Can Retrofit, LED Downlight (Green Creative0 1-808-D)	90.44	37.69
For >50 To 100, Deduct	-3.67	
For >100 To 250, Deduct	-5.94	
For >250 To 500, Deduct	-9.04	
For >500, Deduct	-12.15	
26 51 19 00-0367 EA 6" Diameter, 8.9 Watt, Can Retrofit, LED Downlight (Lithonia 6BP)	149.01	37.69
For Recessed IC/Non-IC Rated Housing For New Construction, Add	54.69	
For >50 To 100, Deduct	-5.14	
For >100 To 250, Deduct	-8.86	
For >250 To 500, Deduct	-14.90	
For >500, Deduct	-20.94	
26 51 19 00-0368 EA 4" Diameter, 8 Watt, 600 Lumens, Retrofit LED Downlight (Sylvania LED/RT4/550/840)	76.01	37.69
For >50 To 100, Deduct	-3.31	
For >100 To 250, Deduct	-5.21	
For >250 To 500, Deduct	-7.60	
For >500, Deduct	-9.99	
26 51 19 00-0369 EA 5" Diameter, 10 Watt, 700 Lumens, Retrofit LED Downlight (Sylvania LED/RT5/6/625/840)	83.82	37.69
For >50 To 100, Deduct	-3.51	
For >100 To 250, Deduct	-5.60	
For >250 To 500, Deduct	-8.38	
For >500, Deduct	-11.16	
26 51 19 00-0370 EA 6" Diameter, 800 Lumens, 10 Watt, Retrofit LED Wallwash Downlight (Indy Lighting LRT6-08LM)	973.15	37.69
For >50 To 100, Deduct	-25.74	
For >100 To 250, Deduct	-50.07	
For >250 To 500, Deduct	-97.32	
For >500, Deduct	-144.56	
26 51 19 00-0371 Wall Mount LED Cylinder Downlight (26 51 19 00-0001)		
26 51 19 00-0372 EA 9" Diameter, 2,200 Lumens, Wall Mount LED Cylinder Downlight With Semi-Specular Trim (Gotham® EVO® CLED9)	420.89	58.55
For >50 To 100, Deduct	-12.72	
For >100 To 250, Deduct	-23.24	
For >250 To 500, Deduct	-42.09	
For >500, Deduct	-60.93	
26 51 19 00-0373 Wall Sconce And Wall Wash LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0374 LED Wall Sconce Fixtures (Hudson Valley Lighting) (26 51 19 00-0373)		
26 51 19 00-0375 EA 2-1/2" Diameter x 15-1/2" High, Polished Nickel, LED Wall Sconce (Hudson Valley Lighting SHAW 1200-PN)	561.32	55.01
For >50 To 100, Deduct	-16.10	
For >100 To 250, Deduct	-30.13	
For >250 To 500, Deduct	-56.13	
For >500, Deduct	-82.14	
26 51 19 00-0376 LED Wall Sconce Fixtures (Kichler) (26 51 19 00-0373)		
26 51 19 00-0377 EA 6" High x 11.75" Wide x 3.5" Deep, 900 Lumens, 15 Watt, White Acrylic Diffuser, Brushed Nickel, LED Wall Sconce (Kichler 10790NILED)	314.36	55.01
For >50 To 100, Deduct	-9.92	
For >100 To 250, Deduct	-17.78	
For >250 To 500, Deduct	-31.44	
For >500, Deduct	-45.09	
26 51 19 00-0378 LED Wall Sconce Fixtures (Metalux) (26 51 19 00-0373)		
26 51 19 00-0379 EA 9.875" High x 7.125" Wide x 3.5" Deep, 9 Watt, White Acrylic Diffuser, Brushed Nickel, LED Wall Sconce (Metalux AFX VNTS071009L30ENBN)	156.49	55.01
For >50 To 100, Deduct	-5.98	
For >100 To 250, Deduct	-9.89	
For >250 To 500, Deduct	-15.65	
For >500, Deduct	-21.41	
26 51 19 00-0380 Concealed Continuous LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0381 Concealed Continuous LED Fixtures (Fraqtir™ S301) (26 51 19 00-0380)		



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0382	LF		Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Driver (Fraqtir™ S301).....	759.23	6.28
			For >50 To 100, Deduct	-19.30	
			For >100 To 250, Deduct	-38.28	
			For >250 To 500, Deduct	-75.92	
			For >500, Deduct	-113.57	
26 51 19 00-0383	LF		Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Dimming Driver (Fraqtir™ S301).....	865.55	6.28
			For >50 To 100, Deduct	-21.95	
			For >100 To 250, Deduct	-43.59	
			For >250 To 500, Deduct	-86.56	
			For >500, Deduct	-129.52	
26 51 19 00-0384 Low Bay LED Fixtures (26 51 19 00-0001)					
26 51 19 00-0385 LED Linear Low Bay Fixtures (PlanLED) (26 51 19 00-0384)					
26 51 19 00-0386	EA		4' Length, 23 Watt, LED Linear Low Bay Fixture (PlanLED A1W4).....	394.77	75.39
			For >50 To 100, Deduct	-13.01	
			For >100 To 250, Deduct	-22.88	
			For >250 To 500, Deduct	-39.48	
			For >500, Deduct	-56.07	
26 51 19 00-0387	EA		4' Length, 42 Watt, LED Linear Low Bay Fixture (PlanLED A2W4A).....	533.82	75.39
			For >50 To 100, Deduct	-16.49	
			For >100 To 250, Deduct	-29.83	
			For >250 To 500, Deduct	-53.38	
			For >500, Deduct	-76.93	
26 51 19 00-0388	EA		8' Length, 84 Watt, LED Linear Low Bay Fixture (PlanLED A2W5A).....	885.95	94.24
			For >50 To 100, Deduct	-26.08	
			For >100 To 250, Deduct	-48.22	
			For >250 To 500, Deduct	-88.60	
			For >500, Deduct	-128.97	
26 51 19 00-0389 LED Low Bay Fixtures (CREE®) (26 51 19 00-0384)					
26 51 19 00-0390 LED Low Bay Fixtures (CREE® LS) (26 51 19 00-0389)					
Note: Includes 120/277 voltage and 22 gauge steel housing assembly. Excludes sensors.					
26 51 19 00-0391	EA		2,500 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-25L-35K-10V).....	309.41	75.39
			For >50 To 100, Deduct	-10.88	
			For >100 To 250, Deduct	-18.61	
			For >250 To 500, Deduct	-30.94	
			For >500, Deduct	-43.27	
26 51 19 00-0392	EA		2,500 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-25L-50K-10V).....	328.26	75.39
			For >50 To 100, Deduct	-11.35	
			For >100 To 250, Deduct	-19.55	
			For >250 To 500, Deduct	-32.83	
			For >500, Deduct	-46.10	
26 51 19 00-0393	EA		4,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-40L-35K-10V).....	317.26	75.39
			For >50 To 100, Deduct	-11.07	
			For >100 To 250, Deduct	-19.00	
			For >250 To 500, Deduct	-31.73	
			For >500, Deduct	-44.45	
26 51 19 00-0394	EA		4,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-40L-50K-10V).....	336.11	75.39
			For >50 To 100, Deduct	-11.54	
			For >100 To 250, Deduct	-19.95	
			For >250 To 500, Deduct	-33.61	
			For >500, Deduct	-47.28	
26 51 19 00-0395	EA		5,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-50L-35K-10V).....	350.24	75.39
			For >50 To 100, Deduct	-11.90	
			For >100 To 250, Deduct	-20.65	
			For >250 To 500, Deduct	-35.02	
			For >500, Deduct	-49.39	
26 51 19 00-0396	EA		5,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-50L-50K-10V).....	369.09	75.39
			For >50 To 100, Deduct	-12.37	
			For >100 To 250, Deduct	-21.60	
			For >250 To 500, Deduct	-36.91	
			For >500, Deduct	-52.22	
26 51 19 00-0397	EA		8,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-80L-35K-10V).....	486.89	94.24
			For >50 To 100, Deduct	-16.10	
			For >100 To 250, Deduct	-28.27	
			For >250 To 500, Deduct	-48.69	
			For >500, Deduct	-69.11	
26 51 19 00-0398	EA		8,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-80L-50K-10V).....	521.45	94.24
			For >50 To 100, Deduct	-16.96	
			For >100 To 250, Deduct	-30.00	
			For >250 To 500, Deduct	-52.15	
			For >500, Deduct	-74.29	
26 51 19 00-0399	EA		10,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-100L-35K-10V).....	593.69	94.24
			For >50 To 100, Deduct	-18.77	
			For >100 To 250, Deduct	-33.61	
			For >250 To 500, Deduct	-59.37	
			For >500, Deduct	-85.13	
26 51 19 00-0400	EA		10,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-100L-50K-10V).....	612.54	94.24
			For >50 To 100, Deduct	-19.24	
			For >100 To 250, Deduct	-34.55	
			For >250 To 500, Deduct	-61.25	
			For >500, Deduct	-87.95	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0401			LED Low Bay Fixtures (CREE® LN) (26 51 19 00-0389) Note: Includes 120/277 voltage and aluminum housing assembly. Excludes sensors.		
26 51 19 00-0402	EA		3,400 Lumens, 4' Length, LED Low Bay Fixture (Cree® LN4-34L-35K-10V)	658.08	75.39
			For >50 To 100, Deduct	-19.59	
			For >100 To 250, Deduct	-36.05	
			For >250 To 500, Deduct	-65.81	
			For >500, Deduct	-95.57	
26 51 19 00-0403	EA		3,400 Lumens, 4' Length, LED Low Bay Fixture, Smartcast Technology (Cree® LN4-34L-35K-CMA)	736.61	75.39
			For >50 To 100, Deduct	-21.56	
			For >100 To 250, Deduct	-39.97	
			For >250 To 500, Deduct	-73.66	
			For >500, Deduct	-107.35	
26 51 19 00-0404			LED Linear Low Bay Fixtures (CREE® CS) (26 51 19 00-0389) Note: Includes 3,500 or 4,000K color temperature, 120/277 voltage and lightweight polymer housing assembly. Excludes sensors.		
26 51 19 00-0405	EA		4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Cree® CS14™)	643.26	75.39
			For >50 To 100, Deduct	-19.22	
			For >100 To 250, Deduct	-35.30	
			For >250 To 500, Deduct	-64.33	
			For >500, Deduct	-93.35	
26 51 19 00-0406	EA		7,500 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™)	798.48	94.24
			For >50 To 100, Deduct	-23.89	
			For >100 To 250, Deduct	-43.85	
			For >250 To 500, Deduct	-79.85	
			For >500, Deduct	-115.85	
26 51 19 00-0407	EA		8,000 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™)	1,003.58	94.24
			For >50 To 100, Deduct	-29.02	
			For >100 To 250, Deduct	-54.11	
			For >250 To 500, Deduct	-100.36	
			For >500, Deduct	-146.61	
26 51 19 00-0408			Accessories For LED Low Bay Fixtures (CREE®) (26 51 19 00-0389)		
26 51 19 00-0409	EA		Continuous Row Through Wiring Kit For 4' Fixtures (Cree® LS4TWK)	62.15	20.66
			For >50 To 100, Deduct	-2.41	
			For >100 To 250, Deduct	-3.97	
			For >250 To 500, Deduct	-6.22	
			For >500, Deduct	-8.46	
26 51 19 00-0410	EA		Continuous Row Through Wiring Kit For 8' Fixtures (Cree® LS8TWK)	67.70	20.66
			For >50 To 100, Deduct	-2.55	
			For >100 To 250, Deduct	-4.25	
			For >250 To 500, Deduct	-6.77	
			For >500, Deduct	-9.29	
26 51 19 00-0411	EA		Top Housing Aligner For Continuous Row Installations (Cree® LS-RJ)	52.90	20.66
			For >50 To 100, Deduct	-2.18	
			For >100 To 250, Deduct	-3.51	
			For >250 To 500, Deduct	-5.29	
			For >500, Deduct	-7.07	
26 51 19 00-0412	EA		Reflector Joint Aligner For Continuous Row Installations (Cree® LS-RFLJ)	43.67	20.66
			For >50 To 100, Deduct	-1.95	
			For >100 To 250, Deduct	-3.04	
			For >250 To 500, Deduct	-4.37	
			For >500, Deduct	-5.69	
26 51 19 00-0413	EA		Solid Reflector, Pair (Cree® LS4-SR)	126.81	20.66
			For >50 To 100, Deduct	-4.03	
			For >100 To 250, Deduct	-7.20	
			For >250 To 500, Deduct	-12.68	
			For >500, Deduct	-18.16	
26 51 19 00-0414	EA		Solid Reflector, Pair (Cree® LS8-SR)	173.02	20.66
			For >50 To 100, Deduct	-5.19	
			For >100 To 250, Deduct	-9.51	
			For >250 To 500, Deduct	-17.30	
			For >500, Deduct	-25.09	
26 51 19 00-0415	EA		5" Cable Canopy With #18/2 SJT Cord, 48" (Cree® AC5-18/2-48-Q14B-JB)	67.70	20.66
			For >50 To 100, Deduct	-2.55	
			For >100 To 250, Deduct	-4.25	
			For >250 To 500, Deduct	-6.77	
			For >500, Deduct	-9.29	
26 51 19 00-0416	EA		5" Cable Canopy With #18/2 SJT Cord, 72" (Cree® AC5-18/2-72-Q14B-JB)	93.56	20.66
			For >50 To 100, Deduct	-3.20	
			For >100 To 250, Deduct	-5.54	
			For >250 To 500, Deduct	-9.36	
			For >500, Deduct	-13.17	
26 51 19 00-0417	EA		5" Cable Canopy With #18/5 SJT Cord, 48" (Cree® AC5-18/5-48-Q14B-JB)	75.08	20.66
			For >50 To 100, Deduct	-2.74	
			For >100 To 250, Deduct	-4.61	
			For >250 To 500, Deduct	-7.51	
			For >500, Deduct	-10.40	



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0418	EA	5" Cable Canopy With #18/5 SJT Cord, 72" (Cree® AC5-18/5-72-Q14B-JB).....	99.11	20.66	
		For >50 To 100, Deduct	-3.34		
		For >100 To 250, Deduct	-5.82		
		For >250 To 500, Deduct	-9.91		
		For >500, Deduct	-14.01		
26 51 19 00-0419	EA	5" Cable Canopy With #18/5 SJT Cord, 96" (Cree® AC5-18/5-96-Q14B-JB).....	104.65	20.66	
		For >50 To 100, Deduct	-3.48		
		For >100 To 250, Deduct	-6.09		
		For >250 To 500, Deduct	-10.47		
		For >500, Deduct	-14.84		
26 51 19 00-0420	EA	5" Cable Canopy With #12/3 SJT Cord, 48" (Cree® AC5-12/3-48-Q14B-JB).....	89.86	20.66	
		For >50 To 100, Deduct	-3.11		
		For >100 To 250, Deduct	-5.35		
		For >250 To 500, Deduct	-8.99		
		For >500, Deduct	-12.62		
26 51 19 00-0421	EA	5" Cable Canopy With #12/3 SJT Cord, 72" (Cree® AC5-12/3-72-Q14B-JB).....	132.36	20.66	
		For >50 To 100, Deduct	-4.17		
		For >100 To 250, Deduct	-7.48		
		For >250 To 500, Deduct	-13.24		
		For >500, Deduct	-18.99		
26 51 19 00-0422	EA	Set Of End Caps, One With Power Feed, One Without (Cree® LN-EC)	71.39	20.66	
		For >50 To 100, Deduct	-2.65		
		For >100 To 250, Deduct	-4.43		
		For >250 To 500, Deduct	-7.14		
		For >500, Deduct	-9.85		
26 51 19 00-0423	EA	Canopy Kit With Aircraft Cable And Opening For Power Feed (Cree® LN-CK-5-AC)	86.17	20.66	
		For >50 To 100, Deduct	-3.02		
		For >100 To 250, Deduct	-5.17		
		For >250 To 500, Deduct	-8.62		
		For >500, Deduct	-12.06		
26 51 19 00-0424	EA	Canopy Kit With Aircraft Cable No Opening For Power Feed (Cree® LN-CK-0-AC).....	67.70	20.66	
		For >50 To 100, Deduct	-2.55		
		For >100 To 250, Deduct	-4.25		
		For >250 To 500, Deduct	-6.77		
		For >500, Deduct	-9.29		
26 51 19 00-0425	EA	Emergency 125W Inverter, Ceiling Installed (Cree® ELI-125W)	1,230.23	50.26	
		For >50 To 100, Deduct	-32.64		
		For >100 To 250, Deduct	-63.40		
		For >250 To 500, Deduct	-123.02		
		For >500, Deduct	-182.65		
26 51 19 00-0426	EA	120 Volt, Emergency Relay For Use With Generator Power (Cree® EL-SR-120).....	444.93	50.26	
		For >50 To 100, Deduct	-13.01		
		For >100 To 250, Deduct	-24.13		
		For >250 To 500, Deduct	-44.49		
		For >500, Deduct	-64.85		
26 51 19 00-0427		LED Linear Low Bay Fixtures (Lithonia MSL) (26 51 19 00-0384) Note: Includes 3,500K, 4,000K or 5,000K color temperature, 120/277 voltage and steel housing assembly. Excludes sensors.			
26 51 19 00-0428	EA	4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Lithonia MSL).....	1,039.02	75.39	
		For >50 To 100, Deduct	-29.12		
		For >100 To 250, Deduct	-55.09		
		For >250 To 500, Deduct	-103.90		
		For >500, Deduct	-152.71		
26 51 19 00-0429		High Bay LED Fixtures (26 51 19 00-0001)			
26 51 19 00-0430		LED High Bay Fixtures (Columbia Lighting LWS) (26 51 19 00-0429)			
26 51 19 00-0431	EA	16" x 24", 7,909 Lumens, 58.8 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-LW-W-EU).....	571.36	138.22	
		For >50 To 100, Deduct	-21.20		
		For >100 To 250, Deduct	-35.48		
		For >250 To 500, Deduct	-57.14		
		For >500, Deduct	-78.79		
26 51 19 00-0432	EA	16" x 24", 8,526 Lumens, 58.8 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-LW-W-EU).....	571.36	138.22	
		For >50 To 100, Deduct	-21.20		
		For >100 To 250, Deduct	-35.48		
		For >250 To 500, Deduct	-57.14		
		For >500, Deduct	-78.79		
26 51 19 00-0433	EA	16" x 24", 11,812 Lumens, 82.9 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-ML-W-EU)	642.14	138.22	
		For >50 To 100, Deduct	-22.96		
		For >100 To 250, Deduct	-39.02		
		For >250 To 500, Deduct	-64.21		
		For >500, Deduct	-89.41		
26 51 19 00-0434	EA	16" x 24", 12,734 Lumens, 82.9 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-ML-W-EU)	642.14	138.22	
		For >50 To 100, Deduct	-22.96		
		For >100 To 250, Deduct	-39.02		
		For >250 To 500, Deduct	-64.21		
		For >500, Deduct	-89.41		
26 51 19 00-0435	EA	16" x 24", 14,813 Lumens, 112.5 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-HL-W-EU).....	760.11	138.22	
		For >50 To 100, Deduct	-25.91		
		For >100 To 250, Deduct	-44.92		
		For >250 To 500, Deduct	-76.01		
		For >500, Deduct	-107.11		

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0436	EA	16" x 24", 15,968 Lumens, 112.5 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-HL-W-EU)	760.11	138.22	
		For>50 To 100, Deduct	-25.91		
		For>100 To 250, Deduct	-44.92		
		For>250 To 500, Deduct	-76.01		
		For>500, Deduct	-107.11		
26 51 19 00-0437	EA	16" x 24", 18,714 Lumens, 137.1 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-VL-W-EU)	807.29	138.22	
		For>50 To 100, Deduct	-27.09		
		For>100 To 250, Deduct	-47.28		
		For>250 To 500, Deduct	-80.73		
		For>500, Deduct	-114.18		
26 51 19 00-0438	EA	16" x 24", 19,511 Lumens, 137.1 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-VL-W-EU)	807.29	138.22	
		For>50 To 100, Deduct	-27.09		
		For>100 To 250, Deduct	-47.28		
		For>250 To 500, Deduct	-80.73		
		For>500, Deduct	-114.18		
26 51 19 00-0439	EA	16" x 24", 22,994 Lumens, 174 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-XL-W-EU)	842.68	138.22	
		For>50 To 100, Deduct	-27.98		
		For>100 To 250, Deduct	-49.05		
		For>250 To 500, Deduct	-84.27		
		For>500, Deduct	-119.49		
26 51 19 00-0440	EA	16" x 24", 24,787 Lumens, 174 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-XL-W-EU)	842.68	138.22	
		For>50 To 100, Deduct	-27.98		
		For>100 To 250, Deduct	-49.05		
		For>250 To 500, Deduct	-84.27		
		For>500, Deduct	-119.49		
26 51 19 00-0441		LED High Bay Fixtures (Cree) (26 51 19 00-0429)			
26 51 19 00-0442		LED High Bay Fixtures (CREE®) (26 51 19 00-0441)			
26 51 19 00-0443	EA	18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UL-10V)	808.87	138.22	
		For>50 To 100, Deduct	-27.13		
		For>100 To 250, Deduct	-47.35		
		For>250 To 500, Deduct	-80.89		
		For>500, Deduct	-114.42		
26 51 19 00-0444	EA	18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UL-ML)	960.10	138.22	
		For>50 To 100, Deduct	-30.91		
		For>100 To 250, Deduct	-54.92		
		For>250 To 500, Deduct	-96.01		
		For>500, Deduct	-137.10		
26 51 19 00-0445	EA	18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UH-10V)	886.21	138.22	
		For>50 To 100, Deduct	-29.07		
		For>100 To 250, Deduct	-51.22		
		For>250 To 500, Deduct	-88.62		
		For>500, Deduct	-126.02		
26 51 19 00-0446	EA	18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UH-ML)	1,006.31	138.22	
		For>50 To 100, Deduct	-32.07		
		For>100 To 250, Deduct	-57.23		
		For>250 To 500, Deduct	-100.63		
		For>500, Deduct	-144.04		
26 51 19 00-0447	EA	24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UL-10V)	835.57	138.22	
		For>50 To 100, Deduct	-27.80		
		For>100 To 250, Deduct	-48.69		
		For>250 To 500, Deduct	-83.56		
		For>500, Deduct	-118.42		
26 51 19 00-0448	EA	24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UL-ML)	987.82	138.22	
		For>50 To 100, Deduct	-31.61		
		For>100 To 250, Deduct	-56.30		
		For>250 To 500, Deduct	-98.78		
		For>500, Deduct	-141.26		
26 51 19 00-0449	EA	24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UH-10V)	913.91	138.22	
		For>50 To 100, Deduct	-29.76		
		For>100 To 250, Deduct	-52.61		
		For>250 To 500, Deduct	-91.39		
		For>500, Deduct	-130.18		
26 51 19 00-0450	EA	24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UH-ML)	1,034.01	138.22	
		For>50 To 100, Deduct	-32.76		
		For>100 To 250, Deduct	-58.61		
		For>250 To 500, Deduct	-103.40		
		For>500, Deduct	-148.19		
26 51 19 00-0451		Accessories For LED High Bay Fixtures (CREE®) (26 51 19 00-0441)			
26 51 19 00-0452	EA	15 Amperes, 120 Volt, Straight Blade Plug For LED High Bay Fixtures (Cree® AP-515P)	62.15	20.66	
		For>50 To 100, Deduct	-2.41		
		For>100 To 250, Deduct	-3.97		
		For>250 To 500, Deduct	-6.22		
		For>500, Deduct	-8.46		
26 51 19 00-0453	EA	15 Amperes, 120 Volt, Twist Lock Plug For LED High Bay Fixtures (Cree® AP-L515P)	62.15	20.66	
		For>50 To 100, Deduct	-2.41		
		For>100 To 250, Deduct	-3.97		
		For>250 To 500, Deduct	-6.22		
		For>500, Deduct	-8.46		



Electrical		26	26
Lighting		26 50	
Interior Lighting		26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0454	EA		16" Matte Spun Aluminum Reflector For LED High Bay Fixture (Cree® CXBA16N)	80.62	20.66
			For >50 To 100, Deduct	-2.88	
			For >100 To 250, Deduct	-4.89	
			For >250 To 500, Deduct	-8.06	
			For >500, Deduct	-11.23	
26 51 19 00-0455	EA		16" Clear Acrylic Reflector For LED High Bay Fixture (Cree® CXBP16)	117.58	20.66
			For >50 To 100, Deduct	-3.80	
			For >100 To 250, Deduct	-6.74	
			For >250 To 500, Deduct	-11.76	
			For >500, Deduct	-16.78	
26 51 19 00-0456	EA		16" White Acrylic Reflector For LED High Bay Fixture (Cree® CXBW16)	136.06	20.66
			For >50 To 100, Deduct	-4.26	
			For >100 To 250, Deduct	-7.66	
			For >250 To 500, Deduct	-13.61	
			For >500, Deduct	-19.55	
26 51 19 00-0457	EA		16" Clear Prismatic Conical Lens For Prismatic And Acrylic Reflectors For LED High Bay Fixtures (Cree® CL16)	80.62	20.66
			For >50 To 100, Deduct	-2.88	
			For >100 To 250, Deduct	-4.89	
			For >250 To 500, Deduct	-8.06	
			For >500, Deduct	-11.23	
26 51 19 00-0458	EA		16" Clear Prismatic Drop Lens For Prismatic And Acrylic Reflectors For LED High Bay Fixtures (Cree® DL16)	82.47	20.66
			For >50 To 100, Deduct	-2.92	
			For >100 To 250, Deduct	-4.98	
			For >250 To 500, Deduct	-8.25	
			For >500, Deduct	-11.51	
26 51 19 00-0459	EA		16" Wire Guard For Aluminum Reflector For LED High Bay Fixtures (Cree® WG-A)	62.15	20.66
			For >50 To 100, Deduct	-2.41	
			For >100 To 250, Deduct	-3.97	
			For >250 To 500, Deduct	-6.22	
			For >500, Deduct	-8.46	
26 51 19 00-0460	EA		16" Wire Guard For Prismatic And Acrylic Reflector For LED High Bay Fixtures (Cree® WG-AP)	65.84	20.66
			For >50 To 100, Deduct	-2.51	
			For >100 To 250, Deduct	-4.15	
			For >250 To 500, Deduct	-6.58	
			For >500, Deduct	-9.02	
26 51 19 00-0461	EA		5' Galvanized Safety Cable For LED High Bay Fixtures (Cree® SC-5)	45.52	20.66
			For >50 To 100, Deduct	-2.00	
			For >100 To 250, Deduct	-3.14	
			For >250 To 500, Deduct	-4.55	
			For >500, Deduct	-5.97	
26 51 19 00-0462	EA		10' Galvanized Safety Cable For LED High Bay Fixtures (Cree® SC-10)	47.37	20.66
			For >50 To 100, Deduct	-2.05	
			For >100 To 250, Deduct	-3.23	
			For >250 To 500, Deduct	-4.74	
			For >500, Deduct	-6.24	
26 51 19 00-0463			LED High Bay Fixtures (DLE) (26 51 19 00-0429)		
26 51 19 00-0464	EA		12,000 Lumens, 120 Watt, LED High Bay Fixture (DLE-12-ST/HV)	1,530.11	138.22
			For >50 To 100, Deduct	-45.16	
			For >100 To 250, Deduct	-83.42	
			For >250 To 500, Deduct	-153.01	
			For >500, Deduct	-222.61	
26 51 19 00-0465	EA		18,000 Lumens, 180 Watt, LED High Bay Fixture (DLE-18-ST/HV)	1,875.48	138.22
			For >50 To 100, Deduct	-53.80	
			For >100 To 250, Deduct	-100.69	
			For >250 To 500, Deduct	-187.55	
			For >500, Deduct	-274.41	
26 51 19 00-0466	EA		24,000 Lumens, 230 Watt, LED High Bay Fixture (DLE-24-ST/HV)	2,196.19	138.22
			For >50 To 100, Deduct	-61.82	
			For >100 To 250, Deduct	-116.72	
			For >250 To 500, Deduct	-219.62	
			For >500, Deduct	-322.52	
26 51 19 00-0467			LED High Bay Fixtures (Everlast) (26 51 19 00-0429)		
26 51 19 00-0468			LED High Bay Fixtures (Everlast EL-LED-LG) (26 51 19 00-0467)		
26 51 19 00-0469	EA		13,500 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AC)	1,038.96	138.22
			For >50 To 100, Deduct	-32.89	
			For >100 To 250, Deduct	-58.86	
			For >250 To 500, Deduct	-103.90	
			For >500, Deduct	-148.93	
26 51 19 00-0470	EA		13,500 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AO)	1,097.27	138.22
			For >50 To 100, Deduct	-34.34	
			For >100 To 250, Deduct	-61.77	
			For >250 To 500, Deduct	-109.73	
			For >500, Deduct	-157.68	
26 51 19 00-0471	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL16)	980.65	138.22
			For >50 To 100, Deduct	-31.43	
			For >100 To 250, Deduct	-55.94	
			For >250 To 500, Deduct	-98.07	
			For >500, Deduct	-140.19	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0472	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL22)	1,005.32	138.22
			For>50 To 100, Deduct	-32.04	
			For>100 To 250, Deduct	-57.18	
			For>250 To 500, Deduct	-100.53	
			For>500, Deduct	-143.89	
26 51 19 00-0473	EA		17,500 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AC).....	1,139.88	138.22
			For>50 To 100, Deduct	-35.41	
			For>100 To 250, Deduct	-63.91	
			For>250 To 500, Deduct	-113.99	
			For>500, Deduct	-164.07	
26 51 19 00-0474	EA		17,500 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AO).....	1,240.80	138.22
			For>50 To 100, Deduct	-37.93	
			For>100 To 250, Deduct	-68.95	
			For>250 To 500, Deduct	-124.08	
			For>500, Deduct	-179.21	
26 51 19 00-0475	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL16)	1,086.05	138.22
			For>50 To 100, Deduct	-34.06	
			For>100 To 250, Deduct	-61.21	
			For>250 To 500, Deduct	-108.61	
			For>500, Deduct	-156.00	
26 51 19 00-0476	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL22)	1,173.52	138.22
			For>50 To 100, Deduct	-36.25	
			For>100 To 250, Deduct	-65.59	
			For>250 To 500, Deduct	-117.35	
			For>500, Deduct	-169.12	
26 51 19 00-0477	EA		34,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30)	1,700.55	138.22
			For>50 To 100, Deduct	-49.42	
			For>100 To 250, Deduct	-91.94	
			For>250 To 500, Deduct	-170.06	
			For>500, Deduct	-248.17	
26 51 19 00-0478	EA		43,000 Lumens, 400 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30)	1,857.54	138.22
			For>50 To 100, Deduct	-53.35	
			For>100 To 250, Deduct	-99.79	
			For>250 To 500, Deduct	-185.75	
			For>500, Deduct	-271.72	
26 51 19 00-0479	EA		66,000 Lumens, 600 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30)	2,306.08	138.22
			For>50 To 100, Deduct	-64.56	
			For>100 To 250, Deduct	-122.22	
			For>250 To 500, Deduct	-230.61	
			For>500, Deduct	-339.00	
26 51 19 00-0480 LED High Bay Fixtures (Everlast EL-LED-CS) (26 51 19 00-0467)					
26 51 19 00-0481	EA		5,000 Lumens, 50 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....	657.70	138.22
			For>50 To 100, Deduct	-23.35	
			For>100 To 250, Deduct	-39.80	
			For>250 To 500, Deduct	-65.77	
			For>500, Deduct	-91.74	
26 51 19 00-0482	EA		10,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-CS)	960.46	138.22
			For>50 To 100, Deduct	-30.92	
			For>100 To 250, Deduct	-54.93	
			For>250 To 500, Deduct	-96.05	
			For>500, Deduct	-137.16	
26 51 19 00-0483	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-CS)	1,095.02	138.22
			For>50 To 100, Deduct	-34.29	
			For>100 To 250, Deduct	-61.66	
			For>250 To 500, Deduct	-109.50	
			For>500, Deduct	-157.34	
26 51 19 00-0484	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-CS)	1,252.01	138.22
			For>50 To 100, Deduct	-38.21	
			For>100 To 250, Deduct	-69.51	
			For>250 To 500, Deduct	-125.20	
			For>500, Deduct	-180.89	
26 51 19 00-0485	EA		30,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-CS)	1,352.93	138.22
			For>50 To 100, Deduct	-40.73	
			For>100 To 250, Deduct	-74.56	
			For>250 To 500, Deduct	-135.29	
			For>500, Deduct	-196.03	
26 51 19 00-0486 LED High Bay Fixtures (Everlast EL-LED-HB-LG) (26 51 19 00-0467)					
26 51 19 00-0487	EA		10,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG).....	859.54	138.22
			For>50 To 100, Deduct	-28.40	
			For>100 To 250, Deduct	-49.89	
			For>250 To 500, Deduct	-85.95	
			For>500, Deduct	-122.02	
26 51 19 00-0488	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG).....	915.61	138.22
			For>50 To 100, Deduct	-29.80	
			For>100 To 250, Deduct	-52.69	
			For>250 To 500, Deduct	-91.56	
			For>500, Deduct	-130.43	
26 51 19 00-0489	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG).....	994.10	138.22
			For>50 To 100, Deduct	-31.76	
			For>100 To 250, Deduct	-56.62	
			For>250 To 500, Deduct	-99.41	
			For>500, Deduct	-142.20	



Electrical		26	26
Lighting		26 50	
Interior Lighting		26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0490			LED High Bay Fixtures (Everlast EL-LED-LHB) (26 51 19 00-0497)		
26 51 19 00-0491	EA		13,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-LHB)	873.00	138.22
			For >50 To 100, Deduct	-28.74	
			For >100 To 250, Deduct	-50.56	
			For >250 To 500, Deduct	-87.30	
			For >500, Deduct	-124.04	
26 51 19 00-0492	EA		26,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LHB)	1,072.60	138.22
			For >50 To 100, Deduct	-33.73	
			For >100 To 250, Deduct	-60.54	
			For >250 To 500, Deduct	-107.26	
			For >500, Deduct	-153.98	
26 51 19 00-0493	EA		39,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-LHB)	1,330.51	138.22
			For >50 To 100, Deduct	-40.17	
			For >100 To 250, Deduct	-73.44	
			For >250 To 500, Deduct	-133.05	
			For >500, Deduct	-192.67	
26 51 19 00-0494			LED High Bay Fixtures (Lithonia IBG) (26 51 19 00-0429)		
26 51 19 00-0495	EA		8,000 Lumens, 48 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 8000LM SEF ACL GND MVOLT)	483.52	135.70
			For >50 To 100, Deduct	-17.25	
			For >100 To 250, Deduct	-29.34	
			For >250 To 500, Deduct	-48.35	
			For >500, Deduct	-67.37	
26 51 19 00-0496	EA		12,000 Lumens, 76 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 12000LM SEF ACL GND MVOLT)	502.31	135.70
			For >50 To 100, Deduct	-17.72	
			For >100 To 250, Deduct	-30.28	
			For >250 To 500, Deduct	-50.23	
			For >500, Deduct	-70.19	
26 51 19 00-0497	EA		15,000 Lumens, 93 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 15000LM SEF ACL GND MVOLT)	544.59	135.70
			For >50 To 100, Deduct	-18.78	
			For >100 To 250, Deduct	-32.39	
			For >250 To 500, Deduct	-54.46	
			For >500, Deduct	-76.53	
26 51 19 00-0498	EA		18,000 Lumens, 105 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 18000LM SEF ACL GND MVOLT)	611.33	135.70
			For >50 To 100, Deduct	-20.44	
			For >100 To 250, Deduct	-35.73	
			For >250 To 500, Deduct	-61.13	
			For >500, Deduct	-86.54	
26 51 19 00-0499	EA		24,000 Lumens, 144 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 24000LM SEF ACL GND MVOLT)	665.68	135.70
			For >50 To 100, Deduct	-21.80	
			For >100 To 250, Deduct	-38.45	
			For >250 To 500, Deduct	-66.57	
			For >500, Deduct	-94.69	
26 51 19 00-0500	EA		30,000 Lumens, 178 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 30000LM SEF ACL GND MVOLT)	793.43	135.70
			For >50 To 100, Deduct	-25.00	
			For >100 To 250, Deduct	-44.83	
			For >250 To 500, Deduct	-79.34	
			For >500, Deduct	-113.85	
26 51 19 00-0501	EA		36,000 Lumens, 218 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 36000LM SEF ACL GND MVOLT)	956.52	135.70
			For >50 To 100, Deduct	-29.07	
			For >100 To 250, Deduct	-52.99	
			For >250 To 500, Deduct	-95.65	
			For >500, Deduct	-138.32	
26 51 19 00-0502	EA		48,000 Lumens, 284 Watt, 47.29" Length, LED High Bay Fixture (Lithonia IBG 48000LM SEF ACL GND MVOLT)	1,378.08	138.22
			For >50 To 100, Deduct	-41.36	
			For >100 To 250, Deduct	-75.82	
			For >250 To 500, Deduct	-137.81	
			For >500, Deduct	-199.80	
26 51 19 00-0503			LED High Bay Fixtures (Lithonia IBL) (26 51 19 00-0429)		
26 51 19 00-0504	EA		9,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 9L)	722.34	138.22
			For >50 To 100, Deduct	-24.97	
			For >100 To 250, Deduct	-43.03	
			For >250 To 500, Deduct	-72.23	
			For >500, Deduct	-101.44	
26 51 19 00-0505	EA		12,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 12L)	781.32	138.22
			For >50 To 100, Deduct	-26.44	
			For >100 To 250, Deduct	-45.98	
			For >250 To 500, Deduct	-78.13	
			For >500, Deduct	-110.29	
26 51 19 00-0506	EA		18,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 18L)	940.58	138.22
			For >50 To 100, Deduct	-30.43	
			For >100 To 250, Deduct	-53.94	
			For >250 To 500, Deduct	-94.06	
			For >500, Deduct	-134.18	
26 51 19 00-0507	EA		24,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 24L)	1,004.28	138.22
			For >50 To 100, Deduct	-32.02	
			For >100 To 250, Deduct	-57.13	
			For >250 To 500, Deduct	-100.43	
			For >500, Deduct	-143.73	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 51 19 00-0508 LED High Bay Fixtures (Metalux SSLED) (26 51 19 00-0429)					
26 51 19 00-0509	EA	12,000 Lumens, 80 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-12-M-UNV-L840-CD1U)	799.29		138.22
		For >50 To 100, Deduct	-26.89		
		For >100 To 250, Deduct	-46.88		
		For >250 To 500, Deduct	-79.93		
		For >500, Deduct	-112.98		
26 51 19 00-0510	EA	15,000 Lumens, 100 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-15-M-UNV-L840-CD1U)	819.83		138.22
		For >50 To 100, Deduct	-27.41		
		For >100 To 250, Deduct	-47.90		
		For >250 To 500, Deduct	-81.98		
		For >500, Deduct	-116.06		
26 51 19 00-0511	EA	18,000 Lumens, 120 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-18-M-UNV-L840-CD1U)	828.10		138.22
		For >50 To 100, Deduct	-27.61		
		For >100 To 250, Deduct	-48.32		
		For >250 To 500, Deduct	-82.81		
		For >500, Deduct	-117.30		
26 51 19 00-0512	EA	24,000 Lumens, 160 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-24-M-UNV-L840-CD1U)	906.86		138.22
		For >50 To 100, Deduct	-29.58		
		For >100 To 250, Deduct	-52.25		
		For >250 To 500, Deduct	-90.69		
		For >500, Deduct	-129.12		
26 51 19 00-0513	EA	30,000 Lumens, 200 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-30-M-UNV-L840-CD1U)	998.60		138.22
		For >50 To 100, Deduct	-31.88		
		For >100 To 250, Deduct	-56.84		
		For >250 To 500, Deduct	-99.86		
		For >500, Deduct	-142.88		
26 51 19 00-0514	EA	36,000 Lumens, 240 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-36-M-UNV-L840-CD1U)	1,033.02		138.22
		For >50 To 100, Deduct	-32.74		
		For >100 To 250, Deduct	-58.56		
		For >250 To 500, Deduct	-103.30		
		For >500, Deduct	-148.04		
26 51 19 00-0515 LED High Bay Fixtures (PlanLED) (26 51 19 00-0429)					
26 51 19 00-0516 LED High Bay Fixtures (PlanLED LUNA) (26 51 19 00-0515)					
Note: Includes aluminum alloy chassis.					
26 51 19 00-0517	EA	7,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN70)	1,012.04		138.22
		For >50 To 100, Deduct	-32.21		
		For >100 To 250, Deduct	-57.51		
		For >250 To 500, Deduct	-101.20		
		For >500, Deduct	-144.90		
26 51 19 00-0518	EA	9,800 Lumens, LED High Bay Fixture (PlanLED LUNA LN98)	1,137.63		138.22
		For >50 To 100, Deduct	-35.35		
		For >100 To 250, Deduct	-63.79		
		For >250 To 500, Deduct	-113.76		
		For >500, Deduct	-163.73		
26 51 19 00-0519	EA	13,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN130)	1,319.29		138.22
		For >50 To 100, Deduct	-39.89		
		For >100 To 250, Deduct	-72.88		
		For >250 To 500, Deduct	-131.93		
		For >500, Deduct	-190.98		
26 51 19 00-0520	EA	16,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN160)	1,496.47		138.22
		For >50 To 100, Deduct	-44.32		
		For >100 To 250, Deduct	-81.73		
		For >250 To 500, Deduct	-149.65		
		For >500, Deduct	-217.56		
26 51 19 00-0521 LED High Bay Fixtures (PlanLED IBL) (26 51 19 00-0515)					
Note: Includes aluminum alloy chassis.					
26 51 19 00-0522	EA	13,650 Lumens, 130 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 130W)	1,101.75		138.22
		For 480 Volt, Add	62.90		
		For >50 To 100, Deduct	-34.45		
		For >100 To 250, Deduct	-62.00		
		For >250 To 500, Deduct	-110.18		
		For >500, Deduct	-158.35		
26 51 19 00-0523	EA	21,000 Lumens, 200 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 200W)	1,539.08		138.22
		For 480 Volt, Add	79.70		
		For >50 To 100, Deduct	-45.39		
		For >100 To 250, Deduct	-83.87		
		For >250 To 500, Deduct	-153.91		
		For >500, Deduct	-223.95		
26 51 19 00-0524	EA	42,000 Lumens, 400 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 400W)	2,743.40		138.22
		For 480 Volt, Add	126.45		
		For >50 To 100, Deduct	-75.50		
		For >100 To 250, Deduct	-144.08		
		For >250 To 500, Deduct	-274.34		
		For >500, Deduct	-404.60		
26 51 19 00-0525 LED High Bay Fixtures (PlanLED SEGA) (26 51 19 00-0515)					
Note: Includes aluminum alloy chassis.					



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
26 51 19 00-0526	EA	10,400 Lumens, 80 Watt, LED High Bay Fixture (PlanLED SEGA SE080)	866.27	138.22	
		For 0 To 10 Volt Dimming, Add	96.89		
		For >50 To 100, Deduct	-28.57		
		For >100 To 250, Deduct	-50.22		
		For >250 To 500, Deduct	-86.63		
		For >500, Deduct	-123.03		
26 51 19 00-0527	EA	13,000 Lumens, 100 Watt, LED High Bay Fixture (PlanLED SEGA SE100)	926.82	138.22	
		For 0 To 10 Volt Dimming, Add	96.89		
		For >50 To 100, Deduct	-30.08		
		For >100 To 250, Deduct	-53.25		
		For >250 To 500, Deduct	-92.68		
		For >500, Deduct	-132.11		
26 51 19 00-0528	EA	16,900 Lumens, 130 Watt, LED High Bay Fixture (PlanLED SEGA SE130)	1,135.39	138.22	
		For 0 To 10 Volt Dimming, Add	96.89		
		For >50 To 100, Deduct	-35.30		
		For >100 To 250, Deduct	-63.68		
		For >250 To 500, Deduct	-113.54		
		For >500, Deduct	-163.40		
26 51 19 00-0529	EA	20,800 Lumens, 160 Watt, LED High Bay Fixture (PlanLED SEGA SE160)	1,285.65	138.22	
		For 0 To 10 Volt Dimming, Add	96.89		
		For >50 To 100, Deduct	-39.05		
		For >100 To 250, Deduct	-71.19		
		For >250 To 500, Deduct	-128.57		
		For >500, Deduct	-185.94		
26 51 19 00-0530	EA	50,000 Lumens, 400 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE400).....	2,393.54	138.22	
		For >50 To 100, Deduct	-66.75		
		For >100 To 250, Deduct	-126.59		
		For >250 To 500, Deduct	-239.35		
		For >500, Deduct	-352.12		
26 51 19 00-0531	EA	57,040 Lumens, 500 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE500).....	2,590.90	138.22	
		For >50 To 100, Deduct	-71.68		
		For >100 To 250, Deduct	-136.46		
		For >250 To 500, Deduct	-259.09		
		For >500, Deduct	-381.72		
26 51 19 00-0532	EA	80,000 Lumens, 640 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE640).....	3,949.51	138.22	
		For >50 To 100, Deduct	-105.65		
		For >100 To 250, Deduct	-204.39		
		For >250 To 500, Deduct	-394.95		
		For >500, Deduct	-585.52		
26 51 19 00-0533		Wet/Hazardous Location, LED Fixtures (26 51 19 00-0001)			
26 51 19 00-0534		Wet Location, LED Fixtures (26 51 19 00-0533)			
26 51 19 00-0535		Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM) (26 51 19 00-0534) Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.			
26 51 19 00-0536	EA	3,531 Lumens, 29 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM3L).....	4,299.82	105.55	
		For Ceiling Mount, Add	38.60		
		For Quick Clip Mounting Option, Add	56.75		
		For Frosted Lens, Add	122.05		
		For Warm White Color Rendering, Add	157.11		
		For Stanchion Mount, Add	263.32		
		For Wall Mount, Add	291.47		
		For Polycarbonate Lens, Add	226.21		
		For Teflon Coated Lens, Add	259.04		
		For 480 Volt, Add	370.05		
		For >50 To 100, Deduct	-111.89		
		For >100 To 250, Deduct	-219.39		
		For >250 To 500, Deduct	-429.98		
		For >500, Deduct	-640.58		
26 51 19 00-0537	EA	5,335 Lumens, 43 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM5L).....	4,377.62	113.09	
		For Ceiling Mount, Add	38.60		
		For Quick Clip Mounting Option, Add	56.75		
		For Frosted Lens, Add	122.05		
		For Warm White Color Rendering, Add	157.11		
		For Stanchion Mount, Add	263.32		
		For Wall Mount, Add	291.47		
		For Polycarbonate Lens, Add	226.21		
		For Teflon Coated Lens, Add	259.04		
		For 480 Volt, Add	370.05		
		For >50 To 100, Deduct	-114.15		
		For >100 To 250, Deduct	-223.59		
		For >250 To 500, Deduct	-437.76		
		For >500, Deduct	-651.93		

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0538	EA		7,195 Lumens, 62 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM7L).....	4,951.78	120.63
			For Ceiling Mount, Add	38.60	
			For Quick Clip Mounting Option, Add	56.75	
			For Frosted Lens, Add	122.05	
			For Warm White Color Rendering, Add	157.11	
			For Stanchion Mount, Add	263.32	
			For Wall Mount, Add	291.47	
			For Polycarbonate Lens, Add	226.21	
			For Teflon Coated Lens, Add	259.04	
			For 480 Volt, Add	370.05	
			For >50 To 100, Deduct	-128.82	
			For >100 To 250, Deduct	-252.62	
			For >250 To 500, Deduct	-495.18	
			For >500, Deduct	-737.74	
26 51 19 00-0539	EA		9,266 Lumens, 85 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM9L).....	5,981.48	128.17
			For Ceiling Mount, Add	38.60	
			For Quick Clip Mounting Option, Add	56.75	
			For Frosted Lens, Add	122.05	
			For Warm White Color Rendering, Add	157.11	
			For Stanchion Mount, Add	263.32	
			For Wall Mount, Add	291.47	
			For Polycarbonate Lens, Add	226.21	
			For Teflon Coated Lens, Add	259.04	
			For 480 Volt, Add	370.05	
			For >50 To 100, Deduct	-154.88	
			For >100 To 250, Deduct	-304.41	
			For >250 To 500, Deduct	-598.15	
			For >500, Deduct	-891.88	
26 51 19 00-0540	EA		11,440 Lumens, 113 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM11L).....	7,661.88	135.70
			For Ceiling Mount, Add	38.60	
			For Quick Clip Mounting Option, Add	56.75	
			For Frosted Lens, Add	122.05	
			For Warm White Color Rendering, Add	157.11	
			For Stanchion Mount, Add	263.32	
			For Wall Mount, Add	291.47	
			For Polycarbonate Lens, Add	226.21	
			For Teflon Coated Lens, Add	259.04	
			For 480 Volt, Add	370.05	
			For >50 To 100, Deduct	-197.20	
			For >100 To 250, Deduct	-388.75	
			For >250 To 500, Deduct	-766.19	
			For >500, Deduct	-1,143.63	
26 51 19 00-0541	EA		13,226 Lumens, 131 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM11L).....	10,127.65	139.47
			For Ceiling Mount, Add	38.60	
			For Quick Clip Mounting Option, Add	56.75	
			For Frosted Lens, Add	122.05	
			For Warm White Color Rendering, Add	157.11	
			For Stanchion Mount, Add	263.32	
			For Wall Mount, Add	291.47	
			For Polycarbonate Lens, Add	226.21	
			For Teflon Coated Lens, Add	259.04	
			For 480 Volt, Add	370.05	
			For >50 To 100, Deduct	-259.00	
			For >100 To 250, Deduct	-512.19	
			For >250 To 500, Deduct	-1,012.77	
			For >500, Deduct	-1,513.34	
26 51 19 00-0542	EA		18,793 Lumens, 168 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM17L).....	11,751.30	143.25
			For Ceiling Mount, Add	38.60	
			For Quick Clip Mounting Option, Add	56.75	
			For Frosted Lens, Add	122.05	
			For Warm White Color Rendering, Add	157.11	
			For Stanchion Mount, Add	263.32	
			For Wall Mount, Add	291.47	
			For Polycarbonate Lens, Add	226.21	
			For Teflon Coated Lens, Add	259.04	
			For 480 Volt, Add	370.05	
			For >50 To 100, Deduct	-299.75	
			For >100 To 250, Deduct	-593.53	
			For >250 To 500, Deduct	-1,175.13	
			For >500, Deduct	-1,756.73	

26 51 19 00-0543 Wet Location, NEMA 4X, LED Floodlight (Cooper Champ® Pro PFM) (26 51 19 00-0534)

Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0544	EA		5,183 Lumens, 45 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM5L).....	3,854.66	113.09
			For Bolt-On Visor, Add	210.13	
			For Bolt-On Wire Guard, Add	432.21	
			For 480 Volt, Add	370.05	
			For Warm White Color Rendering, Add	157.11	
			For >50 To 100, Deduct	-101.08	
			For >100 To 250, Deduct	-197.45	
			For >250 To 500, Deduct	-385.47	
			For >500, Deduct	-573.49	
26 51 19 00-0545	EA		7,095 Lumens, 62 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM7L).....	5,744.16	120.63
			For Bolt-On Visor, Add	210.13	
			For Bolt-On Wire Guard, Add	432.21	
			For 480 Volt, Add	370.05	
			For Warm White Color Rendering, Add	157.11	
			For >50 To 100, Deduct	-148.63	
			For >100 To 250, Deduct	-292.23	
			For >250 To 500, Deduct	-574.42	
			For >500, Deduct	-856.60	
26 51 19 00-0546	EA		9,132 Lumens, 79 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM9L).....	6,340.09	128.17
			For Bolt-On Visor, Add	210.13	
			For Bolt-On Wire Guard, Add	432.21	
			For 480 Volt, Add	370.05	
			For Warm White Color Rendering, Add	157.11	
			For >50 To 100, Deduct	-163.84	
			For >100 To 250, Deduct	-322.35	
			For >250 To 500, Deduct	-634.01	
			For >500, Deduct	-945.67	
26 51 19 00-0547	EA		11,107 Lumens, 99 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM11L).....	7,293.47	135.70
			For Bolt-On Visor, Add	210.13	
			For Bolt-On Wire Guard, Add	432.21	
			For 480 Volt, Add	370.05	
			For Warm White Color Rendering, Add	157.11	
			For >50 To 100, Deduct	-187.99	
			For >100 To 250, Deduct	-370.33	
			For >250 To 500, Deduct	-729.35	
			For >500, Deduct	-1,088.37	
26 51 19 00-0548			Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2L) (26 51 19 00-0534)		
			Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51 19 00-0549	EA		1,400 Lumens, 25 Watt, Pendant Mount, Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2LC).....	2,640.32	105.55
			For 12/24 Volt DC Driver, Add	59.72	
			For Frosted Lens, Add	122.05	
			For 55 Degree Ambient Suitability (AC Only), Add	81.31	
			For Warm White Color Rendering, Add	157.11	
			For Ceiling Mount, Add	185.54	
			For Wall Mount, Add	269.09	
			For Teflon Coated Lens, Add	259.04	
			For Wall Mount With Junction Box, Add	390.90	
			For >50 To 100, Deduct	-70.41	
			For >100 To 250, Deduct	-136.41	
			For >250 To 500, Deduct	-264.03	
			For >500, Deduct	-391.65	
26 51 19 00-0550			Vaportight, LED Fixtures (26 51 19 00-0533)		
26 51 19 00-0551			General Distribution, Vaportight, LED Fixtures (Metalux) (26 51 19 00-0550)		
26 51 19 00-0552	EA		2', 2,000 Lumens, 16 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-G-UNV-L850-CD1-U).....	354.42	60.32
			For >50 To 100, Deduct	-11.37	
			For >100 To 250, Deduct	-20.23	
			For >250 To 500, Deduct	-35.44	
			For >500, Deduct	-50.65	
26 51 19 00-0553	EA		2', 3,000 Lumens, 24 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-G-UNV-L850-CD1-U).....	369.60	60.32
			For >50 To 100, Deduct	-11.75	
			For >100 To 250, Deduct	-20.99	
			For >250 To 500, Deduct	-36.96	
			For >500, Deduct	-52.93	
26 51 19 00-0554	EA		2', 4,000 Lumens, 32 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-G-UNV-L850-CD1-U).....	399.98	60.32
			For >50 To 100, Deduct	-12.51	
			For >100 To 250, Deduct	-22.51	
			For >250 To 500, Deduct	-40.00	
			For >500, Deduct	-57.48	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0555	EA	4', 4,000 Lumens, 32 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-G-UNV-L850-CD1-U)	.....	358.65	75.39
		For >50 To 100, Deduct	.....	-12.11	
		For >100 To 250, Deduct	.....	-21.07	
		For >250 To 500, Deduct	.....	-35.87	
		For >500, Deduct	.....	-50.66	
26 51 19 00-0556	EA	4', 6,000 Lumens, 51 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-G-UNV-L850-CD1-U)	.....	402.21	75.39
		For >50 To 100, Deduct	.....	-13.20	
		For >100 To 250, Deduct	.....	-23.25	
		For >250 To 500, Deduct	.....	-40.22	
		For >500, Deduct	.....	-57.19	
26 51 19 00-0557	EA	4', 8,000 Lumens, 67 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-G-UNV-L850-CD1-U)	.....	561.77	75.39
		For >50 To 100, Deduct	.....	-17.19	
		For >100 To 250, Deduct	.....	-31.23	
		For >250 To 500, Deduct	.....	-56.18	
		For >500, Deduct	.....	-81.12	
26 51 19 00-0558 Wide Distribution, Vaportight, LED Fixtures (Metalux) (26 51 19 00-0550)					
26 51 19 00-0559	EA	2', 2,000 Lumens, 17 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-W-UNV-L850-CD1-U)	.....	384.79	60.32
		For >50 To 100, Deduct	.....	-12.13	
		For >100 To 250, Deduct	.....	-21.75	
		For >250 To 500, Deduct	.....	-38.48	
		For >500, Deduct	.....	-55.21	
26 51 19 00-0560	EA	2', 3,000 Lumens, 25 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-W-UNV-L850-CD1-U)	.....	399.98	60.32
		For >50 To 100, Deduct	.....	-12.51	
		For >100 To 250, Deduct	.....	-22.51	
		For >250 To 500, Deduct	.....	-40.00	
		For >500, Deduct	.....	-57.48	
26 51 19 00-0561	EA	2', 4,000 Lumens, 34 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-W-UNV-L850-CD1-U)	.....	430.35	60.32
		For >50 To 100, Deduct	.....	-13.27	
		For >100 To 250, Deduct	.....	-24.03	
		For >250 To 500, Deduct	.....	-43.04	
		For >500, Deduct	.....	-62.04	
26 51 19 00-0562	EA	4', 4,000 Lumens, 31 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-W-UNV-L850-CD1-U)	.....	501.04	75.39
		For >50 To 100, Deduct	.....	-15.67	
		For >100 To 250, Deduct	.....	-28.19	
		For >250 To 500, Deduct	.....	-50.10	
		For >500, Deduct	.....	-72.01	
26 51 19 00-0563	EA	4', 6,000 Lumens, 49 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-W-UNV-L850-CD1-U)	.....	561.77	75.39
		For >50 To 100, Deduct	.....	-17.19	
		For >100 To 250, Deduct	.....	-31.23	
		For >250 To 500, Deduct	.....	-56.18	
		For >500, Deduct	.....	-81.12	
26 51 19 00-0564	EA	4', 8,000 Lumens, 70 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-W-UNV-L850-CD1-U)	.....	622.52	75.39
		For >50 To 100, Deduct	.....	-18.70	
		For >100 To 250, Deduct	.....	-34.27	
		For >250 To 500, Deduct	.....	-62.25	
		For >500, Deduct	.....	-90.24	
26 51 19 00-0565 Parking Garage Distribution, Vaportight, LED Fixtures (Metalux) (26 51 19 00-0550)					
26 51 19 00-0566	EA	2', 2,000 Lumens, 17 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-P-UNV-L850-CD1-U)	.....	384.79	60.32
		For >50 To 100, Deduct	.....	-12.13	
		For >100 To 250, Deduct	.....	-21.75	
		For >250 To 500, Deduct	.....	-38.48	
		For >500, Deduct	.....	-55.21	
26 51 19 00-0567	EA	2', 3,000 Lumens, 25 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-P-UNV-L850-CD1-U)	.....	401.14	60.32
		For >50 To 100, Deduct	.....	-12.54	
		For >100 To 250, Deduct	.....	-22.57	
		For >250 To 500, Deduct	.....	-40.11	
		For >500, Deduct	.....	-57.66	
26 51 19 00-0568	EA	2', 4,000 Lumens, 34 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-P-UNV-L850-CD1-U)	.....	430.35	60.32
		For >50 To 100, Deduct	.....	-13.27	
		For >100 To 250, Deduct	.....	-24.03	
		For >250 To 500, Deduct	.....	-43.04	
		For >500, Deduct	.....	-62.04	
26 51 19 00-0569	EA	4', 4,000 Lumens, 31 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-P-UNV-L850-CD1-U)	.....	501.04	75.39
		For >50 To 100, Deduct	.....	-15.67	
		For >100 To 250, Deduct	.....	-28.19	
		For >250 To 500, Deduct	.....	-50.10	
		For >500, Deduct		-72.01	



Electrical			26
Lighting			26 50
Interior Lighting			26 51

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0570	EA		4', 6,000 Lumens, 49 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-P-UNV-L850-CD1-U).....	561.77	75.39
			For >50 To 100, Deduct	-17.19	
			For >100 To 250, Deduct	-31.23	
			For >250 To 500, Deduct	-56.18	
			For >500, Deduct	-81.12	
26 51 19 00-0571	EA		4', 8,000 Lumens, 69 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-P-UNV-L850-CD1-U).....	622.52	75.39
			For >50 To 100, Deduct	-18.70	
			For >100 To 250, Deduct	-34.27	
			For >250 To 500, Deduct	-62.25	
			For >500, Deduct	-90.24	
26 51 19 00-0572			Ceiling Mounted LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0573			Ceiling Mounted, LED Drum Fixtures (Enertron) (26 51 19 00-0572)		
26 51 19 00-0574	EA		11" Diameter, 530 Lumens, 7 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X611-30).....	138.66	50.26
			For >50 To 100, Deduct	-5.35	
			For >100 To 250, Deduct	-8.82	
			For >250 To 500, Deduct	-13.87	
			For >500, Deduct	-18.91	
26 51 19 00-0575	EA		11" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X611-30).....	144.94	50.26
			For >50 To 100, Deduct	-5.51	
			For >100 To 250, Deduct	-9.13	
			For >250 To 500, Deduct	-14.49	
			For >500, Deduct	-19.86	
26 51 19 00-0576	EA		11" Diameter, 1,590 Lumens, 14 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X611-30).....	151.23	50.26
			For >50 To 100, Deduct	-5.67	
			For >100 To 250, Deduct	-9.45	
			For >250 To 500, Deduct	-15.12	
			For >500, Deduct	-20.80	
26 51 19 00-0577	EA		11" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X611-30).....	157.51	50.26
			For >50 To 100, Deduct	-5.82	
			For >100 To 250, Deduct	-9.76	
			For >250 To 500, Deduct	-15.75	
			For >500, Deduct	-21.74	
26 51 19 00-0578	EA		14" Diameter, 530 Lumens, 7 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X614-30).....	152.72	55.28
			For >50 To 100, Deduct	-5.89	
			For >100 To 250, Deduct	-9.71	
			For >250 To 500, Deduct	-15.27	
			For >500, Deduct	-20.83	
26 51 19 00-0579	EA		14" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X614-30).....	159.00	55.28
			For >50 To 100, Deduct	-6.05	
			For >100 To 250, Deduct	-10.02	
			For >250 To 500, Deduct	-15.90	
			For >500, Deduct	-21.78	
26 51 19 00-0580	EA		14" Diameter, 1,590 Lumens, 14 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X614-30).....	165.28	55.28
			For >50 To 100, Deduct	-6.21	
			For >100 To 250, Deduct	-10.34	
			For >250 To 500, Deduct	-16.53	
			For >500, Deduct	-22.72	
26 51 19 00-0581	EA		14" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X614-30).....	171.56	55.28
			For >50 To 100, Deduct	-6.36	
			For >100 To 250, Deduct	-10.65	
			For >250 To 500, Deduct	-17.16	
			For >500, Deduct	-23.66	
26 51 19 00-0582	EA		14" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X614-30).....	184.13	55.28
			For >50 To 100, Deduct	-6.68	
			For >100 To 250, Deduct	-11.28	
			For >250 To 500, Deduct	-18.41	
			For >500, Deduct	-25.55	
26 51 19 00-0583	EA		11" Diameter, 530 Lumens, 7 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X611-35).....	138.66	50.26
			For >50 To 100, Deduct	-5.35	
			For >100 To 250, Deduct	-8.82	
			For >250 To 500, Deduct	-13.87	
			For >500, Deduct	-18.91	
26 51 19 00-0584	EA		11" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X611-35).....	144.94	50.26
			For >50 To 100, Deduct	-5.51	
			For >100 To 250, Deduct	-9.13	
			For >250 To 500, Deduct	-14.49	
			For >500, Deduct	-19.86	
26 51 19 00-0585	EA		11" Diameter, 1,590 Lumens, 14 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED3X611-35).....	151.22	50.26
			For >50 To 100, Deduct	-5.67	
			For >100 To 250, Deduct	-9.45	
			For >250 To 500, Deduct	-15.12	
			For >500, Deduct	-20.80	
26 51 19 00-0586	EA		11" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X611-35).....	157.50	50.26
			For >50 To 100, Deduct	-5.82	
			For >100 To 250, Deduct	-9.76	
			For >250 To 500, Deduct	-15.75	
			For >500, Deduct	-21.74	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 51 19 00-0587	EA	14" Diameter, 530 Lumens, 7 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X614-35)	152.72		55.28
		For>50 To 100, Deduct	-5.89		
		For>100 To 250, Deduct	-9.71		
		For>250 To 500, Deduct	-15.27		
		For>500, Deduct	-20.83		
26 51 19 00-0588	EA	14" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X614-35)	159.00		55.28
		For>50 To 100, Deduct	-6.05		
		For>100 To 250, Deduct	-10.02		
		For>250 To 500, Deduct	-15.90		
		For>500, Deduct	-21.78		
26 51 19 00-0589	EA	14" Diameter, 1,590 Lumens, 14 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED3X614-35)	165.28		55.28
		For>50 To 100, Deduct	-6.21		
		For>100 To 250, Deduct	-10.34		
		For>250 To 500, Deduct	-16.53		
		For>500, Deduct	-22.72		
26 51 19 00-0590	EA	14" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X614-35)	171.56		55.28
		For>50 To 100, Deduct	-6.36		
		For>100 To 250, Deduct	-10.65		
		For>250 To 500, Deduct	-17.16		
		For>500, Deduct	-23.66		
26 51 19 00-0591	EA	14" Diameter, 3,180 Lumens, 24 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED6X614-30)	184.13		55.28
		For>50 To 100, Deduct	-6.68		
		For>100 To 250, Deduct	-11.28		
		For>250 To 500, Deduct	-18.41		
		For>500, Deduct	-25.55		
26 51 19 00-0592	EA	11" Diameter, 550 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X611-40)	138.66		50.26
		For>50 To 100, Deduct	-5.35		
		For>100 To 250, Deduct	-8.82		
		For>250 To 500, Deduct	-13.87		
		For>500, Deduct	-18.91		
26 51 19 00-0593	EA	11" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X611-40)	144.94		50.26
		For>50 To 100, Deduct	-5.51		
		For>100 To 250, Deduct	-9.13		
		For>250 To 500, Deduct	-14.49		
		For>500, Deduct	-19.86		
26 51 19 00-0594	EA	11" Diameter, 1,650 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X611-40)	151.22		50.26
		For>50 To 100, Deduct	-5.67		
		For>100 To 250, Deduct	-9.45		
		For>250 To 500, Deduct	-15.12		
		For>500, Deduct	-20.80		
26 51 19 00-0595	EA	11" Diameter, 2,200 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X611-40)	157.50		50.26
		For>50 To 100, Deduct	-5.82		
		For>100 To 250, Deduct	-9.76		
		For>250 To 500, Deduct	-15.75		
		For>500, Deduct	-21.74		
26 51 19 00-0596	EA	14" Diameter, 550 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X614-40)	152.72		55.28
		For>50 To 100, Deduct	-5.89		
		For>100 To 250, Deduct	-9.71		
		For>250 To 500, Deduct	-15.27		
		For>500, Deduct	-20.83		
26 51 19 00-0597	EA	14" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X614-40)	159.00		55.28
		For>50 To 100, Deduct	-6.05		
		For>100 To 250, Deduct	-10.02		
		For>250 To 500, Deduct	-15.90		
		For>500, Deduct	-21.78		
26 51 19 00-0598	EA	14" Diameter, 1,650 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X614-40)	165.28		55.28
		For>50 To 100, Deduct	-6.21		
		For>100 To 250, Deduct	-10.34		
		For>250 To 500, Deduct	-16.53		
		For>500, Deduct	-22.72		
26 51 19 00-0599	EA	14" Diameter, 2,200 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X614-40)	171.56		55.28
		For>50 To 100, Deduct	-6.36		
		For>100 To 250, Deduct	-10.65		
		For>250 To 500, Deduct	-17.16		
		For>500, Deduct	-23.66		
26 51 19 00-0600	EA	14" Diameter, 3,300 Lumens, 24 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED6X614-40)	184.13		55.28
		For>50 To 100, Deduct	-6.68		
		For>100 To 250, Deduct	-11.28		
		For>250 To 500, Deduct	-18.41		
		For>500, Deduct	-25.55		
26 51 19 00-0601	EA	11" Diameter, 560 Lumens, 7 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED1X611-50)	138.66		50.26
		For>50 To 100, Deduct	-5.35		
		For>100 To 250, Deduct	-8.82		
		For>250 To 500, Deduct	-13.87		
		For>500, Deduct	-18.91		
26 51 19 00-0602	EA	11" Diameter, 1,120 Lumens, 10 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED2X611-50)	144.94		50.26
		For>50 To 100, Deduct	-5.51		
		For>100 To 250, Deduct	-9.13		
		For>250 To 500, Deduct	-14.49		
		For>500, Deduct	-19.86		
26 51 19 00-0603	EA	11" Diameter, 1,680 Lumens, 14 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED3X611-50)	151.22		50.26
		For>50 To 100, Deduct	-5.67		
		For>100 To 250, Deduct	-9.45		
		For>250 To 500, Deduct	-15.12		
		For>500, Deduct	-20.80		



Electrical			26	26
Lighting			26 50	
Interior Lighting			26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0604	EA	11" Diameter, 2,240 Lumens, 17 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED4X611-50)	157.50	50.26	
		For >50 To 100, Deduct	-5.82		
		For >100 To 250, Deduct	-9.76		
		For >250 To 500, Deduct	-15.75		
		For >500, Deduct	-21.74		
26 51 19 00-0605	EA	14" Diameter, 560 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X614-40)	152.72	55.28	
		For >50 To 100, Deduct	-5.89		
		For >100 To 250, Deduct	-9.71		
		For >250 To 500, Deduct	-15.27		
		For >500, Deduct	-20.83		
26 51 19 00-0606	EA	14" Diameter, 1,120 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X614-40)	159.00	55.28	
		For >50 To 100, Deduct	-6.05		
		For >100 To 250, Deduct	-10.02		
		For >250 To 500, Deduct	-15.90		
		For >500, Deduct	-21.78		
26 51 19 00-0607	EA	14" Diameter, 1,680 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X614-40)	165.28	55.28	
		For >50 To 100, Deduct	-6.21		
		For >100 To 250, Deduct	-10.34		
		For >250 To 500, Deduct	-16.53		
		For >500, Deduct	-22.72		
26 51 19 00-0608	EA	14" Diameter, 2,240 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X614-40)	171.56	55.28	
		For >50 To 100, Deduct	-6.36		
		For >100 To 250, Deduct	-10.65		
		For >250 To 500, Deduct	-17.16		
		For >500, Deduct	-23.66		
26 51 19 00-0609	EA	14" Diameter, 3,360 Lumens, 24 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED6X614-40)	184.13	55.28	
		For >50 To 100, Deduct	-6.68		
		For >100 To 250, Deduct	-11.28		
		For >250 To 500, Deduct	-18.41		
		For >500, Deduct	-25.55		
26 51 19 00-0610	EA	19" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-30)	190.46	59.68	
		For >50 To 100, Deduct	-7.02		
		For >100 To 250, Deduct	-11.78		
		For >250 To 500, Deduct	-19.05		
		For >500, Deduct	-26.31		
26 51 19 00-0611	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X619-30)	204.73	59.68	
		For >50 To 100, Deduct	-7.38		
		For >100 To 250, Deduct	-12.50		
		For >250 To 500, Deduct	-20.47		
		For >500, Deduct	-28.45		
26 51 19 00-0612	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X12S19-30)	201.25	59.68	
		For >50 To 100, Deduct	-7.29		
		For >100 To 250, Deduct	-12.32		
		For >250 To 500, Deduct	-20.13		
		For >500, Deduct	-27.93		
26 51 19 00-0613	EA	19" Diameter, 1,910 Lumens, 18 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-30)	201.19	59.68	
		For >50 To 100, Deduct	-7.29		
		For >100 To 250, Deduct	-12.32		
		For >250 To 500, Deduct	-20.12		
		For >500, Deduct	-27.92		
26 51 19 00-0614	EA	19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30)	217.30	59.68	
		For >50 To 100, Deduct	-7.69		
		For >100 To 250, Deduct	-13.13		
		For >250 To 500, Deduct	-21.73		
		For >500, Deduct	-30.33		
26 51 19 00-0615	EA	19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30)	212.10	59.68	
		For >50 To 100, Deduct	-7.56		
		For >100 To 250, Deduct	-12.87		
		For >250 To 500, Deduct	-21.21		
		For >500, Deduct	-29.55		
26 51 19 00-0616	EA	19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30)	233.86	59.68	
		For >50 To 100, Deduct	-8.11		
		For >100 To 250, Deduct	-13.95		
		For >250 To 500, Deduct	-23.39		
		For >500, Deduct	-32.82		
26 51 19 00-0617	EA	19" Diameter, 3,820 Lumens, 32 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-30)	226.78	59.68	
		For >50 To 100, Deduct	-7.93		
		For >100 To 250, Deduct	-13.60		
		For >250 To 500, Deduct	-22.68		
		For >500, Deduct	-31.76		
26 51 19 00-0618	EA	19" Diameter, 4,240 Lumens, 32 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-30)	226.83	59.68	
		For >50 To 100, Deduct	-7.93		
		For >100 To 250, Deduct	-13.60		
		For >250 To 500, Deduct	-22.68		
		For >500, Deduct	-31.76		
26 51 19 00-0619	EA	19" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X12S19-35)	190.46	59.68	
		For >50 To 100, Deduct	-7.02		
		For >100 To 250, Deduct	-11.78		
		For >250 To 500, Deduct	-19.05		
		For >500, Deduct	-26.31		
26 51 19 00-0620	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X619-35)	204.73	59.68	
		For >50 To 100, Deduct	-7.38		
		For >100 To 250, Deduct	-12.50		
		For >250 To 500, Deduct	-20.47		
		For >500, Deduct	-28.45		

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0621	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35)	.....	201.25	59.68
		For >50 To 100, Deduct		-7.29	
		For >100 To 250, Deduct		-12.32	
		For >250 To 500, Deduct		-20.13	
		For >500, Deduct		-27.93	
26 51 19 00-0622	EA	19" Diameter, 1,910 Lumens, 18 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X12H19-35)	.....	201.19	59.68
		For >50 To 100, Deduct		-7.29	
		For >100 To 250, Deduct		-12.32	
		For >250 To 500, Deduct		-20.12	
		For >500, Deduct		-27.92	
26 51 19 00-0623	EA	19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30)	.....	217.30	59.68
		For >50 To 100, Deduct		-7.69	
		For >100 To 250, Deduct		-13.13	
		For >250 To 500, Deduct		-21.73	
		For >500, Deduct		-30.33	
26 51 19 00-0624	EA	19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30)	.....	212.10	59.68
		For >50 To 100, Deduct		-7.56	
		For >100 To 250, Deduct		-12.87	
		For >250 To 500, Deduct		-21.21	
		For >500, Deduct		-29.55	
26 51 19 00-0625	EA	19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30)	.....	233.86	59.68
		For >50 To 100, Deduct		-8.11	
		For >100 To 250, Deduct		-13.95	
		For >250 To 500, Deduct		-23.39	
		For >500, Deduct		-32.82	
26 51 19 00-0626	EA	19" Diameter, 3,820 Lumens, 32 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12H19-35)	.....	226.78	59.68
		For >50 To 100, Deduct		-7.93	
		For >100 To 250, Deduct		-13.60	
		For >250 To 500, Deduct		-22.68	
		For >500, Deduct		-31.76	
26 51 19 00-0627	EA	19" Diameter, 4,240 Lumens, 32 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X12S19-35)	.....	226.83	59.68
		For >50 To 100, Deduct		-7.93	
		For >100 To 250, Deduct		-13.60	
		For >250 To 500, Deduct		-22.68	
		For >500, Deduct		-31.76	
26 51 19 00-0628	EA	19" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-40)	.....	190.46	59.68
		For >50 To 100, Deduct		-7.02	
		For >100 To 250, Deduct		-11.78	
		For >250 To 500, Deduct		-19.05	
		For >500, Deduct		-26.31	
26 51 19 00-0629	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35)	.....	204.73	59.68
		For >50 To 100, Deduct		-7.38	
		For >100 To 250, Deduct		-12.50	
		For >250 To 500, Deduct		-20.47	
		For >500, Deduct		-28.45	
26 51 19 00-0630	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35)	.....	201.25	59.68
		For >50 To 100, Deduct		-7.29	
		For >100 To 250, Deduct		-12.32	
		For >250 To 500, Deduct		-20.13	
		For >500, Deduct		-27.93	
26 51 19 00-0631	EA	19" Diameter, 2,000 Lumens, 18 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-40)	.....	201.19	59.68
		For >50 To 100, Deduct		-7.29	
		For >100 To 250, Deduct		-12.32	
		For >250 To 500, Deduct		-20.12	
		For >500, Deduct		-27.92	
26 51 19 00-0632	EA	19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30)	.....	217.30	59.68
		For >50 To 100, Deduct		-7.69	
		For >100 To 250, Deduct		-13.13	
		For >250 To 500, Deduct		-21.73	
		For >500, Deduct		-30.33	
26 51 19 00-0633	EA	19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30)	.....	212.10	59.68
		For >50 To 100, Deduct		-7.56	
		For >100 To 250, Deduct		-12.87	
		For >250 To 500, Deduct		-21.21	
		For >500, Deduct		-29.55	
26 51 19 00-0634	EA	19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30)	.....	233.86	59.68
		For >50 To 100, Deduct		-8.11	
		For >100 To 250, Deduct		-13.95	
		For >250 To 500, Deduct		-23.39	
		For >500, Deduct		-32.82	
26 51 19 00-0635	EA	19" Diameter, 4,000 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-40)	.....	226.78	59.68
		For >50 To 100, Deduct		-7.93	
		For >100 To 250, Deduct		-13.60	
		For >250 To 500, Deduct		-22.68	
		For >500, Deduct		-31.76	
26 51 19 00-0636	EA	19" Diameter, 4,400 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-40)	.....	226.83	59.68
		For >50 To 100, Deduct		-7.93	
		For >100 To 250, Deduct		-13.60	
		For >250 To 500, Deduct		-22.68	
		For >500, Deduct		-31.76	
26 51 19 00-0637	EA	19" Diameter, 1,120 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-50)	.....	190.46	59.68
		For >50 To 100, Deduct		-7.02	
		For >100 To 250, Deduct		-11.78	
		For >250 To 500, Deduct		-19.05	
		For >500, Deduct		-26.31	



Electrical			26
Lighting			26 50
Interior Lighting			26 51

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0638	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35).....	204.73	59.68	
		For >50 To 100, Deduct	-7.38		
		For >100 To 250, Deduct	-12.50		
		For >250 To 500, Deduct	-20.47		
		For >500, Deduct	-28.45		
26 51 19 00-0639	EA	19" Diameter, 2,240 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12S19-50).....	201.25	59.68	
		For >50 To 100, Deduct	-7.29		
		For >100 To 250, Deduct	-12.32		
		For >250 To 500, Deduct	-20.13		
		For >500, Deduct	-27.93		
26 51 19 00-0640	EA	19" Diameter, 2,010 Lumens, 18 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-50).....	201.19	59.68	
		For >50 To 100, Deduct	-7.29		
		For >100 To 250, Deduct	-12.32		
		For >250 To 500, Deduct	-20.12		
		For >500, Deduct	-27.92		
26 51 19 00-0641	EA	19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30).....	217.30	59.68	
		For >50 To 100, Deduct	-7.69		
		For >100 To 250, Deduct	-13.13		
		For >250 To 500, Deduct	-21.73		
		For >500, Deduct	-30.33		
26 51 19 00-0642	EA	19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30).....	212.10	59.68	
		For >50 To 100, Deduct	-7.56		
		For >100 To 250, Deduct	-12.87		
		For >250 To 500, Deduct	-21.21		
		For >500, Deduct	-29.55		
26 51 19 00-0643	EA	19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30).....	233.86	59.68	
		For >50 To 100, Deduct	-8.11		
		For >100 To 250, Deduct	-13.95		
		For >250 To 500, Deduct	-23.39		
		For >500, Deduct	-32.82		
26 51 19 00-0644	EA	19" Diameter, 4,020 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-50).....	226.78	59.68	
		For >50 To 100, Deduct	-7.93		
		For >100 To 250, Deduct	-13.60		
		For >250 To 500, Deduct	-22.68		
		For >500, Deduct	-31.76		
26 51 19 00-0645	EA	19" Diameter, 4,480 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-50).....	226.83	59.68	
		For >50 To 100, Deduct	-7.93		
		For >100 To 250, Deduct	-13.60		
		For >250 To 500, Deduct	-22.68		
		For >500, Deduct	-31.76		
26 51 19 00-0646	Ceiling Mounted, LED Mushroom Fixtures (Mobern) (26 51 19 00-0572)				
26 51 19 00-0647	EA	14" Diameter, 800 Lumens, 12 Watt, LED Ceiling Fixture (Mobern 6814LED12MV30).....	205.51	55.28	
		For >50 To 100, Deduct	-7.21		
		For >100 To 250, Deduct	-12.35		
		For >250 To 500, Deduct	-20.55		
		For >500, Deduct	-28.75		
26 51 19 00-0648	Ceiling Mounted, LED Fixtures (Sylvania) (26 51 19 00-0572)				
26 51 19 00-0649	EA	12.5" x 12.5" x 2.32" Deep, 4,200 Lumens, 35 Watt, LED Garage Light Fixture (Sylvania GARAG1/035UNVD740/G5/SV/D).....	751.21	59.68	
		For >50 To 100, Deduct	-21.04		
		For >100 To 250, Deduct	-39.82		
		For >250 To 500, Deduct	-75.12		
		For >500, Deduct	-110.42		
26 51 19 00-0650	EA	2' x 2', 32 Watt, 120-277 Volt, 4000K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD840/22G/WH + SMK1T1A/24A/WH).....	291.64	50.26	
		For >50 To 100, Deduct	-9.18		
		For >100 To 250, Deduct	-16.47		
		For >250 To 500, Deduct	-29.16		
		For >500, Deduct	-41.86		
26 51 19 00-0651	EA	2' x 4', 32 Watt, 120-277 Volt, 3500K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD835/24G/WH + SMK1T1A/24A/WH).....	362.68	58.55	
		For >50 To 100, Deduct	-11.27		
		For >100 To 250, Deduct	-20.33		
		For >250 To 500, Deduct	-36.27		
		For >500, Deduct	-52.20		
26 51 19 00-0652	EA	2' x 4', 32 Watt, 120-277 Volt, 4000K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD840/24G/WH + SMK1T1A/24A/WH).....	366.87	58.55	
		For >50 To 100, Deduct	-11.37		
		For >100 To 250, Deduct	-20.54		
		For >250 To 500, Deduct	-36.69		
		For >500, Deduct	-52.83		
26 51 19 00-0653	Refrigeration/Display LED Fixtures (26 51 19 00-0001)				
26 51 19 00-0654	Refrigeration/Display LED Fixtures (Lithonia) (26 51 19 00-0653)				
	Note: Fixtures exclude driver.				
26 51 19 00-0655	EA	5' Length, Center Mount, Refrigeration/Display, Vertical LED Fixture (Lithonia FSV5 CM).....	325.23	58.55	
		For >50 To 100, Deduct	-10.33		
		For >100 To 250, Deduct	-18.46		
		For >250 To 500, Deduct	-32.52		
		For >500, Deduct	-46.59		

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0656	EA		5' Length, Left And Right Mount (Pair), Refrigeration/Display, Vertical LED Fixture (Lithonia FSVDRVL RLEM DLC).....	425.02	103.66
			For >50 To 100, Deduct	-14.55	
			For >100 To 250, Deduct	-25.18	
			For >250 To 500, Deduct	-42.50	
			For >500, Deduct	-59.83	
26 51 19 00-0657	EA		Up To 5 Door Configuration, LED Driver For Refrigeration/Display, Vertical LED Fixtures (Lithonia FSVDRVL)	392.26	82.94
			For >50 To 100, Deduct	-12.95	
			For >100 To 250, Deduct	-22.75	
			For >250 To 500, Deduct	-39.23	
			For >500, Deduct	-55.70	
26 51 19 00-0658			Wall Washers LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0659			LED Wall Washers (GE Lumination™ LW Series) (26 51 19 00-0658)		
26 51 19 00-0660	EA		4' Length, 5 Watt, 30° x 80° Lens, LED Wall Washer Light Fixture (GE Lumination™ LW Series).....	692.74	75.39
			For >50 To 100, Deduct	-20.46	
			For >100 To 250, Deduct	-37.78	
			For >250 To 500, Deduct	-69.27	
			For >500, Deduct	-100.77	
26 51 19 00-0661	EA		4' Length, 8 Watt, 30° x 80° Lens, LED Wall Washer Light Fixture (GE Lumination™ LW Series).....	880.41	75.39
			For >50 To 100, Deduct	-25.15	
			For >100 To 250, Deduct	-47.16	
			For >250 To 500, Deduct	-88.04	
			For >500, Deduct	-128.92	
26 51 19 00-0662	EA		8' Length, 5 Watt, 30° x 80° Lens, LED Wall Washer Light Fixture (GE Lumination™ LW Series).....	1,291.25	94.24
			For >50 To 100, Deduct	-36.21	
			For >100 To 250, Deduct	-68.49	
			For >250 To 500, Deduct	-129.13	
			For >500, Deduct	-189.76	
26 51 19 00-0663	EA		8' Length, 8 Watt, 30° x 80° Lens, LED Wall Washer Light Fixture (GE Lumination™ LW Series).....	1,666.58	94.24
			For >50 To 100, Deduct	-45.59	
			For >100 To 250, Deduct	-87.26	
			For >250 To 500, Deduct	-166.66	
			For >500, Deduct	-246.06	
26 51 19 00-0664	EA		120" Leader Cable (GE LLWB-LC2-120).....	156.26	6.87
			For >50 To 100, Deduct	-4.59	
			For >100 To 250, Deduct	-8.50	
			For >250 To 500, Deduct	-15.63	
			For >500, Deduct	-22.75	
26 51 19 00-0665	EA		48" Jumper Cable (GE LLWB-JC2-48)	158.87	6.87
			For >50 To 100, Deduct	-4.66	
			For >100 To 250, Deduct	-8.63	
			For >250 To 500, Deduct	-15.89	
			For >500, Deduct	-23.14	
26 51 19 00-0666	EA		10 Pack, 48" Mounting Track (GE LWW1-MT48/0)	105.60	38.51
			For >50 To 100, Deduct	-4.15	
			For >100 To 250, Deduct	-6.79	
			For >250 To 500, Deduct	-10.56	
			For >500, Deduct	-14.33	
26 51 19 00-0667			Linear LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0668			Wet Location, Linear LED Fixtures (Cree WS4) (26 51 19 00-0667)		
26 51 19 00-0669	EA		4' Length, 4,700 Lumens, 50 Watt, Wet Location, Linear LED Fixture (Cree WS4).....	607.85	75.39
			For >50 To 100, Deduct	-18.34	
			For >100 To 250, Deduct	-33.53	
			For >250 To 500, Deduct	-60.79	
			For >500, Deduct	-88.04	
26 51 19 00-0670	EA		4' Length, 5,000 Lumens, 51 Watt, Wet Location, Linear LED Fixture (Cree WS4).....	657.37	75.39
			For >50 To 100, Deduct	-19.58	
			For >100 To 250, Deduct	-36.01	
			For >250 To 500, Deduct	-65.74	
			For >500, Deduct	-95.46	
26 51 19 00-0671	EA		4' Length, 5,900 Lumens, 63 Watt, Wet Location, Linear LED Fixture (Cree WS4).....	686.05	75.39
			For >50 To 100, Deduct	-20.29	
			For >100 To 250, Deduct	-37.44	
			For >250 To 500, Deduct	-68.61	
			For >500, Deduct	-99.77	
26 51 19 00-0672	EA		4' Length, 6,300 Lumens, 64 Watt, Wet Location, Linear LED Fixture (Cree WS4).....	686.05	75.39
			For >50 To 100, Deduct	-20.29	
			For >100 To 250, Deduct	-37.44	
			For >250 To 500, Deduct	-68.61	
			For >500, Deduct	-99.77	
26 51 19 00-0673			Pendant Mount, LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0674			Pendant Mount, Circular Architectural LED Fixtures (Delray Lighting) (26 51 19 00-0673)		



Electrical		26	26
Lighting		26 50	
Interior Lighting		26 51	

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST
26 51 19 00-0675	EA	2,166 Lumens, 2' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC2 W W35 S).....	2,757.56		128.17
		For >50 To 100, Deduct	-74.28		
		For >100 To 250, Deduct	-143.22		
		For >250 To 500, Deduct	-275.76		
		For >500, Deduct	-408.29		
26 51 19 00-0676	EA	3,250 Lumens, 3' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC3 W W35 S).....	4,160.94		135.70
		For >50 To 100, Deduct	-109.68		
		For >100 To 250, Deduct	-213.70		
		For >250 To 500, Deduct	-416.09		
		For >500, Deduct	-618.49		
26 51 19 00-0677	EA	4,333 Lumens, 4' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC4 W W35 S).....	5,312.02		143.25
		For >50 To 100, Deduct	-138.77		
		For >100 To 250, Deduct	-271.57		
		For >250 To 500, Deduct	-531.20		
		For >500, Deduct	-790.83		
26 51 19 00-0678	EA	5,416 Lumens, 5' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC5 W W35 S).....	6,715.41		150.79
		For >50 To 100, Deduct	-174.17		
		For >100 To 250, Deduct	-342.05		
		For >250 To 500, Deduct	-671.54		
		For >500, Deduct	-1,001.03		
26 51 19 00-0679	EA	2,166 Lumens, 2' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC2 S W35 S).....	2,924.37		128.17
		For >50 To 100, Deduct	-78.45		
		For >100 To 250, Deduct	-151.56		
		For >250 To 500, Deduct	-292.44		
		For >500, Deduct	-433.32		
26 51 19 00-0680	EA	3,250 Lumens, 3' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC3 S W35 S).....	4,381.97		135.70
		For >50 To 100, Deduct	-115.20		
		For >100 To 250, Deduct	-224.75		
		For >250 To 500, Deduct	-438.20		
		For >500, Deduct	-651.64		
26 51 19 00-0681	EA	4,333 Lumens, 4' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC4 S W35 S).....	5,535.14		143.25
		For >50 To 100, Deduct	-144.35		
		For >100 To 250, Deduct	-282.73		
		For >250 To 500, Deduct	-553.51		
		For >500, Deduct	-824.30		
26 51 19 00-0682	EA	5,416 Lumens, 5' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC5 S W35 S).....	6,965.64		150.79
		For >50 To 100, Deduct	-180.42		
		For >100 To 250, Deduct	-354.56		
		For >250 To 500, Deduct	-696.56		
		For >500, Deduct	-1,038.56		
26 51 19 00-0683		Pendant Mount, LED Commercial Fixtures (DMF) (26 51 19 00-0673)			
26 51 19 00-0684	EA	3,000 Lumens, 18-1/4" Diameter, Pendant Mount, LED Commercial Fixture (DMF DP610LED).....	1,070.24		75.39
		For >50 To 100, Deduct	-29.90		
		For >100 To 250, Deduct	-56.65		
		For >250 To 500, Deduct	-107.02		
		For >500, Deduct	-157.39		
26 51 19 00-0685		LED Track Lighting (26 51 19 00-0001)			
26 51 19 00-0686		LED Track Lighting Fixtures (26 51 19 00-0685)			
26 51 19 00-0687	EA	19 Watt, Dimmable, LED Track Lighting Fixture (Juno® TRAC-MASTER® Cylindra™).....	233.07		22.96
		For >50 To 100, Deduct	-6.69		
		For >100 To 250, Deduct	-12.51		
		For >250 To 500, Deduct	-23.31		
		For >500, Deduct	-34.10		
26 51 19 00-0688	EA	18 Watt, Dimmable, LED Track Lighting Fixture (HALO® Stasis L805MED).....	406.10		22.96
		For >50 To 100, Deduct	-11.01		
		For >100 To 250, Deduct	-21.16		
		For >250 To 500, Deduct	-40.61		
		For >500, Deduct	-60.06		
26 51 19 00-0689	EA	24 Watt, Dimmable, LED Track Lighting Fixture (Amerlux CNTRV33).....	239.64		22.96
		For >50 To 100, Deduct	-6.85		
		For >100 To 250, Deduct	-12.84		
		For >250 To 500, Deduct	-23.96		
		For >500, Deduct	-35.09		
26 51 19 00-0690		Track Lighting Tracks (26 51 19 00-0685)			
26 51 19 00-0691	LF	1 Circuit Track Lighting Track.....	28.20		9.08
		For >50 To 100, Deduct	-1.01		
		For >100 To 250, Deduct	-1.72		
		For >250 To 500, Deduct	-2.82		
		For >500, Deduct	-3.92		

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0692	LF	2 Circuit Track Lighting Track	36.53	9.08
		For >50 To 100, Deduct	-1.26	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-3.65	
		For >500, Deduct	-5.14	
26 51 19 00-0693	LF	3 Circuit Track Lighting Track	43.64	9.08
		For >50 To 100, Deduct	-1.47	
		For >100 To 250, Deduct	-2.56	
		For >250 To 500, Deduct	-4.36	
		For >500, Deduct	-6.17	
26 51 19 00-0694	LF	4 Circuit Track Lighting Track	50.75	11.00
		For >50 To 100, Deduct	-1.68	
		For >100 To 250, Deduct	-2.95	
		For >250 To 500, Deduct	-5.08	
		For >500, Deduct	-7.20	
26 51 19 00-0695		Track Lighting Accessories (26 51 19 00-0685)		
26 51 19 00-0696		Pendant Mounting (26 51 19 00-0695)		
26 51 19 00-0697	EA	Track Lighting Pendant Mounting, Up to 12"	29.54	
		For >50 To 100, Deduct	-1.25	
		For >100 To 250, Deduct	-1.99	
		For >250 To 500, Deduct	-2.95	
		For >500, Deduct	-3.92	
26 51 19 00-0698	EA	Track Lighting Pendant Mounting, >12" To 24"	37.34	
		For >50 To 100, Deduct	-1.52	
		For >100 To 250, Deduct	-2.45	
		For >250 To 500, Deduct	-3.73	
		For >500, Deduct	-5.02	
26 51 19 00-0699	EA	Track Lighting Pendant Mounting, >24" To 36"	45.32	
		For >50 To 100, Deduct	-1.82	
		For >100 To 250, Deduct	-2.95	
		For >250 To 500, Deduct	-4.53	
		For >500, Deduct	-6.11	
26 51 23		HID Interior Lighting (26 51)		
26 51 23 00-0001		Large Interior Area Fixtures (26 51 23)		
26 51 23 00-0002		Recessed Mounted, Large Interior Area Fixtures (26 51 23 00-0001)		
		Note: Cast aluminum socket housing, anodized aluminum reflector, tempered glass or acrylic lens, plaster mounting frames and brackets.		
26 51 23 00-0003		High Pressure Sodium, Recessed Mounted, Large Interior Area Fixtures (26 51 23 00-0002)		
26 51 23 00-0004	EA	150 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture	509.11	146.61
		For Wire Guard, Add	40.50	
		For Instant Quartz Restrike, Add	60.00	
26 51 23 00-0005	EA	250 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture	530.60	155.68
		For Wire Guard, Add	40.50	
		For Instant Quartz Restrike, Add	60.00	
26 51 23 00-0006	EA	400 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture	557.27	177.69
		For Wire Guard, Add	40.50	
		For Instant Quartz Restrike, Add	60.00	
26 51 23 00-0007		Metal Halide, Recessed Mounted, Large Interior Area Fixtures (26 51 23 00-0002)		
26 51 23 00-0008	EA	150 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture	518.38	146.61
		For Wire Guard, Add	40.50	
		For Instant Quartz Restrike, Add	60.00	
26 51 23 00-0009	EA	250 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture	534.51	155.68
		For Wire Guard, Add	40.50	
		For Instant Quartz Restrike, Add	60.00	
26 51 23 00-0010	EA	400 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture	570.62	177.69
		For Wire Guard, Add	40.50	
		For Instant Quartz Restrike, Add	60.00	
26 51 23 00-0011		Low Bay Fixtures, Large Interior Area Fixtures (26 51 23 00-0001)		
		Note: Heavy-duty steel housing, aluminum reflector, tempered glass or acrylic lens. Low bay fixtures are for mounting below 20-25 feet.		
26 51 23 00-0012		High Pressure Sodium, Low Bay Fixtures (26 51 23 00-0011)		
26 51 23 00-0013	EA	150 Watt High Pressure Sodium, Low Bay Fixture	535.10	133.95
		For Wire Guard, Add	40.50	
		For Enclosed And Gasketed, Add	75.47	
		For Instant Quartz Restrike, Add	60.00	
		For Glass Or Acrylic Reflector, Add	90.00	
26 51 23 00-0014	EA	250 Watt High Pressure Sodium, Low Bay Fixture	549.73	142.24
		For Wire Guard, Add	40.50	
		For Enclosed And Gasketed, Add	75.47	
		For Instant Quartz Restrike, Add	60.00	
		For Glass Or Acrylic Reflector, Add	90.00	



Electrical			26
Lighting			26 50
Interior Lighting			26 51

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0015	EA		400 Watt High Pressure Sodium, Low Bay Fixture	582.30	162.34
			For Wire Guard, Add	40.50	
			For Enclosed And Gasketed, Add	75.47	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
26 51 23 00-0016			Metal Halide, Low Bay Fixtures (26 51 23 00-0011)		
26 51 23 00-0017	EA		175 Watt Metal Halide, Low Bay Fixture	529.80	133.95
			For Wire Guard, Add	40.50	
			For Enclosed And Gasketed, Add	75.47	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
26 51 23 00-0018	EA		250 Watt Metal Halide, Low Bay Fixture	543.61	142.24
			For Wire Guard, Add	40.50	
			For Enclosed And Gasketed, Add	75.47	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
26 51 23 00-0019	EA		400 Watt Metal Halide, Low Bay Fixture	587.30	162.34
			For Wire Guard, Add	40.50	
			For Enclosed And Gasketed, Add	75.47	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
26 51 23 00-0020			High Bay Fixtures, Large Interior Area Fixtures (26 51 23 00-0001)		
			Note: High bay fixtures are for mounting above 20-25 feet. See CSI section 01 22 23 00-0001 for lifts.		
26 51 23 00-0021			High Pressure Sodium, High Bay Fixtures (26 51 23 00-0020)		
			Note: Includes heavy-duty steel housing and aluminum reflector. Excludes lens.		
26 51 23 00-0022	EA		250 Watt High Pressure Sodium, High Bay Fixture	490.84	142.24
			For Wire Guard, Add	40.50	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
			For Tempered Glass Or Acrylic Lens, Add	60.50	
			For Polycarbonate Lens, Add	47.75	
			For Security Chain, Add	19.34	
			For Optical Safety Chain, Add	7.47	
			For Ballast Safety Chain, Add	12.13	
26 51 23 00-0023	EA		400 Watt High Pressure Sodium, High Bay Fixture	529.62	162.34
			For Wire Guard, Add	40.50	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
			For Tempered Glass Or Acrylic Lens, Add	60.50	
			For Polycarbonate Lens, Add	47.75	
			For Security Chain, Add	19.34	
			For Optical Safety Chain, Add	7.47	
			For Ballast Safety Chain, Add	12.13	
26 51 23 00-0024	EA		1,000 Watt High Pressure Sodium, High Bay Fixture	776.34	170.76
			For Wire Guard, Add	40.50	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
			For Tempered Glass Or Acrylic Lens, Add	60.50	
			For Polycarbonate Lens, Add	47.75	
			For Security Chain, Add	19.34	
			For Optical Safety Chain, Add	7.47	
			For Ballast Safety Chain, Add	12.13	
26 51 23 00-0025			Metal Halide, High Bay Fixtures (26 51 23 00-0020)		
			Note: Includes heavy-duty steel housing and aluminum reflector. Excludes lens.		
26 51 23 00-0026	EA		250 Watt Metal Halide, High Bay Fixture	457.05	142.24
			For Wire Guard, Add	40.50	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
			For Tempered Glass Or Acrylic Lens, Add	60.50	
			For Polycarbonate Lens, Add	47.75	
			For Security Chain, Add	19.34	
			For Optical Safety Chain, Add	7.47	
			For Ballast Safety Chain, Add	12.13	
26 51 23 00-0027	EA		400 Watt Metal Halide, High Bay Fixture	500.50	162.34
			For Wire Guard, Add	40.50	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
			For Tempered Glass Or Acrylic Lens, Add	60.50	
			For Polycarbonate Lens, Add	47.75	
			For Security Chain, Add	19.34	
			For Optical Safety Chain, Add	7.47	
			For Ballast Safety Chain, Add	12.13	

26 Electrical
26 50 Lighting
26 51 Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0028 EA 1,000 Watt Metal Halide, High Bay Fixture 658.27		170.76
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0029 Induction, High Bay Fixtures (26 51 23 00-0020)		
26 51 23 00-0030 Induction, High Bay Fixtures (Everlast®) (26 51 23 00-0029)		
Note: Includes die cast aluminum ballast casing and acrylic lens.		
26 51 23 00-0031 EA 100 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) 557.88		124.40
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0032 EA 120 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) 598.38		128.55
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0033 EA 150 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) 609.38		132.69
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0034 EA 200 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) 664.02		136.84
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0035 EA 250 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) 680.93		140.99
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0036 EA 100 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) 599.17		124.40
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0037 EA 120 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) 639.67		128.55
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0038 EA 150 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) 650.67		132.69
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0039 EA 200 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) 705.31		136.84
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0040 EA 250 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) 722.22		140.99
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0041 Ceiling Mounted, Large Interior Area Fixtures (26 51 23 00-0001)		
Note: Heavy-duty aluminum housing, aluminum reflector, acrylic drop dish lens, fully gasketed.		
26 51 23 00-0042 High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixtures (26 51 23 00-0041)		
26 51 23 00-0043 EA 100 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture 419.04		95.31
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0044 EA 150 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture 720.50		95.31
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0045 EA 250 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture 827.59		95.31
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0046 EA 400 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture 1,106.06		95.31
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0047 Metal Halide, Ceiling Mounted, Large Interior Area Fixtures (26 51 23 00-0041)		
26 51 23 00-0048 EA 100 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture 334.13		95.31
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0049 EA 175 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture 351.97		105.76
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0050 EA 250 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture 374.63		114.56
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0051 EA 400 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture 421.59		136.43
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0052 High Pressure Sodium, Recessed Fixture Housings (26 51 23)		
26 51 23 00-0053 EA 4" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing 174.34		39.61
For ICAT Housing, Add	14.86	
26 51 23 00-0054 EA 5" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing 182.03		39.61
For ICAT Housing, Add	15.85	



Electrical		26	26
Lighting		26 50	
Interior Lighting		26 51	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0055	EA	6" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	191.19 16.68	41.26
26 51 23 00-0056	EA	7" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	198.13 17.22	43.04
26 51 23 00-0057	EA	8" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	205.01 17.75	44.84
26 51 23 00-0058	EA	10" To 12" Square, High Pressure Sodium, T Or ICT Recessed Fixture Housing <i>For ICAT Housing, Add</i>	211.18 18.02	47.58
26 51 23 00-0059		Metal Halide Track Lighting Fixtures (26 51 23)		
26 51 23 00-0060	EA	Metal Halide Track Lighting Fixture	113.24	22.96
26 51 23 00-0061		Metal Halide, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 23)		
26 51 23 00-0062	EA	75 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture <i>For Wall Mounted, Add</i>	183.99 6.30	55.01
26 51 23 00-0063	EA	100 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture <i>For Wall Mounted, Add</i>	189.19 6.30	55.01
26 51 23 00-0064	EA	150 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture <i>For Wall Mounted, Add</i>	199.73 6.30	55.01
26 51 23 00-0065	EA	175 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture <i>For Wall Mounted, Add</i>	215.58 6.30	55.01
26 51 23 00-0066		High Pressure Sodium, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 23)		
26 51 23 00-0067	EA	70 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture <i>For Wall Mounted, Add</i>	171.64 6.67	55.01
26 51 23 00-0068	EA	100 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture <i>For Wall Mounted, Add</i>	178.09 6.67	55.01
26 51 23 00-0069	EA	150 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture <i>For Wall Mounted, Add</i>	203.01 6.67	55.01
26 51 33		Interior Lighting Accessories (26 51)		
26 51 33 00-0001		Accessories And Modifiers For Fixtures (26 51 33)		
26 51 33 00-0002		Lens Modifications (26 51 33 00-0001)		
26 51 33 00-0003	EA	For 1' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	39.80	
26 51 33 00-0004	EA	For 1' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	49.17	
26 51 33 00-0005	EA	For 2' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	51.51	
26 51 33 00-0006	EA	For 2' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	56.19	
26 51 33 00-0007	EA	For 4' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	67.89	
26 51 33 00-0008	EA	For 1' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	16.39	
26 51 33 00-0009	EA	For 1' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	23.41	
26 51 33 00-0010	EA	For 2' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	25.75	
26 51 33 00-0011	EA	For 2' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	30.44	
26 51 33 00-0012		Pendant Mounting Modifications (26 51 33 00-0001) Note: Per pendant. Use demolition cost for associated light fixture for demolition of pendant mounted light fixture assembly.		
26 51 33 00-0013	EA	For Pendant Mounting Up to 1'-6" Long Section..... Note: Per pendant.	17.79	
26 51 33 00-0014	EA	For Pendant Mounting 2' Long Section..... Note: Per pendant.	20.60	
26 51 33 00-0015	EA	For Pendant Mounting 3' Long Section..... Note: Per pendant.	26.36	
26 51 33 00-0016	EA	For Pendant Mounting 4' Long Section..... Note: Per pendant.	31.14	
26 51 33 00-0017	EA	For Pendant Mounting 6' Long Section..... Note: Per pendant.	39.33	
26 51 33 00-0018	EA	For Pendant Mounting 8' Long Section..... Note: Per pendant.	53.38	
26 51 33 00-0019		Fluorescent Light Accessories (26 51 33 00-0001)		
26 51 33 00-0020	EA	Blank Metal Light Box Plate.....	31.61	
26 51 33 00-0021	EA	Factory Installed Fixture Mounted Occupancy Sensor	180.25	
26 51 33 00-0022		Wire Guards (26 51 33 00-0001)		
26 51 33 00-0023	EA	Wire Guard for 6" x 2' Fixture.....	76.37	6.88
26 51 33 00-0024	EA	Wire Guard for 6" x 4' Fixture.....	107.15	11.02
26 51 33 00-0025	EA	Wire Guard for 1" x 2' Fixture.....	85.25	7.58
26 51 33 00-0026	EA	Wire Guard for 1" x 4' Fixture.....	121.05	11.71
26 51 33 00-0027	EA	Wire Guard for 2" x 2' Fixture.....	104.15	8.27

26 Electrical
26 50 Lighting
26 51 Interior Lighting



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 33 00-0028	EA	Wire Guard for 2" x 4' Fixture.....		142.45	12.39
26 51 33 00-0029		Lighting Accessories (26 51 33)			
26 51 33 00-0030		Modular Flexible Wiring Systems (26 51 33 00-0029)			
26 51 33 00-0031	EA	10' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-10)	110.38	7.42	
26 51 33 00-0032	EA	15' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-15)	130.29	7.42	
26 51 33 00-0033	EA	20' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-20)	157.52	7.42	
26 51 33 00-0034	EA	15' Length, 2-Circuit, Modular Lighting Cable (Day-Brite LC-27-2E-15)	130.29	7.42	
26 51 33 00-0035	EA	3 Out, 3-Circuit, Modular Lighting Interface (Day-Brite LI-27-3E)	109.16	7.42	
26 51 33 00-0036	EA	13' Length, 2-Circuit, Modular Reddy-Connect Cable (Day-Brite RC-27-2D-13)	163.99	7.42	
26 51 33 00-0037	EA	3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-7M)	89.21	7.42	
26 51 33 00-0038	EA	3" Length, 2-Circuit, Modular Lighting Tap (Day-Brite LT-27-2E).....	101.34	7.42	
26 51 33 00-0039	EA	7' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-07).....	131.80	7.42	
26 51 33 00-0040	EA	7' Length, 1-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-ML-07)	131.80	7.42	
26 51 33 00-0041	EA	7' Length, 2-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-2C-07).....	134.09	7.42	
26 51 33 00-0042	EA	7' Length, 1st 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3A-07)	133.24	7.42	
26 51 33 00-0043	EA	7' Length, 2nd 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3B-07)	133.24	7.42	
26 51 33 00-0044	EA	15' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-15)	153.65	7.42	
26 51 33 00-0045	EA	3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-4D).....	68.74	7.42	
26 51 33 00-0046	EA	3" Length, 1-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-1E)	63.98	7.42	
26 51 33 00-0047	EA	3" Length, 2-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-2E)	65.64	7.42	
26 51 33 00-0048	EA	3" Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E).....	83.30	7.42	
26 51 33 00-0049	EA	15' Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E-15)	110.38	7.42	
26 51 33 00-0050	EA	15' Length, 1-Circuit, Modular Lighting Cable (Day-Brite LC-27-1E-15)	113.25	7.42	
26 51 33 00-0051	EA	Modular Lighting Junction Or Circuit Splitter (Day-Brite LJ-27-3E).....	87.69	7.42	
26 51 33 00-0052	EA	3" Length, 1-Circuit, Modular Power Distribution Cable (Day-Brite PD-12-1E).....	63.98	7.42	
26 51 33 00-0053	EA	Removal And Reinstallation Of Modular Wiring Complete Including Storage And Cleaning.....	61.88		
26 51 33 00-0054		Additional Lighting Wire Whips (26 51 33)			
26 51 33 00-0055	LF	For Each Additional LF Of Interior Lighting Wire Whip, Add	1.95		
Note: Wire whips are included with interior lighting fixtures, where necessary, up to six feet in length. Use this task for additional required whip length. For example, if the fixture requires a 15' wire whip then use 9 LF of this task to reach required length.					
26 51 33 00-0056		Removal And Reinstallation Of Light Fixtures (26 51 33)			
Note: Includes disconnection of wire, on-site storage, general cleaning, installation and electrical wire hook-up.					
26 51 33 00-0057	EA	Removal And Reinstallation Of Lay-In Fluorescent Light Fixture	146.39		
26 51 33 00-0058	EA	Removal And Reinstallation Of Surface Mounted Or Pendant Light Fixture	167.30		
26 52 Safety Lighting (26 50)					
26 52 13 Emergency and Exit Lighting (26 52)					
26 52 13 13 Emergency Lighting (26 52 13)					
26 52 13 13-0001		Commercial Emergency Lights (26 52 13 13)			
26 52 13 13-0002		Polycarbonate Housing, Commercial Emergency Lights (26 52 13 13-0001)			
Note: Includes lead-calcium batteries and two adjustable lamp heads.					
26 52 13 13-0003	EA	3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED)	265.17	34.38	
26 52 13 13-0004	EA	10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2)	182.62	34.38	
For Halogen Lamps, Add				27.55	
For Self-Diagnostics, Add				87.50	
26 52 13 13-0005	EA	18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618)	290.65	34.38	
For Halogen Lamps, Add				27.55	
For Self-Diagnostics, Add				87.50	
26 52 13 13-0006	EA	27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627)	339.56	34.38	
For Halogen Lamps, Add				27.55	
For Self-Diagnostics, Add				87.50	
26 52 13 13-0007	EA	54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654)	507.62	34.38	
For Halogen Lamps, Add				27.55	
For Self-Diagnostics, Add				87.50	
26 52 13 13-0008	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254).....	575.85	34.38	
For Halogen Lamps, Add				27.55	
For Self-Diagnostics, Add				87.50	
26 52 13 13-0009	EA	72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272).....	841.65	34.38	
For Halogen Lamps, Add				27.55	
For Self-Diagnostics, Add				87.50	
26 52 13 13-0010		Remote Heads For Commercial Emergency Lights (26 52 13 13-0001)			
Note: For use with fixtures that have remote capability.					



Electrical		26	26
Lighting		26 50	
Safety Lighting		26 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0011 EA 6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606).....	179.64	20.63
26 52 13 13-0012 EA 6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606).....	180.87	20.63
26 52 13 13-0013 EA 8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806).....	185.00	20.63
26 52 13 13-0014 EA 12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212).....	184.33	20.63
26 52 13 13-0015 EA 12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212).....	158.99	20.63
26 52 13 13-0016 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	108.69	20.63
26 52 13 13-0017 Industrial Emergency Lights (26 52 13 13)		
26 52 13 13-0018 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0017)		
26 52 13 13-0019 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0018) Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0020 EA 16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16).....	470.50	34.38
For Wireguard, Add	241.72	
26 52 13 13-0021 EA 24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24).....	394.17	34.38
For Wireguard, Add	241.72	
26 52 13 13-0022 EA 36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36).....	617.25	34.38
For Wireguard, Add	241.72	
26 52 13 13-0023 EA 50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50).....	655.75	34.38
For Wireguard, Add	241.72	
26 52 13 13-0024 EA 125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125).....	938.09	34.38
For Wireguard, Add	257.45	
26 52 13 13-0025 EA 275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275).....	1,478.21	34.38
For Wireguard, Add	257.45	
26 52 13 13-0026 Remote Heads For Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0018) Note: For use with fixtures that have remote capability.		
26 52 13 13-0027 EA 8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806).....	137.68	20.63
For Wireguard, Add	195.07	
26 52 13 13-0028 EA 12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	142.48	20.63
For Wireguard, Add	195.07	
26 52 13 13-0029 EA 8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812).....	138.35	20.63
For Wireguard, Add	195.07	
26 52 13 13-0030 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212).....	139.13	20.63
For Wireguard, Add	195.07	
26 52 13 13-0031 EA 12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....	142.48	20.63
For Wireguard, Add	195.07	
26 52 13 13-0032 EA 12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....	166.80	20.63
For Wireguard, Add	195.07	
26 52 13 13-0033 Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0017)		
26 52 13 13-0034 Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0033) Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0035 EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618).....	464.37	34.38
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0036 EA 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236).....	505.10	34.38
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0037 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654).....	493.94	34.38
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0038 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....	522.40	34.38
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0039 EA 100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....	882.85	34.38
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	105.50	

26 Electrical
26 50 Lighting
26 52 Safety Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0040	EA	18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618)	692.58	34.38
		<i>For Wireguard, Add</i>	235.02	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0041	EA	36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236)	776.28	34.38
		<i>For Wireguard, Add</i>	235.02	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0042	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254)	818.68	34.38
		<i>For Wireguard, Add</i>	235.02	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0043 Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0033)				
Note: For use with fixtures that have remote capability.				
26 52 13 13-0044	EA	9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906)	119.27	20.63
26 52 13 13-0045	EA	12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206)	128.97	20.63
26 52 13 13-0046	EA	9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912)	119.38	20.63
26 52 13 13-0047	EA	12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212)	126.52	20.63
26 52 13 13-0048	EA	12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012)	108.17	20.63
26 52 13 13-0049 Outdoor Emergency Lights (26 52 13 13)				
26 52 13 13-0050 Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights (26 52 13 13-0049)				
Note: Includes nickel-cadmium batteries.				
26 52 13 13-0051	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series)	733.31	34.38
26 52 13 13-0052	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series)	875.60	34.38
26 52 13 13-0053 Recessed Emergency Lights (26 52 13 13)				
26 52 13 13-0054	EA	10 Watt At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG)	799.43	34.38
		<i>For Wire Guard, Add</i>	60.00	
26 52 13 13-0055	EA	16 Max Wattage At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2)	628.80	68.76
		Note: Includes lead-calcium batteries and two adjustable lamp heads.		
		<i>For Wireguard, Add</i>	257.45	
26 52 13 13-0056	EA	50 Max Wattage At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4)	904.56	68.76
		Note: Includes lead-calcium batteries and two adjustable lamp heads.		
		<i>For Wireguard, Add</i>	257.45	
26 52 13 13-0057 Square Wraparound Emergency Lights (26 52 13 13)				
26 52 13 13-0058	EA	10 Max Wattage At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ)	364.50	34.38
26 52 13 16 Exit Signs (26 52 13)				
Note: Excludes pendants.				
26 52 13 16-0001 LED Exit Signs (26 52 13 16)				
Note: Includes red LED lamps.				
26 52 13 16-0002	EA	Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6)	213.39	50.27
		<i>For Green LED Lamps, Add</i>	15.00	
		<i>For >50 To 100, Deduct</i>	-7.85	
		<i>For >100 To 250, Deduct</i>	-13.18	
		<i>For >250 To 500, Deduct</i>	-21.34	
		<i>For >500, Deduct</i>	-29.50	
26 52 13 16-0003	EA	Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6)	213.39	50.27
		<i>For Green LED Lamps, Add</i>	15.00	
		<i>For >50 To 100, Deduct</i>	-7.85	
		<i>For >100 To 250, Deduct</i>	-13.18	
		<i>For >250 To 500, Deduct</i>	-21.34	
		<i>For >500, Deduct</i>	-29.50	
26 52 13 16-0004	EA	Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM-S-W-3-R-120/277-EL-N-M6)	297.81	50.27
		<i>For Green LED Lamps, Add</i>	15.00	
		<i>For Self-Diagnostics, Add</i>	50.00	
		<i>For >50 To 100, Deduct</i>	-9.96	
		<i>For >100 To 250, Deduct</i>	-17.40	
		<i>For >250 To 500, Deduct</i>	-29.78	
		<i>For >500, Deduct</i>	-42.16	



Electrical		26	26
Lighting		26 50	
Safety Lighting		26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0005	EA		Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN)	297.81	50.27
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-9.96	
			For >100 To 250, Deduct	-17.40	
			For >250 To 500, Deduct	-29.78	
			For >500, Deduct	-42.16	
26 52 13 16-0006	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-1-R)	327.97	50.27
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-10.71	
			For >100 To 250, Deduct	-18.91	
			For >250 To 500, Deduct	-32.80	
			For >500, Deduct	-46.68	
26 52 13 16-0007	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-2-R)	371.97	50.27
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-11.81	
			For >100 To 250, Deduct	-21.11	
			For >250 To 500, Deduct	-37.20	
			For >500, Deduct	-53.28	
26 52 13 16-0008	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-1-R-EL-N)	309.58	50.27
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-10.25	
			For >100 To 250, Deduct	-17.99	
			For >250 To 500, Deduct	-30.96	
			For >500, Deduct	-43.92	
26 52 13 16-0009	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-2-R-EL-N)	341.52	50.27
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-11.05	
			For >100 To 250, Deduct	-19.59	
			For >250 To 500, Deduct	-34.15	
			For >500, Deduct	-48.71	
26 52 13 16-0010	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-S-W-3-R-M4)	394.16	50.27
			Note: Includes two circular side mounted krypton emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-13.29	
			For >100 To 250, Deduct	-23.15	
			For >250 To 500, Deduct	-39.42	
			For >500, Deduct	-55.69	
26 52 13 16-0011	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-LED-R-M6)	361.22	50.27
			Note: Includes two circular side mounted LED emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-12.47	
			For >100 To 250, Deduct	-21.50	
			For >250 To 500, Deduct	-36.12	
			For >500, Deduct	-50.74	
26 52 13 16-0012	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH)	493.80	50.27
			Note: Includes two rectangular front mounted high intensity tungsten emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-15.78	
			For >100 To 250, Deduct	-28.13	
			For >250 To 500, Deduct	-49.38	
			For >500, Deduct	-70.63	
26 52 13 16-0013	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM)	516.99	50.27
			Note: Includes two circular side mounted PAR 36 emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-16.36	
			For >100 To 250, Deduct	-29.29	
			For >250 To 500, Deduct	-51.70	
			For >500, Deduct	-74.11	
26 52 13 16-0014	EA		Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R)	142.29	50.27
			For >50 To 100, Deduct	-6.07	
			For >100 To 250, Deduct	-9.63	
			For >250 To 500, Deduct	-14.23	
			For >500, Deduct	-18.83	
26 52 13 16-0015	EA		120-277 Volt, LED Emergency Exit Sign With Nickel Cadmium Battery, Red (Cooper Industries APX7R)	142.83	50.27
			For >50 To 100, Deduct	-6.08	
			For >100 To 250, Deduct	-9.66	
			For >250 To 500, Deduct	-14.28	
			For >500, Deduct	-18.91	
26 52 13 16-0016			Edge-Lit LED Exit Signs (26 52 13 16) Note: Includes red LED lamps.		
26 52 13 16-0017	EA		Single Face, Edge-Lit LED Exit Sign (Lithonia EDG-1- R-M6)	292.43	50.27
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-9.82	
			For >100 To 250, Deduct	-17.14	
			For >250 To 500, Deduct	-29.24	
			For >500, Deduct	-41.35	

26 Electrical
26 50 Lighting
26 52 Safety Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0018	EA	Double Face, Edge-Lit LED Exit Sign (Lithonia EDG-2-R-M6)	295.48	50.27
		For Green LED Lamps, Add	40.00	
		For >50 To 100, Deduct	-9.90	
		For >100 To 250, Deduct	-17.29	
		For >250 To 500, Deduct	-29.55	
		For >500, Deduct	-41.81	
26 52 13 16-0019	EA	Single Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-1-R-EL-M6)	316.09	50.27
		For Green LED Lamps, Add	40.00	
		For Self-Diagnostics, Add	50.00	
		For >50 To 100, Deduct	-10.42	
		For >100 To 250, Deduct	-18.32	
		For >250 To 500, Deduct	-31.61	
		For >500, Deduct	-44.90	
26 52 13 16-0020	EA	Double Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-2-R-EL-M6).....	377.69	50.27
		For Green LED Lamps, Add	40.00	
		For Self-Diagnostics, Add	50.00	
		For >50 To 100, Deduct	-11.96	
		For >100 To 250, Deduct	-21.40	
		For >250 To 500, Deduct	-37.77	
		For >500, Deduct	-54.14	
26 52 13 16-0021 Self-Luminous Tritium Exit Signs (26 52 13 16)				
Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.				
26 52 13 16-0022	EA	10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-10-R).....	622.81	50.27
		For >50 To 100, Deduct	-18.08	
		For >100 To 250, Deduct	-33.65	
		For >250 To 500, Deduct	-62.28	
		For >500, Deduct	-90.91	
26 52 13 16-0023	EA	10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-10-R).....	1,144.52	50.27
		For >50 To 100, Deduct	-31.13	
		For >100 To 250, Deduct	-59.74	
		For >250 To 500, Deduct	-114.45	
		For >500, Deduct	-169.16	
26 52 13 16-0024	EA	20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-20-R).....	741.66	50.27
		For >50 To 100, Deduct	-21.06	
		For >100 To 250, Deduct	-39.60	
		For >250 To 500, Deduct	-74.17	
		For >500, Deduct	-108.74	
26 52 13 16-0025	EA	20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-20-R).....	1,239.93	50.27
		For >50 To 100, Deduct	-33.51	
		For >100 To 250, Deduct	-64.51	
		For >250 To 500, Deduct	-123.99	
		For >500, Deduct	-183.48	
26 52 13 16-0026	EA	10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-10-R).....	681.95	50.27
		For >50 To 100, Deduct	-19.56	
		For >100 To 250, Deduct	-36.61	
		For >250 To 500, Deduct	-68.20	
		For >500, Deduct	-99.78	
26 52 13 16-0027	EA	10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-10-R)	1,239.93	50.27
		For >50 To 100, Deduct	-33.51	
		For >100 To 250, Deduct	-64.51	
		For >250 To 500, Deduct	-123.99	
		For >500, Deduct	-183.48	
26 52 13 16-0028	EA	20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-20-R).....	836.51	50.27
		For >50 To 100, Deduct	-23.43	
		For >100 To 250, Deduct	-44.34	
		For >250 To 500, Deduct	-83.65	
		For >500, Deduct	-122.96	
26 52 13 16-0029	EA	20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-20-R)	1,539.01	50.27
		For >50 To 100, Deduct	-40.99	
		For >100 To 250, Deduct	-79.46	
		For >250 To 500, Deduct	-153.90	
		For >500, Deduct	-228.34	
26 52 13 16-0030 Vandal-Resistant LED Exit Signs (26 52 13 16)				
Note: Includes red LED lamps.				
26 52 13 16-0031	EA	Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign (Lithonia LV-S-W-1-R-120/277)	587.65	50.27
		For >50 To 100, Deduct	-17.20	
		For >100 To 250, Deduct	-31.90	
		For >250 To 500, Deduct	-58.77	
		For >500, Deduct	-85.63	
26 52 13 16-0032	EA	Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-W-1-R-120/277-EL-N)	910.72	50.27
		For >50 To 100, Deduct	-25.28	
		For >100 To 250, Deduct	-48.05	
		For >250 To 500, Deduct	-91.07	
		For >500, Deduct	-134.09	



Electrical		26	26
Lighting		26 50	
Safety Lighting		26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0033	EA		Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-1-R-120/277-EL-N-UM-4X).....	1,108.81	50.27
			For >50 To 100, Deduct	-30.23	
			For >100 To 250, Deduct	-57.95	
			For >250 To 500, Deduct	-110.88	
			For >500, Deduct	-163.81	
26 52 13 16-0034			Removal And Reinstallation Of Exit Light Fixture (26 52 13 16)		
26 52 13 16-0035	EA		Removal And Reinstall Of Exit Light Fixtures Note: Includes storage and cleaning.	103.14	
			For >50 To 100, Deduct	-5.16	
			For >100 To 250, Deduct	-7.74	
			For >250 To 500, Deduct	-10.31	
			For >500, Deduct	-12.89	
26 52 13 16-0036			Exit Sign Accessories (26 52 13 16)		
26 52 13 16-0037	EA		Polycarbonate Vandal Shield For Exit Signs (Radiant-Lite BG-1).....	139.11	13.78
			For >50 To 100, Deduct	-4.17	
			For >100 To 250, Deduct	-7.64	
			For >250 To 500, Deduct	-13.91	
			For >500, Deduct	-20.18	
26 52 13 16-0038	EA		Wire Guard For Exit Signs Or Emergency Lights (Best Lighting Products WG-1).....	81.36	13.78
			For >50 To 100, Deduct	-2.72	
			For >100 To 250, Deduct	-4.76	
			For >250 To 500, Deduct	-8.14	
			For >500, Deduct	-11.52	
26 52 13 16-0039	EA		Wire Guard For Combination Exit Sign And Emergency Light (Best Lighting Products WG-3).....	129.68	11.02
			For >50 To 100, Deduct	-3.79	
			For >100 To 250, Deduct	-7.03	
			For >250 To 500, Deduct	-12.97	
			For >500, Deduct	-18.90	
26 52 13 16-0040	EA		Removal And Replacement Of Battery For Exit Signs..... Note: Battery: nickel cadmium, 1.2 volt, 1 Ah battery capacity	139.21	
			For >50 To 100, Deduct	-4.34	
			For >100 To 250, Deduct	-7.82	
			For >250 To 500, Deduct	-13.92	
			For >500, Deduct	-20.02	
26 54 Classified Location Lighting (26 50)					
26 54 19 LED Classified Location Lighting (26 54)					
26 54 19 00-0001			Class I Division 2, Hazardous Location, LED Fixtures (26 54 19)		
26 54 19 00-0002			Class I Division 2, Hazardous Location, NEMA 4X, LED Floodlight (Cooper Champ® FMV) (26 54 19 00-0001) Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0003	EA		5,183 Lumens, 45 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV5L).....	2,803.23	113.09
			For Bolt-On Visor, Add	106.99	
			For Bolt-On Wire Guard, Add	220.06	
			For 480 Volt, Add	188.41	
			For Warm White Color Rendering, Add	80.00	
			For >50 To 100, Deduct	-74.79	
			For >100 To 250, Deduct	-144.87	
			For >250 To 500, Deduct	-280.32	
			For >500, Deduct	-415.77	
26 54 19 00-0004	EA		7,095 Lumens, 62 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV7L).....	3,432.11	120.63
			For Bolt-On Visor, Add	106.99	
			For Bolt-On Wire Guard, Add	220.06	
			For 480 Volt, Add	188.41	
			For Warm White Color Rendering, Add	80.00	
			For >50 To 100, Deduct	-90.83	
			For >100 To 250, Deduct	-176.63	
			For >250 To 500, Deduct	-343.21	
			For >500, Deduct	-509.79	
26 54 19 00-0005	EA		9,132 Lumens, 79 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV9L).....	3,876.14	128.17
			For Bolt-On Visor, Add	106.99	
			For Bolt-On Wire Guard, Add	220.06	
			For 480 Volt, Add	188.41	
			For Warm White Color Rendering, Add	80.00	
			For >50 To 100, Deduct	-102.24	
			For >100 To 250, Deduct	-199.15	
			For >250 To 500, Deduct	-387.61	
			For >500, Deduct	-576.08	

26 Electrical**26 50 Lighting****26 54 Classified Location Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 54 19 00-0006	EA		11,107 Lumens, 99 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV11L).....	4,332.46	135.70
			For Bolt-On Visor, Add	106.99	
			For Bolt-On Wire Guard, Add	220.06	
			For 480 Volt, Add	188.41	
			For Warm White Color Rendering, Add	80.00	
			For >50 To 100, Deduct	-113.97	
			For >100 To 250, Deduct	-222.28	
			For >250 To 500, Deduct	-433.25	
			For >500, Deduct	-644.21	
26 54 19 00-0007			Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC) (26 54 19 00-0001) Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0008	EA		1,600 Lumens, 25 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC).....	1,659.81	105.55
			For 12/24 Volt DC Driver, Add	30.41	
			For Frosted Lens, Add	62.14	
			For Warm White Color Temperature LEDs, Add	80.00	
			For 55 Degree Ambient Suitability (AC Only) Option, Add	41.40	
			For Stanchion Mount, Add	256.35	
			For Ceiling Mount, Add	102.79	
			For Wall Mount, Add	150.05	
			For Teflon Coated Lens, Add	131.89	
			For Wall Mount With Junction Box, Add	219.09	
			For >50 To 100, Deduct	-45.89	
			For >100 To 250, Deduct	-87.39	
			For >250 To 500, Deduct	-165.98	
			For >500, Deduct	-244.57	
26 54 19 00-0009			Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV) (26 54 19 00-0001) Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0010	EA		3,240 Lumens, 47 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV3L).....	2,634.63	105.55
			For Ceiling Mount, Add	19.67	
			For Quick Clip Mounting Option, Add	28.90	
			For Frosted Lens, Add	62.14	
			For Warm White Color Rendering, Add	80.00	
			For Polycarbonate Lens, Add	115.18	
			For 480 Volt, Add	188.41	
			For >50 To 100, Deduct	-70.26	
			For >100 To 250, Deduct	-136.13	
			For >250 To 500, Deduct	-263.46	
			For >500, Deduct	-390.80	
26 54 19 00-0011	EA		3,778 Lumens, 63 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV5L).....	2,917.94	113.09
			For Ceiling Mount, Add	19.67	
			For Quick Clip Mounting Option, Add	28.90	
			For Frosted Lens, Add	62.14	
			For Warm White Color Rendering, Add	80.00	
			For Polycarbonate Lens, Add	115.18	
			For 480 Volt, Add	188.41	
			For >50 To 100, Deduct	-77.66	
			For >100 To 250, Deduct	-150.61	
			For >250 To 500, Deduct	-291.79	
			For >500, Deduct	-432.98	
26 54 19 00-0012	EA		6,340 Lumens, 98 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV7L).....	3,269.18	120.63
			For Ceiling Mount, Add	19.67	
			For Quick Clip Mounting Option, Add	28.90	
			For Frosted Lens, Add	62.14	
			For Warm White Color Rendering, Add	80.00	
			For Polycarbonate Lens, Add	115.18	
			For 480 Volt, Add	188.41	
			For >50 To 100, Deduct	-86.76	
			For >100 To 250, Deduct	-168.49	
			For >250 To 500, Deduct	-326.92	
			For >500, Deduct	-485.35	
26 54 19 00-0013	EA		6,340 Lumens, 98 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV9L).....	4,257.64	128.17
			For Ceiling Mount, Add	19.67	
			For Quick Clip Mounting Option, Add	28.90	
			For Frosted Lens, Add	62.14	
			For Warm White Color Rendering, Add	80.00	
			For Polycarbonate Lens, Add	115.18	
			For 480 Volt, Add	188.41	
			For >50 To 100, Deduct	-111.78	
			For >100 To 250, Deduct	-218.22	
			For >250 To 500, Deduct	-425.76	
			For >500, Deduct	-633.31	



Electrical		26	26
Lighting		26 50	
Classified Location Lighting		26 54	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 54 19 00-0014	EA		9,720 Lumens, 137 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV11L).....	4,884.24	135.70
			For Ceiling Mount, Add	19.67	
			For Quick Clip Mounting Option, Add	28.90	
			For Frosted Lens, Add	62.14	
			For Warm White Color Rendering, Add	80.00	
			For Polycarbonate Lens, Add	115.18	
			For 480 Volt, Add	188.41	
			For >50 To 100, Deduct	-127.76	
			For >100 To 250, Deduct	-249.87	
			For >250 To 500, Deduct	-488.42	
			For >500, Deduct	-726.98	
26 54 19 00-0015			Class I Division 1, Explosion Proof, LED Fixtures (26 54 19)		
26 54 19 00-0016			Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL) (26 54 19 00-0015)		
			Note: Includes 5,600K CRI LED arrays, shatter resistant and explosion proof glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0017	EA		5,625 Lumens, 80 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL5L).....	7,126.71	113.09
			For Wall Mount, Deduct	-27.79	
			For Warm Color Temperature LEDs, Add	149.63	
			For Stainless Steel Guard, Add	268.59	
			For Ceiling Mount, Add	324.01	
			For Stanchion Mount, Add	377.09	
			For Yoke Mount, Add	942.72	
			For >50 To 100, Deduct	-182.88	
			For >100 To 250, Deduct	-361.05	
			For >250 To 500, Deduct	-712.67	
			For >500, Deduct	-1,064.29	
26 54 19 00-0018	EA		6,750 Lumens, 100 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL7L).....	8,688.14	120.63
			For Wall Mount, Deduct	-27.79	
			For Warm Color Temperature LEDs, Add	149.63	
			For Stainless Steel Guard, Add	268.59	
			For Ceiling Mount, Add	324.01	
			For Stanchion Mount, Add	377.09	
			For Yoke Mount, Add	942.72	
			For >50 To 100, Deduct	-222.23	
			For >100 To 250, Deduct	-439.43	
			For >250 To 500, Deduct	-868.81	
			For >500, Deduct	-1,298.19	
26 54 19 00-0019	EA		9,000 Lumens, 130 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL9L).....	10,108.97	128.17
			For Wall Mount, Deduct	-27.79	
			For Warm Color Temperature LEDs, Add	149.63	
			For Stainless Steel Guard, Add	268.59	
			For Ceiling Mount, Add	324.01	
			For Stanchion Mount, Add	377.09	
			For Yoke Mount, Add	942.72	
			For >50 To 100, Deduct	-258.06	
			For >100 To 250, Deduct	-510.79	
			For >250 To 500, Deduct	-1,010.90	
			For >500, Deduct	-1,511.01	
26 54 19 00-0020	EA		10,500 Lumens, 151 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL11L).....	11,556.05	135.70
			For Wall Mount, Deduct	-27.79	
			For Warm Color Temperature LEDs, Add	149.63	
			For Stainless Steel Guard, Add	268.59	
			For Ceiling Mount, Add	324.01	
			For Stanchion Mount, Add	377.09	
			For Yoke Mount, Add	942.72	
			For >50 To 100, Deduct	-294.56	
			For >100 To 250, Deduct	-583.46	
			For >250 To 500, Deduct	-1,155.61	
			For >500, Deduct	-1,727.75	
26 54 19 00-0021	EA		13,500 Lumens, 175 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL13L).....	13,408.58	130.68
			For Wall Mount, Deduct	-27.79	
			For Warm Color Temperature LEDs, Add	149.63	
			For Stainless Steel Guard, Add	268.59	
			For Ceiling Mount, Add	324.01	
			For Stanchion Mount, Add	377.09	
			For Yoke Mount, Add	942.72	
			For >50 To 100, Deduct	-341.18	
			For >100 To 250, Deduct	-676.40	
			For >250 To 500, Deduct	-1,340.86	
			For >500, Deduct	-2,005.32	

26 55 Special Purpose Lighting (26 50)

26 55 13 Landscape Lighting (26 55)

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 55 13 00-0001	Bollards (26 55 13)		
	Note: Excludes concrete base.		
26 55 13 00-0002	Aluminum Architectural Bollards (26 55 13 00-0001)		
26 55 13 00-0003	High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0004	Square, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)		
26 55 13 00-0005	EA 24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,690.75	116.90
26 55 13 00-0006	EA 30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,704.50	123.77
26 55 13 00-0007	EA 36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,718.25	130.65
26 55 13 00-0008	EA 42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,591.32	137.53
26 55 13 00-0009	EA 24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,690.75	116.90
26 55 13 00-0010	EA 30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,704.50	123.77
26 55 13 00-0011	EA 36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,718.25	130.65
26 55 13 00-0012	EA 42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,591.32	137.53
26 55 13 00-0013	EA 24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,690.75	116.90
26 55 13 00-0014	EA 30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,704.50	123.77
26 55 13 00-0015	EA 36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,718.25	130.65
26 55 13 00-0016	EA 42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,591.32	137.53
26 55 13 00-0017	EA 24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,690.75	116.90
26 55 13 00-0018	EA 30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,704.50	123.77
26 55 13 00-0019	EA 36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,718.25	130.65
26 55 13 00-0020	EA 42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,591.32	137.53
26 55 13 00-0021	Round, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)		
26 55 13 00-0022	EA 24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,626.15	116.90
26 55 13 00-0023	EA 30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,639.90	123.77
26 55 13 00-0024	EA 36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,653.65	130.65
26 55 13 00-0025	EA 42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,526.12	137.53
26 55 13 00-0026	EA 24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,626.15	116.90
26 55 13 00-0027	EA 30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,639.90	123.77
26 55 13 00-0028	EA 36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,653.65	130.65
26 55 13 00-0029	EA 42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,526.12	137.53
26 55 13 00-0030	EA 24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,626.15	116.90
26 55 13 00-0031	EA 30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,639.90	123.77
26 55 13 00-0032	EA 36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,653.65	130.65
26 55 13 00-0033	EA 42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,526.12	137.53
26 55 13 00-0034	EA 24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,626.15	116.90
26 55 13 00-0035	EA 30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,639.90	123.77
26 55 13 00-0036	EA 36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,653.65	130.65
26 55 13 00-0037	EA 42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,526.12	137.53
26 55 13 00-0038	Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0039	Square, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)		
26 55 13 00-0040	EA 24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,774.64	116.90
26 55 13 00-0041	EA 30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,788.39	123.77
26 55 13 00-0042	EA 36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,802.14	130.65
26 55 13 00-0043	EA 42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,674.62	137.53
26 55 13 00-0044	EA 24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,774.64	116.90
26 55 13 00-0045	EA 30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,788.39	123.77
26 55 13 00-0046	EA 36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,802.14	130.65
26 55 13 00-0047	EA 42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,674.62	137.53
26 55 13 00-0048	EA 24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,774.64	116.90
26 55 13 00-0049	EA 30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,788.39	123.77
26 55 13 00-0050	EA 36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,802.14	130.65
26 55 13 00-0051	EA 42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,744.81	137.53
26 55 13 00-0052	Round, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)		
26 55 13 00-0053	EA 24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,709.44	116.90
26 55 13 00-0054	EA 30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,723.19	123.77
26 55 13 00-0055	EA 36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,736.94	130.65
26 55 13 00-0056	EA 42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,609.42	137.53
26 55 13 00-0057	EA 24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,709.44	116.90
26 55 13 00-0058	EA 30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,723.19	123.77
26 55 13 00-0059	EA 36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,736.94	130.65
26 55 13 00-0060	EA 42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,609.42	137.53
26 55 13 00-0061	EA 24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,709.44	116.90
26 55 13 00-0062	EA 30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,723.19	123.77
26 55 13 00-0063	EA 36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,736.94	130.65
26 55 13 00-0064	EA 42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,609.42	137.53
26 55 13 00-0065	Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0066	Square, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)		
26 55 13 00-0067	EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,683.39	116.90



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0068	EA	30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,697.14	123.77
26 55 13 00-0069	EA	36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,710.89	130.65
26 55 13 00-0070	EA	42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,585.29	137.53
26 55 13 00-0071	EA	24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,683.39	116.90
26 55 13 00-0072	EA	30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,697.14	123.77
26 55 13 00-0073	EA	36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,710.89	130.65
26 55 13 00-0074	EA	42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,585.29	137.53
26 55 13 00-0075	EA	24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,683.39	116.90
26 55 13 00-0076	EA	30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,697.14	123.77
26 55 13 00-0077	EA	36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,710.89	130.65
26 55 13 00-0078	EA	42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,585.29	137.53
26 55 13 00-0079 Round, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)				
26 55 13 00-0080	EA	24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,619.62	116.90
26 55 13 00-0081	EA	30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,633.37	123.77
26 55 13 00-0082	EA	36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,647.12	130.65
26 55 13 00-0083	EA	42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,522.74	137.53
26 55 13 00-0084	EA	24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,619.62	116.90
26 55 13 00-0085	EA	30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,633.37	123.77
26 55 13 00-0086	EA	36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,647.12	130.65
26 55 13 00-0087	EA	42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,522.74	137.53
26 55 13 00-0088	EA	24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,619.62	116.90
26 55 13 00-0089	EA	30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,633.37	123.77
26 55 13 00-0090	EA	36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,647.12	130.65
26 55 13 00-0091	EA	42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,522.74	137.53
26 55 13 00-0092 LED, Aluminum Architectural Bollards (26 55 13 00-0002)				
26 55 13 00-0093 Square, LED, Aluminum Architectural Bollards (26 55 13 00-0092)				
26 55 13 00-0094	EA	24" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	2,014.52	116.90
26 55 13 00-0095	EA	30" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	2,028.27	123.77
26 55 13 00-0096	EA	36" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	2,042.02	130.65
26 55 13 00-0097	EA	42" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,918.18	137.53
26 55 13 00-0098	EA	24" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,458.47	116.90
26 55 13 00-0099	EA	30" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,472.22	123.77
26 55 13 00-0100	EA	36" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,485.97	130.65
26 55 13 00-0101	EA	42" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,359.92	137.53
26 55 13 00-0102 Round, LED, Aluminum Architectural Bollards (26 55 13 00-0092)				
26 55 13 00-0103	EA	24" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard	1,948.29	116.90
26 55 13 00-0104	EA	30" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard	1,962.04	123.77
26 55 13 00-0105	EA	36" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard	1,975.79	130.65
26 55 13 00-0106	EA	42" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard	1,849.74	137.53
26 55 13 00-0107	EA	24" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard	2,392.25	116.90
26 55 13 00-0108	EA	30" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard	2,406.00	123.77
26 55 13 00-0109	EA	36" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard	2,419.75	130.65
26 55 13 00-0110	EA	42" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard	2,294.48	137.53
26 55 13 00-0111 Reinforced Concrete Bollards (26 55 13 00-0001)				
26 55 13 00-0112	EA	48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard	1,687.18	343.82
26 55 13 00-0113	EA	58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard	2,956.09	458.37
26 55 13 00-0114 Low Voltage (26 55 13)				
26 55 13 00-0115	EA	Low Voltage Recessed Uplight.....	898.84	250.30
26 55 13 00-0116	EA	Low Voltage Walkway.....	634.12	137.53
26 55 13 00-0117	EA	Low Voltage Malibu - 5 Light Set.....	628.34	183.60
26 55 13 00-0118	EA	Low Voltage Mushroom 24" Pier	542.72	137.53
26 55 13 00-0119 Recessed, Adjustable (26 55 13)				
26 55 13 00-0120	EA	150 Watt Incandescent Recessed, Adjustable	1,047.19	220.04
26 55 13 00-0121	EA	300 Watt Incandescent Recessed, Adjustable	1,145.12	220.04
26 55 13 00-0122 Recessed, Uplight (26 55 13)				
26 55 13 00-0123	EA	50 Watt Incandescent Recessed Uplight.....	936.21	220.04
26 55 13 00-0124	EA	150 Watt Incandescent Recessed Uplight.....	955.80	220.04
26 55 13 00-0125	EA	300 Watt Incandescent Recessed Uplight.....	1,014.55	220.04
26 55 13 00-0126	EA	500 Watt Quartz Recessed Uplight.....	1,008.02	220.04
26 55 13 00-0127	EA	5 Watt, LED Recessed Uplight	1,250.49	220.04
26 55 13 00-0128	EA	15 Watt, LED Recessed Uplight	1,374.18	220.04
26 55 13 00-0129 Recessed Wall Light (26 55 13)				
26 55 13 00-0130	EA	100 Watt Incandescent Recessed Wall Light	483.97	137.53

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0131	EA	100 Watt Fluorescent Recessed Wall Light	464.38	137.53
26 55 13 00-0132	EA	100 Watt High Intensity Discharge (HID) Recessed Wall Light	752.38	183.60
26 55 13 00-0133		Step Lights (26 55 13)		
26 55 13 00-0134	EA	Incandescent Step Light	396.23	110.02
26 55 13 00-0135	EA	Fluorescent Step Light	461.59	110.02
26 55 13 00-0136	EA	5 Watt, LED Step Light	685.92	110.02
26 55 13 00-0137	EA	15 Watt, LED Step Light	817.85	110.02
26 55 13 00-0138		Tree Lights, Surface Adjustable (26 55 13)		
26 55 13 00-0139	EA	50 Watt Incandescent Tree Lights	837.25	183.60
26 55 13 00-0140	EA	100 Watt Incandescent Tree Lights	856.83	183.60
26 55 13 00-0141	EA	150 Watt Incandescent Tree Lights	1,072.37	275.06
26 55 13 00-0142		Step Lighting Faceplate Trim Replacement (26 55 13)		
26 55 13 00-0143	EA	8.07" x 3.62", Bronze Finish, Diffused Lens, Recessed Horizontal Step Lighting Faceplate Trim (WE-EF STO209 #TA9138U9)	76.76	19.26
26 55 13 00-0144	EA	9.84" x 3.62", Bronze Finish, Diffused Lens, Recessed Horizontal Step Lighting Faceplate Trim (WE-EF STO259 #TA9132U9)	92.08	19.26
26 55 13 00-0145	EA	9.84" x 3.62", Bronze Finish, Diffused Lens, Recessed Vertical Step Lighting Faceplate Trim (WE-EF SVO259 #133-0107)	170.60	19.26
26 55 13 00-0146	EA	8.07" x 3.62", Bronze Finish, Diffused Grille, Recessed Horizontal Step Lighting Faceplate Trim (WE-EF STG209 #TA9139U9)	97.83	19.26
26 55 13 00-0147	EA	9.84" x 3.62", Bronze Finish, Diffused Grille, Recessed Horizontal Step Lighting Faceplate Trim (WE-EF STG259 #TA9133U9)	105.49	19.26
26 55 13 00-0148	EA	8.07" x 3.62", Bronze Finish, Shielded Louver, Recessed Horizontal Step Lighting Faceplate Trim (WE-EF STL209 #TA9140U9)	88.25	19.26
26 55 13 00-0149	EA	9.84" x 3.62", Bronze Finish, Shielded Louver, Recessed Horizontal Step Lighting Faceplate Trim (WE-EF STL259 #TA9134U9)	103.57	19.26
26 55 13 00-0150	EA	9.84" x 3.62", Bronze Finish, Shielded Louver, Recessed Vertical Step Lighting Faceplate Trim (WE-EF SVL259 #133-0114)	115.06	19.26
26 55 13 00-0151	EA	8.07" x 3.62", Bronze Finish, Asymmetric Forward Throw, Recessed Horizontal Step Lighting Faceplate Trim (WE-EF STP209 #TA9141U9)	88.25	19.26
26 55 13 00-0152	EA	9.84" x 3.62", Bronze Finish, Asymmetric Forward Throw, Recessed Horizontal Step Lighting Faceplate Trim (WE-EF STP259 #TA9135U9)	103.57	19.26
26 55 16 Walkway Lighting (26 55)				
26 55 16 00-0001		Incandescent Walkway (26 55 16)		
26 55 16 00-0002	EA	Post Top 300 Watt Incandescent Walkway Fixture	436.57	127.90
26 55 16 00-0003		Metal Halide Walkway (26 55 16)		
26 55 16 00-0004	EA	Post Top 100 Watt Metal Halide Walkway Fixture	672.46	201.06
26 55 16 00-0005	EA	Post Top 150-175 Watt Metal Halide Walkway Fixture	710.60	208.36
26 55 16 00-0006	EA	Post Top 250 Watt Metal Halide Walkway Fixture	763.45	216.33
26 55 16 00-0007	EA	Post Top 400 Watt Metal Halide Walkway Fixture	818.36	233.80
26 55 16 00-0008	EA	Round Luminaries 100 Watt Metal Halide Walkway Fixture	731.93	216.33
26 55 16 00-0009	EA	Round Luminaries 150-175 Watt Metal Halide Walkway Fixture	733.10	201.06
26 55 16 00-0010	EA	Round Luminaries 250 Watt Metal Halide Walkway Fixture	748.45	208.36
26 55 16 00-0011	EA	Spherical 100 Watt Metal Halide Walkway Fixture	585.98	143.30
26 55 16 00-0012	EA	Spherical 150-175 Watt Metal Halide Walkway Fixture	617.51	143.30
26 55 16 00-0013	EA	Spherical 250 Watt Metal Halide Walkway Fixture	649.03	143.30
26 55 16 00-0014	EA	Spherical 400 Watt Metal Halide Walkway Fixture	732.62	161.31
26 55 16 00-0015	EA	Low Walkway 100 Watt Metal Halide Walkway Fixture	557.00	128.72
26 55 16 00-0016		High Pressure Sodium Walkway (26 55 16)		
26 55 16 00-0017	EA	Post Top 100 Watt High Pressure Sodium Walkway Fixture	613.32	201.06
26 55 16 00-0018	EA	Post Top 150-175 Watt High Pressure Sodium Walkway Fixture	646.32	208.36
26 55 16 00-0019	EA	Post Top 250 Watt High Pressure Sodium Walkway Fixture	691.05	216.33
26 55 16 00-0020	EA	Post Top 400 Watt High Pressure Sodium Walkway Fixture	741.67	233.80
26 55 16 00-0021	EA	Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture	666.43	216.33
26 55 16 00-0022	EA	Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture	660.70	201.06
26 55 16 00-0023	EA	Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture	675.89	208.36
26 55 16 00-0024	EA	Spherical 100 Watt High Pressure Sodium Walkway Fixture	520.48	143.30
26 55 16 00-0025	EA	Spherical 175 150-Watt High Pressure Sodium Walkway Fixture	545.10	143.30
26 55 16 00-0026	EA	Spherical 250 Watt High Pressure Sodium Walkway Fixture	569.73	143.30
26 55 16 00-0027	EA	Spherical 400 Watt High Pressure Sodium Walkway Fixture	642.98	161.31
26 55 16 00-0028	EA	Low Walkway 100 Watt High Pressure Sodium Walkway Fixture	563.50	128.72
26 55 16 00-0029		Walkway, Adjustable (26 55 16)		
26 55 16 00-0030	EA	2' Fluorescent Adjustable Walkway Fixture	631.60	183.60
26 55 16 00-0031	EA	4' Fluorescent Adjustable Walkway Fixture	647.15	183.60
26 55 16 00-0032	EA	8' Fluorescent Adjustable Walkway Fixture	1,099.62	275.06
26 55 16 00-0033	EA	50 Watt Incandescent Adjustable Walkway Fixture	523.90	137.53



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 16 00-0034	EA	150 Watt Incandescent Adjustable Walkway Fixture	544.64		137.53
26 55 16 00-0035		LED Walkway (26 55 16)			
26 55 16 00-0036		LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) (26 55 16 00-0035) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.			
26 55 16 00-0037	EA	13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) For Multi-Level Drive Currents, Add	870.11 219.88		105.55
26 55 16 00-0038	EA	18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) For Multi-Level Drive Currents, Add	896.81 219.88		105.55
26 55 16 00-0039	EA	36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) For Multi-Level Drive Currents, Add	943.93 219.88		105.55
26 55 16 00-0040	EA	42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) For Multi-Level Drive Currents, Add	980.05 219.88		105.55
26 55 16 00-0041	EA	96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) For Multi-Level Drive Currents, Add	1,132.41 219.88		135.70
26 55 16 00-0042		Wall Mounted Walkway Lighting (26 55 16 00-0035)			
26 55 16 00-0043	EA	Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492)..... Note: Type Fixture 17 as Post	4,747.18		
26 55 16 00-0044		Pole Mounted Walkway Lighting (26 55 16 00-0035)			
26 55 16 00-0045	EA	43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....	4,372.05		
26 55 16 00-0046	EA	12' Tapered and Fluted Post (Herwig BRA Series, BRAJ-12) Note: Washers and nuts included	4,292.62		
26 55 29		Underwater Lighting (26 55)			
26 55 29 00-0001		Underwater Lights (26 55 29)			
26 55 29 00-0002	EA	150 Watt, 120 Volt Underwater Lights	685.60		91.46
26 55 29 00-0003	EA	300 Watt, 120 Volt Underwater Lights	763.94		91.46
26 55 29 00-0004	EA	1,000 Watt, 120 Volt Underwater Lights	1,874.50		137.53
26 55 29 00-0005	EA	50 Watt, 12 Volt Underwater Lights	718.24		91.46
26 55 29 00-0006	EA	300 Watt, 12 Volt Underwater Lights	809.64		91.46
26 55 29 00-0007	SET	Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent	2,076.88		206.29
26 55 39		Helipad Lighting (26 55)			
26 55 39 00-0001	EA	Heliport Perimeter Light, 40 Watt With Base Housing	564.97		188.48
26 55 39 00-0002	EA	Heliport Landing Direction Light, 40 Watt With Base Housing	564.97		188.48
26 55 39 00-0003	EA	Heliport Pad Insert Light, 40 Watt With Base Housing.....	1,463.50		188.48
26 55 39 00-0004	EA	Heliport 10' Steel Pole, With 2 - 500 Watt Floodlights	5,490.38		502.61
26 55 39 00-0005	EA	Heliport 1 Obstruction Light, 69 Watt	539.02		157.07
26 55 39 00-0006	EA	Heliport 2 Obstruction Light, 2 - 69 Watt	689.77		188.48
26 55 39 00-0007	EA	Lighted Wind Cone, 8' Wind Sock x 20' Standard 4 Deep Bowl - 150 Watt Fixture Reflector Fixtures, 1 - 69 Watt Obstruction Light	6,805.43		1,866.48
26 55 39 00-0008	EA	Heliport Light Photoelectric Control	686.14		125.65
26 55 39 00-0009	EA	Heliport Air To Ground Radio Control Receiver	2,966.07		251.31
26 55 53		Security Lighting (26 55)			
26 55 53 11		Security Flood Lighting (26 55 53)			
26 55 53 11-0001		Flood Lights (General Electric Powerflood®) (26 55 53 11)			
26 55 53 11-0002		MPF (Small Size) Series GE Flood Lights (26 55 53 11-0001) Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.			
26 55 53 11-0003		High Pressure Sodium MPF Series GE Flood Lights (26 55 53 11-0002)			
26 55 53 11-0004	EA	70 Watt High Pressure Sodium MPF Series GE Flood Light	407.05		111.99
26 55 53 11-0005	EA	100 Watt High Pressure Sodium MPF Series GE Flood Light	410.71		111.99
26 55 53 11-0006	EA	150 Watt High Pressure Sodium MPF Series GE Flood Light	416.81		111.99
26 55 53 11-0007		Metal Halide MPF Series GE Flood Lights (26 55 53 11-0002)			
26 55 53 11-0008	EA	70 Watt Metal Halide MPF Series GE Flood Light	552.28		111.99
26 55 53 11-0009		P-154 (Small Size) Series GE Flood Lights (26 55 53 11-0001) Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.			
26 55 53 11-0010		High Pressure Sodium P-154 Series GE Flood Lights (26 55 53 11-0009)			
26 55 53 11-0011	EA	70 Watt High Pressure Sodium P-154 Series GE Flood Light	824.65		149.32

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0012 EA 100 Watt High Pressure Sodium P-154 Series GE Flood Light.....	829.54	149.32
26 55 53 11-0013 EA 150 Watt High Pressure Sodium P-154 Series GE Flood Light.....	838.08	149.32
26 55 53 11-0014 EA 250 Watt High Pressure Sodium P-154 Series GE Flood Light.....	934.49	149.32
26 55 53 11-0015 EA 400 Watt High Pressure Sodium P-154 Series GE Flood Light.....	962.56	149.32
26 55 53 11-0016 Metal Halide P-154 Series GE Flood Lights (26 55 53 11-0009)		
26 55 53 11-0017 EA 175 Watt Metal Halide P-154 Series GE Flood Light.....	816.11	149.32
26 55 53 11-0018 EA 250 Watt Metal Halide P-154 Series GE Flood Light.....	858.83	149.32
26 55 53 11-0019 EA 400 Watt Metal Halide P-154 Series GE Flood Light.....	880.79	149.32
26 55 53 11-0020 PF-154 (Medium Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0021 High Pressure Sodium PF-154 Series GE Flood Lights (26 55 53 11-0020)		
26 55 53 11-0022 EA 70 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	841.24	167.99
26 55 53 11-0023 EA 100 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	847.34	167.99
26 55 53 11-0024 EA 150 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	857.10	167.99
26 55 53 11-0025 EA 250 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	952.30	167.99
26 55 53 11-0026 EA 400 Watt High Pressure Sodium PF-154 Series GE Flood Light.....	979.15	167.99
26 55 53 11-0027 Metal Halide PF-154 GE Flood Lights (26 55 53 11-0020)		
26 55 53 11-0028 EA 175 Watt Metal Halide PF-154 Series GE Flood Light.....	833.91	167.99
26 55 53 11-0029 EA 250 Watt Metal Halide PF-154 Series GE Flood Light.....	875.41	167.99
26 55 53 11-0030 EA 400 Watt Metal Halide PF-154 Series GE Flood Light.....	897.38	167.99
26 55 53 11-0031 PF-400 (Medium Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0032 High Pressure Sodium PF-400 Series GE Flood Lights (26 55 53 11-0031)		
26 55 53 11-0033 EA 150 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	1,129.26	167.99
26 55 53 11-0034 EA 200 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	1,214.69	167.99
26 55 53 11-0035 EA 250 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	1,208.59	167.99
26 55 53 11-0036 EA 400 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	1,239.10	167.99
26 55 53 11-0037 Metal Halide PF-400 GE Flood Lights (26 55 53 11-0031)		
26 55 53 11-0038 EA 175 Watt Metal Halide PF-400 Series GE Flood Light.....	1,160.99	167.99
26 55 53 11-0039 EA 250 Watt Metal Halide PF-400 Series GE Flood Light.....	1,186.62	167.99
26 55 53 11-0040 EA 400 Watt Metal Halide PF-400 Series GE Flood Light.....	1,213.47	167.99
26 55 53 11-0041 PF-1000 (Large Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0042 High Pressure Sodium PF-1000 Series GE Flood Lights (26 55 53 11-0041)		
26 55 53 11-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	1,531.50	186.65
26 55 53 11-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	1,531.50	186.65
26 55 53 11-0045 Metal Halide PF-1000 Series GE Flood Lights (26 55 53 11-0041)		
26 55 53 11-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light.....	1,460.71	186.65
26 55 53 11-0047 HLU/MLU (Medium Size) FRP Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0048 High Pressure Sodium HLU/VLU FRP Series GE Flood Lights (26 55 53 11-0047)		
26 55 53 11-0049 EA 250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	1,246.43	167.99
26 55 53 11-0050 EA 400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	1,269.61	167.99
26 55 53 11-0051 Metal Halide HLU/MLU Series GE Flood Lights (26 55 53 11-0047)		
26 55 53 11-0052 EA 400 Watt Metal Halide HLU/MLU FRP Series GE Flood Light.....	1,259.85	167.99
26 55 53 11-0053 Accessories For Powerflood GE Flood Lights (26 55 53 11-0001)		
26 55 53 11-0054 EA Wireguard For Powerflood GE Flood Light.....	215.01	37.33
26 55 53 11-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	124.70	37.33
26 55 53 11-0056 EA Top Visor For Powerflood Flood Light.....	180.84	37.33
26 55 53 11-0057 EA Top And Two Side Visors For Powerflood GE Flood Light.....	138.12	37.33



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....	348.47	111.99
26 55 53 11-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light.....	151.55	37.33
26 55 53 11-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light.....	256.93	111.99
26 55 53 11-0061 EA Steel Angle Bracket For Powerflood GE Flood Light.....	267.92	111.99
26 55 53 11-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light.....	113.71	37.33
26 55 53 11-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light.....	110.05	37.33
26 55 53 11-0064 Flood Lights (Lithonia Contour Series) (26 55 53 11)		
26 55 53 11-0065 TFM (Small Size) Series Lithonia Flood Lights (26 55 53 11-0064) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 55 53 11-0066 High Pressure Sodium TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0067 EA 70 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	759.68	149.32
26 55 53 11-0068 EA 100 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	830.15	149.32
26 55 53 11-0069 EA 150 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	899.15	149.32
26 55 53 11-0070 Metal Halide TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0071 EA 50 Watt Metal Halide TFM Series Lithonia Flood Light.....	985.27	149.32
26 55 53 11-0072 EA 70 Watt Metal Halide TFM Series Lithonia Flood Light.....	968.30	149.32
26 55 53 11-0073 EA 100 Watt Metal Halide TFM Series Lithonia Flood Light.....	940.96	149.32
26 55 53 11-0074 EA 175 Watt Metal Halide TFM Series Lithonia Flood Light.....	938.94	149.32
26 55 53 11-0075 Compact Fluorescent TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0076 EA 42 Watt Compact Fluorescent TFM Series Lithonia Flood Light.....	978.24	149.32
26 55 53 11-0077 TFL (Medium Size) Series Lithonia Flood Lights (26 55 53 11-0064) Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0078 High Pressure Sodium TFL Series Lithonia Flood Lights (26 55 53 11-0077)		
26 55 53 11-0079 EA 250 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	1,164.22	167.99
26 55 53 11-0080 EA 400 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	1,187.72	167.99
26 55 53 11-0081 Metal Halide TFL Series Lithonia Flood Lights (26 55 53 11-0077)		
26 55 53 11-0082 EA 175 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,111.40	167.99
26 55 53 11-0083 EA 250 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,111.40	167.99
26 55 53 11-0084 EA 400 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,148.25	167.99
26 55 53 11-0085 TFR (Low Profile) Series Lithonia Flood Lights (26 55 53 11-0064) Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0086 High Pressure Sodium TFR Lithonia Flood Lights (26 55 53 11-0085)		
26 55 53 11-0087 EA 150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	1,115.17	149.32
26 55 53 11-0088 EA 250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	1,150.34	149.32
26 55 53 11-0089 EA 400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	1,179.73	149.32
26 55 53 11-0090 Metal Halide TFR Lithonia Flood Lights (26 55 53 11-0085)		
26 55 53 11-0091 EA 250 Watt Metal Halide TFR Series Lithonia Flood Light.....	1,103.40	149.32
26 55 53 11-0092 EA 400 Watt Metal Halide TFR Series Lithonia Flood Light.....	1,138.63	149.32
26 55 53 11-0093 TFA (Large Size) Series Lithonia Flood Lights (26 55 53 11-0064) Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0094 High Pressure Sodium TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0095 EA 1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	2,164.62	186.65
26 55 53 11-0096 Metal Halide TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0097 EA 400 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,665.38	186.65
26 55 53 11-0098 EA 1,000 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,841.56	186.65
26 55 53 11-0099 Accessories For Contour Series Lithonia Flood Lights (26 55 53 11-0064)		
26 55 53 11-0100 EA Wireguard For Contour Series Lithonia Flood Light.....	185.40	37.33
26 55 53 11-0101 EA Vandal Guard For Contour Series Lithonia Flood Light.....	358.34	37.33
26 55 53 11-0102 EA Upper Visor For Contour Series Lithonia Flood Light.....	152.77	37.33

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0103	EA		Full Visor For Contour Series Lithonia Flood Light	205.61	37.33
26 55 53 11-0104	EA		Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light	458.87	111.99
26 55 53 11-0105	EA		Radius Wall Bracket For Contour Series Lithonia Flood Light	365.36	111.99
26 55 53 11-0106	EA		Steel Angle Bracket For Contour Series Lithonia Flood Light	365.36	111.99
26 55 53 11-0107	EA		U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe	402.65	111.99
26 55 53 11-0108	EA		Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light	177.37	37.33
26 55 53 11-0109	EA		120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light	141.54	37.33
26 55 53 11-0110			Flood Lights (Eaton) (26 55 53 11)		
26 55 53 11-0111	EA		6" x 6", 16,932 Lumens, 128 Watt, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB)	1,194.00	149.32
			For NEMA Photocontrol Option (Eaton OA/RA1016), Add	63.18	
			For >50 To 100, Deduct	-37.32	
			For >100 To 250, Deduct	-67.17	
			For >250 To 500, Deduct	-119.40	
			For >500, Deduct	-171.63	
26 55 53 11-0112	EA		16,900 Lumens, 128 Watt, NEMA 6H x 6V Wide, Trunnion Mount, 4000K CCT, Night Falcon LED Flood Light With Multi-Tap (Cooper Industries NFFLD-C40-D-UNV-66-T-CB-PER7+OA/RA1016)	1,486.85	165.68
			For >50 To 100, Deduct	-45.46	
			For >100 To 250, Deduct	-82.63	
			For >250 To 500, Deduct	-148.69	
			For >500, Deduct	-214.74	
26 55 53 11-0113			Flood Lights (Ruud) (26 55 53 11)		
26 55 53 11-0114			NS (Micro) Series Ruud Flood Lights (26 55 53 11-0113)		
			Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.		
26 55 53 11-0115			High Pressure Sodium NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0116	EA		35 Watt High Pressure Sodium NS Series Ruud Flood Light	499.80	111.99
26 55 53 11-0117	EA		50 Watt High Pressure Sodium NS Series Ruud Flood Light	499.80	111.99
26 55 53 11-0118	EA		70 Watt High Pressure Sodium NS Series Ruud Flood Light	499.80	111.99
26 55 53 11-0119	EA		100 Watt High Pressure Sodium NS Series Ruud Flood Light	499.80	111.99
26 55 53 11-0120	EA		150 Watt High Pressure Sodium NS Series Ruud Flood Light	499.80	111.99
26 55 53 11-0121			Metal Halide NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0122	EA		50 Watt Metal Halide NS Series Ruud Flood Light	568.15	111.99
26 55 53 11-0123	EA		70 Watt Metal Halide NS Series Ruud Flood Light	568.15	111.99
26 55 53 11-0124	EA		100 Watt Metal Halide NS Series Ruud Flood Light	568.15	111.99
26 55 53 11-0125			Compact Fluorescent NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0126	EA		13 Watt Compact Fluorescent NS Series Ruud Flood Light	429.02	111.99
26 55 53 11-0127	EA		26 Watt Compact Fluorescent NS Series Ruud Flood Light	446.10	111.99
26 55 53 11-0128	EA		32 Watt Compact Fluorescent NS Series Ruud Flood Light	450.98	111.99
26 55 53 11-0129	EA		42 Watt Compact Fluorescent NS Series Ruud Flood Light	455.87	111.99
26 55 53 11-0130			NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights (26 55 53 11-0113)		
			Note: The NSF is suited for large open areas and façade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.		
26 55 53 11-0131			High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0132	EA		150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	770.45	167.99
26 55 53 11-0133	EA		250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	814.39	167.99
26 55 53 11-0134	EA		400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	838.80	167.99
26 55 53 11-0135			Metal Halide NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0136	EA		175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	760.69	167.99
26 55 53 11-0137	EA		250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	765.57	167.99
26 55 53 11-0138	EA		400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	780.21	167.99
26 55 53 11-0139			Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0140	EA		70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light	743.60	167.99
26 55 53 11-0141			FS (Square) Series Ruud Flood Lights (26 55 53 11-0113)		
			Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0142			High Pressure Sodium FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0143	EA		250 Watt High Pressure Sodium FS Series Ruud Flood Light	899.82	167.99
26 55 53 11-0144	EA		400 Watt High Pressure Sodium FS Series Ruud Flood Light	904.70	167.99
26 55 53 11-0145	EA		1,000 Watt High Pressure Sodium FS Series Ruud Flood Light	1,532.72	186.65
26 55 53 11-0146			Metal Halide FS Series Ruud Flood Lights (26 55 53 11-0141)		



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0147	EA	175 Watt Metal Halide FS Series Ruud Flood Light.....	899.82	167.99	
26 55 53 11-0148	EA	250 Watt Metal Halide FS Series Ruud Flood Light.....	904.70	167.99	
26 55 53 11-0149	EA	400 Watt Metal Halide FS Series Ruud Flood Light.....	919.35	167.99	
26 55 53 11-0150	EA	1,000 Watt Metal Halide FS Series Ruud Flood Light.....	1,371.62	186.65	
26 55 53 11-0151		MFS (Mini Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.			
26 55 53 11-0152		High Pressure Sodium MFS Series Ruud Flood Lights (26 55 53 11-0151)			
26 55 53 11-0153	EA	35 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	706.27	149.32	
26 55 53 11-0154	EA	50 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	757.53	149.32	
26 55 53 11-0155	EA	70 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	757.53	149.32	
26 55 53 11-0156	EA	100 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	757.53	149.32	
26 55 53 11-0157	EA	150 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	757.53	149.32	
26 55 53 11-0158		Metal Halide MFS Series Ruud Flood Lights (26 55 53 11-0151)			
26 55 53 11-0159	EA	50 Watt Metal Halide MFS Series Ruud Flood Light.....	774.62	149.32	
26 55 53 11-0160	EA	70 Watt Metal Halide MFS Series Ruud Flood Light.....	774.62	149.32	
26 55 53 11-0161	EA	100 Watt Metal Halide MFS Series Ruud Flood Light.....	774.62	149.32	
26 55 53 11-0162	EA	175 Watt Metal Halide MFS Series Ruud Flood Light.....	747.77	149.32	
26 55 53 11-0163		MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.			
26 55 53 11-0164		High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)			
26 55 53 11-0165	EA	35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	767.29	149.32	
26 55 53 11-0166	EA	50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	818.55	149.32	
26 55 53 11-0167	EA	70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	818.55	149.32	
26 55 53 11-0168	EA	100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	818.55	149.32	
26 55 53 11-0169	EA	150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	818.55	149.32	
26 55 53 11-0170		Metal Halide MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)			
26 55 53 11-0171	EA	50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	835.64	149.32	
26 55 53 11-0172	EA	70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	835.64	149.32	
26 55 53 11-0173	EA	100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	835.64	149.32	
26 55 53 11-0174	EA	175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	808.79	149.32	
26 55 53 11-0175		CF (Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.			
26 55 53 11-0176		High Pressure Sodium CF Series Ruud Flood Lights (26 55 53 11-0175)			
26 55 53 11-0177	EA	250 Watt High Pressure Sodium CF Series Ruud Flood Light	1,014.54	167.99	
26 55 53 11-0178	EA	400 Watt High Pressure Sodium CF Series Ruud Flood Light	1,038.95	167.99	
26 55 53 11-0179	EA	1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,593.74	186.65	
26 55 53 11-0180		Metal Halide CF Series Ruud Flood Lights (26 55 53 11-0175)			
26 55 53 11-0181	EA	175 Watt Metal Halide CF Series Ruud Flood Light	960.84	167.99	
26 55 53 11-0182	EA	250 Watt Metal Halide CF Series Ruud Flood Light	965.72	167.99	
26 55 53 11-0183	EA	400 Watt Metal Halide CF Series Ruud Flood Light	980.37	167.99	
26 55 53 11-0184	EA	1,000 Watt Metal Halide CF Series Ruud Flood Light	1,432.64	186.65	
26 55 53 11-0185		CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.			
26 55 53 11-0186		High Pressure Sodium CN Series Ruud Flood Lights (26 55 53 11-0185)			
26 55 53 11-0187	EA	400 High Pressure Sodium CN Series Ruud Flood Light	1,310.60	186.65	
26 55 53 11-0188	EA	1,000 High Pressure Sodium CN Series Ruud Flood Light	1,564.45	186.65	
26 55 53 11-0189		Metal Halide CN Series Ruud Flood Lights (26 55 53 11-0185)			
26 55 53 11-0190	EA	400 Watt Metal Halide CN Series Ruud Flood Light.....	1,252.01	186.65	
26 55 53 11-0191	EA	1,000 Watt Metal Halide CN Series Ruud Flood Light.....	1,403.35	186.65	
26 55 53 11-0192		PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.			
26 55 53 11-0193		High Pressure Sodium PM/PN Series Ruud Flood Lights (26 55 53 11-0192)			
26 55 53 11-0194	EA	250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	1,048.71	167.99	
26 55 53 11-0195	EA	400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	1,073.12	167.99	

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0196			Metal Halide PM/PN Series Ruud Flood Lights (26 55 53 11-0192)		
26 55 53 11-0197	EA		175 Watt Metal Halide PM/PN Series Ruud Flood Light.....	995.01	167.99
26 55 53 11-0198	EA		250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	999.89	167.99
26 55 53 11-0199	EA		400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,014.54	167.99
26 55 53 11-0200	EA		1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,466.81	186.65
26 55 53 11-0201			Accessories For Ruud Flood Lighting (26 55 53 11-0113)		
26 55 53 11-0202	EA		Wireguard For Rudd Flood Light.....	111.27	37.33
26 55 53 11-0203	EA		Deep Baffle (Full Visor) For Rudd Flood Light.....	177.18	37.33
26 55 53 11-0204	EA		Glare Guard (Upper Visor) For Rudd Flood Light.....	128.36	37.33
26 55 53 11-0205	EA		Vandal Shield For Rudd Flood Light.....	152.77	37.33
26 55 53 11-0206	EA		Pipe Mounting Bracket For Ruud Flood Light.....	306.97	111.99
26 55 53 11-0207	EA		120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	96.63	37.33
26 55 53 11-0208			Flood Lights (Lumark) (26 55 53 11)		
26 55 53 11-0209			QZ Wedge Series Quartz Lumark Flood Lights (26 55 53 11-0208)		
			Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0210	EA		500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	273.90	111.99
26 55 53 11-0211			LQL Series Quartz Lumark Flood Lights (26 55 53 11-0208)		
			Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0212	EA		1,500 Watt LQL Series Quartz Lumark Flood Light.....	345.90	111.99
26 55 53 11-0213			Flood Lights (Kim Lighting) (26 55 53 11)		
26 55 53 11-0214			MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0213)		
			Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0215			LED MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0214)		
26 55 53 11-0216	EA		5 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	577.01	48.20
			For >50 To 100, Deduct	-16.84	
			For >100 To 250, Deduct	-31.26	
			For >250 To 500, Deduct	-57.70	
			For >500, Deduct	-84.14	
26 55 53 11-0217	EA		15 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	712.48	48.20
			For >50 To 100, Deduct	-20.22	
			For >100 To 250, Deduct	-38.03	
			For >250 To 500, Deduct	-71.25	
			For >500, Deduct	-104.46	
26 55 53 11-0218			Scarab® Series Kim Lighting Flood Lights (26 55 53 11-0213)		
			Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0219			LED Scarab® Series Kim Lighting Accent Flood Lights (26 55 53 11-0218)		
			Note: Spot or narrow style accent flood lights.		
26 55 53 11-0220	EA		6 Watt, LED Scarab® Series Kim Lighting Accent Flood Light.....	878.88	48.20
			For >50 To 100, Deduct	-24.38	
			For >100 To 250, Deduct	-46.35	
			For >250 To 500, Deduct	-87.89	
			For >500, Deduct	-129.42	
26 55 53 11-0221			Flood Lights (CREE® BetaLED®) (26 55 53 11)		
26 55 53 11-0222			Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) (26 55 53 11-0221)		
			Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0223	EA		40 LEDs, 47 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,131.80	135.56
			For >50 To 100, Deduct	-35.07	
			For >100 To 250, Deduct	-63.37	
			For >250 To 500, Deduct	-113.18	
			For >500, Deduct	-162.99	
26 55 53 11-0224	EA		60 LEDs, 68 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,237.96	143.09
			For >50 To 100, Deduct	-38.10	
			For >100 To 250, Deduct	-69.05	
			For >250 To 500, Deduct	-123.80	
			For >500, Deduct	-178.54	
26 55 53 11-0225			Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) (26 55 53 11-0221)		
			Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		



Electrical			26
Lighting			26 50
Special Purpose Lighting			26 55

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0226	EA		20 LEDs, 26 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	986.38	128.03
			For 480 Volt, Add	113.84	
			For >50 To 100, Deduct	-31.06	
			For >100 To 250, Deduct	-55.72	
			For >250 To 500, Deduct	-98.64	
			For >500, Deduct	-141.56	
26 55 53 11-0227	EA		40 LEDs, 47 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,232.32	135.56
			For 480 Volt, Add	113.84	
			For >50 To 100, Deduct	-37.59	
			For >100 To 250, Deduct	-68.39	
			For >250 To 500, Deduct	-123.23	
			For >500, Deduct	-178.07	
26 55 53 11-0228	EA		60 LEDs, 68 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,478.26	143.09
			For 480 Volt, Add	113.84	
			For >50 To 100, Deduct	-44.11	
			For >100 To 250, Deduct	-81.07	
			For >250 To 500, Deduct	-147.83	
			For >500, Deduct	-214.58	
26 55 53 11-0229	EA		80 LEDs, 90 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,816.86	150.63
			For 480 Volt, Add	113.84	
			For >50 To 100, Deduct	-52.95	
			For >100 To 250, Deduct	-98.37	
			For >250 To 500, Deduct	-181.69	
			For >500, Deduct	-265.00	
26 55 53 11-0230	EA		100 LEDs, 111 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,062.81	158.15
			For 480 Volt, Add	113.84	
			For >50 To 100, Deduct	-59.48	
			For >100 To 250, Deduct	-111.05	
			For >250 To 500, Deduct	-206.28	
			For >500, Deduct	-301.51	
26 55 53 11-0231	EA		120 LEDs, 132 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,308.74	165.68
			For 480 Volt, Add	113.84	
			For >50 To 100, Deduct	-66.00	
			For >100 To 250, Deduct	-123.72	
			For >250 To 500, Deduct	-230.87	
			For >500, Deduct	-338.03	
26 55 53 11-0232	EA		140 LEDs, 157 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,628.50	173.22
			For 480 Volt, Add	113.84	
			For >50 To 100, Deduct	-74.37	
			For >100 To 250, Deduct	-140.09	
			For >250 To 500, Deduct	-262.85	
			For >500, Deduct	-385.61	
26 55 53 11-0233	EA		160 LEDs, 179 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,874.44	180.75
			For 480 Volt, Add	113.84	
			For >50 To 100, Deduct	-80.90	
			For >100 To 250, Deduct	-152.76	
			For >250 To 500, Deduct	-287.44	
			For >500, Deduct	-422.13	
26 55 53 11-0234			Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO) (26 55 53 11-0221)		
			Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0235	EA		120 LEDs, 267 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	2,216.08	165.68
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Bird Spikes, Add	45.75	
			For 5,000K Color Temperature, Add	46.31	
			For Fuse, Add	55.57	
			For 0 To 10 Volt Dimming, Add	55.57	
			For 480 Volt, Add	83.36	
			For Multi-Level, Add	120.40	
			For 1,000mA Driver, Add	155.60	
			For >50 To 100, Deduct	-63.69	
			For >100 To 250, Deduct	-119.09	
			For >250 To 500, Deduct	-221.61	
			For >500, Deduct	-324.13	
26 55 53 11-0236	EA		240 LEDs, 533 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	3,730.69	203.34
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For 5,000K Color Temperature, Add	46.31	
			For Fuse, Add	55.57	
			For 0 To 10 Volt Dimming, Add	55.57	
			For Bird Spikes, Add	67.02	
			For Multi-Level, Add	120.40	
			For 1,000mA Driver, Add	155.60	
			For 480 Volt, Add	166.71	
			For >50 To 100, Deduct	-103.43	
			For >100 To 250, Deduct	-196.70	
			For >250 To 500, Deduct	-373.07	
			For >500, Deduct	-549.44	

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST
26 55 53 11-0237		Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) (26 55 53 11-0221)				
		Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.				
26 55 53 11-0238	EA	112 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL)	1,323.32		165.68	
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52			
		For Front Facing Optics, Back Light Shield, Add	36.01			
		For Rotated Optics, Back Light Shield, Add	36.01			
		For Field Adjustable Output, Add	27.79			
		For Fuse, Add	55.57			
		For 0 To 10 Volt Dimming, Add	55.57			
		For Multi-Level, Add	120.40			
		For >50 To 100, Deduct	-41.37			
		For >100 To 250, Deduct	-74.45			
		For >250 To 500, Deduct	-132.33			
		For >500, Deduct	-190.21			
26 55 53 11-0239	EA	168 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL)	1,410.85		165.68	
		Note: Type III, IV or V medium optics only.				
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52			
		For Front Facing Optics, Back Light Shield, Add	36.01			
		For Rotated Optics, Back Light Shield, Add	36.01			
		For Field Adjustable Output, Add	27.79			
		For Fuse, Add	55.57			
		For 0 To 10 Volt Dimming, Add	55.57			
		For Type II Medium Or Type V Short Optics, Add	602.16			
		For Multi-Level, Add	120.40			
		For >50 To 100, Deduct	-43.56			
		For >100 To 250, Deduct	-78.83			
		For >250 To 500, Deduct	-141.09			
		For >500, Deduct	-203.34			
26 55 53 11-0240	EA	223 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL)	1,807.08		203.34	
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52			
		For Field Adjustable Output, Add	27.79			
		For Front Facing Optics, Back Light Shield, Add	43.67			
		For Rotated Optics, Back Light Shield, Add	43.67			
		For Fuse, Add	55.57			
		For 0 To 10 Volt Dimming, Add	55.57			
		For Multi-Level, Add	120.40			
		For >50 To 100, Deduct	-55.34			
		For >100 To 250, Deduct	-100.52			
		For >250 To 500, Deduct	-180.71			
		For >500, Deduct	-260.90			
26 55 53 11-0241		Flood Lights (PlanLED) (26 55 53 11)				
26 55 53 11-0242		Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA) (26 55 53 11-0241)				
26 55 53 11-0243	EA	6,250 Lumens, 50 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050)	708.45		135.56	
		For >50 To 100, Deduct	-24.49			
		For >100 To 250, Deduct	-42.20			
		For >250 To 500, Deduct	-70.85			
		For >500, Deduct	-99.49			
26 55 53 11-0244	EA	9,375 Lumens, 75 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075)	846.85		143.09	
		For >50 To 100, Deduct	-28.33			
		For >100 To 250, Deduct	-49.50			
		For >250 To 500, Deduct	-84.69			
		For >500, Deduct	-119.87			
26 55 53 11-0245	EA	12,500 Lumens, 100 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100)	977.10		154.38	
		For >50 To 100, Deduct	-32.15			
		For >100 To 250, Deduct	-56.57			
		For >250 To 500, Deduct	-97.71			
		For >500, Deduct	-138.85			
26 55 53 11-0246		Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA) (26 55 53 11-0241)				
26 55 53 11-0247	EA	21,000 Lumens, 200 Watt, LED Sports Flood Light (PlanLED SUFA SF200)	1,981.75		301.24	
		For 0 To 10 Volt Dimming, Add	96.89			
		For >50 To 100, Deduct	-64.61			
		For >100 To 250, Deduct	-114.15			
		For >250 To 500, Deduct	-198.18			
		For >500, Deduct	-282.20			
26 55 53 11-0248	EA	42,000 Lumens, 400 Watt, LED Sports Flood Light (PlanLED SUFA SF400)	3,069.45		301.24	
		For 0 To 10 Volt Dimming, Add	96.89			
		For >50 To 100, Deduct	-91.80			
		For >100 To 250, Deduct	-168.53			
		For >250 To 500, Deduct	-306.95			
		For >500, Deduct	-445.36			



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0249	EA		84,000 Lumens, 800 Watt, LED Sports Flood Light (PlanLED SUFA SF800) <i>For 0 To 10 Volt Dimming, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	5,410.83 96.89 -150.33 -285.60 -541.08 -796.56	301.24
26 55 53 11-0250			Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA) (26 55 53 11-0249)		
26 55 53 11-0251	EA		26,000 Lumens, 200 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200) <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	1,752.94 96.89 145.78 -53.61 -97.44 -175.29 -253.15	195.81
26 55 53 11-0252	EA		39,000 Lumens, 300 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300) <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2,243.45 96.89 117.75 -66.25 -122.34 -224.35 -326.35	203.34
26 55 53 11-0253	EA		52,000 Lumens, 400 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400) <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2,861.79 96.89 95.48 -82.09 -153.63 -286.18 -418.73	210.87
26 55 53 12			Security Hazardous Location Flood Lights (26 55 53) Note: For general to heavy industrial applications in marine and corrosive environments. Class 1 Division 2.		
26 55 53 12-0001			Lithonia Hazardous Location Flood Lights (26 55 53 12)		
26 55 53 12-0002			HFR (Horizontally Oriented Mogul Base) Series Hazardous Location Flood Lights (26 55 53 12-0001) Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 55 53 12-0003			High Pressure Sodium HFR Series Hazardous Location Flood Lights (26 55 53 12-0002)		
26 55 53 12-0004	EA		150 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,104.89	149.32
26 55 53 12-0005	EA		250 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,180.56	149.32
26 55 53 12-0006	EA		400 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,107.33	149.32
26 55 53 12-0007			Metal Halide HFR Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0002)		
26 55 53 12-0008	EA		250 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,172.48	149.32
26 55 53 12-0009	EA		400 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,136.63	149.32
26 55 53 12-0010			HFM (Medium Base) Series Hazardous Location Flood Lights (26 55 53 12-0001) Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 55 53 12-0011			High Pressure Sodium HFM Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0010)		
26 55 53 12-0012	EA		100 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,052.88	149.32
26 55 53 12-0013	EA		150 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,098.03	149.32
26 55 53 12-0014			Metal Halide HFM Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0010)		
26 55 53 12-0015	EA		175 Watt Metal Halide HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	930.83	149.32
26 55 53 12-0016			HFA (Large) Series Hazardous Location Flood Lights (26 55 53 12-0001) Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 55 53 12-0017			High Pressure Sodium HFA Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0016)		
26 55 53 12-0018	EA		250 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,488.78	186.65
26 55 53 12-0019	EA		400 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,510.75	186.65
26 55 53 12-0020			Metal Halide HFA Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0016)		

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 12-0021 EA 250 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,481.46	186.65
26 55 53 12-0022 EA 400 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,510.75	186.65
26 55 53 12-0023 HFL (Medium) Series Hazardous Location Flood Lights (26 55 53 12-0001) Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 55 53 12-0024 High Pressure Sodium HFL Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0023)		
26 55 53 12-0025 EA 400 Watt High Pressure Sodium HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	1,104.85	167.99
26 55 53 12-0026 Metal Halide HFL Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0023)		
26 55 53 12-0027 EA 400 Watt Metal Halide HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	1,190.29	167.99
26 55 53 12-0028 Accessories For Lithonia Hazardous Location Flood Lights (26 55 53 12-0001) See CSI section 26 55 53 11-0099 for accessories.		
26 55 53 13 Security High Performance Flood Lights (26 55 53) Note: For airport aprons and parking areas.		
26 55 53 13-0001 Lithonia High Performance Flood Lights (26 55 53 13)		
26 55 53 13-0002 170S Series Lithonia High Performance Flood Lights (26 55 53 13-0001) Note: Die-cast aluminum housing welded seams, stainless steel hardware, corrosion resistant polyester powder finish, and thermal and shock resistant flat lens.		
26 55 53 13-0003 High Pressure Sodium 170S Series Lithonia High Performance Flood Lights (26 55 53 13-0002)		
26 55 53 13-0004 EA 250 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	2,569.09	223.98
26 55 53 13-0005 EA 400 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	2,769.25	223.98
26 55 53 13-0006 EA 750 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	2,779.01	223.98
26 55 53 13-0007 EA 1,000 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	3,084.12	223.98
26 55 53 13-0008 Metal Halide 170S Series Lithonia High Performance Flood Lights (26 55 53 13-0002)		
26 55 53 13-0009 EA 320 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	2,957.20	223.98
26 55 53 13-0010 EA 350 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	2,821.85	223.98
26 55 53 13-0011 EA 400 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	2,693.58	223.98
26 55 53 13-0012 EA 1,000 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	2,820.50	223.98
26 55 53 13-0013 Accessories For Lithonia High Performance Flood Lights (26 55 53 13-0002) See CSI section 26 55 53 11-0099 for accessories.		
26 55 61 Theatrical Lighting (26 55)		
26 55 61 00-0001 Stage Lighting (26 55 61)		
26 55 61 00-0002 EA Ellipsoidal Spotlight, Two 6" x 9" Lenses	697.61	167.12
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0003 EA Ellipsoidal Spotlight, Two 6" x 12" Lenses	697.61	167.12
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0004 EA Ellipsoidal Spotlight, Two 6" x 16" Lenses	697.61	167.12
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0005 EA 14" Scoop Floodlight (Altman #SC14)	719.57	167.12
26 55 61 00-0006 EA 6" Diameter Fresnel Spotlight, Spherical Specular Alzak1	570.99	167.12
Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, c-clamp, safety cable, color frame, male pin connector and lamp.		
26 55 61 00-0007 EA 8" Diameter Fresnel Spotlight, Spherical Specular Alzak	925.48	167.12
Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, C-clamp, safety cable, color frame, male pin connector and lamp.		
26 55 61 00-0008 EA Follow Spotlight With Steel Chassis And Lightweight	2,402.05	167.12
Note: Aluminum housing, includes lamp adjustment plate, silent lamp fan, dowser, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand.		
26 55 61 00-0009 EA Follow Spotlight With Steel Chassis And Lightweight	2,890.96	167.12
Note: Aluminum housing, includes lamp adjustment plate, ballast, electronic power supply, stepdown transformer, silent lamp fan, dowser, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand.		
26 55 61 00-0010 EA 300 To 1000 Watt, PAR 64 Can Lighting With 20 Gauge Sheet Steel.....	521.79	167.12
Note: Formed lamp housing, hinged and latched rear housing secured by retention ring, safety cable, safety screen, PAR 64 lamp, male pin connector.		
26 55 61 00-0011 EA 6' Length, Multi-Lamp Compartmented Striplighting Luminaire.....	1,833.32	167.12
Note: With continuous sheet steel housing, supported by 1-1/2" x 3/16" steel yoke with C-clamp, includes 30 lights per section wired on 3 circuits, alzak aluminum reflector with matte finish.		
26 55 61 00-0012 EA 1,000 Watt, 25 To 125' Throw, Follow Spotlight (Times Square Lighting QF1000S)	3,114.53	167.12
26 55 63 Detention Lighting (26 55)		



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 63 00-0001 Maximum Security Recessed Luminaire (26 55 63)					
Note: Failsafe - FMR series.					
26 55 63 00-0002	EA	12" x 48", Two 32 Watt, T8 Fluorescent Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,273.82	45.22	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0003	EA	12" x 48", Three 32 Watt, Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,397.42	45.22	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0004	EA	24" x 24", Two 17 Watt, Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,225.78	54.29	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0005	EA	24" x 48", Two 32 Watt, Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,672.12	63.32	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0006	EA	24" x 48", Three 32 Watt, Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,672.12	63.32	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0007	EA	24" x 48", Four 32 Watt, Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,672.12	63.32	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0008	EA	12" x 48", Two 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,273.82	45.22	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0009	EA	12" x 48", Three 32 Watt, Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,459.22	45.22	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0010	EA	24" x 24", Two 17 Watt, T8 Fluorescent Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,287.58	54.29	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.187" clear tempered glass environmental side.					
26 55 63 00-0011	EA	24" x 48", Two 32 Watt, Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,486.73	63.33	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.187" clear tempered glass environmental side.					
26 55 63 00-0012	EA	24" x 48", Three 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,486.73	63.33	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.187" clear tempered glass environmental side.					
26 55 63 00-0013	EA	24" x 48", Four 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,486.73	63.33	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.187" clear tempered glass environmental side.					
26 55 63 00-0014	EA	12" x 48", Two 32 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire	1,119.33	45.22	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0015	EA	12" x 48", Three 32 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire	1,119.33	45.22	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0016	EA	24" x 24", Two 17 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire	1,349.38	54.29	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0017	EA	24" x 48", Two 32 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire	1,610.32	63.32	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0018	EA	24" x 48", Three 32 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire	1,622.68	63.32	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0019	EA	24" x 48", Four 32 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire	1,622.68	63.32	
Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.					
26 55 63 00-0020 Maximum Security Surface Luminaire (26 55 63)					
Note: Failsafe - FMR series.					
26 55 63 00-0021	EA	12" x 24", Two 32 Watt, Lamps, 12 Gauge, Maximum Security Surface Luminaire	1,150.22	45.22	
Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.					
26 55 63 00-0022	EA	12" x 24", Three 32 Watt, Lamps, 12 Gauge, Maximum Security Surface Luminaire	1,428.32	45.22	
Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.					
26 55 63 00-0023	EA	12" x 48", Two 32 Watt, Lamps, 14 Gauge, Maximum Security Surface Luminaire	1,088.43	45.22	
Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.					
26 55 63 00-0024	EA	12" x 48", Three 32 Watt, Lamps, 14 Gauge, Maximum Security Surface Luminaire	1,088.43	45.22	
Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.					
26 55 63 00-0025	EA	19" x 24", Two 17 Watt, Lamps, 14 Gauge, Maximum Security Surface Luminaire	1,071.29	54.29	
Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.					
26 55 63 00-0026	EA	19" x 48", Two 32 Watt, Lamps, 14 Gauge, Maximum Security Surface Luminaire	1,325.35	58.80	
Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.					
26 55 63 00-0027	EA	19" x 48", Three 32 Watt, Lamps, 14 Gauge, Ultimax Surface Luminaire	1,356.25	58.80	
Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.					
26 55 63 00-0028	EA	16" x 48", Four 32 Watt, T8 Fluorescent Lamps, 14 Gauge, Maximum Security Surface Luminaire	1,356.25	58.80	
Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.					

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 63 00-0029		Ultimax Surface Luminaire (26 55 63) Note: Failsafe - FMR series.		
26 55 63 00-0030	EA	12" x 48", Two 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,063.00	45.22
26 55 63 00-0031	EA	12" x 48", Three 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,377.11	45.22
26 55 63 00-0032	EA	24" x 24", Two 17 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,182.24	54.29
26 55 63 00-0033	EA	24" x 48", Two 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,214.10	63.32
26 55 63 00-0034	EA	24" x 48", Three 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,219.23	63.32
26 55 63 00-0035	EA	24" x 48", Four 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,224.36	63.32
26 55 63 00-0036		Maximum Security Wall Luminaire (26 55 63) Note: Failsafe - FMR series.		
26 55 63 00-0037	EA	10.5" x 48", Two 32 Watt Lamps, 14 Gauge, Maximum Security Wall Luminaire Note: 1 up, 1 down, 1 electronic ballast for T8 lamps. 0.005" UV absorbing inner level overlay, 0.375" clear polycarbonate environmental side.	1,397.42	45.39
26 55 63 00-0038	EA	10.5" x 48", Three 32 Watt, T8 Lamps, 14 Gauge, Maximum Security Wall Luminaire Note: 1 up, 2 down, 1 electronic ballast for T8 lamps. 0.005" UV absorbing inner level overlay, 0.375" clear polycarbonate environmental side.	1,397.42	45.39
26 55 63 00-0039	EA	10.5" x 48", Four 32 Watt, T8 Lamps, 14 Gauge, Maximum Security Wall Luminaire Note: 2 up, 2 down, 1 electronic ballast for T8 lamps. 0.005" UV absorbing inner level overlay, 0.375" clear polycarbonate environmental side.	1,397.42	45.39
26 55 68		Athletic Field Lighting (26 55)		
26 55 68 00-0001		Sports Lighting System (26 55 68) Note: Musco.		
26 55 68 00-0002		Round Steel Tapered Poles (26 55 68 00-0001) Note: With Internal wiring harness.		
26 55 68 00-0003	EA	20' Steel Tapered Pole With Precast Concrete Foundation Sleeve	4,362.75	716.73
26 55 68 00-0004	EA	25' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,249.52	866.04
26 55 68 00-0005	EA	30' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,918.68	940.70
26 55 68 00-0006	EA	35' Steel Tapered Pole With Precast Concrete Foundation Sleeve	6,475.23	978.03
26 55 68 00-0007	EA	40' Steel Tapered Pole With Precast Concrete Foundation Sleeve	8,135.94	1,015.36
26 55 68 00-0008	EA	45' Steel Tapered Pole With Precast Concrete Foundation Sleeve	9,332.75	1,239.34
26 55 68 00-0009	EA	50' Steel Tapered Pole With Precast Concrete Foundation Sleeve	10,030.40	1,314.01
26 55 68 00-0010	EA	55' Steel Tapered Pole With Precast Concrete Foundation Sleeve	11,394.03	1,493.19
26 55 68 00-0011	EA	60' Steel Tapered Pole With Precast Concrete Foundation Sleeve	12,937.08	1,679.84
26 55 68 00-0012	EA	65' Steel Tapered Pole With Precast Concrete Foundation Sleeve	14,361.67	1,880.36
26 55 68 00-0013	EA	70' Steel Tapered Pole With Precast Concrete Foundation Sleeve	15,663.16	2,101.58
26 55 68 00-0014	EA	75' Steel Tapered Pole With Precast Concrete Foundation Sleeve	17,074.94	2,359.66
26 55 68 00-0015	EA	80' Steel Tapered Pole With Precast Concrete Foundation Sleeve	19,148.47	2,838.97
26 55 68 00-0016		Steel Pole Brackets (26 55 68 00-0001)		
26 55 68 00-0017	EA	Two Light Bracket	606.26	74.66
26 55 68 00-0018	EA	Three Light Bracket	763.58	104.52
26 55 68 00-0019	EA	Four Light Bracket	1,098.44	126.92
26 55 68 00-0020	EA	Five Light Bracket	1,252.31	149.32
26 55 68 00-0021	EA	Six Light Bracket	1,518.16	171.72
26 55 68 00-0022	EA	Seven Light Bracket	1,738.30	194.11
26 55 68 00-0023	EA	Eight Light Bracket	1,987.11	223.98
26 55 68 00-0024	EA	Nine Light Bracket	2,244.58	246.37
26 55 68 00-0025		Light Fixtures (26 55 68 00-0001)		
26 55 68 00-0026	EA	120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug <i>For 1,500 Watt Metal Halide Lamp, Add</i>	1,494.46 16.01	
26 55 68 00-0027		Electrical Component Enclosure (26 55 68 00-0001) Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.		
26 55 68 00-0028	EA	Electrical Component Enclosure For 2 Lights, Pole Mounted	1,083.97	89.39
26 55 68 00-0029	EA	Electrical Component Enclosure For 3 Lights, Pole Mounted	1,626.79	137.53
26 55 68 00-0030	EA	Electrical Component Enclosure For 4 Lights, Pole Mounted	1,866.33	171.90
26 55 68 00-0031	EA	Electrical Component Enclosure For 5 Lights, Pole Mounted	2,412.67	192.54
26 55 68 00-0032	EA	Electrical Component Enclosure For 6 Lights, Pole Mounted	2,712.57	206.29



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 68 00-0033 Accessories (26 55 68 00-0001)		
26 55 68 00-0034 EA Time Delay Kit (Musco®).....	1,115.83	275.45
26 55 68 00-0035 EA Remote Switch Box Push Button (Musco®)	2,245.71	275.45
26 55 68 00-0036 EA Push Button Strobe Kit (Musco®).....	2,697.67	275.45
26 55 68 00-0037 EA Additional Control-Link Unit (Musco®).....	12,951.51	826.35
26 55 68 00-0038 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®)	1,404.94	137.53
26 55 68 00-0039 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®)	1,679.98	275.06
26 55 70 Healthcare Lighting (26 55)		
26 55 70 00-0001 Surgical Lighting Fixtures (26 55 70)		
26 55 70 00-0002 EA Surgical Lighting Fixture, 120 Volt, Max Va 126, 100 Volt Halogen.....	6,297.67	
26 55 70 00-0003 EA Install Owner Furnished Surgical Lights	806.66	
26 55 70 00-0004 Patient Care Fluorescent Fixtures (26 55 70)		
26 55 70 00-0005 Ambient And Exam Combination, Patient Care Fluorescent Fixtures (Cooper Fail-Safe) (26 55 70 00-0004)		
Note: Includes ambient and exam lights, 20 gauge steel housing with powder coated finish, acrylic diffuser and electronic ballast.		
26 55 70 00-0006 EA 2' x 2', 3 T8 Ambient Lamps, 2 T8 Exam Lamps, Multi-Function Patient Care Fluorescent Troffer (Cooper MAE)	1,552.94	63.26
26 55 70 00-0007 EA 2' x 4', 3 T8 Ambient Lamps, 2 T8 Exam Lamps, Multi-Function Patient Care Fluorescent Troffer (Cooper MAE)	1,713.90	63.26
26 55 70 00-0008 EA 2' x 4', 2 Biax Ambient Lamps, 4 Biax Exam Lamps, Multi-Function Patient Care Fluorescent Troffer (Cooper MPR2)	1,394.47	63.26
26 55 70 00-0009 Reading, Ambient And Exam Combination, Patient Care Fluorescent Fixtures (Cooper Fail-Safe) (26 55 70 00-0004)		
Note: Includes reading, ambient and exam lights, 20 gauge steel housing with powder coated finish, acrylic diffuser and electronic ballast.		
26 55 70 00-0010 EA 2' x 4', 1 Biax Reading Lamp, 2 Biax Ambient Lamps, 3 Biax Exam Lamps, Multi-Function Patient Care Fluorescent Troffer (Cooper MPR)	1,540.79	63.26
26 55 70 00-0011 Multi-Function Patient Care Fluorescent Fixtures (Day-Brite MPC) (26 55 70 00-0004)		
Note: Includes reading, ambient, exam and nurses light, steel housing with baked enamel finish, acrylic diffuser and electronic ballasts.		
26 55 70 00-0012 EA 2' x 4', 6 40W T5 Lamps, Multi-Function Patient Care Fluorescent Fixture (Day-Brite MPC)	2,336.26	63.26
26 55 70 00-0013 Patient Room Lighting Fixtures (26 55 70)		
26 55 70 00-0014 EA Hill-Rom Integris Patient Room Light.....	1,102.88	55.01
26 55 70 00-0015 Exam And Surgical Lighting Fixtures (26 55 70)		
26 55 70 00-0016 EA Dual Intensity, K-arm, Ceiling Mounted, Exam Light (Burton PHL-NXC)	1,046.43	68.76
26 55 70 00-0017 EA Ceiling Mounted, Spot Exam Light (Sunnex SNX-HM2017-44EXT)	1,810.40	68.76
26 55 70 00-0018 EA Ceiling Mounted, LED Exam Light (Bovie BOV-XLDP-SC)	3,983.83	68.76
26 55 70 00-0019 EA Two LED Series, Ceiling Mounted, Surgical Light With Monitor And Monitor Arm (Bovie BOV-XLDS-S2MA)	19,316.03	91.73
26 55 70 00-0020 EA Two LED Series, Triple Ceiling Mounted, Surgical Light With Monitor And Monitor Arm (Bovie BOV-XLDS-S23MA)	27,908.23	137.53
26 55 70 00-0021 EA Double Ceiling Mounted, Dual Spot Exam Lights (Burton PHL-CS316DC)	6,475.68	91.73
26 55 70 00-0022 EA Double Ceiling Mounted, Dual Y Shape Lamp Heads (Burton PHL-A50DC).....	6,954.44	91.73
26 55 70 00-0023 EA Double Ceiling Mounted, Halogen Bulbs (Burton PHL-OP216DC).....	5,875.96	91.73
26 55 70 00-0024 EA 360 Degree Rotation, 120 Volt, Double Ceiling Mounted, Surgical Light (Burton PHL-A100DC)	8,216.22	137.53
26 55 70 00-0025 EA Double Ceiling Mounted, Spot Examination Lights (Burton PHL-CS316DT)	9,020.38	91.73
26 55 70 00-0026 EA Double Ceiling Mounted, Y Shaped Examination Light (Burton PHL-OP216DT)	8,510.61	91.73
26 55 70 00-0027 EA Double Ceiling Mounted, Examination/Spot Combination Light (Burton PHL-OC516CC)	6,189.16	110.02
26 55 70 00-0028 EA Double Ceiling Mounted, LED Procedure Light (Bovie BOV-XLDP-DC).....	8,197.11	91.73
26 55 70 00-0029 EA Double Ceiling Mounted, LED Examination Light (Burton PHL-ALEDCC).....	7,499.66	137.53
26 55 70 00-0030 EA Two Monitor Arm, Ceiling Mounted, Exam Light (Bovie BOV-XLDS-MA).....	8,556.55	91.73
26 55 70 00-0031 EA 360 Degree Rotation, 120 Volt, Single Ceiling Mounted Surgical Light (Burton PHL-A100SC).....	4,597.23	78.52
26 55 70 00-0032 EA 360 Degree Rotation, Autoclavable Handle, Ceiling Mounted Surgical Light (Burton PHL-APXSC8)	13,549.65	78.52
26 55 70 00-0033 EA Ceiling Mounted Surgical Light (Burton PHL-A200SC).....	6,728.32	78.52
26 55 70 00-0034 EA MRI Compatible, Ceiling Mounted Surgical Light (Sunnex SNX-CS2050C-MRI)	6,684.61	78.52
26 55 70 00-0035 EA Ceiling Mounted LED Surgical Light (Bovie BOV-XLD-SC)	5,157.71	78.52
26 55 70 00-0036 EA Ceiling Mounted LED Surgical Light With Battery Pack (Bovie BOV-XLD-SCB)	7,677.00	78.52
26 55 70 00-0037 EA Ceiling Mounted Two LED Series Surgical Light (Bovie BOV-XLDS-S2)	11,893.07	78.52
26 55 70 00-0038 EA Dual Ceiling Mounted LED Series Surgical Light And HD Video Camera Arm (Bovie BOV-XLDS-S2VC)	21,631.81	78.52
26 55 70 00-0039 EA Medical Illumination, Single Trolley Shuttle Track, Ceiling Mounted Surgical Light (Medical Illumination MII-64011)	3,081.75	78.52
26 55 70 00-0040 EA Double Ceiling Mounted, Surgical Light (Burton PHL-A200DC)	12,078.23	137.53
26 55 70 00-0041 EA Double Ceiling Mounted, Surgical Light (Burton PHL-APXDC8)	26,390.94	137.53
26 55 70 00-0042 EA Double Ceiling Mounted, LED Surgical Light (Bovie BOV-XLD-DC).....	9,843.74	137.53
26 55 70 00-0043 EA Double Ceiling Mounted, Autoclavable Handle, LED Surgical Light (Sunnex SNX-CSLED-D)	7,140.48	137.53
26 55 70 00-0044 EA Triple Ceiling Mounted, LED Series Surgical Light (Bovie BOV-XLDS-S23)	31,023.38	157.20
26 55 70 00-0045 EA Triple Ceiling Mounted, LED Series Surgical Light And Monitor Arm (Bovie BOV-XLDS-S23MA)	27,986.76	157.20

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 56 Exterior Lighting (26 50)**26 56 13 Lighting Poles and Standards** (26 56)

26 56 13 00-0001	Poles And Standards (26 56 13) See CSI section 26 05 46 00-0001 for additional pole.		
26 56 13 00-0002	Roadway Light Poles (26 56 13 00-0001) Note: Excludes lighting fixtures.		
26 56 13 00-0003	Steel Roadway Light Poles (26 56 13 00-0002) Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0004	Round Tapered, Steel Roadway Light Poles (26 56 13 00-0003)		
26 56 13 00-0005	Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0004)		
26 56 13 00-0006	Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0005)		
26 56 13 00-0007	EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,789.37 56.80 -69.73 -139.47 -231.60	447.95
26 56 13 00-0008	EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,794.05 56.94 -69.85 -139.70 -231.95	447.95
26 56 13 00-0009	EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,120.41 57.78 -78.01 -156.02 -263.89	597.27
26 56 13 00-0010	EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,176.68 59.46 -79.42 -158.83 -268.11	597.27
26 56 13 00-0011	EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,232.96 61.15 -80.82 -161.65 -272.34	597.27
26 56 13 00-0012	EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,394.14 61.51 -84.85 -169.71 -288.16	671.93
26 56 13 00-0013	EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,420.82 62.31 -85.52 -171.04 -290.16	671.93
26 56 13 00-0014	EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,425.90 62.46 -85.65 -171.30 -290.54	671.93
26 56 13 00-0015	EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,595.29 65.30 -89.88 -179.76 -305.11	709.26
26 56 13 00-0016	EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,615.45 65.91 -90.39 -180.77 -306.62	709.26



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0017	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,637.46	709.26
			For Galvanized Finish, Add	66.57	
			For >10 To 20, Deduct	-90.94	
			For >20 To 40, Deduct	-181.87	
			For >40, Deduct	-308.27	
26 56 13 00-0018	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,106.35	746.59
			For Galvanized Finish, Add	78.39	
			For >10 To 20, Deduct	-102.66	
			For >20 To 40, Deduct	-205.32	
			For >40, Deduct	-345.31	
26 56 13 00-0019	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,113.53	746.59
			For Galvanized Finish, Add	78.61	
			For >10 To 20, Deduct	-102.84	
			For >20 To 40, Deduct	-205.68	
			For >40, Deduct	-345.84	
26 56 13 00-0020	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,120.62	746.59
			For Galvanized Finish, Add	78.82	
			For >10 To 20, Deduct	-103.02	
			For >20 To 40, Deduct	-206.03	
			For >40, Deduct	-346.38	
26 56 13 00-0021			Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms (26 56 13 00-0005)		
26 56 13 00-0022	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,449.41	522.61
			For Galvanized Finish, Add	72.13	
			For >10 To 20, Deduct	-86.24	
			For >20 To 40, Deduct	-172.47	
			For >40, Deduct	-284.84	
26 56 13 00-0023	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,516.81	541.28
			For Galvanized Finish, Add	73.03	
			For >10 To 20, Deduct	-87.92	
			For >20 To 40, Deduct	-175.84	
			For >40, Deduct	-290.82	
26 56 13 00-0024	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,576.80	559.94
			For Galvanized Finish, Add	73.71	
			For >10 To 20, Deduct	-89.42	
			For >20 To 40, Deduct	-178.84	
			For >40, Deduct	-296.26	
26 56 13 00-0025	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,553.12	671.93
			For Galvanized Finish, Add	66.28	
			For >10 To 20, Deduct	-88.83	
			For >20 To 40, Deduct	-177.66	
			For >40, Deduct	-300.08	
26 56 13 00-0026	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,602.38	690.60
			For Galvanized Finish, Add	66.64	
			For >10 To 20, Deduct	-90.06	
			For >20 To 40, Deduct	-180.12	
			For >40, Deduct	-304.71	
26 56 13 00-0027	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,644.55	709.26
			For Galvanized Finish, Add	66.78	
			For >10 To 20, Deduct	-91.11	
			For >20 To 40, Deduct	-182.23	
			For >40, Deduct	-308.80	
26 56 13 00-0028	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,849.82	746.59
			For Galvanized Finish, Add	70.70	
			For >10 To 20, Deduct	-96.25	
			For >20 To 40, Deduct	-192.49	
			For >40, Deduct	-326.07	
26 56 13 00-0029	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,894.40	765.26
			For Galvanized Finish, Add	70.92	
			For >10 To 20, Deduct	-97.36	
			For >20 To 40, Deduct	-194.72	
			For >40, Deduct	-330.34	
26 56 13 00-0030	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,936.33	783.92
			For Galvanized Finish, Add	71.05	
			For >10 To 20, Deduct	-98.41	
			For >20 To 40, Deduct	-196.82	
			For >40, Deduct	-334.42	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0031	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,078.87	783.92
			For Galvanized Finish, Add	75.33	
			For >10 To 20, Deduct	-101.97	
			For >20 To 40, Deduct	-203.94	
			For >40, Deduct	-345.11	
26 56 13 00-0032	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,147.40	802.59
			For Galvanized Finish, Add	76.27	
			For >10 To 20, Deduct	-103.69	
			For >20 To 40, Deduct	-207.37	
			For >40, Deduct	-351.18	
26 56 13 00-0033	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,214.31	821.25
			For Galvanized Finish, Add	77.15	
			For >10 To 20, Deduct	-105.36	
			For >20 To 40, Deduct	-210.72	
			For >40, Deduct	-357.14	
26 56 13 00-0034	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,562.19	821.25
			For Galvanized Finish, Add	87.59	
			For >10 To 20, Deduct	-114.05	
			For >20 To 40, Deduct	-228.11	
			For >40, Deduct	-383.23	
26 56 13 00-0035	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,604.20	839.92
			For Galvanized Finish, Add	87.73	
			For >10 To 20, Deduct	-115.11	
			For >20 To 40, Deduct	-230.21	
			For >40, Deduct	-387.31	
26 56 13 00-0036	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,646.36	858.58
			For Galvanized Finish, Add	87.88	
			For >10 To 20, Deduct	-116.16	
			For >20 To 40, Deduct	-232.32	
			For >40, Deduct	-391.41	

26 56 13 00-0037 Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms

(26 56 13 00-0005)

26 56 13 00-0038	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,144.41	746.59
			For Galvanized Finish, Add	79.54	
			For >10 To 20, Deduct	-103.61	
			For >20 To 40, Deduct	-207.22	
			For >40, Deduct	-348.16	
26 56 13 00-0039	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,223.82	783.92
			For Galvanized Finish, Add	79.68	
			For >10 To 20, Deduct	-105.60	
			For >20 To 40, Deduct	-211.19	
			For >40, Deduct	-355.98	
26 56 13 00-0040	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	4,310.33	821.25
			For Galvanized Finish, Add	80.03	
			For >10 To 20, Deduct	-107.76	
			For >20 To 40, Deduct	-215.52	
			For >40, Deduct	-364.34	
26 56 13 00-0041	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,412.56	821.25
			For Galvanized Finish, Add	83.10	
			For >10 To 20, Deduct	-110.31	
			For >20 To 40, Deduct	-220.63	
			For >40, Deduct	-372.00	
26 56 13 00-0042	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,494.22	858.58
			For Galvanized Finish, Add	83.31	
			For >10 To 20, Deduct	-112.36	
			For >20 To 40, Deduct	-224.71	
			For >40, Deduct	-380.00	
26 56 13 00-0043	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	4,573.64	895.91
			For Galvanized Finish, Add	83.45	
			For >10 To 20, Deduct	-114.34	
			For >20 To 40, Deduct	-228.68	
			For >40, Deduct	-387.82	
26 56 13 00-0044	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,681.83	858.58
			For Galvanized Finish, Add	88.94	
			For >10 To 20, Deduct	-117.05	
			For >20 To 40, Deduct	-234.09	
			For >40, Deduct	-394.07	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0045	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,761.25	895.91
			For Galvanized Finish, Add	89.08	
			For >10 To 20, Deduct	-119.03	
			For >20 To 40, Deduct	-238.06	
			For >40, Deduct	-401.89	
26 56 13 00-0046	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,840.66	933.24
			For Galvanized Finish, Add	89.23	
			For >10 To 20, Deduct	-121.02	
			For >20 To 40, Deduct	-242.03	
			For >40, Deduct	-409.71	
26 56 13 00-0047	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	5,018.02	895.91
			For Galvanized Finish, Add	96.79	
			For >10 To 20, Deduct	-125.45	
			For >20 To 40, Deduct	-250.90	
			For >40, Deduct	-421.15	
26 56 13 00-0048	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,097.20	933.24
			For Galvanized Finish, Add	96.92	
			For >10 To 20, Deduct	-127.43	
			For >20 To 40, Deduct	-254.86	
			For >40, Deduct	-428.95	
26 56 13 00-0049	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,181.37	970.57
			For Galvanized Finish, Add	97.21	
			For >10 To 20, Deduct	-129.53	
			For >20 To 40, Deduct	-259.07	
			For >40, Deduct	-437.13	
26 56 13 00-0050 Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0005)					
26 56 13 00-0051	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,602.58	821.25
			For Galvanized Finish, Add	88.80	
			For >10 To 20, Deduct	-115.06	
			For >20 To 40, Deduct	-230.13	
			For >40, Deduct	-386.26	
26 56 13 00-0052	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	4,721.66	877.25
			For Galvanized Finish, Add	89.02	
			For >10 To 20, Deduct	-118.04	
			For >20 To 40, Deduct	-236.08	
			For >40, Deduct	-397.99	
26 56 13 00-0053	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	4,838.32	933.24
			For Galvanized Finish, Add	89.16	
			For >10 To 20, Deduct	-120.96	
			For >20 To 40, Deduct	-241.92	
			For >40, Deduct	-409.54	
26 56 13 00-0054	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,899.83	895.91
			For Galvanized Finish, Add	93.24	
			For >10 To 20, Deduct	-122.50	
			For >20 To 40, Deduct	-244.99	
			For >40, Deduct	-412.28	
26 56 13 00-0055	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,016.82	951.91
			For Galvanized Finish, Add	93.39	
			For >10 To 20, Deduct	-125.42	
			For >20 To 40, Deduct	-250.84	
			For >40, Deduct	-423.86	
26 56 13 00-0056	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	5,106.40	1,007.90
			For Galvanized Finish, Add	92.72	
			For >10 To 20, Deduct	-127.66	
			For >20 To 40, Deduct	-255.32	
			For >40, Deduct	-433.38	
26 56 13 00-0057	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,244.49	933.24
			For Galvanized Finish, Add	101.34	
			For >10 To 20, Deduct	-131.11	
			For >20 To 40, Deduct	-262.22	
			For >40, Deduct	-440.00	
26 56 13 00-0058	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,393.57	989.24
			For Galvanized Finish, Add	102.45	
			For >10 To 20, Deduct	-134.84	
			For >20 To 40, Deduct	-269.68	
			For >40, Deduct	-453.98	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 13 00-0059	EA	35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,480.48		1,045.22
		For Galvanized Finish, Add	101.70		
		For >10 To 20, Deduct	-137.01		
		For >20 To 40, Deduct	-274.02		
		For >40, Deduct	-463.30		
26 56 13 00-0060	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,473.62		970.57
		For Galvanized Finish, Add	105.97		
		For >10 To 20, Deduct	-136.84		
		For >20 To 40, Deduct	-273.68		
		For >40, Deduct	-459.05		
26 56 13 00-0061	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,590.29		1,026.57
		For Galvanized Finish, Add	106.11		
		For >10 To 20, Deduct	-139.76		
		For >20 To 40, Deduct	-279.51		
		For >40, Deduct	-470.60		
26 56 13 00-0062	EA	40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,709.37		1,082.55
		For Galvanized Finish, Add	106.33		
		For >10 To 20, Deduct	-142.73		
		For >20 To 40, Deduct	-285.47		
		For >40, Deduct	-482.33		
26 56 13 00-0063		Round Tapered, Steel Roadway Light Poles With Davit Style Arm (26 56 13 00-0004)			
26 56 13 00-0064		Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0063)			
26 56 13 00-0065	EA	25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	3,294.55		597.27
		For Galvanized Finish, Add	63.00		
		For >10 To 20, Deduct	-82.36		
		For >20 To 40, Deduct	-164.73		
		For >40, Deduct	-276.95		
26 56 13 00-0066	EA	30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	3,725.33		671.93
		For Galvanized Finish, Add	71.44		
		For >10 To 20, Deduct	-93.13		
		For >20 To 40, Deduct	-186.27		
		For >40, Deduct	-313.00		
26 56 13 00-0067	EA	35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	3,839.17		709.26
		For Galvanized Finish, Add	72.62		
		For >10 To 20, Deduct	-95.98		
		For >20 To 40, Deduct	-191.96		
		For >40, Deduct	-323.40		
26 56 13 00-0068	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,514.94		746.59
		For Galvanized Finish, Add	90.65		
		For >10 To 20, Deduct	-112.87		
		For >20 To 40, Deduct	-225.75		
		For >40, Deduct	-375.95		
26 56 13 00-0069		Round Tapered, Steel Roadway Light Poles With Truss Style Arms (26 56 13 00-0004)			
26 56 13 00-0070		Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0069)			
26 56 13 00-0071	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	4,135.18		597.27
		For Galvanized Finish, Add	88.22		
		For >10 To 20, Deduct	-103.38		
		For >20 To 40, Deduct	-206.76		
		For >40, Deduct	-340.00		
26 56 13 00-0072	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	4,171.22		597.27
		For Galvanized Finish, Add	89.30		
		For >10 To 20, Deduct	-104.28		
		For >20 To 40, Deduct	-208.56		
		For >40, Deduct	-342.71		
26 56 13 00-0073	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	4,187.67		597.27
		For Galvanized Finish, Add	89.79		
		For >10 To 20, Deduct	-104.69		
		For >20 To 40, Deduct	-209.38		
		For >40, Deduct	-343.94		
26 56 13 00-0074	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	4,320.55		671.93
		For Galvanized Finish, Add	89.30		
		For >10 To 20, Deduct	-108.01		
		For >20 To 40, Deduct	-216.03		
		For >40, Deduct	-357.64		



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0075	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,326.84	671.93
			For Galvanized Finish, Add	89.49	
			For >10 To 20, Deduct	-108.17	
			For >20 To 40, Deduct	-216.34	
			For >40, Deduct	-358.11	
26 56 13 00-0076	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,391.82	671.93
			For Galvanized Finish, Add	91.44	
			For >10 To 20, Deduct	-109.80	
			For >20 To 40, Deduct	-219.59	
			For >40, Deduct	-362.98	
26 56 13 00-0077	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,416.58	709.26
			For Galvanized Finish, Add	89.94	
			For >10 To 20, Deduct	-110.41	
			For >20 To 40, Deduct	-220.83	
			For >40, Deduct	-366.71	
26 56 13 00-0078	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,454.63	709.26
			For Galvanized Finish, Add	91.08	
			For >10 To 20, Deduct	-111.37	
			For >20 To 40, Deduct	-222.73	
			For >40, Deduct	-369.56	
26 56 13 00-0079	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,654.17	709.26
			For Galvanized Finish, Add	97.07	
			For >10 To 20, Deduct	-116.35	
			For >20 To 40, Deduct	-232.71	
			For >40, Deduct	-384.53	
26 56 13 00-0080			Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0080)		
26 56 13 00-0081	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,392.58	746.59
			For Galvanized Finish, Add	116.98	
			For >10 To 20, Deduct	-134.81	
			For >20 To 40, Deduct	-269.63	
			For >40, Deduct	-441.77	
26 56 13 00-0082	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,501.74	783.92
			For Galvanized Finish, Add	118.02	
			For >10 To 20, Deduct	-137.54	
			For >20 To 40, Deduct	-275.09	
			For >40, Deduct	-451.83	
26 56 13 00-0083	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,711.84	821.25
			For Galvanized Finish, Add	122.08	
			For >10 To 20, Deduct	-142.80	
			For >20 To 40, Deduct	-285.59	
			For >40, Deduct	-469.45	
26 56 13 00-0084	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,521.90	821.25
			For Galvanized Finish, Add	116.38	
			For >10 To 20, Deduct	-138.05	
			For >20 To 40, Deduct	-276.10	
			For >40, Deduct	-455.21	
26 56 13 00-0085	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,774.80	858.58
			For Galvanized Finish, Add	121.73	
			For >10 To 20, Deduct	-144.37	
			For >20 To 40, Deduct	-288.74	
			For >40, Deduct	-476.04	
26 56 13 00-0086	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,937.18	895.91
			For Galvanized Finish, Add	124.36	
			For >10 To 20, Deduct	-148.43	
			For >20 To 40, Deduct	-296.86	
			For >40, Deduct	-490.08	
26 56 13 00-0087	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,696.12	858.58
			For Galvanized Finish, Add	119.37	
			For >10 To 20, Deduct	-142.40	
			For >20 To 40, Deduct	-284.81	
			For >40, Deduct	-470.14	
26 56 13 00-0088	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,025.06	895.91
			For Galvanized Finish, Add	127.00	
			For >10 To 20, Deduct	-150.63	
			For >20 To 40, Deduct	-301.25	
			For >40, Deduct	-496.68	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 13 00-0089	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	6,230.32		933.24
		For Galvanized Finish, Add	130.92		
		For >10 To 20, Deduct	-155.76		
		For >20 To 40, Deduct	-311.52		
		For >40, Deduct	-513.94		
26 56 13 00-0090		Aluminum Roadway Light Poles (26 56 13 00-0092)			
		Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).			
26 56 13 00-0091		Round Tapered, Aluminum Roadway Light Poles (26 56 13 00-0090)			
26 56 13 00-0092		Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0091)			
26 56 13 00-0093		Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0092)			
26 56 13 00-0094	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	2,616.30		447.95
		For >10 To 20, Deduct	-65.41		
		For >20 To 40, Deduct	-130.82		
		For >40, Deduct	-218.62		
26 56 13 00-0095	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	2,637.12		447.95
		For >10 To 20, Deduct	-65.93		
		For >20 To 40, Deduct	-131.86		
		For >40, Deduct	-220.18		
26 56 13 00-0096	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,229.28		597.27
		For >10 To 20, Deduct	-80.73		
		For >20 To 40, Deduct	-161.46		
		For >40, Deduct	-272.06		
26 56 13 00-0097	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,268.63		597.27
		For >10 To 20, Deduct	-81.72		
		For >20 To 40, Deduct	-163.43		
		For >40, Deduct	-275.01		
26 56 13 00-0098	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,304.82		597.27
		For >10 To 20, Deduct	-82.62		
		For >20 To 40, Deduct	-165.24		
		For >40, Deduct	-277.73		
26 56 13 00-0099	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,700.57		671.93
		For >10 To 20, Deduct	-92.51		
		For >20 To 40, Deduct	-185.03		
		For >40, Deduct	-311.14		
26 56 13 00-0100	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,733.77		671.93
		For >10 To 20, Deduct	-93.34		
		For >20 To 40, Deduct	-186.69		
		For >40, Deduct	-313.63		
26 56 13 00-0101	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,770.90		671.93
		For >10 To 20, Deduct	-94.27		
		For >20 To 40, Deduct	-188.55		
		For >40, Deduct	-316.41		
26 56 13 00-0102	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	4,300.49		709.26
		For >10 To 20, Deduct	-107.51		
		For >20 To 40, Deduct	-215.02		
		For >40, Deduct	-358.00		
26 56 13 00-0103	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	4,333.61		709.26
		For >10 To 20, Deduct	-108.34		
		For >20 To 40, Deduct	-216.68		
		For >40, Deduct	-360.48		
26 56 13 00-0104	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	4,361.35		709.26
		For >10 To 20, Deduct	-109.03		
		For >20 To 40, Deduct	-218.07		
		For >40, Deduct	-362.56		
26 56 13 00-0105		Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms (26 56 13 00-0092)			
26 56 13 00-0106	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,002.04		522.61
		For >10 To 20, Deduct	-75.05		
		For >20 To 40, Deduct	-150.10		
		For >40, Deduct	-251.28		



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0107	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,206.12	522.61
			For >10 To 20, Deduct	-80.15	
			For >20 To 40, Deduct	-160.31	
			For >40, Deduct	-266.59	
26 56 13 00-0108	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,320.55	559.94
			For >10 To 20, Deduct	-83.01	
			For >20 To 40, Deduct	-166.03	
			For >40, Deduct	-277.04	
26 56 13 00-0109	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,603.86	671.93
			For >10 To 20, Deduct	-90.10	
			For >20 To 40, Deduct	-180.19	
			For >40, Deduct	-303.89	
26 56 13 00-0110	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,771.10	690.60
			For >10 To 20, Deduct	-94.28	
			For >20 To 40, Deduct	-188.56	
			For >40, Deduct	-317.36	
26 56 13 00-0111	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,008.59	709.26
			For >10 To 20, Deduct	-100.21	
			For >20 To 40, Deduct	-200.43	
			For >40, Deduct	-336.11	
26 56 13 00-0112	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,146.66	746.59
			For >10 To 20, Deduct	-103.67	
			For >20 To 40, Deduct	-207.33	
			For >40, Deduct	-348.33	
26 56 13 00-0113	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,304.51	765.26
			For >10 To 20, Deduct	-107.61	
			For >20 To 40, Deduct	-215.23	
			For >40, Deduct	-361.10	
26 56 13 00-0114	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,495.31	783.92
			For >10 To 20, Deduct	-112.38	
			For >20 To 40, Deduct	-224.77	
			For >40, Deduct	-376.34	
26 56 13 00-0115	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,675.83	783.92
			For >10 To 20, Deduct	-116.90	
			For >20 To 40, Deduct	-233.79	
			For >40, Deduct	-389.88	
26 56 13 00-0116	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	5,088.89	802.59
			For >10 To 20, Deduct	-127.22	
			For >20 To 40, Deduct	-254.44	
			For >40, Deduct	-421.80	
26 56 13 00-0117	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	5,567.92	821.25
			For >10 To 20, Deduct	-139.20	
			For >20 To 40, Deduct	-278.40	
			For >40, Deduct	-458.66	
26 56 13 00-0118			Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0092)		
26 56 13 00-0119	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	3,479.88	597.27
			For >10 To 20, Deduct	-87.00	
			For >20 To 40, Deduct	-173.99	
			For >40, Deduct	-290.85	
26 56 13 00-0120	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	3,719.63	634.60
			For >10 To 20, Deduct	-92.99	
			For >20 To 40, Deduct	-185.98	
			For >40, Deduct	-310.70	
26 56 13 00-0121	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,240.64	746.59
			For >10 To 20, Deduct	-106.02	
			For >20 To 40, Deduct	-212.03	
			For >40, Deduct	-355.38	
26 56 13 00-0122	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,424.46	783.92
			For >10 To 20, Deduct	-110.61	
			For >20 To 40, Deduct	-221.22	
			For >40, Deduct	-371.03	
26 56 13 00-0123	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,633.73	821.25
			For >10 To 20, Deduct	-115.84	
			For >20 To 40, Deduct	-231.69	
			For >40, Deduct	-388.59	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0124	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,802.35	858.58
		For >10 To 20, Deduct.....	-120.06	
		For >20 To 40, Deduct.....	-240.12	
		For >40, Deduct.....	-403.11	
26 56 13 00-0125	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,997.81	858.58
		For >10 To 20, Deduct.....	-124.95	
		For >20 To 40, Deduct.....	-249.89	
		For >40, Deduct.....	-417.76	
26 56 13 00-0126	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,419.35	895.91
		For >10 To 20, Deduct.....	-135.48	
		For >20 To 40, Deduct.....	-270.97	
		For >40, Deduct.....	-451.25	
26 56 13 00-0127	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	12,115.71	933.24
		For >10 To 20, Deduct.....	-302.89	
		For >20 To 40, Deduct.....	-605.79	
		For >40, Deduct.....	-955.34	
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0092)				
26 56 13 00-0129	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	3,628.70	671.93
		For >10 To 20, Deduct.....	-90.72	
		For >20 To 40, Deduct.....	-181.44	
		For >40, Deduct.....	-305.75	
26 56 13 00-0130	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	3,753.66	671.93
		For >10 To 20, Deduct.....	-93.84	
		For >20 To 40, Deduct.....	-187.68	
		For >40, Deduct.....	-315.12	
26 56 13 00-0131	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,641.49	821.25
		For >10 To 20, Deduct.....	-116.04	
		For >20 To 40, Deduct.....	-232.07	
		For >40, Deduct.....	-389.17	
26 56 13 00-0132	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,019.86	877.25
		For >10 To 20, Deduct.....	-125.50	
		For >20 To 40, Deduct.....	-250.99	
		For >40, Deduct.....	-420.35	
26 56 13 00-0133	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,227.39	895.91
		For >10 To 20, Deduct.....	-130.68	
		For >20 To 40, Deduct.....	-261.37	
		For >40, Deduct.....	-436.85	
26 56 13 00-0134	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,578.11	951.91
		For >10 To 20, Deduct.....	-139.45	
		For >20 To 40, Deduct.....	-278.91	
		For >40, Deduct.....	-465.95	
26 56 13 00-0135	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,500.15	933.24
		For >10 To 20, Deduct.....	-137.50	
		For >20 To 40, Deduct.....	-275.01	
		For >40, Deduct.....	-459.17	
26 56 13 00-0136	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,223.87	989.24
		For >10 To 20, Deduct.....	-155.60	
		For >20 To 40, Deduct.....	-311.19	
		For >40, Deduct.....	-516.25	
26 56 13 00-0137	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	6,866.59	1,045.22
		For >10 To 20, Deduct.....	-171.66	
		For >20 To 40, Deduct.....	-343.33	
		For >40, Deduct.....	-567.26	
26 56 13 00-0138 Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms (26 56 13 00-0091)				
26 56 13 00-0139 Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0138)				
26 56 13 00-0140	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	3,807.47	597.27
		For >10 To 20, Deduct.....	-95.19	
		For >20 To 40, Deduct.....	-190.37	
		For >40, Deduct.....	-315.42	
26 56 13 00-0141	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	3,835.30	597.27
		For >10 To 20, Deduct.....	-95.88	
		For >20 To 40, Deduct.....	-191.77	
		For >40, Deduct.....	-317.51	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0142	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	3,906.39	597.27
			For >10 To 20, Deduct	-97.66	
			For >20 To 40, Deduct	-195.32	
			For >40, Deduct	-322.84	
26 56 13 00-0143	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,013.09	597.27
			For >10 To 20, Deduct	-100.33	
			For >20 To 40, Deduct	-200.65	
			For >40, Deduct	-330.85	
26 56 13 00-0144	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,286.69	671.93
			For >10 To 20, Deduct	-107.17	
			For >20 To 40, Deduct	-214.33	
			For >40, Deduct	-355.10	
26 56 13 00-0145	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,349.43	671.93
			For >10 To 20, Deduct	-108.74	
			For >20 To 40, Deduct	-217.47	
			For >40, Deduct	-359.80	
26 56 13 00-0146	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,416.34	671.93
			For >10 To 20, Deduct	-110.41	
			For >20 To 40, Deduct	-220.82	
			For >40, Deduct	-364.82	
26 56 13 00-0147	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,819.98	671.93
			For >10 To 20, Deduct	-120.50	
			For >20 To 40, Deduct	-241.00	
			For >40, Deduct	-395.10	
26 56 13 00-0148	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,648.40	709.26
			For >10 To 20, Deduct	-116.21	
			For >20 To 40, Deduct	-232.42	
			For >40, Deduct	-384.09	
26 56 13 00-0149	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,166.32	709.26
			For >10 To 20, Deduct	-129.16	
			For >20 To 40, Deduct	-258.32	
			For >40, Deduct	-422.94	
26 56 13 00-0150	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,216.77	709.26
			For >10 To 20, Deduct	-130.42	
			For >20 To 40, Deduct	-260.84	
			For >40, Deduct	-426.72	
26 56 13 00-0151	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,537.01	709.26
			For >10 To 20, Deduct	-138.43	
			For >20 To 40, Deduct	-276.85	
			For >40, Deduct	-450.74	
26 56 13 00-0152	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,829.09	709.26
			For >10 To 20, Deduct	-145.73	
			For >20 To 40, Deduct	-291.45	
			For >40, Deduct	-472.65	
26 56 13 00-0153			Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0138)		
26 56 13 00-0154	EA		25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	4,928.76	746.59
			For >10 To 20, Deduct	-123.22	
			For >20 To 40, Deduct	-246.44	
			For >40, Deduct	-406.99	
26 56 13 00-0155	EA		25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,074.52	783.92
			For >10 To 20, Deduct	-126.86	
			For >20 To 40, Deduct	-253.73	
			For >40, Deduct	-419.79	
26 56 13 00-0156	EA		25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,194.93	821.25
			For >10 To 20, Deduct	-129.87	
			For >20 To 40, Deduct	-259.75	
			For >40, Deduct	-430.68	
26 56 13 00-0157	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,316.81	821.25
			For >10 To 20, Deduct	-132.92	
			For >20 To 40, Deduct	-265.84	
			For >40, Deduct	-439.82	
26 56 13 00-0158	EA		30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,762.07	858.58
			For >10 To 20, Deduct	-144.05	
			For >20 To 40, Deduct	-288.10	
			For >40, Deduct	-475.08	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0159	EA		30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,567.95	895.91
			For >10 To 20, Deduct	-164.20	
			For >20 To 40, Deduct	-328.40	
			For >40, Deduct	-537.39	
26 56 13 00-0160	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,348.53	858.58
			For >10 To 20, Deduct	-158.71	
			For >20 To 40, Deduct	-317.43	
			For >40, Deduct	-519.07	
26 56 13 00-0161	EA		35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,482.77	895.91
			For >10 To 20, Deduct	-162.07	
			For >20 To 40, Deduct	-324.14	
			For >40, Deduct	-531.00	
26 56 13 00-0162	EA		35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,807.86	933.24
			For >10 To 20, Deduct	-195.20	
			For >20 To 40, Deduct	-390.39	
			For >40, Deduct	-632.25	
26 56 13 00-0163			Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm (26 56 13 00-0163)		
26 56 13 00-0164			Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0163)		
26 56 13 00-0165	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,102.64	447.95
			For >10 To 20, Deduct	-77.57	
			For >20 To 40, Deduct	-155.13	
			For >40, Deduct	-255.10	
26 56 13 00-0166	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,181.25	447.95
			For >10 To 20, Deduct	-79.53	
			For >20 To 40, Deduct	-159.06	
			For >40, Deduct	-260.99	
26 56 13 00-0167	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,260.03	447.95
			For >10 To 20, Deduct	-81.50	
			For >20 To 40, Deduct	-163.00	
			For >40, Deduct	-266.90	
26 56 13 00-0168	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,722.71	597.27
			For >10 To 20, Deduct	-93.07	
			For >20 To 40, Deduct	-186.14	
			For >40, Deduct	-309.07	
26 56 13 00-0169	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,782.63	597.27
			For >10 To 20, Deduct	-94.57	
			For >20 To 40, Deduct	-189.13	
			For >40, Deduct	-313.56	
26 56 13 00-0170	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,848.10	597.27
			For >10 To 20, Deduct	-96.20	
			For >20 To 40, Deduct	-192.41	
			For >40, Deduct	-318.47	
26 56 13 00-0171	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,200.48	671.93
			For >10 To 20, Deduct	-105.01	
			For >20 To 40, Deduct	-210.02	
			For >40, Deduct	-348.63	
26 56 13 00-0172	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	4,281.83	671.93
			For >10 To 20, Deduct	-107.05	
			For >20 To 40, Deduct	-214.09	
			For >40, Deduct	-354.73	
26 56 13 00-0173	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	4,294.03	671.93
			For >10 To 20, Deduct	-107.35	
			For >20 To 40, Deduct	-214.70	
			For >40, Deduct	-355.65	
26 56 13 00-0174	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,564.58	709.26
			For >10 To 20, Deduct	-114.11	
			For >20 To 40, Deduct	-228.23	
			For >40, Deduct	-377.81	
26 56 13 00-0175	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	4,600.26	709.26
			For >10 To 20, Deduct	-115.01	
			For >20 To 40, Deduct	-230.01	
			For >40, Deduct	-380.48	
26 56 13 00-0176	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	4,683.90	709.26
			For >10 To 20, Deduct	-117.10	
			For >20 To 40, Deduct	-234.20	
			For >40, Deduct	-386.76	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 56 13 00-0177	Area Light Poles (26 56 13 00-0001) Note: Excludes lighting fixtures.			
26 56 13 00-0178	Steel Area Light Poles (26 56 13 00-0177) Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.			
26 56 13 00-0179	Round Straight, Steel Area Light Poles (26 56 13 00-0178)			
26 56 13 00-0180	Round Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0179)			
26 56 13 00-0181	EA 10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,383.84 25.84 -47.51 -86.42 -181.45		261.31
26 56 13 00-0182	EA 12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,506.21 27.27 -51.29 -93.49 -196.07		298.64
26 56 13 00-0183	EA 14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,683.46 30.35 -57.26 -104.40 -218.92		335.97
26 56 13 00-0184	EA 16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,865.47 33.57 -63.42 -115.65 -242.49		373.29
26 56 13 00-0185	EA 18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,987.85 35.00 -67.20 -122.72 -257.12		410.62
26 56 13 00-0186	EA 20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,098.29 36.07 -70.49 -128.96 -269.95		447.95
26 56 13 00-0187	EA 10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,445.87 27.70 -50.00 -90.76 -190.75		261.31
26 56 13 00-0188	EA 12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,570.63 29.20 -53.87 -98.00 -205.73		298.64
26 56 13 00-0189	EA 14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,812.29 34.21 -62.41 -113.42 -238.25		335.97
26 56 13 00-0190	EA 16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,948.97 36.07 -66.76 -121.50 -255.02		373.29
26 56 13 00-0191	EA 18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,078.50 37.72 -70.82 -129.07 -270.71		410.62
26 56 13 00-0192	EA 20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,184.18 38.65 -73.93 -134.97 -282.83		447.95
26 56 13 00-0193	EA 25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,571.08 41.30 -84.93 -156.08 -325.94		597.27
26 56 13 00-0194	EA 10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,445.87 27.70 -50.00 -90.76 -190.75		261.31
26 56 13 00-0195	EA 12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,577.78 29.42 -54.15 -98.50 -206.80		298.64

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0196	EA	14'	High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,850.46	335.97
			For Galvanized Finish, Add	35.36	
			For >10 To 20, Deduct	-63.94	
			For >20 To 40, Deduct	-116.09	
			For >40, Deduct	-243.97	
26 56 13 00-0197	EA	16'	High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,956.13	373.29
			For Galvanized Finish, Add	36.29	
			For >10 To 20, Deduct	-67.05	
			For >20 To 40, Deduct	-122.00	
			For >40, Deduct	-256.09	
26 56 13 00-0198	EA	18'	High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,078.50	410.62
			For Galvanized Finish, Add	37.72	
			For >10 To 20, Deduct	-70.82	
			For >20 To 40, Deduct	-129.07	
			For >40, Deduct	-270.71	
26 56 13 00-0199	EA	20'	High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,184.18	447.95
			For Galvanized Finish, Add	38.65	
			For >10 To 20, Deduct	-73.93	
			For >20 To 40, Deduct	-134.97	
			For >40, Deduct	-282.83	
26 56 13 00-0200	EA	25'	High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,637.88	597.27
			For Galvanized Finish, Add	43.30	
			For >10 To 20, Deduct	-87.60	
			For >20 To 40, Deduct	-160.76	
			For >40, Deduct	-335.96	
26 56 13 00-0201	EA	30'	High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,911.26	671.93
			For Galvanized Finish, Add	47.02	
			For >10 To 20, Deduct	-96.29	
			For >20 To 40, Deduct	-176.91	
			For >40, Deduct	-369.50	
26 56 13 00-0202	EA	20'	High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,336.86	447.95
			For Galvanized Finish, Add	43.23	
			For >10 To 20, Deduct	-80.04	
			For >20 To 40, Deduct	-145.66	
			For >40, Deduct	-305.73	
26 56 13 00-0203	EA	25'	High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,668.89	597.27
			For Galvanized Finish, Add	44.23	
			For >10 To 20, Deduct	-88.84	
			For >20 To 40, Deduct	-162.93	
			For >40, Deduct	-340.61	
26 56 13 00-0204	EA	30'	High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,970.90	671.93
			For Galvanized Finish, Add	48.81	
			For >10 To 20, Deduct	-98.68	
			For >20 To 40, Deduct	-181.09	
			For >40, Deduct	-378.44	
26 56 13 00-0205			Round Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0206			Round Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0205)		
26 56 13 00-0207	EA	20'	High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,876.02	447.95
			For Galvanized Finish, Add	59.40	
			For >10 To 20, Deduct	-101.60	
			For >20 To 40, Deduct	-183.40	
			For >40, Deduct	-386.61	
26 56 13 00-0208	EA	20'	High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,949.98	447.95
			For Galvanized Finish, Add	61.62	
			For >10 To 20, Deduct	-104.56	
			For >20 To 40, Deduct	-188.58	
			For >40, Deduct	-397.70	
26 56 13 00-0209	EA	25'	High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,410.84	597.27
			For Galvanized Finish, Add	66.49	
			For >10 To 20, Deduct	-118.52	
			For >20 To 40, Deduct	-214.87	
			For >40, Deduct	-451.90	
26 56 13 00-0210	EA	25'	High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,563.52	597.27
			For Galvanized Finish, Add	71.07	
			For >10 To 20, Deduct	-124.62	
			For >20 To 40, Deduct	-225.56	
			For >40, Deduct	-474.80	
26 56 13 00-0211	EA	30'	High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,798.73	671.93
			For Galvanized Finish, Add	73.65	
			For >10 To 20, Deduct	-131.79	
			For >20 To 40, Deduct	-239.03	
			For >40, Deduct	-502.62	
26 56 13 00-0212	EA	30'	High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,054.00	671.93
			For Galvanized Finish, Add	81.30	
			For >10 To 20, Deduct	-142.00	
			For >20 To 40, Deduct	-256.90	
			For >40, Deduct	-540.91	
26 56 13 00-0213	EA	35'	High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,181.15	709.26
			For Galvanized Finish, Add	82.88	
			For >10 To 20, Deduct	-145.97	
			For >20 To 40, Deduct	-264.31	
			For >40, Deduct	-556.25	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0214	EA	35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	4,338.60	709.26
		For Galvanized Finish, Add	.....	87.60	
		For >10 To 20, Deduct	.....	-152.27	
		For >20 To 40, Deduct	.....	-275.33	
		For >40, Deduct	.....	-579.86	
26 56 13 00-0215	EA	35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	4,715.54	709.26
		For Galvanized Finish, Add	.....	98.91	
		For >10 To 20, Deduct	.....	-167.34	
		For >20 To 40, Deduct	.....	-301.72	
		For >40, Deduct	.....	-636.40	
26 56 13 00-0216	EA	39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	4,761.57	746.59
		For Galvanized Finish, Add	.....	98.05	
		For >10 To 20, Deduct	.....	-168.06	
		For >20 To 40, Deduct	.....	-303.45	
		For >40, Deduct	.....	-639.58	
26 56 13 00-0217	EA	39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	4,828.37	746.59
		For Galvanized Finish, Add	.....	100.06	
		For >10 To 20, Deduct	.....	-170.74	
		For >20 To 40, Deduct	.....	-308.12	
		For >40, Deduct	.....	-649.60	
26 56 13 00-0218	EA	45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	6,562.20	970.57
		For Galvanized Finish, Add	.....	138.63	
		For >10 To 20, Deduct	.....	-233.37	
		For >20 To 40, Deduct	.....	-420.53	
		For >40, Deduct	.....	-887.27	
26 56 13 00-0219	EA	50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	6,846.53	1,119.88
		For Galvanized Finish, Add	.....	138.20	
		For >10 To 20, Deduct	.....	-240.26	
		For >20 To 40, Deduct	.....	-434.46	
		For >40, Deduct	.....	-914.99	
26 56 13 00-0220	EA	25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	4,598.91	597.27
		For Galvanized Finish, Add	.....	102.13	
		For >10 To 20, Deduct	.....	-166.04	
		For >20 To 40, Deduct	.....	-298.03	
		For >40, Deduct	.....	-630.11	
26 56 13 00-0221	EA	30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	5,220.60	671.93
		For Galvanized Finish, Add	.....	116.30	
		For >10 To 20, Deduct	.....	-188.67	
		For >20 To 40, Deduct	.....	-338.56	
		For >40, Deduct	.....	-715.90	
26 56 13 00-0222	EA	39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	6,047.45	746.59
		For Galvanized Finish, Add	.....	136.63	
		For >10 To 20, Deduct	.....	-219.50	
		For >20 To 40, Deduct	.....	-393.46	
		For >40, Deduct	.....	-832.46	
26 56 13 00-0223	EA	45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	7,306.53	970.57
		For Galvanized Finish, Add	.....	160.96	
		For >10 To 20, Deduct	.....	-263.14	
		For >20 To 40, Deduct	.....	-472.63	
		For >40, Deduct	.....	-998.92	
26 56 13 00-0224	EA	50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	8,526.05	1,119.88
		For Galvanized Finish, Add	.....	188.59	
		For >10 To 20, Deduct	.....	-307.45	
		For >20 To 40, Deduct	.....	-552.03	
		For >40, Deduct	.....	-1,166.92	
26 56 13 00-0225	EA	50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	9,497.02	1,119.88
		For Galvanized Finish, Add	.....	217.72	
		For >10 To 20, Deduct	.....	-346.28	
		For >20 To 40, Deduct	.....	-620.00	
		For >40, Deduct	.....	-1,312.56	
26 56 13 00-0226	EA	50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	12,741.54	1,119.88
		For Galvanized Finish, Add	.....	315.05	
		For >10 To 20, Deduct	.....	-476.06	
		For >20 To 40, Deduct	.....	-847.11	
		For >40, Deduct	.....	-1,799.24	
26 56 13 00-0227	EA	50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	.....	14,316.09	1,119.88
		For Galvanized Finish, Add	.....	362.29	
		For >10 To 20, Deduct	.....	-539.05	
		For >20 To 40, Deduct	.....	-957.33	
		For >40, Deduct	.....	-2,035.42	
26 56 13 00-0228		Square Straight, Steel Area Light Poles (26 56 13 00-0178)			
26 56 13 00-0229		Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0228)			
26 56 13 00-0230	EA	10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	.....	1,364.75	261.31
		For Galvanized Finish, Add	.....	25.26	
		For >10 To 20, Deduct	.....	-46.75	
		For >20 To 40, Deduct	.....	-85.08	
		For >40, Deduct	.....	-178.58	
26 56 13 00-0231	EA	12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	.....	1,439.41	298.64
		For Galvanized Finish, Add	.....	25.26	
		For >10 To 20, Deduct	.....	-48.62	
		For >20 To 40, Deduct	.....	-88.81	
		For >40, Deduct	.....	-186.05	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 56 13 00-0232	EA	14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,554.63		335.97
		For Galvanized Finish, Add	26.48		
		For >10 To 20, Deduct	-52.11		
		For >20 To 40, Deduct	-95.39		
		For >40, Deduct	-199.60		
26 56 13 00-0233	EA	15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,649.22		354.63
		For Galvanized Finish, Add	28.20		
		For >10 To 20, Deduct	-55.33		
		For >20 To 40, Deduct	-101.26		
		For >40, Deduct	-211.92		
26 56 13 00-0234	EA	16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,686.55		373.29
		For Galvanized Finish, Add	28.20		
		For >10 To 20, Deduct	-56.26		
		For >20 To 40, Deduct	-103.13		
		For >40, Deduct	-215.65		
26 56 13 00-0235	EA	18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,787.45		410.62
		For Galvanized Finish, Add	28.99		
		For >10 To 20, Deduct	-59.18		
		For >20 To 40, Deduct	-108.70		
		For >40, Deduct	-227.06		
26 56 13 00-0236	EA	20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,883.58		447.95
		For Galvanized Finish, Add	29.63		
		For >10 To 20, Deduct	-61.90		
		For >20 To 40, Deduct	-113.93		
		For >40, Deduct	-237.74		
26 56 13 00-0237	EA	25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,325.35		597.27
		For Galvanized Finish, Add	33.92		
		For >10 To 20, Deduct	-75.10		
		For >20 To 40, Deduct	-138.88		
		For >40, Deduct	-289.08		
26 56 13 00-0238	EA	20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,205.65		447.95
		For Galvanized Finish, Add	39.29		
		For >10 To 20, Deduct	-74.79		
		For >20 To 40, Deduct	-136.48		
		For >40, Deduct	-286.05		
26 56 13 00-0239	EA	25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,769.09		597.27
		For Galvanized Finish, Add	47.24		
		For >10 To 20, Deduct	-92.85		
		For >20 To 40, Deduct	-169.95		
		For >40, Deduct	-355.64		
26 56 13 00-0240	EA	30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,178.46		671.93
		For Galvanized Finish, Add	55.04		
		For >10 To 20, Deduct	-106.98		
		For >20 To 40, Deduct	-195.61		
		For >40, Deduct	-409.58		
26 56 13 00-0241	EA	20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,117.38		447.95
		For Galvanized Finish, Add	36.64		
		For >10 To 20, Deduct	-71.26		
		For >20 To 40, Deduct	-130.30		
		For >40, Deduct	-272.81		
26 56 13 00-0242	EA	25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,597.32		597.27
		For Galvanized Finish, Add	42.08		
		For >10 To 20, Deduct	-85.97		
		For >20 To 40, Deduct	-157.92		
		For >40, Deduct	-329.87		
26 56 13 00-0243	EA	30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,030.55		671.93
		For Galvanized Finish, Add	50.60		
		For >10 To 20, Deduct	-101.06		
		For >20 To 40, Deduct	-185.26		
		For >40, Deduct	-387.39		
26 56 13 00-0244	EA	20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,420.36		447.95
		For Galvanized Finish, Add	45.73		
		For >10 To 20, Deduct	-83.38		
		For >20 To 40, Deduct	-151.51		
		For >40, Deduct	-318.26		
26 56 13 00-0245	EA	25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,983.80		597.27
		For Galvanized Finish, Add	53.68		
		For >10 To 20, Deduct	-101.43		
		For >20 To 40, Deduct	-184.98		
		For >40, Deduct	-387.84		
26 56 13 00-0246	EA	30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,381.24		671.93
		For Galvanized Finish, Add	61.12		
		For >10 To 20, Deduct	-115.09		
		For >20 To 40, Deduct	-209.81		
		For >40, Deduct	-439.99		
26 56 13 00-0247	EA	35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,751.73		709.26
		For Galvanized Finish, Add	70.00		
		For >10 To 20, Deduct	-128.79		
		For >20 To 40, Deduct	-234.25		
		For >40, Deduct	-491.83		
26 56 13 00-0248	EA	30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,851.22		671.93
		For Galvanized Finish, Add	75.22		
		For >10 To 20, Deduct	-133.89		
		For >20 To 40, Deduct	-242.71		
		For >40, Deduct	-510.49		



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0249	EA	35'	High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	4,224.09	709.26
			For Galvanized Finish, Add	84.17	
			For >10 To 20, Deduct	-147.69	
			For >20 To 40, Deduct	-267.32	
			For >40, Deduct	-562.69	
26 56 13 00-0250	EA	40'	High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	4,468.13	746.59
			For Galvanized Finish, Add	89.25	
			For >10 To 20, Deduct	-156.33	
			For >20 To 40, Deduct	-282.91	
			For >40, Deduct	-595.56	
26 56 13 00-0251			Hinged, Square Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0252			Hinged, Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0251)		
26 56 13 00-0253	EA	20'	High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,851.87	447.95
			For Galvanized Finish, Add	118.68	
			For >10 To 20, Deduct	-180.64	
			For >20 To 40, Deduct	-321.71	
			For >40, Deduct	-682.99	
26 56 13 00-0254	EA	25'	High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,419.47	597.27
			For Galvanized Finish, Add	126.75	
			For >10 To 20, Deduct	-198.86	
			For >20 To 40, Deduct	-355.47	
			For >40, Deduct	-753.19	
26 56 13 00-0255	EA	30'	High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,578.50	671.93
			For Galvanized Finish, Add	187.04	
			For >10 To 20, Deduct	-282.98	
			For >20 To 40, Deduct	-503.62	
			For >40, Deduct	-1,069.58	
26 56 13 00-0256	EA	20'	High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,948.29	447.95
			For Galvanized Finish, Add	121.57	
			For >10 To 20, Deduct	-184.49	
			For >20 To 40, Deduct	-328.46	
			For >40, Deduct	-697.45	
26 56 13 00-0257	EA	25'	High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,980.26	597.27
			For Galvanized Finish, Add	143.57	
			For >10 To 20, Deduct	-221.29	
			For >20 To 40, Deduct	-394.73	
			For >40, Deduct	-837.31	
26 56 13 00-0258	EA	30'	High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	8,413.33	671.93
			For Galvanized Finish, Add	212.08	
			For >10 To 20, Deduct	-316.38	
			For >20 To 40, Deduct	-562.06	
			For >40, Deduct	-1,194.81	
26 56 13 00-0259	EA	35'	High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	9,652.70	709.26
			For Galvanized Finish, Add	247.03	
			For >10 To 20, Deduct	-364.83	
			For >20 To 40, Deduct	-647.32	
			For >40, Deduct	-1,376.98	
26 56 13 00-0260	EA	39'	High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	11,343.75	746.59
			For Galvanized Finish, Add	295.52	
			For >10 To 20, Deduct	-431.35	
			For >20 To 40, Deduct	-764.20	
			For >40, Deduct	-1,626.90	
26 56 13 00-0261	EA	20'	High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,699.62	447.95
			For Galvanized Finish, Add	114.11	
			For >10 To 20, Deduct	-174.55	
			For >20 To 40, Deduct	-311.06	
			For >40, Deduct	-660.15	
26 56 13 00-0262	EA	25'	High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,175.87	597.27
			For Galvanized Finish, Add	119.44	
			For >10 To 20, Deduct	-189.12	
			For >20 To 40, Deduct	-338.42	
			For >40, Deduct	-716.65	
26 56 13 00-0263	EA	30'	High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	7,149.66	671.93
			For Galvanized Finish, Add	174.17	
			For >10 To 20, Deduct	-265.83	
			For >20 To 40, Deduct	-473.60	
			For >40, Deduct	-1,005.26	
26 56 13 00-0264	EA	20'	High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,874.70	447.95
			For Galvanized Finish, Add	119.36	
			For >10 To 20, Deduct	-181.55	
			For >20 To 40, Deduct	-323.31	
			For >40, Deduct	-686.41	
26 56 13 00-0265	EA	25'	High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,751.88	597.27
			For Galvanized Finish, Add	136.72	
			For >10 To 20, Deduct	-212.16	
			For >20 To 40, Deduct	-378.74	
			For >40, Deduct	-803.06	
26 56 13 00-0266	EA	30'	High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base	8,096.15	671.93
			For Galvanized Finish, Add	202.57	
			For >10 To 20, Deduct	-303.69	
			For >20 To 40, Deduct	-539.85	
			For >40, Deduct	-1,147.23	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0267	EA	20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	5,143.68	447.95
		For Galvanized Finish, Add	.....	127.43	
		For >10 To 20, Deduct	.....	-192.31	
		For >20 To 40, Deduct	.....	-342.14	
		For >40, Deduct	.....	-726.76	
26 56 13 00-0268	EA	25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	6,236.54	597.27
		For Galvanized Finish, Add	.....	151.26	
		For >10 To 20, Deduct	.....	-231.54	
		For >20 To 40, Deduct	.....	-412.67	
		For >40, Deduct	.....	-875.75	
26 56 13 00-0269	EA	30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	8,667.08	671.93
		For Galvanized Finish, Add	.....	219.70	
		For >10 To 20, Deduct	.....	-326.53	
		For >20 To 40, Deduct	.....	-579.82	
		For >40, Deduct	.....	-1,232.87	
26 56 13 00-0270	EA	35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	9,962.28	709.26
		For Galvanized Finish, Add	.....	256.31	
		For >10 To 20, Deduct	.....	-377.21	
		For >20 To 40, Deduct	.....	-668.99	
		For >40, Deduct	.....	-1,423.42	
26 56 13 00-0271	EA	39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	11,508.69	746.59
		For Galvanized Finish, Add	.....	300.47	
		For >10 To 20, Deduct	.....	-437.95	
		For >20 To 40, Deduct	.....	-775.74	
		For >40, Deduct	.....	-1,651.64	
26 56 13 00-0272		Square Tapered, Steel Area Light Poles (26 56 13 00-0178)			
26 56 13 00-0273		Square Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0272)			
26 56 13 00-0274	EA	20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	3,680.00	447.95
		For Galvanized Finish, Add	.....	83.52	
		For >10 To 20, Deduct	.....	-133.76	
		For >20 To 40, Deduct	.....	-239.68	
		For >40, Deduct	.....	-507.20	
26 56 13 00-0275	EA	25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	4,470.08	597.27
		For Galvanized Finish, Add	.....	98.27	
		For >10 To 20, Deduct	.....	-160.89	
		For >20 To 40, Deduct	.....	-289.01	
		For >40, Deduct	.....	-610.79	
26 56 13 00-0276	EA	30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	4,974.87	671.93
		For Galvanized Finish, Add	.....	108.93	
		For >10 To 20, Deduct	.....	-178.84	
		For >20 To 40, Deduct	.....	-321.36	
		For >40, Deduct	.....	-679.04	
26 56 13 00-0277	EA	35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,519.51	709.26
		For Galvanized Finish, Add	.....	123.03	
		For >10 To 20, Deduct	.....	-199.50	
		For >20 To 40, Deduct	.....	-358.00	
		For >40, Deduct	.....	-757.00	
26 56 13 00-0278	EA	39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,818.43	746.59
		For Galvanized Finish, Add	.....	129.76	
		For >10 To 20, Deduct	.....	-210.34	
		For >20 To 40, Deduct	.....	-377.43	
		For >40, Deduct	.....	-798.11	
26 56 13 00-0279	EA	20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	4,751.17	447.95
		For Galvanized Finish, Add	.....	115.66	
		For >10 To 20, Deduct	.....	-176.61	
		For >20 To 40, Deduct	.....	-314.66	
		For >40, Deduct	.....	-667.88	
26 56 13 00-0280	EA	25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,309.84	597.27
		For Galvanized Finish, Add	.....	123.46	
		For >10 To 20, Deduct	.....	-194.48	
		For >20 To 40, Deduct	.....	-347.80	
		For >40, Deduct	.....	-736.75	
26 56 13 00-0281	EA	30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,661.95	671.93
		For Galvanized Finish, Add	.....	129.54	
		For >10 To 20, Deduct	.....	-206.32	
		For >20 To 40, Deduct	.....	-369.46	
		For >40, Deduct	.....	-782.10	
26 56 13 00-0282	EA	30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	6,291.77	671.93
		For Galvanized Finish, Add	.....	148.44	
		For >10 To 20, Deduct	.....	-231.51	
		For >20 To 40, Deduct	.....	-413.55	
		For >40, Deduct	.....	-876.57	
26 56 13 00-0283	EA	35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	6,819.71	709.26
		For Galvanized Finish, Add	.....	162.04	
		For >10 To 20, Deduct	.....	-251.51	
		For >20 To 40, Deduct	.....	-449.01	
		For >40, Deduct	.....	-952.03	
26 56 13 00-0284	EA	35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	7,599.83	709.26
		For Galvanized Finish, Add	.....	185.44	
		For >10 To 20, Deduct	.....	-282.72	
		For >20 To 40, Deduct	.....	-503.62	
		For >40, Deduct	.....	-1,069.05	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0285	EA		39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	6,930.15	746.59
			For Galvanized Finish, Add	163.11	
			For >10 To 20, Deduct	-254.61	
			For >20 To 40, Deduct	-455.25	
			For >40, Deduct	-964.86	
26 56 13 00-0286	EA		39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	8,850.63	746.59
			For Galvanized Finish, Add	220.72	
			For >10 To 20, Deduct	-331.63	
			For >20 To 40, Deduct	-589.68	
			For >40, Deduct	-1,252.94	
26 56 13 00-0287	EA		45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	8,186.85	970.57
			For Galvanized Finish, Add	187.37	
			For >10 To 20, Deduct	-298.36	
			For >20 To 40, Deduct	-534.26	
			For >40, Deduct	-1,130.97	
26 56 13 00-0288	EA		45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	9,496.59	970.57
			For Galvanized Finish, Add	226.66	
			For >10 To 20, Deduct	-350.75	
			For >20 To 40, Deduct	-625.94	
			For >40, Deduct	-1,327.43	
26 56 13 00-0289	EA		50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	9,862.03	1,119.88
			For Galvanized Finish, Add	228.67	
			For >10 To 20, Deduct	-360.88	
			For >20 To 40, Deduct	-645.55	
			For >40, Deduct	-1,367.32	
26 56 13 00-0290			Factory Accessories For Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0291	EA		1/2", 3/4" Or 1" Diameter, Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles	84.58	
26 56 13 00-0292	EA		Extra Handhole For Steel Area Light Poles	125.79	
26 56 13 00-0293	EA		Vibration Dampener For Steel Area Light Poles	127.96	
26 56 13 00-0294			Aluminum Area Light Poles (26 56 13 00-0177)		
			Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0295			Round Straight, Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0296			Round Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0295)		
26 56 13 00-0297	EA		8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	829.37	223.98
			For Bronze Or Satin Anodized Finish, Add	38.14	
			For Black Anodized Finish, Add	76.28	
			For >10 To 20, Deduct	-26.46	
			For >20 To 40, Deduct	-49.10	
			For >40, Deduct	-102.01	
26 56 13 00-0298	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	923.59	261.31
			For Bronze Or Satin Anodized Finish, Add	40.10	
			For Black Anodized Finish, Add	80.20	
			For >10 To 20, Deduct	-29.10	
			For >20 To 40, Deduct	-54.20	
			For >40, Deduct	-112.41	
26 56 13 00-0299	EA		12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,022.70	298.64
			For Bronze Or Satin Anodized Finish, Add	42.54	
			For Black Anodized Finish, Add	85.09	
			For >10 To 20, Deduct	-31.95	
			For >20 To 40, Deduct	-59.64	
			For >40, Deduct	-123.54	
26 56 13 00-0300	EA		14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,122.79	335.97
			For Bronze Or Satin Anodized Finish, Add	45.09	
			For Black Anodized Finish, Add	90.17	
			For >10 To 20, Deduct	-34.83	
			For >20 To 40, Deduct	-65.16	
			For >40, Deduct	-134.82	
26 56 13 00-0301	EA		15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,176.75	354.63
			For Bronze Or Satin Anodized Finish, Add	46.75	
			For Black Anodized Finish, Add	93.50	
			For >10 To 20, Deduct	-36.43	
			For >20 To 40, Deduct	-68.19	
			For >40, Deduct	-141.05	
26 56 13 00-0302	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,229.73	373.29
			For Bronze Or Satin Anodized Finish, Add	48.31	
			For Black Anodized Finish, Add	96.63	
			For >10 To 20, Deduct	-37.99	
			For >20 To 40, Deduct	-71.15	
			For >40, Deduct	-147.13	
26 56 13 00-0303	EA		16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,288.41	373.29
			For Bronze Or Satin Anodized Finish, Add	54.18	
			For Black Anodized Finish, Add	108.36	
			For >10 To 20, Deduct	-40.34	
			For >20 To 40, Deduct	-75.26	
			For >40, Deduct	-155.93	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 13 00-0304	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,400.23		410.62
		For Bronze Or Satin Anodized Finish, Add	57.90		
		For Black Anodized Finish, Add	115.80		
		For >10 To 20, Deduct	-43.69		
		For >20 To 40, Deduct	-81.59		
		For >40, Deduct	-168.97		
26 56 13 00-0305	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,506.19		447.95
		For Bronze Or Satin Anodized Finish, Add	61.03		
		For Black Anodized Finish, Add	122.06		
		For >10 To 20, Deduct	-46.81		
		For >20 To 40, Deduct	-87.52		
		For >40, Deduct	-181.13		
26 56 13 00-0306	EA	15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,392.89		354.63
		For Bronze Or Satin Anodized Finish, Add	68.36		
		For Black Anodized Finish, Add	136.73		
		For >10 To 20, Deduct	-45.08		
		For >20 To 40, Deduct	-83.32		
		For >40, Deduct	-173.47		
26 56 13 00-0307	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,722.33		447.95
		For Bronze Or Satin Anodized Finish, Add	82.64		
		For Black Anodized Finish, Add	165.28		
		For >10 To 20, Deduct	-55.45		
		For >20 To 40, Deduct	-102.64		
		For >40, Deduct	-213.55		
26 56 13 00-0308	EA	20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,831.87		447.95
		For Bronze Or Satin Anodized Finish, Add	93.60		
		For Black Anodized Finish, Add	187.19		
		For >10 To 20, Deduct	-59.84		
		For >20 To 40, Deduct	-110.31		
		For >40, Deduct	-229.99		
26 56 13 00-0309	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	2,233.19		597.27
		For Bronze Or Satin Anodized Finish, Add	103.87		
		For Black Anodized Finish, Add	207.73		
		For >10 To 20, Deduct	-71.41		
		For >20 To 40, Deduct	-132.43		
		For >40, Deduct	-275.25		
26 56 13 00-0310	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	2,577.14		671.93
		For Bronze Or Satin Anodized Finish, Add	123.33		
		For Black Anodized Finish, Add	246.65		
		For >10 To 20, Deduct	-82.93		
		For >20 To 40, Deduct	-153.52		
		For >40, Deduct	-319.38		
26 56 13 00-0311	EA	20' High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	1,573.67		447.95
		For Bronze Or Satin Anodized Finish, Add	67.78		
		For Black Anodized Finish, Add	135.55		
		For >10 To 20, Deduct	-49.51		
		For >20 To 40, Deduct	-92.24		
		For >40, Deduct	-191.26		
26 56 13 00-0312	EA	20' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	1,823.06		447.95
		For Bronze Or Satin Anodized Finish, Add	92.72		
		For Black Anodized Finish, Add	185.43		
		For >10 To 20, Deduct	-59.48		
		For >20 To 40, Deduct	-109.70		
		For >40, Deduct	-228.66		
26 56 13 00-0313	EA	25' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	2,217.54		597.27
		For Bronze Or Satin Anodized Finish, Add	102.30		
		For Black Anodized Finish, Add	204.60		
		For >10 To 20, Deduct	-70.78		
		For >20 To 40, Deduct	-131.34		
		For >40, Deduct	-272.90		
26 56 13 00-0314	EA	25' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	2,359.35		597.27
		For Bronze Or Satin Anodized Finish, Add	116.48		
		For Black Anodized Finish, Add	232.96		
		For >10 To 20, Deduct	-76.46		
		For >20 To 40, Deduct	-141.26		
		For >40, Deduct	-294.18		
26 56 13 00-0315	EA	30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	2,737.53		671.93
		For Bronze Or Satin Anodized Finish, Add	139.37		
		For Black Anodized Finish, Add	278.73		
		For >10 To 20, Deduct	-89.34		
		For >20 To 40, Deduct	-164.75		
		For >40, Deduct	-343.44		
26 56 13 00-0316		Round Straight, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0295)			
26 56 13 00-0317	EA	8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	929.13		223.98
		For Bronze, Satin Or Black Anodized Finish, Add	72.18		
		For >10 To 20, Deduct	-30.45		
		For >20 To 40, Deduct	-56.08		
		For >40, Deduct	-116.97		
26 56 13 00-0318	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,042.91		261.31
		For Bronze, Satin Or Black Anodized Finish, Add	78.05		
		For >10 To 20, Deduct	-33.88		
		For >20 To 40, Deduct	-62.55		
		For >40, Deduct	-130.31		



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0319	EA	12'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,152.78 83.33 -37.15 -68.75 -143.05	298.64
26 56 13 00-0320	EA	14'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,244.07 85.82 -39.68 -73.65 -153.01	335.97
26 56 13 00-0321	EA	16'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,347.09 90.08 -42.68 -79.36 -164.73	373.29
26 56 13 00-0322	EA	10'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,063.45 81.13 -34.70 -63.99 -133.39	261.31
26 56 13 00-0323	EA	12'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,171.36 86.11 -37.90 -70.05 -145.84	298.64
26 56 13 00-0324	EA	14'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,282.21 91.54 -41.21 -76.32 -158.74	335.97
26 56 13 00-0325	EA	16'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,392.08 96.82 -44.48 -82.51 -171.48	373.29
26 56 13 00-0326	EA	18'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,506.83 102.84 -47.95 -89.05 -184.96	410.62
26 56 13 00-0327	EA	20'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,615.73 107.97 -51.19 -95.18 -197.56	447.95
26 56 13 00-0328	EA	12'	High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,209.50 91.83 -39.42 -72.72 -151.56	298.64
26 56 13 00-0329	EA	14'	High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,327.20 98.29 -43.01 -79.47 -165.48	335.97
26 56 13 00-0330	EA	16'	High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,443.91 104.60 -46.56 -86.14 -179.26	373.29
26 56 13 00-0331	EA	18'	High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,562.58 111.20 -50.18 -92.96 -193.32	410.62
26 56 13 00-0332	EA	16'	High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,498.68 112.81 -48.75 -89.98 -187.47	373.29
26 56 13 00-0333	EA	20'	High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,743.84 127.19 -56.31 -104.15 -216.78	447.95
26 56 13 00-0334	EA	12'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,245.69 97.26 -40.87 -75.25 -156.99	298.64
26 56 13 00-0335	EA	14'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,374.14 105.33 -44.89 -82.75 -172.52	335.97

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0336	EA		16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,492.81	373.29
			For Bronze, Satin Or Black Anodized Finish, Add	111.93	
			For >10 To 20, Deduct	-48.51	
			For >20 To 40, Deduct	-89.56	
			For >40, Deduct	-186.59	
26 56 13 00-0337	EA		18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,617.35	410.62
			For Bronze, Satin Or Black Anodized Finish, Add	119.42	
			For >10 To 20, Deduct	-52.38	
			For >20 To 40, Deduct	-96.79	
			For >40, Deduct	-201.54	
26 56 13 00-0338	EA		20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,738.95	447.95
			For Bronze, Satin Or Black Anodized Finish, Add	126.46	
			For >10 To 20, Deduct	-56.12	
			For >20 To 40, Deduct	-103.81	
			For >40, Deduct	-216.05	
26 56 13 00-0339	EA		16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,564.21	373.29
			For Bronze, Satin Or Black Anodized Finish, Add	122.64	
			For >10 To 20, Deduct	-51.37	
			For >20 To 40, Deduct	-94.56	
			For >40, Deduct	-197.30	
26 56 13 00-0340	EA		18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,697.55	410.62
			For Bronze, Satin Or Black Anodized Finish, Add	131.45	
			For >10 To 20, Deduct	-55.58	
			For >20 To 40, Deduct	-102.40	
			For >40, Deduct	-213.57	
26 56 13 00-0341	EA		20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,769.27	447.95
			For Bronze, Satin Or Black Anodized Finish, Add	131.00	
			For >10 To 20, Deduct	-57.33	
			For >20 To 40, Deduct	-105.93	
			For >40, Deduct	-220.60	
26 56 13 00-0342 Round Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0295)					
Note: Includes rubberized undercoating on embedded portion.					
26 56 13 00-0343	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	733.20	186.65
			For Bronze Or Satin Anodized Finish, Add	35.99	
			For Black Anodized Finish, Add	71.98	
			For >10 To 20, Deduct	-23.73	
			For >20 To 40, Deduct	-43.86	
			For >40, Deduct	-91.32	
26 56 13 00-0344	EA		12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	789.11	205.32
			For Bronze Or Satin Anodized Finish, Add	37.85	
			For Black Anodized Finish, Add	75.70	
			For >10 To 20, Deduct	-25.41	
			For >20 To 40, Deduct	-47.03	
			For >40, Deduct	-97.84	
26 56 13 00-0345	EA		14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	870.45	223.98
			For Bronze Or Satin Anodized Finish, Add	42.25	
			For Black Anodized Finish, Add	84.50	
			For >10 To 20, Deduct	-28.10	
			For >20 To 40, Deduct	-51.97	
			For >40, Deduct	-108.17	
26 56 13 00-0346	EA		15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	892.94	223.98
			For Bronze Or Satin Anodized Finish, Add	44.50	
			For Black Anodized Finish, Add	89.00	
			For >10 To 20, Deduct	-29.00	
			For >20 To 40, Deduct	-53.55	
			For >40, Deduct	-111.54	
26 56 13 00-0347	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	921.31	223.98
			For Bronze Or Satin Anodized Finish, Add	47.34	
			For Black Anodized Finish, Add	94.67	
			For >10 To 20, Deduct	-30.13	
			For >20 To 40, Deduct	-55.53	
			For >40, Deduct	-115.80	
26 56 13 00-0348	EA		18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,044.70	242.65
			For Bronze Or Satin Anodized Finish, Add	55.94	
			For Black Anodized Finish, Add	111.88	
			For >10 To 20, Deduct	-34.51	
			For >20 To 40, Deduct	-63.42	
			For >40, Deduct	-132.44	
26 56 13 00-0349	EA		20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,118.22	261.31
			For Bronze Or Satin Anodized Finish, Add	59.56	
			For Black Anodized Finish, Add	119.12	
			For >10 To 20, Deduct	-36.89	
			For >20 To 40, Deduct	-67.82	
			For >40, Deduct	-141.60	
26 56 13 00-0350	EA		20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,269.81	261.31
			For Bronze Or Satin Anodized Finish, Add	74.72	
			For Black Anodized Finish, Add	149.44	
			For >10 To 20, Deduct	-42.95	
			For >20 To 40, Deduct	-78.43	
			For >40, Deduct	-164.34	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0351	EA		25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,539.09	298.64
			For Bronze Or Satin Anodized Finish, Add	94.18	
			For Black Anodized Finish, Add	188.36	
			For >10 To 20, Deduct	-52.60	
			For >20 To 40, Deduct	-95.79	
			For >40, Deduct	-201.00	
26 56 13 00-0352	EA		30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,744.81	335.97
			For Bronze Or Satin Anodized Finish, Add	107.29	
			For Black Anodized Finish, Add	214.58	
			For >10 To 20, Deduct	-59.71	
			For >20 To 40, Deduct	-108.70	
			For >40, Deduct	-228.13	
26 56 13 00-0353	EA		30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial	1,923.78	335.97
			For Bronze Or Satin Anodized Finish, Add	125.19	
			For Black Anodized Finish, Add	250.37	
			For >10 To 20, Deduct	-66.87	
			For >20 To 40, Deduct	-121.23	
			For >40, Deduct	-254.97	
26 56 13 00-0354 Round Tapered, Aluminum Area Light Poles (26 56 13 00-0294)					
26 56 13 00-0355 Round Tapered, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0354)					
26 56 13 00-0356	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	724.73	223.98
			For Bronze Or Satin Anodized Finish, Add	27.68	
			For Black Anodized Finish, Add	55.36	
			For >10 To 20, Deduct	-22.27	
			For >20 To 40, Deduct	-41.77	
			For >40, Deduct	-86.31	
26 56 13 00-0357	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	821.88	261.31
			For Bronze Or Satin Anodized Finish, Add	29.93	
			For Black Anodized Finish, Add	59.85	
			For >10 To 20, Deduct	-25.04	
			For >20 To 40, Deduct	-47.08	
			For >40, Deduct	-97.15	
26 56 13 00-0358	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	919.04	298.64
			For Bronze Or Satin Anodized Finish, Add	32.18	
			For Black Anodized Finish, Add	64.35	
			For >10 To 20, Deduct	-27.80	
			For >20 To 40, Deduct	-52.39	
			For >40, Deduct	-107.99	
26 56 13 00-0359	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,024.99	335.97
			For Bronze Or Satin Anodized Finish, Add	35.31	
			For Black Anodized Finish, Add	70.61	
			For >10 To 20, Deduct	-30.92	
			For >20 To 40, Deduct	-58.31	
			For >40, Deduct	-120.15	
26 56 13 00-0360	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,129.97	373.29
			For Bronze Or Satin Anodized Finish, Add	38.34	
			For Black Anodized Finish, Add	76.68	
			For >10 To 20, Deduct	-34.00	
			For >20 To 40, Deduct	-64.17	
			For >40, Deduct	-132.17	
26 56 13 00-0361	EA		10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	847.31	261.31
			For Bronze Or Satin Anodized Finish, Add	32.47	
			For Black Anodized Finish, Add	64.94	
			For >10 To 20, Deduct	-26.05	
			For >20 To 40, Deduct	-48.86	
			For >40, Deduct	-100.97	
26 56 13 00-0362	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	959.13	298.64
			For Bronze Or Satin Anodized Finish, Add	36.19	
			For Black Anodized Finish, Add	72.37	
			For >10 To 20, Deduct	-29.41	
			For >20 To 40, Deduct	-55.19	
			For >40, Deduct	-114.01	
26 56 13 00-0363	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,068.02	335.97
			For Bronze Or Satin Anodized Finish, Add	39.61	
			For Black Anodized Finish, Add	79.22	
			For >10 To 20, Deduct	-32.64	
			For >20 To 40, Deduct	-61.32	
			For >40, Deduct	-126.61	
26 56 13 00-0364	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,278.96	410.62
			For Bronze Or Satin Anodized Finish, Add	45.77	
			For Black Anodized Finish, Add	91.54	
			For >10 To 20, Deduct	-38.84	
			For >20 To 40, Deduct	-73.10	
			For >40, Deduct	-150.78	
26 56 13 00-0365	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,378.07	447.95
			For Bronze Or Satin Anodized Finish, Add	48.22	
			For Black Anodized Finish, Add	96.43	
			For >10 To 20, Deduct	-41.68	
			For >20 To 40, Deduct	-78.55	
			For >40, Deduct	-161.92	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0366	EA	12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	995.32	298.64
		For Bronze Or Satin Anodized Finish, Add	39.81		
		For Black Anodized Finish, Add	79.61		
		For >10 To 20, Deduct	-30.85		
		For >20 To 40, Deduct	-57.73		
		For >40, Deduct	-119.43		
26 56 13 00-0367	EA	14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,110.08	335.97
		For Bronze Or Satin Anodized Finish, Add	43.82		
		For Black Anodized Finish, Add	87.63		
		For >10 To 20, Deduct	-34.32		
		For >20 To 40, Deduct	-64.27		
		For >40, Deduct	-132.92		
26 56 13 00-0368	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,231.68	373.29
		For Bronze Or Satin Anodized Finish, Add	48.51		
		For Black Anodized Finish, Add	97.02		
		For >10 To 20, Deduct	-38.07		
		For >20 To 40, Deduct	-71.29		
		For >40, Deduct	-147.42		
26 56 13 00-0369	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,335.68	410.62
		For Bronze Or Satin Anodized Finish, Add	51.44		
		For Black Anodized Finish, Add	102.89		
		For >10 To 20, Deduct	-41.11		
		For >20 To 40, Deduct	-77.07		
		For >40, Deduct	-159.29		
26 56 13 00-0370	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,453.38	447.95
		For Bronze Or Satin Anodized Finish, Add	55.75		
		For Black Anodized Finish, Add	111.49		
		For >10 To 20, Deduct	-44.70		
		For >20 To 40, Deduct	-83.82		
		For >40, Deduct	-173.21		
26 56 13 00-0371	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,327.53	373.29
		For Bronze Or Satin Anodized Finish, Add	58.09		
		For Black Anodized Finish, Add	116.19		
		For >10 To 20, Deduct	-41.90		
		For >20 To 40, Deduct	-78.00		
		For >40, Deduct	-161.80		
26 56 13 00-0372	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,457.93	410.62
		For Bronze Or Satin Anodized Finish, Add	63.67		
		For Black Anodized Finish, Add	127.34		
		For >10 To 20, Deduct	-46.00		
		For >20 To 40, Deduct	-85.63		
		For >40, Deduct	-177.63		
26 56 13 00-0373	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,548.24	447.95
		For Bronze Or Satin Anodized Finish, Add	65.23		
		For Black Anodized Finish, Add	130.47		
		For >10 To 20, Deduct	-48.49		
		For >20 To 40, Deduct	-90.46		
		For >40, Deduct	-187.44		
26 56 13 00-0374	EA	23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,784.60	522.61
		For Bronze Or Satin Anodized Finish, Add	73.94		
		For Black Anodized Finish, Add	147.88		
		For >10 To 20, Deduct	-55.71		
		For >20 To 40, Deduct	-104.02		
		For >40, Deduct	-215.43		
26 56 13 00-0375	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,026.83	597.27
		For Bronze Or Satin Anodized Finish, Add	83.23		
		For Black Anodized Finish, Add	166.46		
		For >10 To 20, Deduct	-63.16		
		For >20 To 40, Deduct	-117.99		
		For >40, Deduct	-244.30		
26 56 13 00-0376	EA	18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,553.78	410.62
		For Bronze Or Satin Anodized Finish, Add	73.25		
		For Black Anodized Finish, Add	146.51		
		For >10 To 20, Deduct	-49.83		
		For >20 To 40, Deduct	-92.34		
		For >40, Deduct	-192.00		
26 56 13 00-0377	EA	20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,664.63	447.95
		For Bronze Or Satin Anodized Finish, Add	76.87		
		For Black Anodized Finish, Add	153.74		
		For >10 To 20, Deduct	-53.15		
		For >20 To 40, Deduct	-98.61		
		For >40, Deduct	-204.90		
26 56 13 00-0378	EA	23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,876.53	522.61
		For Bronze Or Satin Anodized Finish, Add	83.13		
		For Black Anodized Finish, Add	166.26		
		For >10 To 20, Deduct	-59.38		
		For >20 To 40, Deduct	-110.45		
		For >40, Deduct	-229.22		
26 56 13 00-0379	EA	25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,097.24	597.27
		For Bronze Or Satin Anodized Finish, Add	90.27		
		For Black Anodized Finish, Add	180.54		
		For >10 To 20, Deduct	-65.97		
		For >20 To 40, Deduct	-122.92		
		For >40, Deduct	-254.86		



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0380	EA		28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,251.13	634.60
			For Bronze Or Satin Anodized Finish, Add	98.19	
			For Black Anodized Finish, Add	196.38	
			For >10 To 20, Deduct	-71.01	
			For >20 To 40, Deduct	-132.19	
			For >40, Deduct	-274.21	
26 56 13 00-0381	EA		30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,406.97	671.93
			For Bronze Or Satin Anodized Finish, Add	106.31	
			For Black Anodized Finish, Add	212.62	
			For >10 To 20, Deduct	-76.12	
			For >20 To 40, Deduct	-141.61	
			For >40, Deduct	-293.85	
26 56 13 00-0382	EA		23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,967.48	522.61
			For Bronze Or Satin Anodized Finish, Add	92.23	
			For Black Anodized Finish, Add	184.45	
			For >10 To 20, Deduct	-63.02	
			For >20 To 40, Deduct	-116.82	
			For >40, Deduct	-242.86	
26 56 13 00-0383	EA		25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,157.88	597.27
			For Bronze Or Satin Anodized Finish, Add	96.33	
			For Black Anodized Finish, Add	192.67	
			For >10 To 20, Deduct	-68.40	
			For >20 To 40, Deduct	-127.16	
			For >40, Deduct	-263.96	
26 56 13 00-0384	EA		28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,316.66	634.60
			For Bronze Or Satin Anodized Finish, Add	104.75	
			For Black Anodized Finish, Add	209.49	
			For >10 To 20, Deduct	-73.63	
			For >20 To 40, Deduct	-136.78	
			For >40, Deduct	-284.04	
26 56 13 00-0385	EA		30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,508.68	671.93
			For Bronze Or Satin Anodized Finish, Add	116.48	
			For Black Anodized Finish, Add	232.96	
			For >10 To 20, Deduct	-80.19	
			For >20 To 40, Deduct	-148.73	
			For >40, Deduct	-309.11	
26 56 13 00-0386	EA		33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,590.02	690.60
			For Bronze Or Satin Anodized Finish, Add	120.88	
			For Black Anodized Finish, Add	241.76	
			For >10 To 20, Deduct	-82.88	
			For >20 To 40, Deduct	-153.68	
			For >40, Deduct	-319.44	
26 56 13 00-0387	EA		35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,745.69	709.26
			For Bronze Or Satin Anodized Finish, Add	132.72	
			For Black Anodized Finish, Add	265.43	
			For >10 To 20, Deduct	-88.55	
			For >20 To 40, Deduct	-163.83	
			For >40, Deduct	-340.93	
26 56 13 00-0388	EA		12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,035.42	298.64
			For Bronze Or Satin Anodized Finish, Add	43.82	
			For Black Anodized Finish, Add	87.63	
			For >10 To 20, Deduct	-32.46	
			For >20 To 40, Deduct	-60.53	
			For >40, Deduct	-125.45	
26 56 13 00-0389	EA		14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,157.02	335.97
			For Bronze Or Satin Anodized Finish, Add	48.51	
			For Black Anodized Finish, Add	97.02	
			For >10 To 20, Deduct	-36.20	
			For >20 To 40, Deduct	-67.55	
			For >40, Deduct	-139.96	
26 56 13 00-0390	EA		16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,282.54	373.29
			For Bronze Or Satin Anodized Finish, Add	53.60	
			For Black Anodized Finish, Add	107.19	
			For >10 To 20, Deduct	-40.10	
			For >20 To 40, Deduct	-74.85	
			For >40, Deduct	-155.05	
26 56 13 00-0391	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,397.30	410.62
			For Bronze Or Satin Anodized Finish, Add	57.61	
			For Black Anodized Finish, Add	115.21	
			For >10 To 20, Deduct	-43.57	
			For >20 To 40, Deduct	-81.39	
			For >40, Deduct	-168.53	
26 56 13 00-0392	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,511.08	447.95
			For Bronze Or Satin Anodized Finish, Add	61.52	
			For Black Anodized Finish, Add	123.03	
			For >10 To 20, Deduct	-47.00	
			For >20 To 40, Deduct	-87.86	
			For >40, Deduct	-181.87	
26 56 13 00-0393	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,389.14	373.29
			For Bronze Or Satin Anodized Finish, Add	64.26	
			For Black Anodized Finish, Add	128.51	
			For >10 To 20, Deduct	-44.37	
			For >20 To 40, Deduct	-82.31	
			For >40, Deduct	-171.04	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 13 00-0394	EA	18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,522.48	410.62	
		For Bronze Or Satin Anodized Finish, Add	70.12		
		For Black Anodized Finish, Add	140.25		
		For >10 To 20, Deduct	-48.58		
		For >20 To 40, Deduct	-90.15		
		For >40, Deduct	-187.31		
26 56 13 00-0395	EA	20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,625.51	447.95	
		For Bronze Or Satin Anodized Finish, Add	72.96		
		For Black Anodized Finish, Add	145.92		
		For >10 To 20, Deduct	-51.58		
		For >20 To 40, Deduct	-95.87		
		For >40, Deduct	-199.03		
26 56 13 00-0396	EA	23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,856.97	522.61	
		For Bronze Or Satin Anodized Finish, Add	81.18		
		For Black Anodized Finish, Add	162.35		
		For >10 To 20, Deduct	-58.60		
		For >20 To 40, Deduct	-109.08		
		For >40, Deduct	-226.28		
26 56 13 00-0397	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,094.31	597.27	
		For Bronze Or Satin Anodized Finish, Add	89.98		
		For Black Anodized Finish, Add	179.95		
		For >10 To 20, Deduct	-65.85		
		For >20 To 40, Deduct	-122.71		
		For >40, Deduct	-254.42		
26 56 13 00-0398	EA	23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,078.00	522.61	
		For Bronze Or Satin Anodized Finish, Add	103.28		
		For Black Anodized Finish, Add	206.56		
		For >10 To 20, Deduct	-67.44		
		For >20 To 40, Deduct	-124.56		
		For >40, Deduct	-259.44		
26 56 13 00-0399	EA	25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,304.58	597.27	
		For Bronze Or Satin Anodized Finish, Add	111.00		
		For Black Anodized Finish, Add	222.01		
		For >10 To 20, Deduct	-74.27		
		For >20 To 40, Deduct	-137.43		
		For >40, Deduct	-285.96		
26 56 13 00-0400	EA	28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,475.10	634.60	
		For Bronze Or Satin Anodized Finish, Add	120.59		
		For Black Anodized Finish, Add	241.18		
		For >10 To 20, Deduct	-79.97		
		For >20 To 40, Deduct	-147.87		
		For >40, Deduct	-307.80		
26 56 13 00-0401	EA	30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,628.98	671.93	
		For Bronze Or Satin Anodized Finish, Add	128.51		
		For Black Anodized Finish, Add	257.02		
		For >10 To 20, Deduct	-85.00		
		For >20 To 40, Deduct	-157.15		
		For >40, Deduct	-327.15		
26 56 13 00-0402	EA	33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,761.17	690.60	
		For Bronze Or Satin Anodized Finish, Add	138.00		
		For Black Anodized Finish, Add	275.99		
		For >10 To 20, Deduct	-89.73		
		For >20 To 40, Deduct	-165.66		
		For >40, Deduct	-345.12		
26 56 13 00-0403	EA	35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,877.72	709.26	
		For Bronze Or Satin Anodized Finish, Add	145.92		
		For Black Anodized Finish, Add	291.84		
		For >10 To 20, Deduct	-93.83		
		For >20 To 40, Deduct	-173.07		
		For >40, Deduct	-360.73		
26 56 13 00-0404	EA	37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,978.62	727.93	
		For Bronze Or Satin Anodized Finish, Add	152.28		
		For Black Anodized Finish, Add	304.55		
		For >10 To 20, Deduct	-97.31		
		For >20 To 40, Deduct	-179.39		
		For >40, Deduct	-374.00		
26 56 13 00-0405	EA	39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,152.87	746.59	
		For Bronze Or Satin Anodized Finish, Add	165.97		
		For Black Anodized Finish, Add	331.94		
		For >10 To 20, Deduct	-103.72		
		For >20 To 40, Deduct	-190.84		
		For >40, Deduct	-398.27		
26 56 13 00-0406	EA	28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,897.60	634.60	
		For Bronze Or Satin Anodized Finish, Add	162.84		
		For Black Anodized Finish, Add	325.68		
		For >10 To 20, Deduct	-96.87		
		For >20 To 40, Deduct	-177.45		
		For >40, Deduct	-371.18		
26 56 13 00-0407	EA	30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,117.98	671.93	
		For Bronze Or Satin Anodized Finish, Add	177.41		
		For Black Anodized Finish, Add	354.82		
		For >10 To 20, Deduct	-104.56		
		For >20 To 40, Deduct	-191.38		
		For >40, Deduct	-400.50		



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0408	EA	33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,269.74 188.85 377.71 -110.07 -201.26 -421.40	690.60
26 56 13 00-0409	EA	35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,387.26 196.87 393.75 -114.21 -208.74 -437.16	709.26
26 56 13 00-0410	EA	37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,456.87 200.10 400.20 -116.44 -212.86 -445.74	727.93
26 56 13 00-0411	EA	39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,647.75 215.46 430.91 -123.51 -225.48 -472.50	746.59
26 56 13 00-0412	EA	28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,763.61 149.44 298.88 -91.51 -168.07 -351.08	634.60
26 56 13 00-0413	EA	30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,966.39 162.25 324.50 -98.50 -180.77 -377.77	671.93
26 56 13 00-0414	EA	33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,047.73 166.65 333.31 -101.19 -185.72 -388.10	690.60
26 56 13 00-0415	EA	35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,241.54 182.30 364.60 -108.38 -198.54 -415.30	709.26
26 56 13 00-0416	EA	37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,341.46 188.56 377.12 -111.82 -204.79 -428.43	727.93
26 56 13 00-0417	EA	39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,533.32 204.01 408.03 -118.93 -217.47 -455.34	746.59
26 56 13 00-0418	EA	28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,375.84 210.66 421.33 -116.00 -210.92 -442.92	634.60
26 56 13 00-0419	EA	30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,569.82 222.60 445.19 -122.63 -223.01 -468.28	671.93
26 56 13 00-0420	EA	33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,723.53 234.23 468.47 -128.22 -233.02 -489.47	690.60
26 56 13 00-0421	EA	35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,956.47 253.79 507.59 -136.98 -248.58 -522.54	709.26

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0422	EA		37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,015.31	727.93
			<i>For Bronze Or Satin Anodized Finish, Add</i>	255.95	
			<i>For Black Anodized Finish, Add</i>	511.89	
			<i>For >10 To 20, Deduct</i>	-138.77	
			<i>For >20 To 40, Deduct</i>	-251.95	
			<i>For >40, Deduct</i>	-529.50	
26 56 13 00-0423	EA		39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,247.27	746.59
			<i>For Bronze Or Satin Anodized Finish, Add</i>	275.41	
			<i>For Black Anodized Finish, Add</i>	550.82	
			<i>For >10 To 20, Deduct</i>	-147.49	
			<i>For >20 To 40, Deduct</i>	-267.45	
			<i>For >40, Deduct</i>	-562.43	
26 56 13 00-0424	EA		48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,446.67	1,119.88
			<i>For Bronze Or Satin Anodized Finish, Add</i>	320.69	
			<i>For Black Anodized Finish, Add</i>	641.38	
			<i>For >10 To 20, Deduct</i>	-184.27	
			<i>For >20 To 40, Deduct</i>	-336.47	
			<i>For >40, Deduct</i>	-705.01	
26 56 13 00-0425	EA		50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,567.95	1,119.88
			<i>For Bronze Or Satin Anodized Finish, Add</i>	332.82	
			<i>For Black Anodized Finish, Add</i>	665.63	
			<i>For >10 To 20, Deduct</i>	-189.12	
			<i>For >20 To 40, Deduct</i>	-344.96	
			<i>For >40, Deduct</i>	-723.20	
26 56 13 00-0426 Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0354)					
26 56 13 00-0427	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	935.00	223.98
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	73.06	
			<i>For >10 To 20, Deduct</i>	-30.68	
			<i>For >20 To 40, Deduct</i>	-56.49	
			<i>For >40, Deduct</i>	-117.85	
26 56 13 00-0428	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,030.20	261.31
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	76.14	
			<i>For >10 To 20, Deduct</i>	-33.37	
			<i>For >20 To 40, Deduct</i>	-61.66	
			<i>For >40, Deduct</i>	-128.40	
26 56 13 00-0429	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,126.37	298.64
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	79.37	
			<i>For >10 To 20, Deduct</i>	-36.10	
			<i>For >20 To 40, Deduct</i>	-66.90	
			<i>For >40, Deduct</i>	-139.09	
26 56 13 00-0430	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,224.51	335.97
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	82.89	
			<i>For >10 To 20, Deduct</i>	-38.90	
			<i>For >20 To 40, Deduct</i>	-72.28	
			<i>For >40, Deduct</i>	-150.08	
26 56 13 00-0431	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,321.66	373.29
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	86.26	
			<i>For >10 To 20, Deduct</i>	-41.67	
			<i>For >20 To 40, Deduct</i>	-77.58	
			<i>For >40, Deduct</i>	-160.92	
26 56 13 00-0432	EA		10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,041.93	261.31
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	77.90	
			<i>For >10 To 20, Deduct</i>	-33.84	
			<i>For >20 To 40, Deduct</i>	-62.48	
			<i>For >40, Deduct</i>	-130.16	
26 56 13 00-0433	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,140.07	298.64
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	81.42	
			<i>For >10 To 20, Deduct</i>	-36.64	
			<i>For >20 To 40, Deduct</i>	-67.86	
			<i>For >40, Deduct</i>	-141.15	
26 56 13 00-0434	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,240.15	335.97
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	85.23	
			<i>For >10 To 20, Deduct</i>	-39.53	
			<i>For >20 To 40, Deduct</i>	-73.37	
			<i>For >40, Deduct</i>	-152.43	
26 56 13 00-0435	EA		16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,339.26	373.29
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	88.90	
			<i>For >10 To 20, Deduct</i>	-42.37	
			<i>For >20 To 40, Deduct</i>	-78.82	
			<i>For >40, Deduct</i>	-163.56	
26 56 13 00-0436	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,451.09	410.62
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	94.48	
			<i>For >10 To 20, Deduct</i>	-45.72	
			<i>For >20 To 40, Deduct</i>	-85.15	
			<i>For >40, Deduct</i>	-176.60	
26 56 13 00-0437	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,554.11	447.95
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	98.73	
			<i>For >10 To 20, Deduct</i>	-48.73	
			<i>For >20 To 40, Deduct</i>	-90.87	
			<i>For >40, Deduct</i>	-188.32	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0438	EA	12'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,178.21 87.14 -38.17 -70.53 -146.87	298.64
26 56 13 00-0439	EA	14'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,283.19 91.69 -41.25 -76.38 -158.88	335.97
26 56 13 00-0440	EA	16'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,399.90 98.00 -44.80 -83.06 -172.66	373.29
26 56 13 00-0441	EA	18'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,506.83 102.84 -47.95 -89.05 -184.96	410.62
26 56 13 00-0442	EA	20'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,626.48 109.59 -51.62 -95.94 -199.18	447.95
26 56 13 00-0443	EA	16'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,455.65 106.36 -47.03 -86.96 -181.02	373.29
26 56 13 00-0444	EA	18'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,582.14 114.13 -50.97 -94.32 -196.26	410.62
26 56 13 00-0445	EA	20'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,687.12 118.68 -54.05 -100.18 -208.27	447.95
26 56 13 00-0446	EA	12'	High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,208.53 91.69 -39.38 -72.65 -151.42	298.64
26 56 13 00-0447	EA	14'	High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,329.15 98.58 -43.09 -79.60 -165.78	335.97
26 56 13 00-0448	EA	16'	High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,455.65 106.36 -47.03 -86.96 -181.02	373.29
26 56 13 00-0449	EA	18'	High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,570.41 112.37 -50.50 -93.50 -194.50	410.62
26 56 13 00-0450	EA	20'	High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,692.01 119.42 -54.24 -100.52 -209.01	447.95
26 56 13 00-0451	EA	16'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,519.22 115.89 -49.57 -91.41 -190.55	373.29
26 56 13 00-0452	EA	18'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,653.54 124.84 -53.82 -99.32 -206.97	410.62
26 56 13 00-0453	EA	20'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,763.40 130.12 -57.10 -105.52 -219.71	447.95

26 56 13 00-0454 Round Tapered, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0354)
Note: Includes rubberized undercoating on embedded portion.

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0455	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	662.78	186.65
			For Bronze Or Satin Anodized Finish, Add	28.95	
			For Black Anodized Finish, Add	57.90	
			For >10 To 20, Deduct	-20.91	
			For >20 To 40, Deduct	-38.93	
			For >40, Deduct	-80.75	
26 56 13 00-0456	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	690.17	186.65
			For Bronze Or Satin Anodized Finish, Add	31.69	
			For Black Anodized Finish, Add	63.38	
			For >10 To 20, Deduct	-22.01	
			For >20 To 40, Deduct	-40.85	
			For >40, Deduct	-84.86	
26 56 13 00-0457	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	749.99	205.32
			For Bronze Or Satin Anodized Finish, Add	33.94	
			For Black Anodized Finish, Add	67.87	
			For >10 To 20, Deduct	-23.84	
			For >20 To 40, Deduct	-44.29	
			For >40, Deduct	-91.97	
26 56 13 00-0458	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	802.97	223.98
			For Bronze Or Satin Anodized Finish, Add	35.50	
			For Black Anodized Finish, Add	71.00	
			For >10 To 20, Deduct	-25.40	
			For >20 To 40, Deduct	-47.25	
			For >40, Deduct	-98.05	
26 56 13 00-0459	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	838.18	223.98
			For Bronze Or Satin Anodized Finish, Add	39.02	
			For Black Anodized Finish, Add	78.05	
			For >10 To 20, Deduct	-26.81	
			For >20 To 40, Deduct	-49.71	
			For >40, Deduct	-103.33	
26 56 13 00-0460	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	776.40	205.32
			For Bronze Or Satin Anodized Finish, Add	36.58	
			For Black Anodized Finish, Add	73.16	
			For >10 To 20, Deduct	-24.90	
			For >20 To 40, Deduct	-46.14	
			For >40, Deduct	-95.93	
26 56 13 00-0461	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	841.11	223.98
			For Bronze Or Satin Anodized Finish, Add	39.32	
			For Black Anodized Finish, Add	78.63	
			For >10 To 20, Deduct	-26.93	
			For >20 To 40, Deduct	-49.92	
			For >40, Deduct	-103.77	
26 56 13 00-0462	EA		16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	860.67	223.98
			For Bronze Or Satin Anodized Finish, Add	41.27	
			For Black Anodized Finish, Add	82.54	
			For >10 To 20, Deduct	-27.71	
			For >20 To 40, Deduct	-51.29	
			For >40, Deduct	-106.70	
26 56 13 00-0463	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	929.30	242.65
			For Bronze Or Satin Anodized Finish, Add	44.40	
			For Black Anodized Finish, Add	88.80	
			For >10 To 20, Deduct	-29.89	
			For >20 To 40, Deduct	-55.35	
			For >40, Deduct	-115.13	
26 56 13 00-0464	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	994.01	261.31
			For Bronze Or Satin Anodized Finish, Add	47.14	
			For Black Anodized Finish, Add	94.28	
			For >10 To 20, Deduct	-31.92	
			For >20 To 40, Deduct	-59.13	
			For >40, Deduct	-122.97	
26 56 13 00-0465	EA		16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	917.39	223.98
			For Bronze Or Satin Anodized Finish, Add	46.94	
			For Black Anodized Finish, Add	93.89	
			For >10 To 20, Deduct	-29.98	
			For >20 To 40, Deduct	-55.26	
			For >40, Deduct	-115.21	
26 56 13 00-0466	EA		18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	991.89	242.65
			For Bronze Or Satin Anodized Finish, Add	50.66	
			For Black Anodized Finish, Add	101.32	
			For >10 To 20, Deduct	-32.40	
			For >20 To 40, Deduct	-59.73	
			For >40, Deduct	-124.52	
26 56 13 00-0467	EA		20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,061.49	261.31
			For Bronze Or Satin Anodized Finish, Add	53.89	
			For Black Anodized Finish, Add	107.78	
			For >10 To 20, Deduct	-34.62	
			For >20 To 40, Deduct	-63.85	
			For >40, Deduct	-133.09	
26 56 13 00-0468	EA		18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,072.09	242.65
			For Bronze Or Satin Anodized Finish, Add	58.68	
			For Black Anodized Finish, Add	117.36	
			For >10 To 20, Deduct	-35.60	
			For >20 To 40, Deduct	-65.34	
			For >40, Deduct	-136.55	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0469	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	.....	1,366.96	298.64
		For Bronze Or Satin Anodized Finish, Add	76.97		
		For Black Anodized Finish, Add	153.94		
		For >10 To 20, Deduct	-45.72		
		For >20 To 40, Deduct	-83.74		
		For >40, Deduct	-175.18		
26 56 13 00-0470	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial	.....	1,477.48	298.64
		For Bronze Or Satin Anodized Finish, Add	88.02		
		For Black Anodized Finish, Add	176.04		
		For >10 To 20, Deduct	-50.14		
		For >20 To 40, Deduct	-91.48		
		For >40, Deduct	-191.76		
26 56 13 00-0471	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	.....	1,647.01	335.97
		For Bronze Or Satin Anodized Finish, Add	97.51		
		For Black Anodized Finish, Add	195.02		
		For >10 To 20, Deduct	-55.80		
		For >20 To 40, Deduct	-101.85		
		For >40, Deduct	-213.46		
26 56 13 00-0472	EA	30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	.....	1,767.30	335.97
		For Bronze Or Satin Anodized Finish, Add	109.54		
		For Black Anodized Finish, Add	219.07		
		For >10 To 20, Deduct	-60.61		
		For >20 To 40, Deduct	-110.27		
		For >40, Deduct	-231.50		
26 56 13 00-0473		Square Straight, Aluminum Area Light Poles	(26 56 13 00-0294)		
26 56 13 00-0474		Square Straight, Aluminum Area Light Poles, Anchor Base	(26 56 13 00-0473)		
26 56 13 00-0475	EA	8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	851.87	223.98
		For Bronze Or Satin Anodized Finish, Add	40.39		
		For Black Anodized Finish, Add	80.78		
		For >10 To 20, Deduct	-27.36		
		For >20 To 40, Deduct	-50.67		
		For >40, Deduct	-105.38		
26 56 13 00-0476	EA	10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	947.07	261.31
		For Bronze Or Satin Anodized Finish, Add	42.45		
		For Black Anodized Finish, Add	84.89		
		For >10 To 20, Deduct	-30.04		
		For >20 To 40, Deduct	-55.84		
		For >40, Deduct	-115.93		
26 56 13 00-0477	EA	12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,050.09	298.64
		For Bronze Or Satin Anodized Finish, Add	45.28		
		For Black Anodized Finish, Add	90.56		
		For >10 To 20, Deduct	-33.04		
		For >20 To 40, Deduct	-61.56		
		For >40, Deduct	-127.65		
26 56 13 00-0478	EA	14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,152.13	335.97
		For Bronze Or Satin Anodized Finish, Add	48.02		
		For Black Anodized Finish, Add	96.04		
		For >10 To 20, Deduct	-36.01		
		For >20 To 40, Deduct	-67.21		
		For >40, Deduct	-139.22		
26 56 13 00-0479	EA	15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,207.07	354.63
		For Bronze Or Satin Anodized Finish, Add	49.78		
		For Black Anodized Finish, Add	99.56		
		For >10 To 20, Deduct	-37.64		
		For >20 To 40, Deduct	-70.31		
		For >40, Deduct	-145.60		
26 56 13 00-0480	EA	16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,262.00	373.29
		For Bronze Or Satin Anodized Finish, Add	51.54		
		For Black Anodized Finish, Add	103.08		
		For >10 To 20, Deduct	-39.28		
		For >20 To 40, Deduct	-73.41		
		For >40, Deduct	-151.97		
26 56 13 00-0481	EA	18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,369.91	410.62
		For Bronze Or Satin Anodized Finish, Add	54.87		
		For Black Anodized Finish, Add	109.73		
		For >10 To 20, Deduct	-42.48		
		For >20 To 40, Deduct	-79.47		
		For >40, Deduct	-164.42		
26 56 13 00-0482	EA	20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,486.63	447.95
		For Bronze Or Satin Anodized Finish, Add	59.07		
		For Black Anodized Finish, Add	118.14		
		For >10 To 20, Deduct	-46.03		
		For >20 To 40, Deduct	-86.15		
		For >40, Deduct	-178.20		
26 56 13 00-0483	EA	16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,329.48	373.29
		For Bronze Or Satin Anodized Finish, Add	58.29		
		For Black Anodized Finish, Add	116.58		
		For >10 To 20, Deduct	-41.98		
		For >20 To 40, Deduct	-78.13		
		For >40, Deduct	-162.09		

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0484	EA	18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,439.35	410.62
		For Bronze Or Satin Anodized Finish, Add	61.81		
		For Black Anodized Finish, Add	123.62		
		For >10 To 20, Deduct	-45.26		
		For >20 To 40, Deduct	-84.33		
		For >40, Deduct	-174.84		
26 56 13 00-0485	EA	20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,561.93	447.95
		For Bronze Or Satin Anodized Finish, Add	66.60		
		For Black Anodized Finish, Add	133.20		
		For >10 To 20, Deduct	-49.04		
		For >20 To 40, Deduct	-91.42		
		For >40, Deduct	-189.49		
26 56 13 00-0486	EA	15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,500.47	354.63
		For Bronze Or Satin Anodized Finish, Add	79.12		
		For Black Anodized Finish, Add	158.24		
		For >10 To 20, Deduct	-49.38		
		For >20 To 40, Deduct	-90.85		
		For >40, Deduct	-189.61		
26 56 13 00-0487	EA	20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,842.62	447.95
		For Bronze Or Satin Anodized Finish, Add	94.67		
		For Black Anodized Finish, Add	189.34		
		For >10 To 20, Deduct	-60.27		
		For >20 To 40, Deduct	-111.07		
		For >40, Deduct	-231.60		
26 56 13 00-0488	EA	25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,263.50	597.27
		For Bronze Or Satin Anodized Finish, Add	106.90		
		For Black Anodized Finish, Add	213.79		
		For >10 To 20, Deduct	-72.62		
		For >20 To 40, Deduct	-134.55		
		For >40, Deduct	-279.80		
26 56 13 00-0489	EA	20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,622.57	447.95
		For Bronze Or Satin Anodized Finish, Add	72.67		
		For Black Anodized Finish, Add	145.33		
		For >10 To 20, Deduct	-51.46		
		For >20 To 40, Deduct	-95.66		
		For >40, Deduct	-198.59		
26 56 13 00-0490	EA	20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,960.96	447.95
		For Bronze Or Satin Anodized Finish, Add	106.51		
		For Black Anodized Finish, Add	213.01		
		For >10 To 20, Deduct	-65.00		
		For >20 To 40, Deduct	-119.35		
		For >40, Deduct	-249.35		
26 56 13 00-0491	EA	25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,371.09	597.27
		For Bronze Or Satin Anodized Finish, Add	117.66		
		For Black Anodized Finish, Add	235.31		
		For >10 To 20, Deduct	-76.93		
		For >20 To 40, Deduct	-142.09		
		For >40, Deduct	-295.94		
26 56 13 00-0492	EA	20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,146.78	447.95
		For Bronze Or Satin Anodized Finish, Add	125.09		
		For Black Anodized Finish, Add	250.17		
		For >10 To 20, Deduct	-72.43		
		For >20 To 40, Deduct	-132.36		
		For >40, Deduct	-277.22		
26 56 13 00-0493	EA	25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,613.63	597.27
		For Bronze Or Satin Anodized Finish, Add	141.91		
		For Black Anodized Finish, Add	283.82		
		For >10 To 20, Deduct	-86.63		
		For >20 To 40, Deduct	-159.06		
		For >40, Deduct	-332.32		
26 56 13 00-0494	EA	30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	3,015.29	671.93
		For Bronze Or Satin Anodized Finish, Add	167.14		
		For Black Anodized Finish, Add	334.28		
		For >10 To 20, Deduct	-100.45		
		For >20 To 40, Deduct	-184.19		
		For >40, Deduct	-385.10		
26 56 13 00-0495		Square Straight, Aluminum Area Light Poles, Direct Burial	(26 56 13 00-0473)		
		Note: Includes rubberized undercoating on embedded portion.			
26 56 13 00-0496	EA	10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	.....	758.63	186.65
		For Bronze Or Satin Anodized Finish, Add	38.53		
		For Black Anodized Finish, Add	77.07		
		For >10 To 20, Deduct	-24.75		
		For >20 To 40, Deduct	-45.64		
		For >40, Deduct	-95.13		
26 56 13 00-0497	EA	12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	.....	845.83	205.32
		For Bronze Or Satin Anodized Finish, Add	43.52		
		For Black Anodized Finish, Add	87.04		
		For >10 To 20, Deduct	-27.67		
		For >20 To 40, Deduct	-51.00		
		For >40, Deduct	-106.34		



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST		
26 56 13 00-0498	EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	903.70 45.58 91.15 -29.43 -54.30 -113.16		223.98	
26 56 13 00-0499	EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	928.15 48.02 96.04 -30.41 -56.01 -116.83		223.98	
26 56 13 00-0500	EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	958.47 51.05 102.10 -31.62 -58.13 -121.37		223.98	
26 56 13 00-0501	EA 18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,099.47 61.42 122.84 -36.70 -67.26 -140.66		242.65	
26 56 13 00-0502	EA 20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,178.85 65.62 131.25 -39.31 -72.07 -150.70		261.31	
26 56 13 00-0503	EA 20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,332.40 80.98 161.96 -45.46 -82.82 -173.73		261.31	
26 56 13 00-0504	EA 25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,530.29 93.30 186.60 -52.25 -95.17 -199.68		298.64	
26 56 13 00-0505	EA 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,873.57 127.63 255.26 -65.98 -119.20 -251.17		298.64	
26 56 13 00-0506	Factory Accessories For Aluminum Area Light Poles (26 56 13 00-0294)				
26 56 13 00-0507	EA 1/2", 3/4" Or 1" Diameter, Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles.....	84.58			
26 56 13 00-0508	EA Extra Handhole For Aluminum Area Light Poles	36.45			
26 56 13 00-0509	EA Vibration Dampener For Aluminum Area Light Poles	127.96			
26 56 13 00-0510	Fiberglass Area Light Poles (26 56 13 00-0177) Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.				
26 56 13 00-0511	Round Tapered, Fiberglass Area Light Poles (26 56 13 00-0510)				
26 56 13 00-0512	Round Tapered, Fiberglass Area Light Poles, Anchor Base (26 56 13 00-0511)				
26 56 13 00-0513	EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,303.56 -44.30 -80.80 -169.40		261.31	
26 56 13 00-0514	EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,424.70 -48.03 -87.78 -183.84		298.64	
26 56 13 00-0515	EA 14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,547.17 -51.81 -94.86 -198.48		335.97	
26 56 13 00-0516	EA 16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,668.32 -55.53 -101.85 -212.92		373.29	
26 56 13 00-0517	EA 18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,813.37 -60.22 -110.51 -230.94		410.62	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 56 13 00-0518	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,937.17		447.95
		For>10 To 20, Deduct	-64.05		
		For>20 To 40, Deduct	-117.68		
		For>40, Deduct	-245.78		
26 56 13 00-0519	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,134.29		522.61
		For>10 To 20, Deduct	-69.69		
		For>20 To 40, Deduct	-128.50		
		For>40, Deduct	-267.88		
26 56 13 00-0520	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,330.10		597.27
		For>10 To 20, Deduct	-75.29		
		For>20 To 40, Deduct	-139.22		
		For>40, Deduct	-289.79		
26 56 13 00-0521	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,437.68		597.27
		For>10 To 20, Deduct	-79.59		
		For>20 To 40, Deduct	-146.75		
		For>40, Deduct	-305.93		
26 56 13 00-0522	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,606.65		634.60
		For>10 To 20, Deduct	-85.23		
		For>20 To 40, Deduct	-157.08		
		For>40, Deduct	-327.54		
26 56 13 00-0523	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,775.60		671.93
		For>10 To 20, Deduct	-90.87		
		For>20 To 40, Deduct	-167.41		
		For>40, Deduct	-349.15		
26 56 13 00-0524	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,425.75		261.31
		For>10 To 20, Deduct	-49.19		
		For>20 To 40, Deduct	-89.35		
		For>40, Deduct	-187.73		
26 56 13 00-0525	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,522.98		298.64
		For>10 To 20, Deduct	-51.96		
		For>20 To 40, Deduct	-94.66		
		For>40, Deduct	-198.58		
26 56 13 00-0526	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,621.55		335.97
		For>10 To 20, Deduct	-54.78		
		For>20 To 40, Deduct	-100.07		
		For>40, Deduct	-209.64		
26 56 13 00-0527	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,722.77		373.29
		For>10 To 20, Deduct	-57.71		
		For>20 To 40, Deduct	-105.66		
		For>40, Deduct	-221.09		
26 56 13 00-0528	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,830.64		410.62
		For>10 To 20, Deduct	-60.91		
		For>20 To 40, Deduct	-111.72		
		For>40, Deduct	-233.53		
26 56 13 00-0529	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,937.17		447.95
		For>10 To 20, Deduct	-64.05		
		For>20 To 40, Deduct	-117.68		
		For>40, Deduct	-245.78		
26 56 13 00-0530	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,118.36		522.61
		For>10 To 20, Deduct	-69.06		
		For>20 To 40, Deduct	-127.38		
		For>40, Deduct	-265.49		
26 56 13 00-0531	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,330.10		597.27
		For>10 To 20, Deduct	-75.29		
		For>20 To 40, Deduct	-139.22		
		For>40, Deduct	-289.79		
26 56 13 00-0532	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,375.26		597.27
		For>10 To 20, Deduct	-77.09		
		For>20 To 40, Deduct	-142.38		
		For>40, Deduct	-296.56		
26 56 13 00-0533	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,496.41		634.60
		For>10 To 20, Deduct	-80.82		
		For>20 To 40, Deduct	-149.36		
		For>40, Deduct	-311.00		
26 56 13 00-0534	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,617.56		671.93
		For>10 To 20, Deduct	-84.54		
		For>20 To 40, Deduct	-156.35		
		For>40, Deduct	-325.44		
26 56 13 00-0535	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,605.04		261.31
		For>10 To 20, Deduct	-56.36		
		For>20 To 40, Deduct	-101.90		
		For>40, Deduct	-214.63		
26 56 13 00-0536	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,720.88		298.64
		For>10 To 20, Deduct	-59.88		
		For>20 To 40, Deduct	-108.52		
		For>40, Deduct	-228.27		
26 56 13 00-0537	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,836.71		335.97
		For>10 To 20, Deduct	-63.39		
		For>20 To 40, Deduct	-115.13		
		For>40, Deduct	-241.91		
26 56 13 00-0538	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,953.87		373.29
		For>10 To 20, Deduct	-66.96		
		For>20 To 40, Deduct	-121.84		
		For>40, Deduct	-255.75		



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0539	EA	18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,076.34	410.62	
		For >10 To 20, Deduct	-70.73		
		For >20 To 40, Deduct	-128.92		
		For >40, Deduct	-270.39		
26 56 13 00-0540	EA	20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,206.78	447.95	
		For >10 To 20, Deduct	-74.83		
		For >20 To 40, Deduct	-136.56		
		For >40, Deduct	-286.22		
26 56 13 00-0541	EA	22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,423.83	522.61	
		For >10 To 20, Deduct	-81.27		
		For >20 To 40, Deduct	-148.76		
		For >40, Deduct	-311.31		
26 56 13 00-0542	EA	24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,642.21	597.27	
		For >10 To 20, Deduct	-87.77		
		For >20 To 40, Deduct	-161.06		
		For >40, Deduct	-336.60		
26 56 13 00-0543	EA	26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,711.28	597.27	
		For >10 To 20, Deduct	-90.53		
		For >20 To 40, Deduct	-165.90		
		For >40, Deduct	-346.97		
26 56 13 00-0544	EA	28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,894.85	634.60	
		For >10 To 20, Deduct	-96.76		
		For >20 To 40, Deduct	-177.26		
		For >40, Deduct	-370.77		
26 56 13 00-0545	EA	30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,047.87	671.93	
		For >10 To 20, Deduct	-101.76		
		For >20 To 40, Deduct	-186.47		
		For >40, Deduct	-389.99		
26 56 13 00-0546	EA	32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,163.56	690.60	
		For >10 To 20, Deduct	-105.82		
		For >20 To 40, Deduct	-193.83		
		For >40, Deduct	-405.47		
26 56 13 00-0547	EA	34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,279.25	709.26	
		For >10 To 20, Deduct	-109.89		
		For >20 To 40, Deduct	-201.18		
		For >40, Deduct	-420.96		
26 56 13 00-0548		Round Tapered, Fiberglass Area Light Poles, Direct Burial (26 56 13 00-0511)			
26 56 13 00-0549	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	819.55	186.65	
		For >10 To 20, Deduct	-27.18		
		For >20 To 40, Deduct	-49.90		
		For >40, Deduct	-104.27		
26 56 13 00-0550	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	882.11	205.32	
		For >10 To 20, Deduct	-29.13		
		For >20 To 40, Deduct	-53.54		
		For >40, Deduct	-111.79		
26 56 13 00-0551	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	943.35	223.98	
		For >10 To 20, Deduct	-31.01		
		For >20 To 40, Deduct	-57.08		
		For >40, Deduct	-119.11		
26 56 13 00-0552	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	965.92	223.98	
		For >10 To 20, Deduct	-31.92		
		For >20 To 40, Deduct	-58.66		
		For >40, Deduct	-122.49		
26 56 13 00-0553	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,040.44	242.65	
		For >10 To 20, Deduct	-34.34		
		For >20 To 40, Deduct	-63.13		
		For >40, Deduct	-131.80		
26 56 13 00-0554	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,104.34	261.31	
		For >10 To 20, Deduct	-36.33		
		For >20 To 40, Deduct	-66.85		
		For >40, Deduct	-139.52		
26 56 13 00-0555	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,172.21	279.98	
		For >10 To 20, Deduct	-38.49		
		For >20 To 40, Deduct	-70.86		
		For >40, Deduct	-147.83		
26 56 13 00-0556	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,246.73	298.64	
		For >10 To 20, Deduct	-40.91		
		For >20 To 40, Deduct	-75.33		
		For >40, Deduct	-157.15		
26 56 13 00-0557	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,374.23	298.64	
		For >10 To 20, Deduct	-46.01		
		For >20 To 40, Deduct	-84.25		
		For >40, Deduct	-176.27		
26 56 13 00-0558	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,539.06	317.31	
		For >10 To 20, Deduct	-52.04		
		For >20 To 40, Deduct	-95.04		
		For >40, Deduct	-199.13		
26 56 13 00-0559	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,703.89	335.97	
		For >10 To 20, Deduct	-58.08		
		For >20 To 40, Deduct	-105.83		
		For >40, Deduct	-221.99		

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0560	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	941.73	186.65
		For >10 To 20, Deduct	.....	-32.07	
		For >20 To 40, Deduct	.....	-58.46	
		For >40, Deduct	.....	-122.60	
26 56 13 00-0561	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,010.94	205.32
		For >10 To 20, Deduct	.....	-34.28	
		For >20 To 40, Deduct	.....	-62.55	
		For >40, Deduct	.....	-131.11	
26 56 13 00-0562	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,080.14	223.98
		For >10 To 20, Deduct	.....	-36.49	
		For >20 To 40, Deduct	.....	-66.65	
		For >40, Deduct	.....	-139.62	
26 56 13 00-0563	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,113.35	223.98
		For >10 To 20, Deduct	.....	-37.81	
		For >20 To 40, Deduct	.....	-68.98	
		For >40, Deduct	.....	-144.61	
26 56 13 00-0564	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,182.55	242.65
		For >10 To 20, Deduct	.....	-40.02	
		For >20 To 40, Deduct	.....	-73.07	
		For >40, Deduct	.....	-153.12	
26 56 13 00-0565	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,251.76	261.31
		For >10 To 20, Deduct	.....	-42.23	
		For >20 To 40, Deduct	.....	-77.17	
		For >40, Deduct	.....	-161.63	
26 56 13 00-0566	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,320.96	279.98
		For >10 To 20, Deduct	.....	-44.44	
		For >20 To 40, Deduct	.....	-81.27	
		For >40, Deduct	.....	-170.15	
26 56 13 00-0567	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,420.72	298.64
		For >10 To 20, Deduct	.....	-47.87	
		For >20 To 40, Deduct	.....	-87.51	
		For >40, Deduct	.....	-183.24	
26 56 13 00-0568	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,544.23	298.64
		For >10 To 20, Deduct	.....	-52.81	
		For >20 To 40, Deduct	.....	-96.15	
		For >40, Deduct	.....	-201.77	
26 56 13 00-0569	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,706.41	317.31
		For >10 To 20, Deduct	.....	-58.74	
		For >20 To 40, Deduct	.....	-106.76	
		For >40, Deduct	.....	-224.23	
26 56 13 00-0570	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,867.26	335.97
		For >10 To 20, Deduct	.....	-64.61	
		For >20 To 40, Deduct	.....	-117.27	
		For >40, Deduct	.....	-246.49	
26 56 13 00-0571	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,049.31	186.65
		For >10 To 20, Deduct	.....	-36.37	
		For >20 To 40, Deduct	.....	-65.99	
		For >40, Deduct	.....	-138.73	
26 56 13 00-0572	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,110.55	205.32
		For >10 To 20, Deduct	.....	-38.26	
		For >20 To 40, Deduct	.....	-69.53	
		For >40, Deduct	.....	-146.05	
26 56 13 00-0573	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,170.46	223.98
		For >10 To 20, Deduct	.....	-40.10	
		For >20 To 40, Deduct	.....	-72.97	
		For >40, Deduct	.....	-153.17	
26 56 13 00-0574	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,193.04	223.98
		For >10 To 20, Deduct	.....	-41.00	
		For >20 To 40, Deduct	.....	-74.55	
		For >40, Deduct	.....	-156.56	
26 56 13 00-0575	EA	18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,252.94	242.65
		For >10 To 20, Deduct	.....	-42.84	
		For >20 To 40, Deduct	.....	-78.00	
		For >40, Deduct	.....	-163.68	
26 56 13 00-0576	EA	20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,314.18	261.31
		For >10 To 20, Deduct	.....	-44.73	
		For >20 To 40, Deduct	.....	-81.54	
		For >40, Deduct	.....	-171.00	
26 56 13 00-0577	EA	22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,420.57	279.98
		For >10 To 20, Deduct	.....	-48.42	
		For >20 To 40, Deduct	.....	-88.24	
		For >40, Deduct	.....	-185.09	
26 56 13 00-0578	EA	24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,542.91	298.64
		For >10 To 20, Deduct	.....	-52.76	
		For >20 To 40, Deduct	.....	-96.06	
		For >40, Deduct	.....	-201.57	
26 56 13 00-0579	EA	26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,619.94	298.64
		For >10 To 20, Deduct	.....	-55.84	
		For >20 To 40, Deduct	.....	-101.45	
		For >40, Deduct	.....	-213.13	
26 56 13 00-0580	EA	28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial	.....	1,735.63	317.31
		For >10 To 20, Deduct	.....	-59.91	
		For >20 To 40, Deduct	.....	-108.80	
		For >40, Deduct	.....	-228.61	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0581	EA	30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,851.32 -63.97 -116.15 -244.10	335.97
26 56 13 00-0582 Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)				
26 56 13 00-0583	EA	Open Or Capped Top For Fiberglass Area Light Poles	47.09	
26 56 13 00-0584	EA	Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles	47.09	
26 56 13 00-0585	EA	Smooth Shaft Finish For Fiberglass Area Light Poles	89.35	
26 56 13 00-0586	EA	Vibration Dampener For Fiberglass Area Light Poles.....	118.33	
26 56 13 00-0587 Concrete Area Light Poles (26 56 13 00-0177)				
26 56 13 00-0588 Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)				
26 56 13 00-0589	EA	28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,238.09	634.60
26 56 13 00-0590	EA	30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,361.20	671.93
26 56 13 00-0591	EA	33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,445.84	690.60
26 56 13 00-0592	EA	36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,960.63	709.26
26 56 13 00-0593	EA	38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	3,266.59	746.59
26 56 13 00-0594	EA	43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	4,068.19	970.57
26 56 13 00-0595	EA	47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	4,890.83	1,194.54
26 56 13 00-0596	EA	27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	4,459.10	634.60
Note: Polished brown with acrylic coating finish.				
26 56 13 00-0597	EA	30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	5,113.75	671.93
Note: Polished brown with acrylic coating finish.				
26 56 13 00-0598	EA	Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'	747.80	223.98
26 56 13 00-0599	EA	13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design	2,664.79	447.81
26 56 13 00-0600	EA	Pole Base Cover For All Octagon Poles	289.75	91.39
26 56 13 00-0601	EA	Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	594.45	182.76
26 56 13 00-0602 Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)				
Note: Round or square.				
26 56 13 00-0603	EA	13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,197.74	298.64
26 56 13 00-0604	EA	16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,502.72	373.29
26 56 13 00-0605	EA	18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,782.84	447.95
26 56 13 00-0606	EA	30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,903.27	671.93
26 56 13 00-0607	EA	35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	4,465.73	709.26
26 56 13 00-0608	EA	40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,072.26	746.59
26 56 13 00-0609	EA	45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,936.58	970.57
26 56 13 00-0610 Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)				
26 56 13 00-0611	EA	60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22)	19,756.21	1,679.84
26 56 13 00-0612	EA	70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24)	23,608.59	2,101.58
26 56 13 00-0613	EA	80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26)	28,018.71	2,838.97
26 56 13 00-0614 Treated Wood Area Light Poles (26 56 13 00-0177)				
See CSI section 26 05 46 00-0001 for wood poles.				
26 56 13 00-0615 Cast Iron Decorative Light Posts (26 56 13 00-0177)				
26 56 13 00-0616 Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0615)				
Note: As manufactured by Hadco and King Luminaries or an approved equal.				
26 56 13 00-0617	EA	10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,306.02	186.65
26 56 13 00-0618	EA	12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,387.54	215.02
26 56 13 00-0619	EA	14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,499.48	223.98
26 56 13 00-0620	EA	16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,834.53	261.31
26 56 13 00-0621	EA	18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,130.59	283.70
26 56 13 00-0622	EA	20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,440.35	306.10
26 56 13 00-0623 Landscape Light Poles (26 56 13 00-0001)				
Note: Excludes lighting fixtures.				
26 56 13 00-0624 Aluminum Landscape Light Poles (26 56 13 00-0623)				
Note: Includes painted finish.				
26 56 13 00-0625 Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0624)				
26 56 13 00-0626 Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0625)				
26 56 13 00-0627	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base	534.98	223.98
26 56 13 00-0628	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base	872.72	298.64
26 56 13 00-0629 Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0625)				
26 56 13 00-0630	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial	494.02	223.98
26 56 13 00-0631	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial	831.76	298.64

26	26	Electrical
	26 50	Lighting
	26 56	Exterior Lighting



MINOR		DESCRIPTION	TOTAL DIRECT		DEMOLITION
CSI	UOM		UNIT COST	UNIT COST	
26 56 13 00-0632		Steel Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.			
26 56 13 00-0633		Round Straight, Steel Landscape Light Poles (26 56 13 00-0632)			
26 56 13 00-0634		Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0633)			
26 56 13 00-0635	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base.....	592.36		223.98
26 56 13 00-0636		Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0633)			
26 56 13 00-0637	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial.....	560.01		223.98
26 56 13 00-0638		Light Pole Brackets And Arms (26 56 13 00-0001)			
26 56 13 00-0639		Light Pole Brackets (26 56 13 00-0638)			
26 56 13 00-0640		Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)			
26 56 13 00-0641		Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)			
26 56 13 00-0642		Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes powdercoat finish.			
26 56 13 00-0643	EA	Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	668.69 57.91		44.80
26 56 13 00-0644	EA	Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	843.41 75.38		44.80
26 56 13 00-0645	EA	Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	896.74 80.72		44.80
26 56 13 00-0646	EA	Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	1,225.95 113.64		44.80
26 56 13 00-0647	EA	Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	1,277.22 118.76		44.80
26 56 13 00-0648		Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes satin brushed or painted finish.			
26 56 13 00-0649	EA	Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	249.01 15.94 31.88		44.80
26 56 13 00-0650	EA	Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	299.86 21.03 42.05		44.80
26 56 13 00-0651	EA	Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	313.55 22.40 44.79		44.80
26 56 13 00-0652	EA	Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	361.48 27.19 54.38		44.80
26 56 13 00-0653	EA	Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	371.26 28.17 56.33		44.80
26 56 13 00-0654		Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)			
26 56 13 00-0655		Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0654) Note: Includes powdercoat finish.			
26 56 13 00-0656	EA	Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	718.58 62.90		44.80
26 56 13 00-0657	EA	Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	885.94 79.64		44.80
26 56 13 00-0658	EA	Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	1,082.50 99.29		44.80
26 56 13 00-0659	EA	Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	1,279.97 119.04		44.80
26 56 13 00-0660		Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0639)			
26 56 13 00-0661		Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0660) Note: Includes powdercoat finish.			
26 56 13 00-0662	EA	One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	684.97		74.66
26 56 13 00-0663	EA	Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,027.51		74.66
26 56 13 00-0664	EA	Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,432.81		74.66
26 56 13 00-0665	EA	Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,566.15		74.66
26 56 13 00-0666		Light Pole Arms (26 56 13 00-0638)			
26 56 13 00-0667		Wood Pole Streetlight Arms (26 56 13 00-0666)			
26 56 13 00-0668		Steel, Wood Pole Streetlight Arms (26 56 13 00-0667)			
26 56 13 00-0669	EA	1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	401.53		67.19
26 56 13 00-0670	EA	1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	425.42		74.66



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0671 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	494.25	93.33
26 56 13 00-0672 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	589.56	74.66
26 56 13 00-0673 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	657.93	93.33
26 56 13 00-0674 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	798.48	111.99
26 56 13 00-0675 Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0676 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	258.83	74.66
26 56 13 00-0677 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	315.00	74.66
26 56 13 00-0678 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	419.06	93.33
26 56 13 00-0679 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	546.39	111.99
26 56 13 00-0680 Area Light Arms (26 56 13 00-0666)		
26 56 13 00-0681 Steel Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0682 EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	760.05	74.66
26 56 13 00-0683 EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,187.71	82.12
26 56 13 00-0684 EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,319.54	89.59
26 56 13 00-0685 EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,565.88	97.06
26 56 13 00-0686 EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	907.13	93.33
26 56 13 00-0687 EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,291.84	100.79
26 56 13 00-0688 Aluminum Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0689 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	308.74	74.66
26 56 13 00-0690 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	381.27	93.33
26 56 13 00-0691 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	455.77	111.99
26 56 13 00-0692 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	306.78	74.66
26 56 13 00-0693 EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	427.33	82.12
26 56 13 00-0694 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	377.36	93.33
26 56 13 00-0695 EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	521.39	100.79
26 56 13 00-0696 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	457.72	111.99
26 56 13 00-0697 EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	632.07	119.45
26 56 13 00-0698 Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)		
26 56 13 00-0699 EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms.....	2,464.00	
26 56 13 00-0700 High Mast Lighting (26 56 13 00-0001)		
26 56 13 00-0701 High Mast Lighting Assemblies (26 56 13 00-0700)		
Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole.		
26 56 13 00-0702 EA 60' High Mast Lighting Assembly.....	60,497.36	2,332.82
26 56 13 00-0703 EA 70' High Mast Lighting Assembly.....	63,903.80	2,443.28
26 56 13 00-0704 EA 80' High Mast Lighting Assembly.....	67,348.97	2,602.86
26 56 13 00-0705 EA 90' High Mast Lighting Assembly.....	70,830.80	2,811.54
26 56 13 00-0706 EA 100' High Mast Lighting Assembly.....	74,332.92	3,069.23
26 56 13 00-0707 EA 110' High Mast Lighting Assembly.....	78,839.71	3,376.39
26 56 13 00-0708 EA 120' High Mast Lighting Assembly.....	82,481.39	3,683.29
26 56 13 00-0709 EA 130' High Mast Lighting Assembly.....	85,844.94	3,990.19
26 56 13 00-0710 EA 140' High Mast Lighting Assembly.....	89,486.60	4,297.24
26 56 13 00-0711 EA 150' High Mast Lighting Assembly.....	93,915.22	4,604.15
26 56 13 00-0712 High Mast Light Poles (26 56 13 00-0700)		
26 56 13 00-0713 EA 60' High Mast Light Poles.....	23,015.80	1,401.05
26 56 13 00-0714 EA 70' High Mast Light Poles.....	26,389.07	1,467.42
26 56 13 00-0715 EA 80' High Mast Light Poles.....	29,786.31	1,563.28
26 56 13 00-0716 EA 90' High Mast Light Poles.....	33,205.46	1,688.64
26 56 13 00-0717 EA 100' High Mast Light Poles.....	36,648.58	1,843.49
26 56 13 00-0718 EA 110' High Mast Light Poles.....	40,115.66	2,027.84
26 56 13 00-0719 EA 120' High Mast Light Poles.....	42,738.12	2,212.18
26 56 13 00-0720 EA 130' High Mast Light Poles.....	42,683.85	4,099.92
26 56 13 00-0721 EA 140' High Mast Light Poles.....	47,702.82	2,580.89
26 56 13 00-0722 EA 150' High Mast Light Poles.....	50,605.46	2,765.23
26 56 13 00-0723 High Mast Lighting Accessories (26 56 13 00-0700)		
26 56 13 00-0724 EA Bottom Latching System For High Mast Lighting.....	1,069.41	
26 56 13 00-0725 EA Top Latching System For High Mast Lighting.....	3,020.48	
26 56 13 00-0726 EA Centering Springs For High Mast Lighting.....	2,287.50	
26 56 13 00-0727 EA Electric Power Cord For High Mast Lighting.....	963.28	
26 56 13 00-0728 EA Aircraft Warning Lights For High Mast Lighting.....	1,797.75	
26 56 13 00-0729 EA Internal Motorized Hoist For High Mast Lighting.....	19,487.41	
26 56 13 00-0730 EA Portable Hoist Motor With Step Down Transformer For High Mast Lighting.....	19,605.13	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0731	Concrete Bases (26 56 13 00-0001)		
26 56 13 00-0732	Concrete Bases, Cast In Place (26 56 13 00-0731) Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.		
26 56 13 00-0733	EA Minimum Charge For Cast In Place Concrete Base For Poles Note: For projects where the cast in place concrete base for poles charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	604.06	
26 56 13 00-0734	VLF 1-1/2' Diameter Concrete Base For Poles	68.70	
26 56 13 00-0735	VLF 2' Diameter Concrete Base For Poles.....	95.03	
26 56 13 00-0736	VLF 2-1/2' Diameter Concrete Base For Poles	126.96	
26 56 13 00-0737	VLF 3' Diameter Concrete Base For Poles.....	165.73	
26 56 13 00-0738	VLF 3-1/2' Diameter Concrete Base For Poles	221.11	
26 56 13 00-0739	VLF 4' Diameter Concrete Base For Poles.....	277.35	
26 56 13 00-0740	VLF 5' Diameter Concrete Base For Poles.....	400.90	
26 56 13 00-0741	VLF 6' Diameter Concrete Base For Poles.....	549.79	
26 56 18	Incandescent Exterior Lighting (26 56)		
26 56 18 00-0001	Exterior Globe (26 56 18)		
26 56 18 00-0002	Incandescent, Exterior Globe (26 56 18 00-0001)		
26 56 18 00-0003	EA 100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	65.47	25.13
26 56 18 00-0004	EA 150 To 200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	97.71	25.13
26 56 18 00-0005	EA 100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	75.42	25.13
26 56 18 00-0006	EA 150 To 200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	101.55	25.13
26 56 18 00-0007	Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 18) Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 18 00-0008	EA 7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	289.82	100.52
26 56 18 00-0009	EA 9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	302.44	106.81
26 56 18 00-0010	EA 13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	332.35	113.09
26 56 18 00-0011	EA 75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	327.78	125.65
26 56 18 00-0012	EA 100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	368.67	144.50
26 56 19	LED Exterior Lighting (26 56)		
26 56 19 00-0001	LED, Wall Packs (26 56 19)		
26 56 19 00-0002	Full Cutoff, LED Wall Packs (26 56 19 00-0001)		
26 56 19 00-0003	Full Cutoff, LED Wall Packs (Lithonia) (26 56 19 00-0002)		
26 56 19 00-0004	EA 30 LEDs, 57 Watt, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,133.01 -56.65 -84.98 -135.04 -185.10 -235.16	131.80
26 56 19 00-0005	EA 30 LEDs, 35 Watt, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,227.38 -61.37 -92.05 -146.83 -201.61 -256.39	131.80
26 56 19 00-0006	Full Cutoff, LED Wall Packs (CREE® BetaLED®) (26 56 19 00-0002)		
26 56 19 00-0007	Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) (26 56 19 00-0006) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0008	EA 20 LEDs, 26 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) Note: Includes 350mA or 525mA driver. For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	927.08 18.52 47.81 55.57 55.57 83.36 120.40 -46.35 -69.53 -109.48 -149.44 -189.39	128.03



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR			TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
26 56 19 00-0009	EA	40 LEDs, 47 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) Note: Includes 350mA or 525mA driver. For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,185.27 18.52 48.57 55.57 55.57 83.36 120.40 -59.26 -88.90 -141.38 -193.87 -246.35		135.56	
26 56 19 00-0010	EA	60 LEDs, 68 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) Note: Includes 350mA or 525mA driver. For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,325.91 18.52 49.32 55.57 55.57 83.36 120.40 -66.30 -99.44 -158.58 -217.73 -276.87		143.09	
26 56 19 00-0011	EA	80 LEDs, 90 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) Note: Includes 350mA or 525mA driver. For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,701.64 18.52 50.07 55.57 55.57 83.36 120.40 -85.08 -127.62 -205.17 -282.73 -360.28		150.63	
26 56 19 00-0012	EA	100 LEDs, 111 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,959.84 18.52 50.83 55.57 55.57 83.36 120.40 -97.99 -146.99 -237.07 -327.16 -417.24		158.15	
26 56 19 00-0013	EA	120 LEDs, 132 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	2,218.03 18.52 51.58 55.57 55.57 83.36 120.40 -110.90 -166.35 -268.97 -371.59 -474.20		165.68	
26 56 19 00-0014		Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) ^(26 56 19 00-0006) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.				
26 56 19 00-0015	EA	25 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™) For 3 Or 7-Pin NEMA Photocell Receptacle, Add For 0 To 10 Volt Dimming, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	566.05 18.52 55.57 55.57 -28.30 -42.45 -64.35 -86.26 -108.16		128.03	
26 56 19 00-0016	EA	42 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™) For 3 Or 7-Pin NEMA Photocell Receptacle, Add For 0 To 10 Volt Dimming, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	653.43 18.52 55.57 55.57 -32.67 -49.01 -74.90 -100.79 -126.69		135.56	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0017	Full Cutoff, LED Wall Packs (McGraw-Edison) (26 56 19 00-0002)			
26 56 19 00-0018	EA	One 7 LED Light Bar, 27 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,377.54	128.03
26 56 19 00-0019	EA	Two 7 LED Light Bars, 54 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,711.01	135.56
26 56 19 00-0020	EA	One 21 LED Light Bar, 27 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,393.93	128.03
26 56 19 00-0021	EA	Two 21 LED Light Bars, 51 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,860.86	135.56
26 56 19 00-0022	Open Face LED Wall Pack (26 56 19 00-0001)			
Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass				
26 56 19 00-0023	EA	3,640 Lumens, 28 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS).....	780.96	137.53
		For >50 To 100, Deduct	-39.05	
		For >100 To 250, Deduct	-58.57	
		For >250 To 500, Deduct	-87.31	
		For >500 To 1,000, Deduct	-116.04	
		For >1,000, Deduct	-144.77	
26 56 19 00-0024	EA	5,540 Lumens, 40 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS).....	800.06	137.53
		For >50 To 100, Deduct	-40.00	
		For >100 To 250, Deduct	-60.00	
		For >250 To 500, Deduct	-89.69	
		For >500 To 1,000, Deduct	-119.38	
		For >1,000, Deduct	-149.07	
26 56 19 00-0025	EA	7,065 Lumens, 50 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS).....	841.13	137.53
		For >50 To 100, Deduct	-42.06	
		For >100 To 250, Deduct	-63.08	
		For >250 To 500, Deduct	-94.83	
		For >500 To 1,000, Deduct	-126.57	
		For >1,000, Deduct	-158.31	
26 56 19 00-0026	EA	11,375 Lumens, 80 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS).....	876.47	137.53
		For >50 To 100, Deduct	-43.82	
		For >100 To 250, Deduct	-65.74	
		For >250 To 500, Deduct	-99.24	
		For >500 To 1,000, Deduct	-132.75	
		For >1,000, Deduct	-166.26	
26 56 19 00-0027	EA	16,945 Lumens, 120 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS).....	939.23	137.53
		For >50 To 100, Deduct	-46.96	
		For >100 To 250, Deduct	-70.44	
		For >250 To 500, Deduct	-107.09	
		For >500 To 1,000, Deduct	-143.74	
		For >1,000, Deduct	-180.38	
26 56 19 00-0028	Wall Pack Accessories (26 56 19 00-0001)			
26 56 19 00-0029	EA	Photocell For Wall Pack.....	151.27	34.38
26 56 19 00-0030	EA	Wire Guard For Mini And Small Wall Pack	168.52	34.38
26 56 19 00-0031	EA	Wire Guard For Medium And Large Wall Pack	240.65	34.38
26 56 19 00-0032	EA	Clear Polycarbonate Vandal Guard For Wall Packs	344.74	34.38
26 56 19 00-0033	EA	Full Cutoff Visor For Wall Pack	163.82	34.38
26 56 19 00-0034	LED, Roadway Lighting (26 56 19)			
26 56 19 00-0035	LED Roadway Lighting (Philips Lumec) (26 56 19 00-0034)			
26 56 19 00-0036	Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) (26 56 19 00-0035)			
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.				
26 56 19 00-0037	EA	49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series).....	1,544.45	181.12
		For >50 To 100, Deduct	-77.22	
		For >100 To 250, Deduct	-115.83	
		For >250 To 500, Deduct	-184.00	
		For >500 To 1,000, Deduct	-252.17	
		For >1,000, Deduct	-320.33	
26 56 19 00-0038	EA	98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	2,389.18	186.02
		For >50 To 100, Deduct	-119.46	
		For >100 To 250, Deduct	-179.19	
		For >250 To 500, Deduct	-289.35	
		For >500 To 1,000, Deduct	-399.50	
		For >1,000, Deduct	-509.66	
26 56 19 00-0039	Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series) (26 56 19 00-0035)			
Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.				



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0040	EA		48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....	1,247.38	181.12
			For >50 To 100, Deduct	-62.37	
			For >100 To 250, Deduct	-93.55	
			For >250 To 500, Deduct	-146.87	
			For >500 To 1,000, Deduct	-200.18	
			For >1,000, Deduct	-253.49	
26 56 19 00-0041	EA		48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,335.89	181.12
			For >50 To 100, Deduct	-66.79	
			For >100 To 250, Deduct	-100.19	
			For >250 To 500, Deduct	-157.93	
			For >500 To 1,000, Deduct	-215.67	
			For >1,000, Deduct	-273.41	
26 56 19 00-0042	EA		48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,424.40	181.12
			For >50 To 100, Deduct	-71.22	
			For >100 To 250, Deduct	-106.83	
			For >250 To 500, Deduct	-168.99	
			For >500 To 1,000, Deduct	-231.16	
			For >1,000, Deduct	-293.32	
26 56 19 00-0043			LED Roadway Lighting (Lithonia) (26 56 19 00-0034)		
26 56 19 00-0044			Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) (26 56 19 00-0043)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 19 00-0045	EA		30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	2,498.69	171.33
			For >50 To 100, Deduct	-124.93	
			For >100 To 250, Deduct	-187.40	
			For >250 To 500, Deduct	-303.77	
			For >500 To 1,000, Deduct	-420.14	
			For >1,000, Deduct	-536.51	
26 56 19 00-0046	EA		60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	4,134.90	176.23
			For >50 To 100, Deduct	-206.75	
			For >100 To 250, Deduct	-310.12	
			For >250 To 500, Deduct	-508.05	
			For >500 To 1,000, Deduct	-705.99	
			For >1,000, Deduct	-903.92	
26 56 19 00-0047			LED Roadway Lighting (CREE® BetaLED®) (26 56 19 00-0034)		
26 56 19 00-0048			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) (26 56 19 00-0047)		
			Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		
26 56 19 00-0049	EA		20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	870.02	166.44
			For >50 To 100, Deduct	-43.50	
			For >100 To 250, Deduct	-65.25	
			For >250 To 500, Deduct	-100.43	
			For >500 To 1,000, Deduct	-135.61	
			For >1,000, Deduct	-170.79	
26 56 19 00-0050	EA		30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	970.91	171.33
			For >50 To 100, Deduct	-48.55	
			For >100 To 250, Deduct	-72.82	
			For >250 To 500, Deduct	-112.80	
			For >500 To 1,000, Deduct	-152.78	
			For >1,000, Deduct	-192.75	
26 56 19 00-0051	EA		40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,092.20	176.23
			For >50 To 100, Deduct	-54.61	
			For >100 To 250, Deduct	-81.92	
			For >250 To 500, Deduct	-127.71	
			For >500 To 1,000, Deduct	-173.51	
			For >1,000, Deduct	-219.31	
26 56 19 00-0052	EA		50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,194.65	181.12
			For >50 To 100, Deduct	-59.73	
			For >100 To 250, Deduct	-89.60	
			For >250 To 500, Deduct	-140.28	
			For >500 To 1,000, Deduct	-190.95	
			For >1,000, Deduct	-241.63	
26 56 19 00-0053	EA		60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,297.12	186.02
			For >50 To 100, Deduct	-64.86	
			For >100 To 250, Deduct	-97.28	
			For >250 To 500, Deduct	-152.84	
			For >500 To 1,000, Deduct	-208.39	
			For >1,000, Deduct	-263.95	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0054	EA		70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,537.78	190.91
			For >50 To 100, Deduct	-76.89	
			For >100 To 250, Deduct	-115.33	
			For >250 To 500, Deduct	-182.68	
			For >500 To 1,000, Deduct	-250.02	
			For >1,000, Deduct	-317.36	
26 56 19 00-0055	EA		80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,640.24	195.81
			For >50 To 100, Deduct	-82.01	
			For >100 To 250, Deduct	-123.02	
			For >250 To 500, Deduct	-195.24	
			For >500 To 1,000, Deduct	-267.46	
			For >1,000, Deduct	-339.68	
26 56 19 00-0056	EA		90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,741.12	200.71
			For >50 To 100, Deduct	-87.06	
			For >100 To 250, Deduct	-130.58	
			For >250 To 500, Deduct	-207.60	
			For >500 To 1,000, Deduct	-284.63	
			For >1,000, Deduct	-361.65	
26 56 19 00-0057	EA		100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,936.24	205.60
			For >50 To 100, Deduct	-96.81	
			For >100 To 250, Deduct	-145.22	
			For >250 To 500, Deduct	-231.75	
			For >500 To 1,000, Deduct	-318.28	
			For >1,000, Deduct	-404.81	
26 56 19 00-0058	EA		110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,038.71	210.50
			For >50 To 100, Deduct	-101.94	
			For >100 To 250, Deduct	-152.90	
			For >250 To 500, Deduct	-244.31	
			For >500 To 1,000, Deduct	-335.72	
			For >1,000, Deduct	-427.13	
26 56 19 00-0059	EA		120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,141.15	215.39
			For >50 To 100, Deduct	-107.06	
			For >100 To 250, Deduct	-160.59	
			For >250 To 500, Deduct	-256.87	
			For >500 To 1,000, Deduct	-353.16	
			For >1,000, Deduct	-449.45	
26 56 19 00-0060			Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) (26 56 19 00-0047) Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0061	EA		40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,665.46	176.23
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-83.27	
			For >100 To 250, Deduct	-124.91	
			For >250 To 500, Deduct	-199.37	
			For >500 To 1,000, Deduct	-273.83	
			For >1,000, Deduct	-348.29	
26 56 19 00-0062	EA		60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,915.93	186.02
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-95.80	
			For >100 To 250, Deduct	-143.69	
			For >250 To 500, Deduct	-230.19	
			For >500 To 1,000, Deduct	-316.69	
			For >1,000, Deduct	-403.18	
26 56 19 00-0063	EA		80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,166.39	195.81
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-108.32	
			For >100 To 250, Deduct	-162.48	
			For >250 To 500, Deduct	-261.01	
			For >500 To 1,000, Deduct	-359.54	
			For >1,000, Deduct	-458.07	
26 56 19 00-0064	EA		100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,416.84	205.60
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-120.84	
			For >100 To 250, Deduct	-181.26	
			For >250 To 500, Deduct	-291.83	
			For >500 To 1,000, Deduct	-402.39	
			For >1,000, Deduct	-512.95	
26 56 19 00-0065	EA		120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,157.32	215.39
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-157.87	
			For >100 To 250, Deduct	-236.80	
			For >250 To 500, Deduct	-383.90	
			For >500 To 1,000, Deduct	-530.99	
			For >1,000, Deduct	-678.09	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0066	EA		140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,407.78	225.18
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-170.39	
			For >100 To 250, Deduct	-255.58	
			For >250 To 500, Deduct	-414.71	
			For >500 To 1,000, Deduct	-573.84	
			For >1,000, Deduct	-732.97	
26 56 19 00-0067	EA		160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,658.24	234.97
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-182.91	
			For >100 To 250, Deduct	-274.37	
			For >250 To 500, Deduct	-445.53	
			For >500 To 1,000, Deduct	-616.70	
			For >1,000, Deduct	-787.86	
26 56 19 00-0068			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) (26 56 19 00-0047)		
			Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0069	EA		4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	739.51	176.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Backlight Control Shield, Add	35.13	
			For Field Adjustable Output, Add	27.79	
			For Bird Spikes, Add	52.63	
			For Field Adjustable Output And Utility Label, Add	37.05	
			For Fuse, Add	55.57	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
			For 480 Volt, Add	83.36	
			For Multi-Level, Add	120.40	
			For >50 To 100, Deduct	-36.98	
			For >100 To 250, Deduct	-55.46	
			For >250 To 500, Deduct	-83.63	
			For >500 To 1,000, Deduct	-111.79	
			For >1,000, Deduct	-139.96	
26 56 19 00-0070	EA		5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	739.51	176.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Backlight Control Shield, Add	35.13	
			For Field Adjustable Output, Add	27.79	
			For Bird Spikes, Add	52.63	
			For Field Adjustable Output And Utility Label, Add	37.05	
			For Fuse, Add	55.57	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
			For 480 Volt, Add	83.36	
			For Multi-Level, Add	120.40	
			For >50 To 100, Deduct	-36.98	
			For >100 To 250, Deduct	-55.46	
			For >250 To 500, Deduct	-83.63	
			For >500 To 1,000, Deduct	-111.79	
			For >1,000, Deduct	-139.96	
26 56 19 00-0071	EA		8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	809.52	176.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Backlight Control Shield, Add	35.13	
			For Field Adjustable Output, Add	27.79	
			For Bird Spikes, Add	52.63	
			For Field Adjustable Output And Utility Label, Add	37.05	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
			For 480 Volt, Add	83.36	
			For >50 To 100, Deduct	-40.48	
			For >100 To 250, Deduct	-60.71	
			For >250 To 500, Deduct	-92.38	
			For >500 To 1,000, Deduct	-124.04	
			For >1,000, Deduct	-155.71	
26 56 19 00-0072	EA		8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	809.52	176.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Backlight Control Shield, Add	35.13	
			For Field Adjustable Output, Add	27.79	
			For Bird Spikes, Add	52.63	
			For Field Adjustable Output And Utility Label, Add	37.05	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
			For 480 Volt, Add	83.36	
			For >50 To 100, Deduct	-40.48	
			For >100 To 250, Deduct	-60.71	
			For >250 To 500, Deduct	-92.38	
			For >500 To 1,000, Deduct	-124.04	
			For >1,000, Deduct	-155.71	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0073	EA		9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	933.99	176.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Field Adjustable Output, Add	27.79	
			For Backlight Control Shield, Add	48.73	
			For Field Adjustable Output And Utility Label, Add	37.05	
			For Fuse, Add	55.57	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
			For Bird Spikes, Add	83.76	
			For 480 Volt, Add	83.36	
			For Multi-Level, Add	120.40	
			For >50 To 100, Deduct	-46.70	
			For >100 To 250, Deduct	-70.05	
			For >250 To 500, Deduct	-107.94	
			For >500 To 1,000, Deduct	-145.83	
			For >1,000, Deduct	-183.71	
26 56 19 00-0074	EA		10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	933.99	176.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Field Adjustable Output, Add	27.79	
			For Backlight Control Shield, Add	48.73	
			For Field Adjustable Output And Utility Label, Add	37.05	
			For Fuse, Add	55.57	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
			For Bird Spikes, Add	83.76	
			For 480 Volt, Add	83.36	
			For Multi-Level, Add	120.40	
			For >50 To 100, Deduct	-46.70	
			For >100 To 250, Deduct	-70.05	
			For >250 To 500, Deduct	-107.94	
			For >500 To 1,000, Deduct	-145.83	
			For >1,000, Deduct	-183.71	
26 56 19 00-0075	EA		13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	1,050.70	176.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Field Adjustable Output, Add	27.79	
			For Backlight Control Shield, Add	48.73	
			For Field Adjustable Output And Utility Label, Add	37.05	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
			For Bird Spikes, Add	83.76	
			For 480 Volt, Add	83.36	
			For >50 To 100, Deduct	-52.54	
			For >100 To 250, Deduct	-78.80	
			For >250 To 500, Deduct	-122.53	
			For >500 To 1,000, Deduct	-166.25	
			For >1,000, Deduct	-209.97	
26 56 19 00-0076	EA		14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	1,050.70	176.23
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Field Adjustable Output, Add	27.79	
			For Backlight Control Shield, Add	48.73	
			For Field Adjustable Output And Utility Label, Add	37.05	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
			For Bird Spikes, Add	83.76	
			For 480 Volt, Add	83.36	
			For >50 To 100, Deduct	-52.54	
			For >100 To 250, Deduct	-78.80	
			For >250 To 500, Deduct	-122.53	
			For >500 To 1,000, Deduct	-166.25	
			For >1,000, Deduct	-209.97	
26 56 19 00-0077	EA		2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	615.02	176.23
			For Utility Label, Add	9.26	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	27.79	
			For 0 To 10 Volt Dimming, Add	55.57	
			For >50 To 100, Deduct	-30.75	
			For >100 To 250, Deduct	-46.13	
			For >250 To 500, Deduct	-68.07	
			For >500 To 1,000, Deduct	-90.01	
			For >1,000, Deduct	-111.95	
26 56 19 00-0078	EA		2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	615.02	176.23
			For Utility Label, Add	9.26	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	27.79	
			For 0 To 10 Volt Dimming, Add	55.57	
			For >50 To 100, Deduct	-30.75	
			For >100 To 250, Deduct	-46.13	
			For >250 To 500, Deduct	-68.07	
			For >500 To 1,000, Deduct	-90.01	
			For >1,000, Deduct	-111.95	



Electrical			26	26
Lighting			26 50	
Exterior Lighting			26 56	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0079	EA	3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C)	644.20	176.23	
		For Utility Label, Add	9.26		
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52		
		For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	27.79		
		For 0 To 10 Volt Dimming, Add	55.57		
		For >50 To 100, Deduct	-32.21		
		For >100 To 250, Deduct	-48.32		
		For >250 To 500, Deduct	-71.71		
		For >500 To 1,000, Deduct	-95.11		
		For >1,000, Deduct	-118.51		
26 56 19 00-0080	EA	4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C)	644.20	176.23	
		For Utility Label, Add	9.26		
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52		
		For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	27.79		
		For 0 To 10 Volt Dimming, Add	55.57		
		For >50 To 100, Deduct	-32.21		
		For >100 To 250, Deduct	-48.32		
		For >250 To 500, Deduct	-71.71		
		For >500 To 1,000, Deduct	-95.11		
		For >1,000, Deduct	-118.51		
26 56 19 00-0081	EA	4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A)	653.92	176.23	
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52		
		For Field Adjustable Output, Add	27.79		
		For Field Adjustable Output And Utility Label, Add	37.05		
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57		
		For 0 To 10 Volt Dimming, Add	55.57		
		For >50 To 100, Deduct	-32.70		
		For >100 To 250, Deduct	-49.04		
		For >250 To 500, Deduct	-72.93		
		For >500 To 1,000, Deduct	-96.81		
		For >1,000, Deduct	-120.70		
26 56 19 00-0082	EA	4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A)	653.92	176.23	
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52		
		For Field Adjustable Output, Add	27.79		
		For Field Adjustable Output And Utility Label, Add	37.05		
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57		
		For 0 To 10 Volt Dimming, Add	55.57		
		For >50 To 100, Deduct	-32.70		
		For >100 To 250, Deduct	-49.04		
		For >250 To 500, Deduct	-72.93		
		For >500 To 1,000, Deduct	-96.81		
		For >1,000, Deduct	-120.70		
26 56 19 00-0083		Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™) (26 56 19 00-0047) Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.			
26 56 19 00-0084	EA	3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N)	634.48	176.23	
		For Field Adjustable Output, Add	27.79		
		For Backlight Control Shield, Add	63.93		
		For Bird Spikes, Add	84.30		
		For >50 To 100, Deduct	-31.72		
		For >100 To 250, Deduct	-47.59		
		For >250 To 500, Deduct	-70.50		
		For >500 To 1,000, Deduct	-93.41		
		For >1,000, Deduct	-116.32		
26 56 19 00-0085	EA	3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N)	634.48	176.23	
		For Field Adjustable Output, Add	27.79		
		For Backlight Control Shield, Add	63.93		
		For Bird Spikes, Add	84.30		
		For >50 To 100, Deduct	-31.72		
		For >100 To 250, Deduct	-47.59		
		For >250 To 500, Deduct	-70.50		
		For >500 To 1,000, Deduct	-93.41		
		For >1,000, Deduct	-116.32		
26 56 19 00-0086	EA	5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N)	653.92	176.23	
		For Field Adjustable Output, Add	27.79		
		For Backlight Control Shield, Add	63.93		
		For Bird Spikes, Add	84.30		
		For >50 To 100, Deduct	-32.70		
		For >100 To 250, Deduct	-49.04		
		For >250 To 500, Deduct	-72.93		
		For >500 To 1,000, Deduct	-96.81		
		For >1,000, Deduct	-120.70		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0087	EA		5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....	653.92	176.23
			For Field Adjustable Output, Add	27.79	
			For Backlight Control Shield, Add	63.93	
			For Bird Spikes, Add	84.30	
			For >50 To 100, Deduct	-32.70	
			For >100 To 250, Deduct	-49.04	
			For >250 To 500, Deduct	-72.93	
			For >500 To 1,000, Deduct	-96.81	
			For >1,000, Deduct	-120.70	
26 56 19 00-0088			LED Roadway Lighting (Cooper Lighting) (26 56 19 00-0034)		
26 56 19 00-0089			Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) (26 56 19 00-0088)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0090	EA		1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,093.86	176.23
			For >50 To 100, Deduct	-54.69	
			For >100 To 250, Deduct	-82.04	
			For >250 To 500, Deduct	-127.92	
			For >500 To 1,000, Deduct	-173.80	
			For >1,000, Deduct	-219.68	
26 56 19 00-0091	EA		2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,484.07	195.81
			For >50 To 100, Deduct	-74.20	
			For >100 To 250, Deduct	-111.31	
			For >250 To 500, Deduct	-175.72	
			For >500 To 1,000, Deduct	-240.13	
			For >1,000, Deduct	-304.54	
26 56 19 00-0092	EA		3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,591.37	225.18
			For >50 To 100, Deduct	-79.57	
			For >100 To 250, Deduct	-119.35	
			For >250 To 500, Deduct	-187.66	
			For >500 To 1,000, Deduct	-255.97	
			For >1,000, Deduct	-324.28	
26 56 19 00-0093	EA		4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,370.81	244.76
			For >50 To 100, Deduct	-118.54	
			For >100 To 250, Deduct	-177.81	
			For >250 To 500, Deduct	-284.11	
			For >500 To 1,000, Deduct	-390.42	
			For >1,000, Deduct	-496.72	
26 56 19 00-0094	EA		6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	3,110.84	278.66
			For >50 To 100, Deduct	-155.54	
			For >100 To 250, Deduct	-233.31	
			For >250 To 500, Deduct	-374.92	
			For >500 To 1,000, Deduct	-516.53	
			For >1,000, Deduct	-658.14	
26 56 19 00-0095			LED Roadway Lighting (PlanLED) (26 56 19 00-0034)		
26 56 19 00-0096			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) (26 56 19 00-0095)		
			Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0097	EA		8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W).....	1,316.00	171.33
			For >50 To 100, Deduct	-65.80	
			For >100 To 250, Deduct	-98.70	
			For >250 To 500, Deduct	-155.93	
			For >500 To 1,000, Deduct	-213.17	
			For >1,000, Deduct	-270.40	
26 56 19 00-0098	EA		11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W).....	1,431.89	173.22
			For >50 To 100, Deduct	-71.59	
			For >100 To 250, Deduct	-107.39	
			For >250 To 500, Deduct	-170.33	
			For >500 To 1,000, Deduct	-233.26	
			For >1,000, Deduct	-296.19	
26 56 19 00-0099	EA		15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W).....	1,523.14	176.23
			For >50 To 100, Deduct	-76.16	
			For >100 To 250, Deduct	-114.24	
			For >250 To 500, Deduct	-181.58	
			For >500 To 1,000, Deduct	-248.93	
			For >1,000, Deduct	-316.27	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0100			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) (26 56 19 00-0095) Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0101	EA		7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060).....	865.91	167.19
			For >50 To 100, Deduct	-43.30	
			For >100 To 250, Deduct	-64.94	
			For >250 To 500, Deduct	-99.88	
			For >500 To 1,000, Deduct	-134.81	
			For >1,000, Deduct	-169.75	
26 56 19 00-0102	EA		10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080)	928.00	170.20
			For >50 To 100, Deduct	-46.40	
			For >100 To 250, Deduct	-69.60	
			For >250 To 500, Deduct	-107.49	
			For >500 To 1,000, Deduct	-145.38	
			For >1,000, Deduct	-183.27	
26 56 19 00-0103	EA		12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100)	1,025.97	173.22
			For >50 To 100, Deduct	-51.30	
			For >100 To 250, Deduct	-76.95	
			For >250 To 500, Deduct	-119.59	
			For >500 To 1,000, Deduct	-162.22	
			For >1,000, Deduct	-204.86	
26 56 19 00-0104			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) (26 56 19 00-0095) Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0105	EA		13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100)	1,091.00	173.22
			For 0 To 10 Volt Dimming, Add	96.89	
			For 480 Volt, Add	96.89	
			For >50 To 100, Deduct	-54.55	
			For >100 To 250, Deduct	-81.83	
			For >250 To 500, Deduct	-127.71	
			For >500 To 1,000, Deduct	-173.60	
			For >1,000, Deduct	-219.49	
26 56 19 00-0106	EA		16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130)	1,210.63	174.73
			For 0 To 10 Volt Dimming, Add	96.89	
			For 480 Volt, Add	29.25	
			For >50 To 100, Deduct	-60.53	
			For >100 To 250, Deduct	-90.80	
			For >250 To 500, Deduct	-142.59	
			For >500 To 1,000, Deduct	-194.39	
			For >1,000, Deduct	-246.18	
26 56 19 00-0107	EA		19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150)	1,303.35	176.23
			For 0 To 10 Volt Dimming, Add	96.89	
			For 480 Volt, Add	121.08	
			For >50 To 100, Deduct	-65.17	
			For >100 To 250, Deduct	-97.75	
			For >250 To 500, Deduct	-154.11	
			For >500 To 1,000, Deduct	-210.46	
			For >1,000, Deduct	-266.82	
26 56 19 00-0108			LED Roadway Lighting (General Electric) (26 56 19 00-0034)		
26 56 19 00-0109			Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) (26 56 19 00-0108) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0110	EA		2,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS1 0 AXBX 3 40 7 GRAY D) (DLC Certified).....	1,047.18	195.81
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-52.36	
			For >100 To 250, Deduct	-78.54	
			For >250 To 500, Deduct	-121.11	
			For >500 To 1,000, Deduct	-163.68	
			For >1,000, Deduct	-206.24	
26 56 19 00-0111	EA		2,600 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS1 0 2XBX 7 40 7 GRAY D) (DLC Certified).....	1,021.43	195.81
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-51.07	
			For >100 To 250, Deduct	-76.61	
			For >250 To 500, Deduct	-117.89	
			For >500 To 1,000, Deduct	-159.17	
			For >1,000, Deduct	-200.45	
26 56 19 00-0112	EA		4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS1 0 BXCX 5 40 7 GRAY D) (DLC Certified).....	1,072.94	195.81
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-53.65	
			For >100 To 250, Deduct	-80.47	
			For >250 To 500, Deduct	-124.33	
			For >500 To 1,000, Deduct	-168.18	
			For >1,000, Deduct	-212.04	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 19 00-0113	EA	6,600 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS1 0 CXBX 7 40 7 GRAY D) (DLC Certified).....	1,248.53		195.81
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-62.43		
		For >100 To 250, Deduct	-93.64		
		For >250 To 500, Deduct	-146.28		
		For >500 To 1,000, Deduct	-198.91		
		For >1,000, Deduct	-251.55		
26 56 19 00-0114	EA	10,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS2 0 HXCX 5 40 7 GRAY D) (DLC Certified).....	1,508.42		195.81
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-75.42		
		For >100 To 250, Deduct	-113.13		
		For >250 To 500, Deduct	-178.76		
		For >500 To 1,000, Deduct	-244.39		
		For >1,000, Deduct	-310.02		
26 56 19 00-0115	EA	13,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS2 0 HXCX 7 40 7 GRAY D) (DLC Certified).....	1,508.42		195.81
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-75.42		
		For >100 To 250, Deduct	-113.13		
		For >250 To 500, Deduct	-178.76		
		For >500 To 1,000, Deduct	-244.39		
		For >1,000, Deduct	-310.02		
26 56 19 00-0116	EA	20,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS4 0 TXCX 5 40 7 GRAY D) (DLC Certified).....	2,615.85		195.81
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-130.79		
		For >100 To 250, Deduct	-196.19		
		For >250 To 500, Deduct	-317.19		
		For >500 To 1,000, Deduct	-438.19		
		For >1,000, Deduct	-559.19		
26 56 19 00-0117	EA	2,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERX1 0 2XBX 7 40 7 GRAY D) (DLC Certified).....	880.95		195.81
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-44.05		
		For >100 To 250, Deduct	-66.07		
		For >250 To 500, Deduct	-100.33		
		For >500 To 1,000, Deduct	-134.59		
		For >1,000, Deduct	-168.84		
26 56 19 00-0118	EA	4,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERX1 0 AXCX 7 40 7 GRAY D) (DLC Certified).....	932.46		195.81
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-46.62		
		For >100 To 250, Deduct	-69.93		
		For >250 To 500, Deduct	-106.77		
		For >500 To 1,000, Deduct	-143.60		
		For >1,000, Deduct	-180.43		
26 56 19 00-0119	EA	7,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS1 0 BXBX 1 40 7 GRAY D) (DLC Certified).....	1,084.64		195.81
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-54.23		
		For >100 To 250, Deduct	-81.35		
		For >250 To 500, Deduct	-125.79		
		For >500 To 1,000, Deduct	-170.23		
		For >1,000, Deduct	-214.67		
26 56 19 00-0120	EA	11,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS2 0 DXCX 1 40 7 GRAY D) (DLC Certified).....	1,379.64		195.81
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-68.98		
		For >100 To 250, Deduct	-103.47		
		For >250 To 500, Deduct	-162.66		
		For >500 To 1,000, Deduct	-221.86		
		For >1,000, Deduct	-281.05		
26 56 19 00-0121	EA	13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS2 0 EXCX 1 40 7 GRAY D) (DLC Certified).....	1,417.10		195.81
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-70.86		
		For >100 To 250, Deduct	-106.28		
		For >250 To 500, Deduct	-167.35		
		For >500 To 1,000, Deduct	-228.41		
		For >1,000, Deduct	-289.48		
26 56 19 00-0122	EA	2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY).....	660.44		166.44
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-33.02		
		For >100 To 250, Deduct	-49.53		
		For >250 To 500, Deduct	-74.23		
		For >500 To 1,000, Deduct	-98.93		
		For >1,000, Deduct	-123.63		



		Electrical	26	26
		Lighting	26 50	
		Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0123	EA		3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY).....	664.96	168.69
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-33.25	
			For >100 To 250, Deduct	-49.87	
			For >250 To 500, Deduct	-74.69	
			For >500 To 1,000, Deduct	-99.50	
			For >1,000, Deduct	-124.31	
26 56 19 00-0124	EA		4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY).....	692.89	171.33
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-34.64	
			For >100 To 250, Deduct	-51.97	
			For >250 To 500, Deduct	-78.04	
			For >500 To 1,000, Deduct	-104.12	
			For >1,000, Deduct	-130.20	
26 56 19 00-0125	EA		5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY).....	721.37	173.22
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-36.07	
			For >100 To 250, Deduct	-54.10	
			For >250 To 500, Deduct	-81.51	
			For >500 To 1,000, Deduct	-108.92	
			For >1,000, Deduct	-136.33	
26 56 19 00-0126	EA		7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY).....	796.88	176.98
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-39.84	
			For >100 To 250, Deduct	-59.77	
			For >250 To 500, Deduct	-90.76	
			For >500 To 1,000, Deduct	-121.76	
			For >1,000, Deduct	-152.75	
26 56 19 00-0127	EA		8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY).....	836.98	178.49
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-41.85	
			For >100 To 250, Deduct	-62.77	
			For >250 To 500, Deduct	-95.70	
			For >500 To 1,000, Deduct	-128.62	
			For >1,000, Deduct	-161.55	
26 56 19 00-0128	EA		9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY).....	912.29	181.12
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-45.61	
			For >100 To 250, Deduct	-68.42	
			For >250 To 500, Deduct	-104.98	
			For >500 To 1,000, Deduct	-141.54	
			For >1,000, Deduct	-178.10	
26 56 19 00-0129	EA		13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY).....	1,072.47	186.02
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-53.62	
			For >100 To 250, Deduct	-80.44	
			For >250 To 500, Deduct	-124.76	
			For >500 To 1,000, Deduct	-169.08	
			For >1,000, Deduct	-213.40	
26 56 19 00-0130	EA		19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY).....	1,256.86	195.81
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-62.84	
			For >100 To 250, Deduct	-94.26	
			For >250 To 500, Deduct	-147.32	
			For >500 To 1,000, Deduct	-200.37	
			For >1,000, Deduct	-253.42	
26 56 19 00-0131			LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0034)		
26 56 19 00-0132			Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0131)		
			Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0133	EA		4,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0)	1,018.93	171.33
			For >50 To 100, Deduct	-50.95	
			For >100 To 250, Deduct	-76.42	
			For >250 To 500, Deduct	-118.80	
			For >500 To 1,000, Deduct	-161.18	
			For >1,000, Deduct	-203.56	
26 56 19 00-0134	EA		9,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0)	1,272.52	171.33
			For >50 To 100, Deduct	-63.63	
			For >100 To 250, Deduct	-95.44	
			For >250 To 500, Deduct	-150.50	
			For >500 To 1,000, Deduct	-205.56	
			For >1,000, Deduct	-260.62	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0135	EA		12,600 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2)	1,340.62	171.33
			For >50 To 100, Deduct	-67.03	
			For >100 To 250, Deduct	-100.55	
			For >250 To 500, Deduct	-159.01	
			For >500 To 1,000, Deduct	-217.48	
			For >1,000, Deduct	-275.94	
26 56 19 00-0136	EA		4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70)	1,275.67	171.33
			For >50 To 100, Deduct	-63.78	
			For >100 To 250, Deduct	-95.68	
			For >250 To 500, Deduct	-150.89	
			For >500 To 1,000, Deduct	-206.11	
			For >1,000, Deduct	-261.33	
26 56 19 00-0137	EA		6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70)	1,584.65	176.23
			For >50 To 100, Deduct	-79.23	
			For >100 To 250, Deduct	-118.85	
			For >250 To 500, Deduct	-189.27	
			For >500 To 1,000, Deduct	-259.69	
			For >1,000, Deduct	-330.11	
26 56 19 00-0138	EA		9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70)	2,210.69	181.12
			For >50 To 100, Deduct	-110.53	
			For >100 To 250, Deduct	-165.80	
			For >250 To 500, Deduct	-267.28	
			For >500 To 1,000, Deduct	-368.76	
			For >1,000, Deduct	-470.24	
26 56 19 00-0139	EA		13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70)	2,841.09	188.28
			For >50 To 100, Deduct	-142.05	
			For >100 To 250, Deduct	-213.08	
			For >250 To 500, Deduct	-345.72	
			For >500 To 1,000, Deduct	-478.36	
			For >1,000, Deduct	-611.00	
26 56 19 00-0140	EA		17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70)	3,457.21	193.55
			For >50 To 100, Deduct	-172.86	
			For >100 To 250, Deduct	-259.29	
			For >250 To 500, Deduct	-422.47	
			For >500 To 1,000, Deduct	-585.66	
			For >1,000, Deduct	-748.84	
26 56 19 00-0141			LED Roadway Lighting (Leotek) (26 56 19 00-0034)		
26 56 19 00-0142			Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) (26 56 19 00-0141)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0143	EA		Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL)	675.79	171.33
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-33.79	
			For >100 To 250, Deduct	-50.68	
			For >250 To 500, Deduct	-75.91	
			For >500 To 1,000, Deduct	-101.13	
			For >1,000, Deduct	-126.35	
26 56 19 00-0144	EA		Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL)	690.36	173.22
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-34.52	
			For >100 To 250, Deduct	-51.78	
			For >250 To 500, Deduct	-77.63	
			For >500 To 1,000, Deduct	-103.49	
			For >1,000, Deduct	-129.35	
26 56 19 00-0145	EA		Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL)	735.89	174.34
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-36.79	
			For >100 To 250, Deduct	-55.19	
			For >250 To 500, Deduct	-83.27	
			For >500 To 1,000, Deduct	-111.35	
			For >1,000, Deduct	-139.42	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
26 56 19 00-0146	EA	Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL).....		853.26	181.12
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-42.66	
		For >100 To 250, Deduct		-63.99	
		For >250 To 500, Deduct		-97.60	
		For >500 To 1,000, Deduct		-131.21	
		For >1,000, Deduct		-164.82	
26 56 19 00-0147	EA	Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL).....		997.18	186.02
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-49.86	
		For >100 To 250, Deduct		-74.79	
		For >250 To 500, Deduct		-115.35	
		For >500 To 1,000, Deduct		-155.90	
		For >1,000, Deduct		-196.46	
26 56 19 00-0148	EA	Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL).....		1,003.20	189.03
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-50.16	
		For >100 To 250, Deduct		-75.24	
		For >250 To 500, Deduct		-115.95	
		For >500 To 1,000, Deduct		-156.66	
		For >1,000, Deduct		-197.37	
26 56 19 00-0149	EA	Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL).....		1,227.70	192.05
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-61.39	
		For >100 To 250, Deduct		-92.08	
		For >250 To 500, Deduct		-143.86	
		For >500 To 1,000, Deduct		-195.64	
		For >1,000, Deduct		-247.43	
26 56 19 00-0150	EA	Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL).....		1,287.15	195.81
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-64.36	
		For >100 To 250, Deduct		-96.54	
		For >250 To 500, Deduct		-151.10	
		For >500 To 1,000, Deduct		-205.67	
		For >1,000, Deduct		-260.24	
26 56 19 00-0151	EA	Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL).....		1,435.93	198.83
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-71.80	
		For >100 To 250, Deduct		-107.69	
		For >250 To 500, Deduct		-169.55	
		For >500 To 1,000, Deduct		-231.41	
		For >1,000, Deduct		-293.26	
26 56 19 00-0152	EA	Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL).....		1,539.30	201.84
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-76.97	
		For >100 To 250, Deduct		-115.45	
		For >250 To 500, Deduct		-182.32	
		For >500 To 1,000, Deduct		-249.19	
		For >1,000, Deduct		-316.07	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0153	EA		Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL).....	781.21	173.22
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-39.06	
			For >100 To 250, Deduct	-58.59	
			For >250 To 500, Deduct	-88.99	
			For >500 To 1,000, Deduct	-119.39	
			For >1,000, Deduct	-149.79	
26 56 19 00-0154	EA		Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL).....	857.31	177.74
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-42.87	
			For >100 To 250, Deduct	-64.30	
			For >250 To 500, Deduct	-98.28	
			For >500 To 1,000, Deduct	-132.26	
			For >1,000, Deduct	-166.23	
26 56 19 00-0155	EA		Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL).....	924.65	181.12
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-46.23	
			For >100 To 250, Deduct	-69.35	
			For >250 To 500, Deduct	-106.53	
			For >500 To 1,000, Deduct	-143.70	
			For >1,000, Deduct	-180.88	
26 56 19 00-0156	EA		Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL).....	982.69	185.27
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-49.13	
			For >100 To 250, Deduct	-73.70	
			For >250 To 500, Deduct	-113.57	
			For >500 To 1,000, Deduct	-153.44	
			For >1,000, Deduct	-193.32	
26 56 19 00-0157	EA		Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL).....	1,041.94	186.77
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-52.10	
			For >100 To 250, Deduct	-78.15	
			For >250 To 500, Deduct	-120.90	
			For >500 To 1,000, Deduct	-163.66	
			For >1,000, Deduct	-206.42	
26 56 19 00-0158	EA		Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL).....	1,239.36	193.55
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-61.97	
			For >100 To 250, Deduct	-92.95	
			For >250 To 500, Deduct	-145.24	
			For >500 To 1,000, Deduct	-197.53	
			For >1,000, Deduct	-249.82	
26 56 19 00-0159	EA		Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL).....	1,400.47	197.31
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-70.02	
			For >100 To 250, Deduct	-105.04	
			For >250 To 500, Deduct	-165.19	
			For >500 To 1,000, Deduct	-225.35	
			For >1,000, Deduct	-285.51	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0160	EA	Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL)	.....	1,488.51	198.07
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	55.29	
		For >50 To 100, Deduct	.....	-74.43	
		For >100 To 250, Deduct	.....	-111.64	
		For >250 To 500, Deduct	.....	-176.16	
		For >500 To 1,000, Deduct	.....	-240.68	
		For >1,000, Deduct	.....	-305.20	
26 56 19 00-0161	EA	Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL)	.....	1,573.05	200.33
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	55.29	
		For >50 To 100, Deduct	.....	-78.65	
		For >100 To 250, Deduct	.....	-117.98	
		For >250 To 500, Deduct	.....	-186.62	
		For >500 To 1,000, Deduct	.....	-255.25	
		For >1,000, Deduct	.....	-323.89	
26 56 19 00-0162	EA	Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP)	.....	838.80	189.03
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	55.29	
		For >50 To 100, Deduct	.....	-41.94	
		For >100 To 250, Deduct	.....	-62.91	
		For >250 To 500, Deduct	.....	-95.40	
		For >500 To 1,000, Deduct	.....	-127.89	
		For >1,000, Deduct	.....	-160.38	
26 56 19 00-0163	EA	Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP)	.....	907.46	190.91
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	55.29	
		For >50 To 100, Deduct	.....	-45.37	
		For >100 To 250, Deduct	.....	-68.06	
		For >250 To 500, Deduct	.....	-103.89	
		For >500 To 1,000, Deduct	.....	-139.71	
		For >1,000, Deduct	.....	-175.54	
26 56 19 00-0164	EA	Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL)	.....	646.35	172.84
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	55.29	
		For >50 To 100, Deduct	.....	-32.32	
		For >100 To 250, Deduct	.....	-48.48	
		For >250 To 500, Deduct	.....	-72.15	
		For >500 To 1,000, Deduct	.....	-95.83	
		For >1,000, Deduct	.....	-119.50	
26 56 19 00-0165	EA	Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL)	.....	658.01	174.34
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	55.29	
		For >50 To 100, Deduct	.....	-32.90	
		For >100 To 250, Deduct	.....	-49.35	
		For >250 To 500, Deduct	.....	-73.53	
		For >500 To 1,000, Deduct	.....	-97.72	
		For >1,000, Deduct	.....	-121.90	
26 56 19 00-0166	EA	Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL)	.....	714.55	177.74
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	55.29	
		For >50 To 100, Deduct	.....	-35.73	
		For >100 To 250, Deduct	.....	-53.59	
		For >250 To 500, Deduct	.....	-80.43	
		For >500 To 1,000, Deduct	.....	-107.27	
		For >1,000, Deduct	.....	-134.11	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0167	EA		Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL)	1,095.75	192.05
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-54.79	
			For >100 To 250, Deduct	-82.18	
			For >250 To 500, Deduct	-127.37	
			For >500 To 1,000, Deduct	-172.55	
			For >1,000, Deduct	-217.74	
26 56 19 00-0168	EA		Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL)	1,427.94	198.07
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-71.40	
			For >100 To 250, Deduct	-107.10	
			For >250 To 500, Deduct	-168.59	
			For >500 To 1,000, Deduct	-230.08	
			For >1,000, Deduct	-291.58	
26 56 19 00-0169	EA		Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL)	1,273.70	198.83
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-63.69	
			For >100 To 250, Deduct	-95.53	
			For >250 To 500, Deduct	-149.27	
			For >500 To 1,000, Deduct	-203.02	
			For >1,000, Deduct	-256.76	
26 56 19 00-0170	EA		Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY)	621.14	173.22
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-31.06	
			For >100 To 250, Deduct	-46.59	
			For >250 To 500, Deduct	-68.98	
			For >500 To 1,000, Deduct	-91.38	
			For >1,000, Deduct	-113.77	
26 56 19 00-0171			LED, Area Fixtures (26 56 19)		
26 56 19 00-0172			Pole Mount, LED Area Fixtures (26 56 19 00-0171)		
26 56 19 00-0173			Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) (26 56 19 00-0172)		
			Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0174	EA		20 LEDs, 49 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,515.36	128.03
			For >50 To 100, Deduct	-125.77	
			For >100 To 250, Deduct	-188.65	
			For >250 To 500, Deduct	-308.02	
			For >500 To 1,000, Deduct	-427.39	
			For >1,000, Deduct	-546.75	
26 56 19 00-0175	EA		40 LEDs, 89 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,711.17	135.56
			For >50 To 100, Deduct	-135.56	
			For >100 To 250, Deduct	-203.34	
			For >250 To 500, Deduct	-332.12	
			For >500 To 1,000, Deduct	-460.90	
			For >1,000, Deduct	-589.68	
26 56 19 00-0176	EA		80 LEDs, 188 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,922.03	150.63
			For >50 To 100, Deduct	-146.10	
			For >100 To 250, Deduct	-219.15	
			For >250 To 500, Deduct	-357.72	
			For >500 To 1,000, Deduct	-496.29	
			For >1,000, Deduct	-634.86	
26 56 19 00-0177	EA		100 LEDs, 218 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,937.10	158.15
			For >50 To 100, Deduct	-146.86	
			For >100 To 250, Deduct	-220.28	
			For >250 To 500, Deduct	-359.23	
			For >500 To 1,000, Deduct	-498.18	
			For >1,000, Deduct	-637.12	
26 56 19 00-0178			Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG) (26 56 19 00-0172)		
			Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		



Electrical			26	26
Lighting			26 50	
Exterior Lighting			26 56	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
26 56 19 00-0179	EA	40 LEDs, 47 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,232.32	135.56
		For Backlight Shielding, Add	21.99	
		For Type II Medium Optic, Add	39.96	
		For 480 Volt, Add	113.84	
		For Multi-Level Drive Currents, Add	219.88	
		For >50 To 100, Deduct	-61.62	
		For >100 To 250, Deduct	-92.42	
		For >250 To 500, Deduct	-147.26	
		For >500 To 1,000, Deduct	-202.10	
		For >1,000, Deduct	-256.94	
26 56 19 00-0180	EA	60 LEDs, 68 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,478.26	143.09
		For Backlight Shielding, Add	21.99	
		For Type II Medium Optic, Add	40.71	
		For 480 Volt, Add	113.84	
		For Multi-Level Drive Currents, Add	219.88	
		For >50 To 100, Deduct	-73.91	
		For >100 To 250, Deduct	-110.87	
		For >250 To 500, Deduct	-177.63	
		For >500 To 1,000, Deduct	-244.39	
		For >1,000, Deduct	-311.15	
26 56 19 00-0181	EA	80 LEDs, 90 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,816.86	150.63
		For Backlight Shielding, Add	21.99	
		For Type II Medium Optic, Add	41.46	
		For 480 Volt, Add	113.84	
		For Multi-Level Drive Currents, Add	219.88	
		For >50 To 100, Deduct	-90.84	
		For >100 To 250, Deduct	-136.26	
		For >250 To 500, Deduct	-219.58	
		For >500 To 1,000, Deduct	-302.89	
		For >1,000, Deduct	-386.20	
26 56 19 00-0182	EA	100 LEDs, 111 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,062.81	158.15
		For Backlight Shielding, Add	21.99	
		For Type II Medium Optic, Add	42.22	
		For 480 Volt, Add	113.84	
		For Multi-Level Drive Currents, Add	219.88	
		For >50 To 100, Deduct	-103.14	
		For >100 To 250, Deduct	-154.71	
		For >250 To 500, Deduct	-249.94	
		For >500 To 1,000, Deduct	-345.18	
		For >1,000, Deduct	-440.41	
26 56 19 00-0183	EA	120 LEDs, 132 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,308.74	165.68
		For Backlight Shielding, Add	21.99	
		For Type II Medium Optic, Add	42.97	
		For 480 Volt, Add	113.84	
		For Multi-Level Drive Currents, Add	219.88	
		For >50 To 100, Deduct	-115.44	
		For >100 To 250, Deduct	-173.16	
		For >250 To 500, Deduct	-280.31	
		For >500 To 1,000, Deduct	-387.46	
		For >1,000, Deduct	-494.61	
26 56 19 00-0184	EA	140 LEDs, 157 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,628.50	173.22
		For Backlight Shielding, Add	21.99	
		For Type II Medium Optic, Add	43.72	
		For 480 Volt, Add	113.84	
		For Multi-Level Drive Currents, Add	219.88	
		For >50 To 100, Deduct	-131.43	
		For >100 To 250, Deduct	-197.14	
		For >250 To 500, Deduct	-319.90	
		For >500 To 1,000, Deduct	-442.67	
		For >1,000, Deduct	-565.43	
26 56 19 00-0185	EA	160 LEDs, 179 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,874.44	180.75
		For Backlight Shielding, Add	21.99	
		For Type II Medium Optic, Add	44.48	
		For 480 Volt, Add	113.84	
		For Multi-Level Drive Currents, Add	219.88	
		For >50 To 100, Deduct	-143.72	
		For >100 To 250, Deduct	-215.58	
		For >250 To 500, Deduct	-350.27	
		For >500 To 1,000, Deduct	-484.95	
		For >1,000, Deduct	-619.64	

26 56 19 00-0186 Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures
(CREE® BetaLED® Edge® ARE-EHO) (26 56 19 00-0172)

Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0187	EA		120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	2,138.27	165.68
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Bird Spikes, Add	45.75	
			For 5,000K Color Temperature, Add	46.31	
			For Fuse, Add	55.57	
			For 0 To 10 Volt Dimming, Add	55.57	
			For 480 Volt, Add	83.36	
			For Multi-Level, Add	120.40	
			For 1,000mA Driver, Add	155.61	
			For >50 To 100, Deduct	-106.91	
			For >100 To 250, Deduct	-160.37	
			For >250 To 500, Deduct	-259.00	
			For >500 To 1,000, Deduct	-357.63	
			For >1,000, Deduct	-456.26	
26 56 19 00-0188	EA		240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	3,575.09	203.34
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For 5,000K Color Temperature, Add	46.31	
			For Fuse, Add	55.57	
			For 0 To 10 Volt Dimming, Add	55.57	
			For Bird Spikes, Add	67.02	
			For Multi-Level, Add	120.40	
			For 1,000mA Driver, Add	155.60	
			For 480 Volt, Add	166.71	
			For >50 To 100, Deduct	-178.75	
			For >100 To 250, Deduct	-268.13	
			For >250 To 500, Deduct	-436.72	
			For >500 To 1,000, Deduct	-605.31	
			For >1,000, Deduct	-773.89	
26 56 19 00-0189			Wall Mount, LED Area Fixtures (26 56 19 00-0171)		
26 56 19 00-0190			Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) (26 56 19 00-0189)		
			Note: UL wet listed. Includes 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0191	EA		20 LEDs, 47 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED)	1,125.44	128.03
			For >50 To 100, Deduct	-56.27	
			For >100 To 250, Deduct	-84.41	
			For >250 To 500, Deduct	-134.28	
			For >500 To 1,000, Deduct	-184.15	
			For >1,000, Deduct	-234.02	
26 56 19 00-0192	EA		30 LEDs, 71 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED)	1,155.56	143.09
			For >50 To 100, Deduct	-57.78	
			For >100 To 250, Deduct	-86.67	
			For >250 To 500, Deduct	-137.29	
			For >500 To 1,000, Deduct	-187.91	
			For >1,000, Deduct	-238.54	
26 56 19 00-0193			Surface Mount, LED Parking Structure Fixtures (26 56 19 00-0171)		
26 56 19 00-0194			Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) (26 56 19 00-0193)		
			Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0195	EA		40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,094.11	135.56
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-54.71	
			For >100 To 250, Deduct	-82.06	
			For >250 To 500, Deduct	-129.99	
			For >500 To 1,000, Deduct	-177.91	
			For >1,000, Deduct	-225.84	
26 56 19 00-0196	EA		60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,340.05	143.09
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-67.00	
			For >100 To 250, Deduct	-100.50	
			For >250 To 500, Deduct	-160.35	
			For >500 To 1,000, Deduct	-220.20	
			For >1,000, Deduct	-280.05	
26 56 19 00-0197	EA		80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,585.98	150.63
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-79.30	
			For >100 To 250, Deduct	-118.95	
			For >250 To 500, Deduct	-190.72	
			For >500 To 1,000, Deduct	-262.48	
			For >1,000, Deduct	-334.25	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0198	EA		100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,831.93	158.15
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-91.60	
			For >100 To 250, Deduct	-137.39	
			For >250 To 500, Deduct	-221.08	
			For >500 To 1,000, Deduct	-304.77	
			For >1,000, Deduct	-388.46	
26 56 19 00-0199			Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304) (26 56 19 00-0193)		
			Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0200	EA		40 LEDs, 47 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,056.42	135.56
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-52.82	
			For >100 To 250, Deduct	-79.23	
			For >250 To 500, Deduct	-125.27	
			For >500 To 1,000, Deduct	-171.32	
			For >1,000, Deduct	-217.36	
26 56 19 00-0201	EA		60 LEDs, 68 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,164.14	143.09
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-58.21	
			For >100 To 250, Deduct	-87.31	
			For >250 To 500, Deduct	-138.36	
			For >500 To 1,000, Deduct	-189.42	
			For >1,000, Deduct	-240.47	
26 56 19 00-0202			Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG) (26 56 19 00-0193)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0203	EA		3,700 Lumens, 50 Watt, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADM5MA40KUL).....	1,071.76	135.56
			For >50 To 100, Deduct	-53.59	
			For >100 To 250, Deduct	-80.38	
			For >250 To 500, Deduct	-127.19	
			For >500 To 1,000, Deduct	-174.00	
			For >1,000, Deduct	-220.81	
26 56 19 00-0204			Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG) (26 56 19 00-0171)		
			Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.		
26 56 19 00-0205	EA		70 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	2,122.42	143.09
			For >50 To 100, Deduct	-106.12	
			For >100 To 250, Deduct	-159.18	
			For >250 To 500, Deduct	-258.15	
			For >500 To 1,000, Deduct	-357.11	
			For >1,000, Deduct	-456.08	
26 56 19 00-0206	EA		110 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	2,152.55	158.15
			For >50 To 100, Deduct	-107.63	
			For >100 To 250, Deduct	-161.44	
			For >250 To 500, Deduct	-261.16	
			For >500 To 1,000, Deduct	-360.88	
			For >1,000, Deduct	-460.60	
26 56 19 00-0207			Surface Mount, LED Canopy Fixtures (26 56 19 00-0171)		
26 56 19 00-0208			Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) (26 56 19 00-0207)		
			Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0209	EA		40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG)	1,260.59	135.56
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-63.03	
			For >100 To 250, Deduct	-94.54	
			For >250 To 500, Deduct	-150.80	
			For >500 To 1,000, Deduct	-207.05	
			For >1,000, Deduct	-263.30	
26 56 19 00-0210	EA		60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG)	1,506.53	143.09
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-75.33	
			For >100 To 250, Deduct	-112.99	
			For >250 To 500, Deduct	-181.16	
			For >500 To 1,000, Deduct	-249.33	
			For >1,000, Deduct	-317.51	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0211 EA 80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,752.47	150.63
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-87.62	
For >100 To 250, Deduct	-131.44	
For >250 To 500, Deduct	-211.53	
For >500 To 1,000, Deduct	-291.62	
For >1,000, Deduct	-371.71	
26 56 19 00-0212 EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,998.41	158.15
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-99.92	
For >100 To 250, Deduct	-149.88	
For >250 To 500, Deduct	-241.89	
For >500 To 1,000, Deduct	-333.91	
For >1,000, Deduct	-425.92	
26 56 19 00-0213 EA 120 LEDs, 132 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,244.35	165.68
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-112.22	
For >100 To 250, Deduct	-168.33	
For >250 To 500, Deduct	-272.26	
For >500 To 1,000, Deduct	-376.19	
For >1,000, Deduct	-480.13	
26 56 19 00-0214 EA 140 LEDs, 157 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,582.95	173.22
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-129.15	
For >100 To 250, Deduct	-193.72	
For >250 To 500, Deduct	-314.21	
For >500 To 1,000, Deduct	-434.69	
For >1,000, Deduct	-555.18	
26 56 19 00-0215 EA 160 LEDs, 179 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,828.90	180.75
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-141.45	
For >100 To 250, Deduct	-212.17	
For >250 To 500, Deduct	-344.58	
For >500 To 1,000, Deduct	-476.98	
For >1,000, Deduct	-609.39	
26 56 19 00-0216 EA 200 LEDs, 221 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,320.77	195.81
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-166.04	
For >100 To 250, Deduct	-249.06	
For >250 To 500, Deduct	-405.31	
For >500 To 1,000, Deduct	-561.55	
For >1,000, Deduct	-717.80	
26 56 19 00-0217 EA 240 LEDs, 264 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,797.58	203.34
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-189.88	
For >100 To 250, Deduct	-284.82	
For >250 To 500, Deduct	-464.53	
For >500 To 1,000, Deduct	-644.24	
For >1,000, Deduct	-823.95	
26 56 19 00-0218 Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) (26 56 19 00-0207)		
Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0219 EA 8,000 Lumens, 82 Watt, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250)	893.35	150.63
For >50 To 100, Deduct	-44.67	
For >100 To 250, Deduct	-67.00	
For >250 To 500, Deduct	-104.14	
For >500 To 1,000, Deduct	-141.27	
For >1,000, Deduct	-178.41	
26 56 19 00-0220 Recessed Mount, LED Soffit Fixtures (26 56 19 00-0171)		
26 56 19 00-0221 Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) (26 56 19 00-0220)		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0222 EA 40 LEDs, 47 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,075.26	135.56
For >50 To 100, Deduct	-53.76	
For >100 To 250, Deduct	-80.64	
For >250 To 500, Deduct	-127.63	
For >500 To 1,000, Deduct	-174.61	
For >1,000, Deduct	-221.60	
26 56 19 00-0223 EA 60 LEDs, 68 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,182.99	143.09
For >50 To 100, Deduct	-59.15	
For >100 To 250, Deduct	-88.72	
For >250 To 500, Deduct	-140.72	
For >500 To 1,000, Deduct	-192.71	
For >1,000, Deduct	-244.71	
26 56 19 00-0224 Surface Mount, LED Area Fixtures (26 56 19 00-0171)		



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0225			Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) (26 56 19 00-0224) Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 19 00-0226	EA		50 LEDs, 59 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	754.45	135.56
			For >50 To 100, Deduct	-37.72	
			For >100 To 250, Deduct	-56.58	
			For >250 To 500, Deduct	-87.53	
			For >500 To 1,000, Deduct	-118.47	
			For >1,000, Deduct	-149.42	
26 56 19 00-0227	EA		50 LEDs, 59 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,548.60	135.56
			For >50 To 100, Deduct	-77.43	
			For >100 To 250, Deduct	-116.15	
			For >250 To 500, Deduct	-186.80	
			For >500 To 1,000, Deduct	-257.45	
			For >1,000, Deduct	-328.10	
26 56 19 00-0228	EA		68 LEDs, 79 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,289.74	150.63
			For >50 To 100, Deduct	-64.49	
			For >100 To 250, Deduct	-96.73	
			For >250 To 500, Deduct	-153.69	
			For >500 To 1,000, Deduct	-210.64	
			For >1,000, Deduct	-267.60	
26 56 19 00-0229	EA		68 LEDs, 79 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,594.77	150.63
			For >50 To 100, Deduct	-79.74	
			For >100 To 250, Deduct	-119.61	
			For >250 To 500, Deduct	-191.82	
			For >500 To 1,000, Deduct	-264.02	
			For >1,000, Deduct	-336.23	
26 56 19 00-0230			Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) (26 56 19 00-0224) Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0231	EA		13 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A)	245.55	49.51
			For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
			For >50 To 100, Deduct	-12.28	
			For >100 To 250, Deduct	-18.42	
			For >250 To 500, Deduct	-28.63	
			For >500 To 1,000, Deduct	-38.85	
			For >1,000, Deduct	-49.06	
26 56 19 00-0232	EA		20 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A)	280.13	49.51
			For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
			For >50 To 100, Deduct	-14.01	
			For >100 To 250, Deduct	-21.01	
			For >250 To 500, Deduct	-32.95	
			For >500 To 1,000, Deduct	-44.90	
			For >1,000, Deduct	-56.84	
26 56 19 00-0233	EA		30 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A)	346.00	49.51
			For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
			For >50 To 100, Deduct	-17.30	
			For >100 To 250, Deduct	-25.95	
			For >250 To 500, Deduct	-41.19	
			For >500 To 1,000, Deduct	-56.42	
			For >1,000, Deduct	-71.66	
26 56 19 00-0234			Surface Mount, LED Multi-Purpose Area Fixture (Designplan LED VIM) (26 56 19 00-0224) Note: Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and black, white or silver powder coat finish. Excludes sensors.		
26 56 19 00-0235	EA		20 Watt, Surface Mount, LED Multi-Purpose Area Fixture With Integral Battery Backup (Designplan LED VIM)	3,033.11	49.51
			For >50 To 100, Deduct	-151.66	
			For >100 To 250, Deduct	-227.48	
			For >250 To 500, Deduct	-377.08	
			For >500 To 1,000, Deduct	-526.67	
			For >1,000, Deduct	-676.26	
26 56 19 00-0236			Surface Mount, LED Facade Fixtures (26 56 19 00-0171)		
26 56 19 00-0237			Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) (26 56 19 00-0236)		
26 56 19 00-0238	EA		12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™)	807.87	57.80
			For >50 To 100, Deduct	-40.39	
			For >100 To 250, Deduct	-60.59	
			For >250 To 500, Deduct	-98.78	
			For >500 To 1,000, Deduct	-136.98	
			For >1,000, Deduct	-175.17	
26 56 19 00-0239	EA		24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™)	1,314.51	52.78
			For >50 To 100, Deduct	-65.73	
			For >100 To 250, Deduct	-98.59	
			For >250 To 500, Deduct	-162.43	
			For >500 To 1,000, Deduct	-226.27	
			For >1,000, Deduct	-290.11	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0240	EA	36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,677.85	43.98
		For >50 To 100, Deduct	-83.89	
		For >100 To 250, Deduct	-125.84	
		For >250 To 500, Deduct	-208.16	
		For >500 To 1,000, Deduct	-290.48	
		For >1,000, Deduct	-372.80	
26 56 19 00-0241	EA	48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	2,041.16	35.18
		For >50 To 100, Deduct	-102.06	
		For >100 To 250, Deduct	-153.09	
		For >250 To 500, Deduct	-253.89	
		For >500 To 1,000, Deduct	-354.69	
		For >1,000, Deduct	-455.49	
26 56 19 00-0242		Post Top, LED Area Fixtures (26 56 19 00-0171)		
26 56 19 00-0243		Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) (26 56 19 00-0242)		
		Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0244	EA	1,800 Lumens, 27 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....	2,261.76	207.10
		For >50 To 100, Deduct	-113.09	
		For >100 To 250, Deduct	-169.63	
		For >250 To 500, Deduct	-272.36	
		For >500 To 1,000, Deduct	-375.10	
		For >1,000, Deduct	-477.83	
26 56 19 00-0245	EA	3,400 Lumens, 54 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....	2,497.49	207.10
		For >50 To 100, Deduct	-124.87	
		For >100 To 250, Deduct	-187.31	
		For >250 To 500, Deduct	-301.83	
		For >500 To 1,000, Deduct	-416.35	
		For >1,000, Deduct	-530.87	
26 56 19 00-0246	EA	77 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3)	2,683.83	207.10
		For >50 To 100, Deduct	-134.19	
		For >100 To 250, Deduct	-201.29	
		For >250 To 500, Deduct	-325.12	
		For >500 To 1,000, Deduct	-448.96	
		For >1,000, Deduct	-572.80	
26 56 19 00-0247		Post Top, LED Area Fixtures (General Electric EPAS) (26 56 19 00-0242)		
		Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0248	EA	3,200 Lumens, 45 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3).....	2,666.00	207.10
		For >50 To 100, Deduct	-133.30	
		For >100 To 250, Deduct	-199.95	
		For >250 To 500, Deduct	-322.89	
		For >500 To 1,000, Deduct	-445.84	
		For >1,000, Deduct	-568.78	
26 56 19 00-0249	EA	6,515 Lumens, 80 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3).....	2,726.57	207.10
		For >50 To 100, Deduct	-136.33	
		For >100 To 250, Deduct	-204.49	
		For >250 To 500, Deduct	-330.47	
		For >500 To 1,000, Deduct	-456.44	
		For >1,000, Deduct	-562.41	
26 56 19 00-0250		Post Top, LED Area Fixtures (General Electric EPTC) (26 56 19 00-0242)		
		Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0251	EA	3,200 Lumens, 45 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3)	1,845.98	207.10
		For >50 To 100, Deduct	-92.30	
		For >100 To 250, Deduct	-138.45	
		For >250 To 500, Deduct	-220.39	
		For >500 To 1,000, Deduct	-302.34	
		For >1,000, Deduct	-384.28	
26 56 19 00-0252	EA	6,150 Lumens, 80 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3).....	1,936.62	207.10
		For >50 To 100, Deduct	-96.83	
		For >100 To 250, Deduct	-145.25	
		For >250 To 500, Deduct	-231.72	
		For >500 To 1,000, Deduct	-318.20	
		For >1,000, Deduct	-404.67	
26 56 19 00-0253		Post Top, LED Area Fixtures (General Electric EPST) (26 56 19 00-0242)		
		Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0254	EA	3,135 Lumens, 45 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3)	1,433.96	207.10
		For >50 To 100, Deduct	-71.70	
		For >100 To 250, Deduct	-107.55	
		For >250 To 500, Deduct	-168.89	
		For >500 To 1,000, Deduct	-230.23	
		For >1,000, Deduct	-291.58	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0255	EA	6,115 Lumens, 80 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	1,524.60 -76.23 -114.35 -180.22 -246.09 -311.97	207.10
26 56 19 00-0256		Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) ^(26 56 19 00-0242) Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		
26 56 19 00-0257	EA	13,800 Lumens, 130 Watt, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	2,807.79 -140.39 -210.58 -340.62 -470.65 -600.69	207.10
26 56 19 00-0258		LED Retrofit For Post Top, Traditional Area Fixtures (CREE® BetaLED® BXRA) ^(26 56 19 00-0242) Note: Includes 2,700K or 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 56 19 00-0259	EA	LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53) <i>For 0 To 10 Volt Dimming, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	799.72 55.57 -39.99 -59.98 -94.32 -128.65 -162.99	112.96
26 56 19 00-0260		LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) ^(26 56 19 00-0242) Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 56 19 00-0261	EA	LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) <i>For Backlight Control Shield, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	493.18 37.88 -24.66 -36.99 -59.24 -81.49 -103.74	24.10
26 56 19 00-0262		Surface Mount, LED Strip Fixtures (Sylvania) ^(26 56 19 00-0171)		
26 56 19 00-0263	EA	4' Long, 5,200 Lumens, 40 Watt, Vapor Tight Dimmable LED Fixture (Sylvania VAPOR1B/040UNVD840/48EC/GR/D) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	558.50 -27.93 -41.89 -68.08 -94.28 -120.48	45.99
26 56 21		HID Exterior Lighting ^(26 56)		
26 56 21 00-0001		High Mast Fixtures ^(26 56 21)		
26 56 21 00-0002		Metal Halide, High Mast Fixtures ^(26 56 21 00-0001)		
26 56 21 00-0003	EA	400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,032.10	186.32
26 56 21 00-0004	EA	400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,170.78	186.32
26 56 21 00-0005	EA	750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,154.44	212.85
26 56 21 00-0006	EA	750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,237.65	212.85
26 56 21 00-0007	EA	1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,266.98	266.06
26 56 21 00-0008	EA	1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,350.19	266.06
26 56 21 00-0009		High Pressure Sodium, High Mast Fixtures ^(26 56 21 00-0001)		
26 56 21 00-0010	EA	400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux	2,098.48	186.32
26 56 21 00-0011	EA	400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,181.69	186.32
26 56 21 00-0012	EA	600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,538.85	196.96
26 56 21 00-0013	EA	750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,601.74	212.85
26 56 21 00-0014	EA	1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,755.89	266.06
26 56 21 00-0015		HID, Pole Mounted ^(26 56 21)		
26 56 21 00-0016		Metal Halide, Pole Mounted ^(26 56 21 00-0015)		
26 56 21 00-0017	EA	175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	804.74	303.81
26 56 21 00-0018	EA	250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	907.74	329.77
26 56 21 00-0019	EA	400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,061.34	354.75



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0020	EA	1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,339.99	415.77
26 56 21 00-0021		High Pressure Sodium, Pole Mounted (26 56 21 00-0015)		
26 56 21 00-0022	EA	100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	883.03	354.75
26 56 21 00-0023	EA	150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	908.88	354.75
26 56 21 00-0024	EA	175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	950.71	354.75
26 56 21 00-0025	EA	250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,060.32	354.75
26 56 21 00-0026	EA	400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,224.07	354.75
26 56 21 00-0027	EA	1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,281.53	354.75
26 56 21 00-0028		Low Pressure Sodium, Pole Mounted (26 56 21 00-0015)		
26 56 21 00-0029	EA	135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	813.45	192.99
26 56 21 00-0030	EA	135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	868.12	283.81
26 56 21 00-0031	EA	180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	1,025.88	283.81
26 56 21 00-0032		Metal Halide, Area Fixtures (26 56 21)		
26 56 21 00-0033		Metal Halide, Pole Mount, Area Fixtures (26 56 21 00-0032) Note: Includes pulse start ballast.		
26 56 21 00-0034	EA	150 Watt, Metal Halide Area Fixture, Pole Mount	1,227.27	186.65
26 56 21 00-0035	EA	175 Watt, Metal Halide Area Fixture, Pole Mount	1,346.78	205.32
26 56 21 00-0036	EA	250 Watt, Metal Halide Area Fixture, Pole Mount	1,489.51	223.98
26 56 21 00-0037	EA	400 Watt, Metal Halide Area Fixture, Pole Mount	1,574.60	261.31
26 56 21 00-0038		High Pressure Sodium, Area Fixtures (26 56 21)		
26 56 21 00-0039		Pole Mount, High Pressure Sodium Area Fixtures (26 56 21 00-0038)		
26 56 21 00-0040	EA	100 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,019.76	149.32
26 56 21 00-0041	EA	150 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,109.11	186.65
26 56 21 00-0042	EA	250 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,202.41	223.98
26 56 21 00-0043	EA	400 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,266.93	261.31
26 56 21 00-0044		Surface Mounted, Rectangular Exterior Area Fixture (26 56 21)		
26 56 21 00-0045		Metal Halide, Surface Mounted, Rectangular Exterior Area Fixture (26 56 21 00-0044)		
26 56 21 00-0046	EA	175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	754.36	283.81
26 56 21 00-0047	EA	250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	861.53	319.28
26 56 21 00-0048	EA	400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,035.64	354.75
26 56 21 00-0049	EA	1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,316.10	415.77
26 56 21 00-0050		High Pressure Sodium, Surface Mounted, Rectangular Exterior Area Fixture (26 56 21 00-0044)		
26 56 21 00-0051	EA	70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro)	728.55	242.65
26 56 21 00-0052	EA	100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro)	792.36	258.26
26 56 21 00-0053	EA	150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro)	854.80	272.46
26 56 21 00-0054	EA	175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	883.21	283.81
26 56 21 00-0055	EA	250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	981.73	319.28
26 56 21 00-0056	EA	400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,059.44	354.75
26 56 21 00-0057	EA	1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,451.94	415.77
26 56 21 00-0058		Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 21)		
26 56 21 00-0059		High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 21 00-0058) Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0060	EA	35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	860.71	191.57
26 56 21 00-0061	EA	50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	893.01	212.85
26 56 21 00-0062	EA	70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	954.69	242.65
26 56 21 00-0063	EA	100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	981.18	258.26
26 56 21 00-0064	EA	150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,008.54	272.46
26 56 21 00-0065	EA	175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,056.69	283.81
26 56 21 00-0066	EA	250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,157.92	319.28
26 56 21 00-0067	EA	400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,405.38	354.75
26 56 21 00-0068		Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 21 00-0058) Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0069	EA	50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	947.70	212.85
26 56 21 00-0070	EA	70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,001.03	242.65



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0071 EA 100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,035.38	258.26
26 56 21 00-0072 EA 150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,079.34	272.46
26 56 21 00-0073 EA 175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,103.05	283.81
26 56 21 00-0074 EA 250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,206.63	319.28
26 56 21 00-0075 EA 400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,535.00	354.75
26 56 21 00-0076 Wall Packs (26 56 21)		
26 56 21 00-0077 Non-Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076)		
Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.		
26 56 21 00-0078 EA 13 Watt Compact Fluorescent, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	400.21	68.76
26 56 21 00-0079 EA 50 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	428.71	68.76
26 56 21 00-0080 EA 35 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	428.71	68.76
26 56 21 00-0081 EA 70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	566.84	68.76
26 56 21 00-0082 Semi-Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076)		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.		
26 56 21 00-0083 EA 42 Watt Compact Fluorescent, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	789.80	68.76
26 56 21 00-0084 EA 50 Watt Metal Halide, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	800.04	68.76
26 56 21 00-0085 EA 70 Watt Metal Halide, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	808.91	68.76
26 56 21 00-0086 EA 100 Watt Metal Halide, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	792.74	68.76
26 56 21 00-0087 EA 70 Watt High Pressure Sodium, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	726.27	68.76
26 56 21 00-0088 EA 100 Watt High Pressure Sodium, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	689.76	68.76
26 56 21 00-0089 Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076)		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.		
26 56 21 00-0090 EA 50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	831.85	68.76
26 56 21 00-0091 EA 70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	841.19	68.76
26 56 21 00-0092 EA 100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	825.05	68.76
26 56 21 00-0093 EA 70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	838.05	68.76
26 56 21 00-0094 EA 100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	838.05	68.76
26 56 21 00-0095 Non-Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 21 00-0076)		
Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.		
26 56 21 00-0096 EA 70 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	793.22	91.59
26 56 21 00-0097 EA 100 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	793.22	91.59
26 56 21 00-0098 EA 175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	743.19	91.59
26 56 21 00-0099 EA 70 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	762.36	91.59
26 56 21 00-0100 EA 100 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	762.36	91.59
26 56 21 00-0101 EA 150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	706.89	91.59
26 56 21 00-0102 Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 21 00-0076)		
Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.		
26 56 21 00-0103 EA 70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	822.86	91.59
26 56 21 00-0104 EA 100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	822.86	91.59
26 56 21 00-0105 EA 175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	822.86	91.59
26 56 21 00-0106 EA 70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	793.43	91.59
26 56 21 00-0107 EA 100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	793.43	91.59
26 56 21 00-0108 EA 150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	793.43	91.59
26 56 21 00-0109 Full Cutoff, Tempered Glass Lens, Small Wall Packs (26 56 21 00-0076)		
Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.		
26 56 21 00-0110 EA 175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack	1,062.31	91.59
26 56 21 00-0111 Cutoff, Borosilicate Glass Lens, Medium Wall Packs (26 56 21 00-0076)		
Note: Aluminum body and reflector. Lithonia TWR2.		
26 56 21 00-0112 EA 250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	999.63	113.46
Note: 9-1/4" x 17-7/8" x 9-3/8".		
26 56 21 00-0113 EA 400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	1,067.45	113.46
Note: 9-1/4" x 17-7/8" x 12-1/2".		
26 56 21 00-0114 EA 250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	1,148.31	113.46
Note: 9-1/4" x 17-7/8" x 9-3/8".		
26 56 21 00-0115 EA 400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	1,170.57	113.46
Note: 9-1/4" x 17-7/8" x 12-1/2".		
26 56 21 00-0116 Cutoff, Tempered Glass Lens, Medium Wall Packs (26 56 21 00-0076)		
Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.		
26 56 21 00-0117 EA 250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	1,086.86	113.46
26 56 21 00-0118 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	1,163.07	113.46
26 56 21 00-0119 Non-Cutoff, Polycarbonate Lens, Large Wall Packs (26 56 21 00-0076)		
Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.		
26 56 21 00-0120 EA 100 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack	1,004.43	137.53



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0121	EA	175 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack.....	923.72	137.53	
26 56 21 00-0122	EA	70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack.....	985.75	137.53	
26 56 21 00-0123	EA	100 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack.....	991.93	137.53	
26 56 21 00-0124	EA	150 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack.....	998.40	137.53	
26 56 21 00-0125		Non-Cutoff, Borosilicate Glass Lens, Large Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.			
26 56 21 00-0126	EA	175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	1,004.45	137.53	
26 56 21 00-0127	EA	250 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	1,031.38	137.53	
26 56 21 00-0128	EA	400 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	1,112.09	137.53	
26 56 21 00-0129	EA	150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	1,058.29	137.53	
26 56 21 00-0130	EA	250 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	1,085.23	137.53	
26 56 21 00-0131	EA	400 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	1,138.98	137.53	
26 56 21 00-0132		Semi-Cutoff, Induction Wall Packs (26 56 21 00-0076)			
26 56 21 00-0133		Semi-Cutoff, Induction Wall Packs (Everlast®) (26 56 21 00-0132) Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.			
26 56 21 00-0134	EA	70 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70).....	1,287.16	128.03	
26 56 21 00-0135	EA	80 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80).....	1,313.71	135.56	
26 56 21 00-0136	EA	100 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100).....	1,340.26	143.09	
26 56 21 00-0137	EA	120 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120).....	1,493.18	150.63	
26 56 21 00-0138		Non-Cutoff, Polycarbonate Lens, Small Wall Packs (26 56 21 00-0076)			
26 56 21 00-0139	EA	15 Watt, Exterior, Non-Cutoff Small Wall Pack (Sylvania 60066-SMWLPK1N/015UNV740/NC/BZ/P).....	412.77	68.76	
26 56 21 00-0140		Induction, Roadway Lighting (26 56 21)			
26 56 21 00-0141		Induction Roadway Lighting (US Lighting Tech) (26 56 21 00-0140) Note: Includes gray powder coat finish heavy-duty die cast aluminum body and flat glass lens.			
26 56 21 00-0142	EA	40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	752.69	225.94	
26 56 21 00-0143	EA	70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	826.73	233.47	
26 56 21 00-0144	EA	100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	856.86	248.52	
26 56 21 00-0145	EA	150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	886.98	263.59	
26 56 21 00-0146	EA	200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	1,037.71	271.12	
26 56 21 00-0147	EA	250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	1,057.48	278.66	
26 56 21 00-0148	EA	40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	703.14	225.94	
26 56 21 00-0149	EA	70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	784.26	233.47	
26 56 21 00-0150	EA	100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	814.39	248.52	
26 56 21 00-0151	EA	150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	844.51	263.59	
26 56 21 00-0152		Induction, Area Fixtures (26 56 21)			
26 56 21 00-0153		Post Top, Induction Area Fixtures (26 56 21 00-0152)			
26 56 21 00-0154		Post Top, Induction Area Fixtures (US Lighting Tech) (26 56 21 00-0153) Note: Includes black powder coat finish heavy-duty die cast aluminum body and no-lite lid acrylic lens.			
26 56 21 00-0155	EA	40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	840.07	207.10	
26 56 21 00-0156	EA	70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	908.49	207.10	
26 56 21 00-0157	EA	100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	908.49	207.10	
26 56 21 00-0158	EA	150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	908.49	207.10	
26 56 21 00-0159		Surface Mount, Induction Parking Structure Fixtures (26 56 21 00-0152)			
26 56 21 00-0160		Surface Mount, Induction Parking Structure Fixtures (Everlast®) (26 56 21 00-0159)			
26 56 21 00-0161	EA	40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	760.10	188.28	
26 56 21 00-0162	EA	55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	807.75	192.05	
26 56 21 00-0163	EA	70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	820.00	195.81	
26 56 21 00-0164	EA	80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	832.25	199.57	
26 56 21 00-0165	EA	100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	844.50	203.34	
26 56 21 00-0166	EA	120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	861.47	207.10	
26 56 21 00-0167	EA	70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	888.42	195.81	
26 56 21 00-0168	EA	80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	900.67	199.57	
26 56 21 00-0169	EA	100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	912.92	203.34	
26 56 21 00-0170	EA	120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	949.94	207.10	
26 56 21 00-0171		Pole Mount, Induction Area Fixtures (26 56 21 00-0152)			
26 56 21 00-0172		Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) (26 56 21 00-0171) Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.			



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	
26 56 21 00-0173	EA	70 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70)	.....	1,344.60		128.03
26 56 21 00-0174	EA	80 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80)	.....	1,382.64		135.56
26 56 21 00-0175	EA	100 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100)	.....	1,420.68		143.09

END OF SECTION 26

26	26	Electrical
	26 50	Lighting
	26 56	Exterior Lighting



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Communications		27
Common Work Results for Communications		27 05
Grounding and Bonding for Communications Systems		27 05 26

27

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

27 05 Common Work Results for Communications ⁽²⁷⁾

27 05 26 Grounding and Bonding for Communications Systems ^(27 05)

See CSI section 26 05 26 00-0000 for grounding.

27 05 26 00-0001	EA	25 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 720-00).....	1,126.13	140.76
Note: Excludes terminations.				
27 05 26 00-0002	EA	50 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 820-00).....	1,441.86	187.72
Note: Excludes terminations.				
27 05 26 00-0003	EA	100 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 630-00).....	2,281.16	281.51
Note: Excludes terminations.				
27 05 26 00-0004	EA	Lucent 3B1-EW, Gas Tube Protector Unit.....	13.61	2.07
27 05 26 00-0005	EA	44 Terminal Copper Ground Bus Bar (Siemens ECGK).....	91.51	37.19
27 05 26 00-0006	EA	2" x 1/4" x 12", G Pattern, Grounding Bus Bar.....	201.07	37.19
27 05 26 00-0007	EA	2" x 1/4" x 12", TGB Pattern, Grounding Bus Bar.....	216.36	37.19
27 05 26 00-0008	EA	4" x 1/4" x 12", TMGB Pattern, Grounding Bus Bar.....	407.29	37.19
27 05 26 00-0009	EA	#6 AWG, Cable Runway Ground Strap.....	81.05	6.88
27 05 26 00-0010	EA	1/4" Screw Size, #6 AWG Compression Lug.....	28.73	6.88
27 05 26 00-0011	EA	3/8" Screw Size, #6 AWG Compression Lug.....	30.57	6.88
27 05 26 00-0012	EA	Two Mounting Hole, Ground Terminal Block.....	33.98	6.88

27 05 29 Hangers and Supports for Communications Systems ^(27 05)

See CSI section 26 05 29 00-0000 for hangers and supports.

27 05 29 00-0001 Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29)

27 05 29 00-0002 Screw On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0003	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12).....	10.60	3.44
For >50 To 100, Deduct			-0.44	
For >100 To 250, Deduct			-0.87	
For >250 To 500, Deduct			-1.66	
For >500, Deduct			-2.44	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.82	
For Work In Restricted Working Space, Add			2.06	
For Painted Powder Coated Finish, Add			0.76	
27 05 29 00-0004	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21).....	11.18	3.44
For >50 To 100, Deduct			-0.45	
For >100 To 250, Deduct			-0.90	
For >250 To 500, Deduct			-1.70	
For >500, Deduct			-2.49	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.82	
For Work In Restricted Working Space, Add			2.06	
For Painted Powder Coated Finish, Add			2.65	
For Low Friction Xylan® Coated Finish, Add			9.44	
27 05 29 00-0005	EA	2" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32).....	12.07	3.44
For >50 To 100, Deduct			-0.47	
For >100 To 250, Deduct			-0.95	
For >250 To 500, Deduct			-1.77	
For >500, Deduct			-2.58	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.82	
For Work In Restricted Working Space, Add			2.06	
For Painted Powder Coated Finish, Add			3.25	
For Low Friction Xylan® Coated Finish, Add			11.73	
27 05 29 00-0006	EA	4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64).....	19.79	3.44
For >50 To 100, Deduct			-0.67	
For >100 To 250, Deduct			-1.33	
For >250 To 500, Deduct			-2.34	
For >500, Deduct			-3.36	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.82	
For Work In Restricted Working Space, Add			2.06	
For Painted Powder Coated Finish, Add			1.74	
For Low Friction Xylan® Coated Finish, Add			10.40	

27 05 29 00-0007 Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0008	EA		3/4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-RB)	11.96	3.44
			For >50 To 100, Deduct	-0.47	
			For >100 To 250, Deduct	-0.94	
			For >250 To 500, Deduct	-1.76	
			For >500, Deduct	-2.57	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.82	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0009	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-RB)	15.43	3.44
			For >50 To 100, Deduct	-0.56	
			For >100 To 250, Deduct	-1.12	
			For >250 To 500, Deduct	-2.02	
			For >500, Deduct	-2.92	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.82	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0010	EA		2" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-RB)	17.12	3.44
			For >50 To 100, Deduct	-0.60	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-3.09	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.82	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0011	EA		4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-RB)	23.18	3.44
			For >50 To 100, Deduct	-0.75	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-2.60	
			For >500, Deduct	-3.69	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.82	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0012			Strut Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes strut.		
27 05 29 00-0013	EA		3/4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH12-SC4)	12.60	3.44
			For >50 To 100, Deduct	-0.49	
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.81	
			For >500, Deduct	-2.64	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0014	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH21-SC4)	14.92	3.44
			For >50 To 100, Deduct	-0.55	
			For >100 To 250, Deduct	-1.09	
			For >250 To 500, Deduct	-1.98	
			For >500, Deduct	-2.87	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0015	EA		2" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-SC4)	16.12	3.44
			For >50 To 100, Deduct	-0.58	
			For >100 To 250, Deduct	-1.15	
			For >250 To 500, Deduct	-2.07	
			For >500, Deduct	-2.99	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0016	EA		4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-SC4)	21.84	3.44
			For >50 To 100, Deduct	-0.72	
			For >100 To 250, Deduct	-1.44	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.56	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0017			T-Bar Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes T-Bar.		
27 05 29 00-0018	EA		3/4" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH12-A28)	15.14	3.44
			For >50 To 100, Deduct	-0.55	
			For >100 To 250, Deduct	-1.10	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.89	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0019	EA		1-5/16" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH21-A28)	19.06	3.44
			For >50 To 100, Deduct	-0.65	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-3.28	
			For Work In Restricted Working Space, Add	2.06	



Communications			27
Common Work Results for Communications			27 05
Hangers and Supports for Communications Systems			27 05 29

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0020	EA		2" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-A28).....	20.08	3.44
			For >50 To 100, Deduct	-0.67	
			For >100 To 250, Deduct	-1.35	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-3.38	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0021			Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)		
			Note: Excludes threaded rod. See CSI section 26 05 29 00-0407 for threaded rod.		
27 05 29 00-0022	EA		3/4" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-W6).....	12.29	3.44
			For >50 To 100, Deduct	-0.48	
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.78	
			For >500, Deduct	-2.61	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0023	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-W6).....	12.82	3.44
			For >50 To 100, Deduct	-0.49	
			For >100 To 250, Deduct	-0.99	
			For >250 To 500, Deduct	-1.82	
			For >500, Deduct	-2.66	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0024	EA		2" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-W6).....	15.54	3.44
			For >50 To 100, Deduct	-0.56	
			For >100 To 250, Deduct	-1.12	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.93	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0025			Threaded Rod Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)		
			Note: Excludes threaded rod, nuts and washers. See CSI section 26 05 29 00-0407 for threaded rod, nuts and washers.		
27 05 29 00-0026	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-AB).....	15.23	3.44
			For >50 To 100, Deduct	-0.55	
			For >100 To 250, Deduct	-1.11	
			For >250 To 500, Deduct	-2.00	
			For >500, Deduct	-2.90	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0027	EA		2" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-AB).....	16.50	3.44
			For >50 To 100, Deduct	-0.58	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-2.10	
			For >500, Deduct	-3.03	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0028	EA		4" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-AB).....	22.82	3.44
			For >50 To 100, Deduct	-0.74	
			For >100 To 250, Deduct	-1.49	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.66	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0029			Beam Clamp Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)		
27 05 29 00-0030	EA		3/4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-C442A).....	15.05	3.44
			For >50 To 100, Deduct	-0.55	
			For >100 To 250, Deduct	-1.10	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.88	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0031	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-C442A).....	17.32	3.44
			For >50 To 100, Deduct	-0.61	
			For >100 To 250, Deduct	-1.21	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-3.11	
			For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0032	EA		2" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-C442A).....	18.52	3.44
			For >50 To 100, Deduct	-0.64	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-2.25	
			For >500, Deduct	-3.23	
			For Work In Restricted Working Space, Add	2.06	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0033	EA	4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-C442A).....	25.11	3.44
		For >50 To 100, Deduct	-0.80	
		For >100 To 250, Deduct	-1.60	
		For >250 To 500, Deduct	-2.74	
		For >500, Deduct	-3.89	
		For Work In Restricted Working Space, Add	2.06	
27 05 29 00-0034		Adjustable Cable Supports (Caddy® CableCat CAT425) (27 05 29)		
27 05 29 00-0035	EA	Wall Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	42.76	4.54
		For >50 To 100, Deduct	-1.41	
		For >100 To 250, Deduct	-2.83	
		For >250 To 500, Deduct	-4.93	
		For >500, Deduct	-7.03	
		For Installation On Concrete (Includes Drilling And Fastener), Add	3.54	
		For Work In Restricted Working Space, Add	4.13	
27 05 29 00-0036	EA	Threaded Rod Or Horizontal Surface Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	43.61	4.54
		For >50 To 100, Deduct	-1.43	
		For >100 To 250, Deduct	-2.87	
		For >250 To 500, Deduct	-4.99	
		For >500, Deduct	-7.11	
		For Work In Restricted Working Space, Add	4.13	
27 05 29 00-0037	EA	Up To 1/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	48.02	4.54
		For >50 To 100, Deduct	-1.54	
		For >100 To 250, Deduct	-3.09	
		For >250 To 500, Deduct	-5.32	
		For >500, Deduct	-7.55	
		For Work In Restricted Working Space, Add	4.13	
27 05 29 00-0038	EA	>1/4" To 3/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	42.62	4.54
		For >50 To 100, Deduct	-1.41	
		For >100 To 250, Deduct	-2.82	
		For >250 To 500, Deduct	-4.92	
		For >500, Deduct	-7.01	
		For Work In Restricted Working Space, Add	4.13	
27 05 29 00-0039	EA	Up To 1/2" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	44.66	4.54
		For >50 To 100, Deduct	-1.46	
		For >100 To 250, Deduct	-2.92	
		For >250 To 500, Deduct	-5.07	
		For >500, Deduct	-7.22	
		For Work In Restricted Working Space, Add	4.13	
27 05 29 00-0040	EA	>1/2" To 5/8" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	46.69	4.54
		For >50 To 100, Deduct	-1.51	
		For >100 To 250, Deduct	-3.02	
		For >250 To 500, Deduct	-5.22	
		For >500, Deduct	-7.42	
		For Work In Restricted Working Space, Add	4.13	
27 05 29 00-0041	EA	Up To 1/4" Flange, Hammer On Purlin Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	43.98	4.54
		For >50 To 100, Deduct	-1.44	
		For >100 To 250, Deduct	-2.89	
		For >250 To 500, Deduct	-5.02	
		For >500, Deduct	-7.15	
		For Work In Restricted Working Space, Add	4.13	

27 05 33 Conduits and Back Boxes for Communications Systems (27 05)

See CSI section 26 05 33 00-0000 for conduit and boxes.

27 05 36 Cable Trays for Communications Systems (27 05)

See CSI section 26 05 36 00-0000 for cable trays.

27 05 39 Surface Raceways for Communications Systems (27 05)

See CSI section 26 05 33 00-0000 for surface raceways.

27 05 43 Underground Ducts and Raceways for Communications Systems (27 05)

See CSI section 26 05 43 00-0000 for underground ducts and raceways.

27 05 46 Utility Poles for Communications Systems (27 05)

See CSI section 26 05 46 00-0000 for utility poles.

27 05 53 Identification for Communications Systems (27 05)

See CSI section 26 05 53 00-0000 for identification.

27 08 Commissioning of Communications (27)

See CSI section 01 91 13 00-0001 for commissioning.

27 10 Structured Cabling (27)



Communications		27
Structured Cabling		27 10
Identification for Communications Systems		27 05 53

27

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

Note: Includes identifying, tagging and testing.

27 11 Communications Equipment Room Fittings (27 10)**27 11 16 Communications Cabinets, Racks, Frames, and Enclosures** (27 11)

See CSI section 26 27 16 00-0000 for cabinets and enclosures.

27 11 16 00-0001	3/4" Fire Retardant Plywood Backboards (27 11 16)		
27 11 16 00-0002	EA 4' x 4' x 3/4" Fire Retardant Plywood Backboard For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	103.43 50.48	35.76
27 11 16 00-0003	EA 4' x 8' x 3/4" Fire Retardant Plywood Backboard For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	206.86 100.95	71.51
27 11 16 00-0004	Terminal Cabinets (27 11 16)		
27 11 16 00-0005	EA 12" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	421.49	103.14
27 11 16 00-0006	EA 18" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	534.35	113.46
27 11 16 00-0007	EA 24" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	614.86	130.65
27 11 16 00-0008	EA 18" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	638.27	134.09
27 11 16 00-0009	EA 24" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	783.54	137.53
27 11 16 00-0010	EA 26" x 36" x 4" Phone Terminal Cabinet With Wood Backboard	971.80	154.72
27 11 16 00-0011	EA 24" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	995.64	151.27
27 11 16 00-0012	EA 30" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,276.94	215.50
27 11 16 00-0013	EA 36" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,365.30	236.82
27 11 16 00-0014	EA 42" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,653.45	250.16
27 11 16 00-0015	EA 30" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,365.67	206.29
27 11 16 00-0016	EA 36" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,476.91	223.49
27 11 16 00-0017	EA 48" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,840.40	286.47
27 11 16 00-0018	EA 54" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	2,208.35	358.12
27 11 16 00-0019	EA 48" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	2,510.04	354.13
27 11 16 00-0020	EA 60" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	2,880.37	430.87
27 11 16 00-0021	Equipment Racks And Cable Managers (27 11 16)		
27 11 16 00-0022	Equipment Racks (27 11 16 00-0021) Note: Electronics Industries Association EIA-310-D compliant. Includes aluminum construction with clear grained aluminum or black epoxy-polyester hybrid powder coat finish.		
27 11 16 00-0023	Standard Equipment Racks (27 11 16 00-0022)		
27 11 16 00-0024	19" Width, Standard Equipment Racks (27 11 16 00-0023)		
27 11 16 00-0025	EA 84" Height, 19" Width, 3" Depth, 45U, Standard Equipment Rack (Chatsworth 55053-X03)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	630.62 9.53	220.04
27 11 16 00-0026	EA 96" Height, 19" Width, 3" Depth, 51U, Standard Equipment Rack (Chatsworth 55053-X15)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	843.57 18.80	233.80
27 11 16 00-0027	EA 108" Height, 19" Width, 3" Depth, 58U, Standard Equipment Rack (Chatsworth 55053-X08)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	909.05 20.70	247.55
27 11 16 00-0028	Universal Equipment Racks (27 11 16 00-0022)		
27 11 16 00-0029	Universal Equipment Racks (27 11 16 00-0028)		
27 11 16 00-0030	19" Width, EIA Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0031	EA 36" Height, 19" Width, 3" Depth, 17U, EIA Universal Equipment Rack (Chatsworth 46353-X31)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	779.07 19.70	192.54
27 11 16 00-0032	EA 48" Height, 19" Width, 3" Depth, 24U, EIA Universal Equipment Rack (Chatsworth 46353-X20)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	844.99 22.65	195.97
27 11 16 00-0033	EA 60" Height, 19" Width, 3" Depth, 31U, EIA Universal Equipment Rack (Chatsworth 46353-X19)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	845.51 22.33	199.41
27 11 16 00-0034	EA 66" Height, 19" Width, 3" Depth, 34U, EIA Universal Equipment Rack (Chatsworth 46353-X00)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	866.49 23.04	202.86
27 11 16 00-0035	EA 72" Height, 19" Width, 3" Depth, 38U, EIA Universal Equipment Rack (Chatsworth 46353-X01)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	887.25 23.73	206.29
27 11 16 00-0036	EA 78" Height, 19" Width, 3" Depth, 41U, EIA Universal Equipment Rack (Chatsworth 46353-X02)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	909.61 24.51	209.73
27 11 16 00-0037	EA 84" Height, 19" Width, 3" Depth, 45U, EIA Universal Equipment Rack (Chatsworth 46353-X03)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	790.20 18.19	213.17
27 11 16 00-0038	EA 90" Height, 19" Width, 3" Depth, 48U, EIA Universal Equipment Rack (Chatsworth 46353-X05)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	953.12 26.00	216.60
27 11 16 00-0039	EA 96" Height, 19" Width, 3" Depth, 51U, EIA Universal Equipment Rack (Chatsworth 46353-X15)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	985.01 27.25	220.04
27 11 16 00-0040	EA 102" Height, 19" Width, 3" Depth, 55U, EIA Universal Equipment Rack (Chatsworth 46353-X17)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	1,013.03 28.30	223.49
27 11 16 00-0041	EA 108" Height, 19" Width, 3" Depth, 58U, EIA Universal Equipment Rack (Chatsworth 46353-X08)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	1,020.97 28.36	226.92
27 11 16 00-0042	23" Width, Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0043	EA 36" Height, 23" Width, 3" Depth, 17U, Universal Equipment Rack (Chatsworth 46383-X31) For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	819.50 21.72	192.54
27 11 16 00-0044	EA 48" Height, 23" Width, 3" Depth, 24U, Universal Equipment Rack (Chatsworth 46383-X20) For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	846.49 22.73	195.97

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0045	EA	60" Height, 23" Width, 3" Depth, 31U, Universal Equipment Rack (Chatsworth 46383-X19) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	870.41 23.58	199.41
27 11 16 00-0046	EA	66" Height, 23" Width, 3" Depth, 34U, Universal Equipment Rack (Chatsworth 46383-X00) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	913.84 25.41	202.86
27 11 16 00-0047	EA	72" Height, 23" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46383-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	936.00 26.17	206.29
27 11 16 00-0048	EA	78" Height, 23" Width, 3" Depth, 41U, Universal Equipment Rack (Chatsworth 46383-X02) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	959.97 27.03	209.73
27 11 16 00-0049	EA	84" Height, 23" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46383-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	841.14 20.74	213.17
27 11 16 00-0050	EA	90" Height, 23" Width, 3" Depth, 48U, Universal Equipment Rack (Chatsworth 46383-X05) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,006.57 28.67	216.60
27 11 16 00-0051	EA	96" Height, 23" Width, 3" Depth, 51U, Universal Equipment Rack (Chatsworth 46383-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,040.99 30.05	220.04
27 11 16 00-0052	EA	102" Height, 23" Width, 3" Depth, 55U, Universal Equipment Rack (Chatsworth 46383-X17) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,071.22 31.21	223.49
27 11 16 00-0053	EA	108" Height, 23" Width, 3" Depth, 58U, Universal Equipment Rack (Chatsworth 46383-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,079.25 31.27	226.92
27 11 16 00-0054		35" Width, Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0055	EA	72" Height, 35" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46363-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,004.53 29.60	206.29
27 11 16 00-0056	EA	84" Height, 35" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46363-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,056.06 31.49	213.17
27 11 16 00-0057		UL Listed Universal Equipment Racks (27 11 16 00-0028)		
		Note: UL listed as a communications circuit accessory.		
27 11 16 00-0058		19" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0059	EA	36" Height, 19" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48353-X31) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	818.48 21.67	192.54
27 11 16 00-0060	EA	48" Height, 19" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48353-X20) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	879.47 24.38	195.97
27 11 16 00-0061	EA	60" Height, 19" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48353-X19) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	893.14 24.72	199.41
27 11 16 00-0062	EA	66" Height, 19" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48353-X00) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	912.60 25.35	202.86
27 11 16 00-0063	EA	72" Height, 19" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48353-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	934.71 26.11	206.29
27 11 16 00-0064	EA	78" Height, 19" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48353-X02) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	958.62 26.96	209.73
27 11 16 00-0065	EA	84" Height, 19" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48353-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	981.64 27.77	213.17
27 11 16 00-0066	EA	90" Height, 19" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48353-X05) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,005.14 28.60	216.60
27 11 16 00-0067	EA	96" Height, 19" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48353-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,039.52 29.97	220.04
27 11 16 00-0068	EA	102" Height, 19" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48353-X17) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,069.67 31.14	223.49
27 11 16 00-0069	EA	108" Height, 19" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48353-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,077.64 31.19	226.92
27 11 16 00-0070		23" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0071	EA	36" Height, 23" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48383-X31) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	862.99 23.90	192.54
27 11 16 00-0072	EA	48" Height, 23" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48383-X20) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	939.84 27.39	195.97
27 11 16 00-0073	EA	60" Height, 23" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48383-X19) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	952.23 27.67	199.41
27 11 16 00-0074	EA	66" Height, 23" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48383-X00) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	964.64 27.95	202.86
27 11 16 00-0075	EA	72" Height, 23" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48383-X01) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	988.33 28.79	206.29
27 11 16 00-0076	EA	78" Height, 23" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48383-X02) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,014.03 29.73	209.73
27 11 16 00-0077	EA	84" Height, 23" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48383-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,038.68 30.62	213.17
27 11 16 00-0078	EA	90" Height, 23" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48383-X05) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,063.89 31.53	216.60
27 11 16 00-0079	EA	96" Height, 23" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48383-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,101.06 33.05	220.04
27 11 16 00-0080	EA	102" Height, 23" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48383-X17) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,133.65 34.33	223.49
27 11 16 00-0081	EA	108" Height, 23" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48383-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,141.88 34.40	226.92
27 11 16 00-0082		4-Post Equipment Racks And Server Frames (27 11 16 00-0022)		
27 11 16 00-0083		4-Post Equipment Racks (27 11 16 00-0082)		



Communications			27
Structured Cabling			27 10
Communications Equipment Room Fittings			27 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0084 EA 19" Width, 29" Depth, 84" Height, 4-Post Equipment Rack (Chatsworth 50120-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,634.50 47.34	343.82
27 11 16 00-0085 EA 19" Width, 29" Depth, 96" Height, 4-Post Equipment Rack (Chatsworth 50120-X15) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,776.91 53.09	357.57
27 11 16 00-0086 EA 19" Width, 29" Depth, 108" Height, 4-Post Equipment Rack (Chatsworth 50120-X08) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,911.60 58.45	371.32
27 11 16 00-0087 4-Post Server Frame (27 11 16 00-0082)		
27 11 16 00-0088 EA 19" Width, 29" Depth, 84" Height, Server Frame (Chatsworth 15053-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,676.14 49.43	343.82
27 11 16 00-0089 Cable Managers (27 11 16 00-0021)		
27 11 16 00-0090 Horizontal Cable Managers (27 11 16 00-0089)		
27 11 16 00-0091 Single-Sided, Horizontal Cable Managers (27 11 16 00-0090)		
27 11 16 00-0092 EA 1U Height, 19" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-719)	91.94	13.76
27 11 16 00-0093 EA 1U Height, 23" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-723)	101.71	13.76
27 11 16 00-0094 EA 1U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-701)	77.73	13.76
27 11 16 00-0095 EA 2U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-719)	93.41	13.76
27 11 16 00-0096 EA 2U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-723)	108.54	13.76
27 11 16 00-0097 EA 2U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-702)	85.45	13.76
27 11 16 00-0098 EA 3U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-719)	123.90	13.76
27 11 16 00-0099 EA 3U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-723)	140.22	13.76
27 11 16 00-0100 EA 3U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-703)	100.91	13.76
27 11 16 00-0101 Double-Sided, Horizontal Cable Managers (27 11 16 00-0090)		
27 11 16 00-0102 EA 1U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-719)	112.77	13.76
27 11 16 00-0103 EA 1U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-723)	125.66	13.76
27 11 16 00-0104 EA 2U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-719)	118.35	13.76
27 11 16 00-0105 EA 2U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-723)	136.80	13.76
27 11 16 00-0106 EA 3U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-719)	151.43	13.76
27 11 16 00-0107 EA 3U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-723)	168.87	13.76
27 11 16 00-0108 Vertical Cable Managers (27 11 16 00-0089)		
27 11 16 00-0109 Single-Sided, Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0110 EA 3.6" Width, 9.7" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-701)	201.60	20.63
27 11 16 00-0111 EA 6" Width, 9.8" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-701)	280.80	20.63
27 11 16 00-0112 EA 10" Width, 10.3" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-701)	446.93	20.63
27 11 16 00-0113 EA 12" Width, 10.4" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-701)	504.89	20.63
27 11 16 00-0114 EA 3.6" Width, 9.7" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-703)	215.12	20.63
27 11 16 00-0115 EA 6" Width, 9.8" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-703)	302.05	20.63
27 11 16 00-0116 EA 10" Width, 10.3" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-703)	485.57	20.63
27 11 16 00-0117 EA 12" Width, 10.4" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-703)	543.52	20.63
27 11 16 00-0118 EA 3.6" Width, 9.7" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-715)	242.16	20.63
27 11 16 00-0119 EA 6" Width, 9.8" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-715)	331.03	20.63
27 11 16 00-0120 EA 10" Width, 10.3" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-715)	543.52	20.63
27 11 16 00-0121 EA 12" Width, 10.4" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-715)	601.48	20.63
27 11 16 00-0122 Double-Sided, Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0123 EA 3.6" Width, 16.4" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-701)	288.53	20.63
27 11 16 00-0124 EA 6" Width, 16.6" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-701)	338.75	20.63
27 11 16 00-0125 EA 10" Width, 17.5" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-701)	543.52	20.63
27 11 16 00-0126 EA 12" Width, 17.8" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-701)	640.11	20.63
27 11 16 00-0127 EA 3.6" Width, 16.4" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-703)	311.71	20.63
27 11 16 00-0128 EA 6" Width, 16.6" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-703)	361.94	20.63
27 11 16 00-0129 EA 10" Width, 17.5" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-703)	582.16	20.63
27 11 16 00-0130 EA 12" Width, 17.8" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-703)	678.75	20.63
27 11 16 00-0131 EA 3.6" Width, 16.4" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-715)	342.62	20.63
27 11 16 00-0132 EA 6" Width, 16.6" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-715)	392.84	20.63
27 11 16 00-0133 EA 10" Width, 17.5" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-715)	640.11	20.63
27 11 16 00-0134 EA 12" Width, 17.8" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-715)	736.70	20.63
27 11 16 00-0135 Accessories For Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0136 EA Cable Ring Kit For 3.6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-716)	124.09	13.76
27 11 16 00-0137 EA Cable Ring Kit For 3.6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-717)	131.82	13.76
27 11 16 00-0138 EA Cable Ring Kit For 3.6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-718)	139.54	13.76
27 11 16 00-0139 EA Cable Ring Kit For 6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-726)	127.95	13.76
27 11 16 00-0140 EA Cable Ring Kit For 6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-727)	139.54	13.76
27 11 16 00-0141 EA Cable Ring Kit For 6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-728)	151.13	13.76
27 11 16 00-0142 EA Cable Ring Kit For 10" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-746)	143.41	13.76
27 11 16 00-0143 EA Cable Ring Kit For 10" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-747)	155.00	13.76
27 11 16 00-0144 EA Cable Ring Kit For 10" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-748)	166.59	13.76
27 11 16 00-0145 EA Cable Ring Kit For 12" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-756)	151.13	13.76

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0146 EA Cable Ring Kit For 12" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-757)	166.59	13.76
27 11 16 00-0147 EA Cable Ring Kit For 12" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-758)	178.18	13.76
27 11 16 00-0148 EA Cable Lashing Bar Kit For Vertical Cable Managers (Chatsworth 13928-001)	104.77	13.76
27 11 16 00-0149 EA Cable Spool Kit For Vertical Cable Managers (Chatsworth 13935-701)	120.23	13.76
27 11 16 00-0150 EA Cable Distribution Spools For Vertical Cable Managers (Chatsworth 15008-001).....	125.44	13.76
27 11 16 00-0151 EA Cable Distribution Spool Spacer Kit For Vertical Cable Managers (Chatsworth 35505-001).....	81.59	13.76
27 11 16 00-0152 Cisco Switch Catalyst WS (27 11 16)		
27 11 16 00-0153 EA 10-Slot, Switch Chassis WS 4510R+E	15,997.61	
27 11 16 00-0154 EA Supervisor Engine WS-X45-SUP8-E	30,552.28	
27 11 16 00-0155 EA Service Module WS-X4748-RJ45-E	10,882.33	
Note: CATALYST 4500 E-SERIES 48-PORT 10/100/1000 NON-BLOCKING		
27 11 16 00-0156 EA SFP Line Card WS-X4712-SFP-E	9,326.95	
Note: CATALYST 4500 E-SERIES 12-PORT 10GBE (SFP+)		
27 11 16 00-0157 EA Power Supply PWR-45-1400A.....	2,357.75	
27 11 16 00-0158 EA Single Mode SFP Module GLC-LH-SMD	1,721.80	
Note: 1000BASE-LX/LH SFP TRANSCEIVER MODULE, MMF/SMF, 1310NM, DOM		
27 11 19 Communications Termination Blocks and Patch Panels (27 11)		
Note: The terminating, testing, and labeling of the cables in question should be done according to the task description as well as the current contract specifications. See CSI section 26 05 53 00-0020 for labeling.		
27 11 19 00-0001 Computer Network Components (27 11 19)		
27 11 19 00-0002 Ethernet Patch Panels (27 11 19 00-0001)		
27 11 19 00-0003 EA 12 Port, Category 5E Patch Panel	263.01	68.76
27 11 19 00-0004 EA 24 Port, Category 5E Patch Panel	370.07	68.76
27 11 19 00-0005 EA 32 Port, Category 5E Patch Panel	471.37	68.76
27 11 19 00-0006 EA 48 Port, Category 5E Patch Panel	565.77	68.76
27 11 19 00-0007 EA 64 Port, Category 5E Patch Panel	881.02	85.96
27 11 19 00-0008 EA 96 Port, Category 5E Patch Panel	1,030.53	103.14
27 11 19 00-0009 EA 12 Port, Category 6 Patch Panel	346.12	68.76
27 11 19 00-0010 EA 24 Port, Category 6 Patch Panel	376.97	68.76
27 11 19 00-0011 EA 48 Port, Category 6 Patch Panel	616.42	68.76
27 11 19 00-0012 EA 96 Port, Category 6 Patch Panel	1,127.23	103.14
27 11 19 00-0013 EA 16" x 12" x 8" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161208LP)	830.01	103.14
27 11 19 00-0014 EA 16" x 16" x 6" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161606LP)	873.40	103.14
27 11 19 00-0015 EA 12 Port, Category 6 Modular to 110 Mini Patch Panel (Ortronics-Legrand OR-PMP61289).....	297.33	68.76
27 11 19 00-0016 EA Terminate One End Of A 4 Pair Cable To Category "X" Specifications	48.72	
For >5 To 10 Cables, Deduct		-8.77
For >10 Cables, Deduct		-19.49
27 11 19 00-0017 EA Terminate One End Of A Twisted Pair Of Wires	13.40	
Note: Per each pair		
For >20 To 40 Pairs, Deduct		-2.14
For >40 Pairs, Deduct		-5.09
27 11 19 00-0018 Fiber Optic Cable Patch Panels And Enclosures (27 11 19 00-0001)		
27 11 19 00-0019 Fiber Optic Cable Connector Housings (27 11 19 00-0018)		
27 11 19 00-0020 Wall Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0021 EA 1-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	144.13	30.94
27 11 19 00-0022 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	208.14	30.94
27 11 19 00-0023 EA 4-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	302.84	30.94
27 11 19 00-0024 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	449.55	51.57
27 11 19 00-0025 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	618.15	51.57
27 11 19 00-0026 Rack Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0027 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	475.43	51.57
27 11 19 00-0028 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	531.11	51.57
27 11 19 00-0029 EA 6-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	570.43	51.57
27 11 19 00-0030 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	665.44	51.57
27 11 19 00-0031 Rack Mount, Fiber Optic Cable Pretium® Connector Housings (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0032 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	577.00	51.57
For Splice Tray Bracket, Add		84.85
27 11 19 00-0033 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	672.62	51.57
For Splice Tray Bracket, Add		92.78
27 11 19 00-0034 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	833.77	51.57
For Splice Tray Bracket, Add		338.02



Communications			27
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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
27 11 19 00-0035	Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housings (27 11 19 00-0019) Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.				
27 11 19 00-0036	EA 8 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	993.21		51.57	
27 11 19 00-0037	EA 12 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	1,274.50		51.57	
27 11 19 00-0038	EA 24 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	1,445.01		51.57	
27 11 19 00-0039	EA 48 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	1,879.89		51.57	
27 11 19 00-0040	Wall Mount, Fiber Optic Cable Industrial Connector Housings (27 11 19 00-0019) Note: Includes powder-coat finish, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.				
27 11 19 00-0041	EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	643.46		30.94	
27 11 19 00-0042	EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	893.36		51.57	
27 11 19 00-0043	EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	936.53		51.57	
27 11 19 00-0044	Wall Mount, Fiber Optic Cable Environmental Connector Housings (27 11 19 00-0019) Note: Includes NEMA 4X enclosure, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.				
27 11 19 00-0045	EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	673.29		30.94	
27 11 19 00-0046	EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	892.83		51.57	
27 11 19 00-0047	EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	1,045.57		51.57	
27 11 19 00-0048	Fiber Optic Cable Connector Panels (27 11 19 00-0018)				
27 11 19 00-0049	SC Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)				
27 11 19 00-0050	EA 6-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	89.55		6.87	
27 11 19 00-0051	EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	96.96		6.87	
27 11 19 00-0052	EA 8-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	108.46		6.87	
27 11 19 00-0053	EA 8-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	118.34		6.87	
27 11 19 00-0054	EA 12-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	146.32		6.87	
27 11 19 00-0055	EA 12-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	161.09		6.87	
27 11 19 00-0056	SC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)				
27 11 19 00-0057	EA 6-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	86.28		6.87	
27 11 19 00-0058	EA 6-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	88.02		6.87	
27 11 19 00-0059	EA 8-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	104.12		6.87	
27 11 19 00-0060	EA 8-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	106.44		6.87	
27 11 19 00-0061	EA 12-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	139.80		6.87	
27 11 19 00-0062	EA 12-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	143.24		6.87	
27 11 19 00-0063	LC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)				
27 11 19 00-0064	EA 6-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	126.68		6.87	
27 11 19 00-0065	EA 6-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	139.12		6.87	
27 11 19 00-0066	EA 8-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	155.25		6.87	
27 11 19 00-0067	EA 8-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	171.86		6.87	
27 11 19 00-0068	EA 12-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	153.14		6.87	
27 11 19 00-0069	EA 12-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	170.58		6.87	
27 11 19 00-0070	EA 16-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	269.66		6.87	
27 11 19 00-0071	EA 16-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	302.81		6.87	
27 11 19 00-0072	EA 24-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	384.02		6.87	
27 11 19 00-0073	EA 24-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	281.57		6.87	
27 11 19 00-0074	ST Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)				
27 11 19 00-0075	EA 6-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	74.88		6.87	
27 11 19 00-0076	EA 6-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	80.49		6.87	
27 11 19 00-0077	EA 8-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	88.91		6.87	
27 11 19 00-0078	EA 8-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	96.39		6.87	
27 11 19 00-0079	EA 12-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	116.95		6.87	
27 11 19 00-0080	EA 12-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	128.18		6.87	
27 11 19 00-0081	MT-RJ, Fiber Optic Cable Connector Panels (27 11 19 00-0048)				
27 11 19 00-0082	EA 12-Fiber, Multimode, MT-RJ, Fiber Optic Cable Connector Panel.....	92.44		6.87	
27 11 19 00-0083	EA 12-Fiber, Singlemode, MT-RJ, Fiber Optic Cable Connector Panel.....	137.01		6.87	
27 11 19 00-0084	Fiber Optic Cable Pretium Edge® Modules (27 11 19 00-0048)				
27 11 19 00-0085	EA 12-Fiber, Singlemode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	1,101.16		6.87	
27 11 19 00-0086	EA 12-Fiber, Multimode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	1,104.99		6.87	
27 11 19 00-0087	Fiber Optic Cable Splice Housings (27 11 19 00-0018)				

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0088		Wall Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087) Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0089	EA	12 Splice Tray Capacity, Wall Mount, Fiber Optic Splice Housing With Locking Door.....	420.82	68.76
27 11 19 00-0090		Rack Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087) Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0091	EA	12 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	626.35	51.57
27 11 19 00-0092	EA	22 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	655.76	51.57
27 11 19 00-0093		Fiber Optic Cable Splice Trays (27 11 19 00-0087)		
27 11 19 00-0094	EA	Fiber Optic Cable Splice Tray	121.07	17.19
27 11 19 00-0095		Fiber Optic Cable Jumper Management Panels (27 11 19 00-0018) Note: Includes mounting hardware.		
27 11 19 00-0096	EA	Rack Mount, Fiber Optic Cable Jumper Management Panel	229.79	51.57
27 11 19 00-0097		Miscellaneous Accessories (27 11 19 00-0001)		
27 11 19 00-0098	EA	Wall Mount Bracket For 12 Or 24 Port Patch Panel.....	68.06	
27 11 19 00-0099	EA	Wall Mount Bracket For 32 Or 48 Port Patch Panel.....	89.55	
27 11 19 00-0100	EA	Wall Mount Bracket For 64 Or 72 Port Patch Panel.....	98.53	
27 11 19 00-0101	EA	Wall Mount Bracket For 96 Port Patch Panel.....	110.14	
27 11 19 00-0102	EA	Lightning Protection Plus Stainless Steel Modules, Siemon	568.08	68.76
27 11 19 00-0103		Telephone Components (27 11 19)		
27 11 19 00-0104		Terminal Blocks With Wide Range Of 22-8 AWG (27 11 19 00-0103)		
27 11 19 00-0105	EA	Terminal Block, Circuit Isolation Switch With Wire Range 22-8 AWG	40.06	13.78
27 11 19 00-0106	EA	Terminal Block, Fuse Holder 600 Volt, 6.3 Amperes With Wire Range 22-8 AWG.....	75.39	13.78
27 11 19 00-0107	EA	Terminal Block, Fuse Holder 600 Volt, 10 Amperes With Wire Range 22-8 AWG.....	60.93	13.78
27 11 19 00-0108	EA	Terminal Block, Solderless Box With Lugs And Wire Range 22-8 AWG.....	31.05	13.78
27 11 19 00-0109	EA	Flat Terminal Block Connection With Wire Range 22-8 AWG	22.02	9.64
27 11 19 00-0110	EA	Ground Terminal Block With Wire Range 22-8 AWG	41.59	13.78
27 11 19 00-0111	EA	Terminal Block, Solderless Box With Lug 600 Volt, 60 Amperes With Wire Range 22-8 AWG	31.05	13.78
27 11 19 00-0112	EA	Terminal Block, Mini Box Lug 300 Volt, 30 Amperes With Wire Range 22-8 AWG	21.80	9.64
27 11 19 00-0113	EA	Flat Terminal Block Connection 300 Volt, 20 Amperes With Wire Range 22-8 AWG	21.64	9.64
27 11 19 00-0114	EA	Self Lifting Terminal Block, 300 Volt, 40 Amperes, Wire Connection With Wire Range 22-12 AWG	22.34	9.64
27 11 19 00-0115		Terminal Block Mounting Channel (27 11 19 00-0103)		
27 11 19 00-0116	EA	Terminal Block Mounting Channel, .5 M Galvanized Steel	21.15	6.88
27 11 19 00-0117	EA	Terminal Block Mounting Channel, 1 M Galvanized Steel	27.13	6.88
27 11 19 00-0118	EA	Terminal Block Mounting Channel, 2 M Galvanized Steel	37.64	6.88
27 11 19 00-0119	EA	Terminal Block Mounting Channel, .5 M Bi-Chrome Zinc	27.00	8.27
27 11 19 00-0120	EA	Terminal Block Mounting Channel, 1 M Bi-Chrome Zinc	36.94	8.27
27 11 19 00-0121	EA	Terminal Block Mounting Channel, 2 M Bi-Chrome Zinc	53.31	8.27
27 11 19 00-0122		Outlet Termination Hardware (27 11 19 00-0103)		
27 11 19 00-0123	EA	Telephone Outlet Blocks.....	40.30	6.88
27 11 19 00-0124	EA	Phone Outlet Block For Floor Box	115.20	52.26
		Note: Excludes box.		
27 11 19 00-0125	EA	Fiber Optic "SC" Type Modular Bulkhead	100.19	30.94
27 11 19 00-0126	EA	Fiber Optic "ST" Type Modular Bulkhead	100.19	30.94
27 11 19 00-0127	EA	Type "F" Coaxial Connector Male.....	58.81	20.63
27 11 19 00-0128	EA	Modular Plate For 3-RJ-45, 4 - "SC" And 1 -"F" Connector	150.14	34.38
27 11 19 00-0129	EA	Modular Plate For 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	150.14	34.38
27 11 19 00-0130	EA	Access Floor Box With 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	180.46	34.38
27 11 19 00-0131	EA	Access Floor Box With 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	180.46	34.38
27 11 19 00-0132	EA	Access Floor Box With 2-RJ-45, 4 - "SC" And 1 -25 Pin Connector	164.50	34.38
27 11 19 00-0133	EA	Terminal Type - Punch Down Block 110 Type - 300 Pair Category 5	1,416.14	171.90
27 11 19 00-0134	EA	Wiring (Punch Down) Block with Stand-Off Legs, 100 Pair, Category V	70.44	13.76
		Note: Excludes cable terminations.		
27 11 19 00-0135	EA	5-Pair, Connecting Block	4.24	1.37
27 11 19 00-0136	EA	4-Pair, Connecting Block	4.58	1.37
27 11 19 00-0137	EA	Plastic Label Holder, Transparent.....	17.23	3.44
27 11 19 00-0138	EA	Marked Label, White, 5-Pair	4.70	
27 11 19 00-0139	EA	Marked Label, Blue, 4-Pair	4.70	
27 11 19 00-0140		Terminations in Manhole or Junction Box (27 11 19 00-0103)		
27 11 19 00-0141	EA	25 Pair Cable Termination In Manhole Or Junction Box	220.04	
27 11 19 00-0142	EA	50 Pair Cable Termination In Manhole Or Junction Box	440.09	
27 11 19 00-0143	EA	100 Pair Cable Termination In Manhole Or Junction Box	880.16	
27 11 19 00-0144	EA	150 Pair Cable Termination In Manhole Or Junction Box	1,320.25	
27 11 19 00-0145	EA	200 Pair Cable Termination In Manhole Or Junction Box	1,544.42	



Communications			27
Structured Cabling			27 10
Communications Equipment Room Fittings			27 11

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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
27 11 19 00-0146	EA	300 Pair Cable Termination In Manhole Or Junction Box	2,315.94	
27 11 19 00-0147	EA	400 Pair Cable Termination In Manhole Or Junction Box	2,912.80	
27 11 19 00-0148	EA	500 Pair Cable Termination In Manhole Or Junction Box	3,641.69	
27 11 19 00-0149	EA	750 Pair Cable Termination In Manhole Or Junction Box	5,462.51	
27 11 19 00-0150	EA	1,000 Pair Cable Termination In Manhole Or Junction Box	6,624.59	
27 11 19 00-0151	EA	1,200 Pair Cable Termination In Manhole Or Junction Box	7,550.26	
27 11 23 Communications Cable Management and Ladder Rack (27 11)				
27 11 23 00-0001 Equipment Supports (27 11 23)				
27 11 23 00-0002	EA	12" x 5'-11" Tubular Runway	135.14	33.00
27 11 23 00-0003	EA	12" x 9'-11" Tubular Runway	233.00	55.01
27 11 23 00-0004	EA	Shelf Bracket Support For Tubular Runway	42.80	10.31
27 11 23 00-0005	EA	Straight Clamp Hardware For Tubular Runway	18.34	6.87
27 11 23 00-0006	EA	Corner Clamp Hardware For Tubular Runway	19.48	6.87
27 11 23 00-0007	EA	90 Degree Edge Clamp Hardware For Tubular Runway	44.65	12.37
27 11 23 00-0008	EA	Wall Angle Assembly Hardware For 12" Wide Tubular Runway	95.00	20.63
27 11 23 00-0009	EA	J-Bolt Hardware For Tubular Runway	8.65	3.03
27 11 23 00-0010	EA	T Bracket Hardware For Tubular Runway	48.81	17.19
27 11 23 00-0011	EA	Black Neoprene Protective Cover For Cable Tray Stringers (Cooper B-Line SB21B)	71.91	3.44
27 11 23 00-0012	EA	3" Channel Rack-To-Cable Tray Mounting Plate For 9" To 12" Wide Cable Tray (Chatsworth 10595-712)	138.65	34.43
27 11 23 00-0013	EA	19" Wide, 11.73" Deep, Double Sided, Horizontal Wire Manager (Chatsworth 30530-719)	180.02	13.78
27 11 23 00-0014	EA	7" High, 10" Wide, 16.15" Deep, Double Sided, Vertical Wire Manager (Chatsworth 30096-703)	1,637.73	20.66
27 11 23 00-0015	EA	7" High, 10" Wide, 8.08" Deep, Vertical Wire Manager (Chatsworth 30093-703)	1,153.62	20.66
27 11 23 00-0016	EA	7" High, 19" Wide, 45U Standard EIA Rack (Chatsworth 55053-703)	486.61	137.73
27 11 23 00-0017	EA	Rack Base Dust Cover For 19" Wide, 3" Deep Two Post Racks (Chatsworth 41050-719)	69.88	1.37
27 11 23 00-0018	EA	Environmental Enclosure, NEMA 4x SS, 6' Free Standing	32,187.06	1,083.67
27 11 23 00-0019	EA	DVR Enclosure	2,279.05	270.89
27 11 23 00-0020	EA	Wall Mount Type 4X Enclosure 24.00x30.00x8.00 Stainless Steel Type 316	8,383.94	541.79
27 11 23 00-0021	EA	Panel, NEMA 12/27.00x21.00	613.20	135.45
27 11 23 00-0022	EA	Panel, NEMA 12/8.75x6.88	168.79	135.45
27 11 23 00-0023	EA	Clamp Assembly, Fast Opening, Stainless Steel Type 304	222.15	135.45
27 11 23 00-0024	EA	Wall-Mount Type 4x Enclosure 24.00x30.00x8.00 Stainless Steel Type 316	7,435.81	135.45
27 11 23 00-0025	EA	110 Jumper Trough (Commscope 107831133)	37.61	6.87
27 11 23 00-0026	EA	2" J-Hook, Cable Or Rod Attachment (Cooper B-Line BCH32-W6)	15.50	3.44
27 11 23 00-0027	EA	4" J-Hook, Screw Attachment (Cooper B-Line BCH64)	19.70	3.44
27 11 23 00-0028	EA	Stringer Multi-Function Clip (Cooper B-Line BW6S)	8.72	3.44
27 11 23 00-0029	LF	Velcro CMP	3.37	1.37
27 13 Communications Backbone Cabling (27 10)				
27 13 13 Communications Copper Backbone Cabling (27 13)				
27 13 13 13 Communications Copper Cable Splicing and Terminations (27 13 13)				
27 13 13 13-0001 Building Entrance Terminals (27 13 13 13)				
27 13 13 13-0002	EA	25 Pair Gas Protective Unit Assembly Complete With Gas Protector	3,020.98	301.57
27 13 13 13-0003	EA	50 Pair Gas Protective Unit Assembly Complete With Gas Protector	4,014.41	502.61
27 13 13 13-0004	EA	100 Pair Gas Protective Unit Assembly Complete With Gas Protector	5,666.37	804.82
27 13 13 13-0005 Modular Plugs For Copper Communications Cable (27 13 13 13)				
27 13 13 13-0006	EA	Modular Plug For Non Shielded Copper Communications Cable	34.01	
Note: Up to 8-position/8-contact non-shielded modular plug for solid or stranded wire. Includes termination.				
For >5 To 10, Deduct			-4.12	
For >10, Deduct			-8.24	
27 13 13 13-0007	EA	Modular Plug For Shielded Copper Communications Cable	38.84	
Note: Up to 8-position/8-contact shielded modular plug for solid or stranded wire. Includes termination.				
For >5 To 10, Deduct			-4.63	
For >10, Deduct			-9.26	
27 13 13 13-0008 Testing And Certification Of Copper Communications Cable (27 13 13 13)				
Note: Use for existing systems.				
27 13 13 13-0009	EA	Test 1-Pair Of A Copper Communications Cable For Continuity	6.87	
For >25-Pair, Deduct			-2.74	
27 13 13 13-0010	EA	Certify 1-Pair Of A Copper Communications Cable	10.31	
For >25-Pair, Deduct			-4.12	
27 13 13 13-0011	EA	Certify And Document 1-Pair Of A Copper Communications Cable	16.50	
For >25-Pair, Deduct			-6.59	
27 13 13 13-0012	EA	Test 4-Pair Category 5-7 Telecommunications Cable For Continuity	27.50	
For >25-Pair, Deduct			-10.98	
27 13 13 13-0013	EA	Certify 4-Pair Category 5-7 Telecommunications Cable	41.26	
For >25-Pair, Deduct			-16.47	
27 13 13 13-0014	EA	Certify And Document 4-Pair Category 5-7 Telecommunications Cable	66.01	
For >25-Pair, Deduct			-26.35	
27 13 13 13-0015 Communications Termination Blocks (27 13 13 13)				
27 13 13 13-0016	EA	100-Pair, 110 Block With Legs	67.28	17.19

27 Communications**27 10 Structured Cabling****27 13 Communications Backbone Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 13 13 13-0017 EA 300-Pair, 110 Block With Legs.....	115.13	17.19
27 13 13 13-0018 EA Clear Label Holder For 110 Wiring Block.....	14.69	6.87
27 13 13 13-0019 EA 4-Pair, 110C Connecting Block.....	8.32	3.44
27 13 13 13-0020 EA 5-Pair, 110C Connecting Block.....	8.49	3.44
27 13 13 13-0021 EA 100-Pair, 110 Jack Panel System.....	370.96	20.63
Note: Includes twelve 8-pin modular jacks and mounting legs.		
27 13 13 13-0022 EA 300-Pair, 110 Jack Panel System.....	591.13	20.63
Note: Includes twelve 8-pin modular jacks and mounting legs.		

27 13 23 Communications Optical Fiber Backbone Cabling (27 13)**27 13 23 13 Communications Optical Fiber Splicing and Terminations (27 13 23)****27 13 23 13-0001 Fiber Optic Cable Connectors (27 13 23 13)**

27 13 23 13-0002 EA ST Connector For Multimode Fiber Optic Cable.....	40.42	
27 13 23 13-0003 EA ST Connector For Singlemode Fiber Optic Cable.....	46.84	
27 13 23 13-0004 EA SC Connector For Multimode Fiber Optic Cable.....	45.17	
27 13 23 13-0005 EA SC Connector For Singlemode Fiber Optic Cable.....	53.37	
27 13 23 13-0006 EA LC Connector For Multimode Fiber Optic Cable.....	61.91	
27 13 23 13-0007 EA LC Connector For Singlemode Fiber Optic Cable.....	63.82	
27 13 23 13-0008 EA MT-RJ Connector For Multimode Fiber Optic Cable.....	93.41	

27 13 23 13-0009 Fiber Optic Cable Fan Out Kits (27 13 23 13)**27 13 23 13-0010 Buffer Tube Fan Out Kits For Fiber Optic Cable (27 13 23 13-0009)**

27 13 23 13-0011 EA 6-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	296.72	
27 13 23 13-0012 EA 12-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	300.86	
27 13 23 13-0013 EA 6-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	335.80	
27 13 23 13-0014 EA 12-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	362.00	

27 13 23 13-0015 Spider Fan Out Kits For Fiber Optic Cable (27 13 23 13-0009)

Note: For tight buffered or loose tube non-armored cables. Includes aramid yarn strength member, outer protective PVDF jacket and one meter fan out lengths.

27 13 23 13-0016 EA 6-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	347.69	
27 13 23 13-0017 EA 12-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	375.45	
27 13 23 13-0018 EA 18-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	549.28	
27 13 23 13-0019 EA 24-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	714.56	

27 13 23 13-0020 Fiber Optic Cable Splice Closures (27 13 23 13)

Note: Includes mounting hardware. Excludes splicing and splice trays.

27 13 23 13-0021 EA Up To 144-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	1,055.23	137.53
27 13 23 13-0022 EA Up To 144-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	1,330.27	275.06
27 13 23 13-0023 EA Up To 144-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,330.27	275.06
27 13 23 13-0024 EA Up To 288-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	1,761.15	137.53
27 13 23 13-0025 EA Up To 288-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	2,036.19	275.06
27 13 23 13-0026 EA Up To 288-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	2,036.19	275.06
27 13 23 13-0027 EA Splice Tray For Fiber Optic Cable Splice Closure.....	73.71	17.19

Note: Up to 12-fiber, mechanical or fusion splice tray. Excludes splice.

27 13 23 13-0028 Fiber Optic Cable Testing (27 13 23 13)

Note: Price based on testing one wavelength.

27 13 23 13-0029 Fiber Optic Cable Testing Using An OTDR (27 13 23 13-0028)

Note: Testing using an optical time domain reflectometer.

27 13 23 13-0030 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test.....	27.50	
For >12 To 48 Strands, Deduct	-2.06	
For >48 Strands, Deduct	-2.75	
27 13 23 13-0031 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test.....	41.26	
For >12 To 48 Strands, Deduct	-3.09	
For >48 Strands, Deduct	-4.13	
27 13 23 13-0032 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test With Documentation.....	68.76	
For >12 To 48 Strands, Deduct	-5.16	
For >48 Strands, Deduct	-6.88	
27 13 23 13-0033 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test With Documentation.....	103.14	
For >12 To 48 Strands, Deduct	-7.74	
For >48 Strands, Deduct	-10.31	

27 13 23 13-0034 Fiber Optic Cable Testing Using A Power Meter (27 13 23 13-0028)

27 13 23 13-0035 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional Power Meter Test.....	27.50	
For >12 To 48 Strands, Deduct	-2.06	
For >48 Strands, Deduct	-2.75	
27 13 23 13-0036 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional Power Meter Test.....	41.26	
For >12 To 48 Strands, Deduct	-3.09	
For >48 Strands, Deduct	-4.13	

27 13 23 13-0037 Fiber Optic Cable Light Source/Continuity Testing (27 13 23 13-0028)



Communications			27
Structured Cabling			27 10
Communications Backbone Cabling			27 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 13 23 13-0038 EA Test 1-Strand Of Fiber Optic Cable Using A Light Source/Continuity Test..... <i>For >12 To 48 Strands, Deduct</i> <i>For >48 Strands, Deduct</i>	27.50 -2.06 -2.75	
27 13 23 13-0039 Fiber Optic Cable Splicing (27 13 23 13)		
27 13 23 13-0040 EA Single Strand, Fusion Splice Of Fiber Optic Cable.....	41.26	
27 13 23 13-0041 EA 12-Strand Ribbon, Fusion Splice Of Fiber Optic Cable.....	137.53	
27 13 23 13-0042 Other Fiber Optic Cable Splicing (27 13 23 13)		
27 13 23 13-0043 EA Fiber Optic Finger Splice	51.56	25.85
27 13 23 13-0044 EA Fiber Optic Splice Box - Manholes.....	9,536.84	

27 15 Communications Horizontal Cabling (27 10)

27 15 01 Communications Horizontal Cabling Applications (27 15)

27 15 01 13 Video Surveillance Communications Conductors and Cables (27 15 01)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables.

27 15 01 15 Access Control Communications Conductors and Cables (27 15 01)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables.

27 15 01 16 Voice Communications Horizontal Cabling (27 15 01)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables.

27 15 01 17 Intrusion Detection Communications Conductors and Cables (27 15 01)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables, 27 15 01 19-0000 for Type FPLP Cable.

27 15 01 19 Fire Alarm Communications Conductors and Cables (27 15 01)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 01 19-0001 Fire Alarm/Life Safety Cable (27 15 01 19)

27 15 01 19-0002 Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable (27 15 01 19-0001)

27 15 01 19-0003 Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit (27 15 01 19-0002)

27 15 01 19-0004 MLF 1-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,134.33	935.73
27 15 01 19-0005 MLF 2-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,571.84	969.56
27 15 01 19-0006 MLF 1-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,432.81	1,063.63
27 15 01 19-0007 MLF 2-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,125.87	1,101.59
27 15 01 19-0008 MLF 1-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,786.47	1,190.70
27 15 01 19-0009 MLF 2-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,770.53	1,233.61
27 15 01 19-0010 MLF 1-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,524.67	1,361.51
27 15 01 19-0011 MLF 2-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	5,048.68	1,410.06

27 15 01 19-0012 Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed (27 15 01 19-0002)

27 15 01 19-0013 MLF 1-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,693.88	1,871.74
27 15 01 19-0014 MLF 2-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,187.78	1,939.13
27 15 01 19-0015 MLF 1-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,205.53	2,127.53
27 15 01 19-0016 MLF 2-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,961.84	2,203.17
27 15 01 19-0017 MLF 1-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,770.97	2,381.96

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 01 19-0018	MLF	2-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	5,826.55	2,467.23
27 15 01 19-0019	MLF	1-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	5,793.85	2,723.02
27 15 01 19-0020	MLF	2-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	7,399.01	2,820.67
27 15 01 19-0021 Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit ^(27 15 01 19-0001)				
27 15 01 19-0022	MLF	2 Conductors, #22 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,401.27	765.75
27 15 01 19-0023	MLF	4 Conductors, #22 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,505.72	792.97
27 15 01 19-0024	MLF	2 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,705.86	935.73
27 15 01 19-0025	MLF	3 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,807.06	952.65
27 15 01 19-0026	MLF	4 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,870.08	969.56
27 15 01 19-0027	MLF	6 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,068.13	1,003.39
27 15 01 19-0028	MLF	8 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,348.28	1,037.22
27 15 01 19-0029	MLF	2 Conductors, #16 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,982.50	1,063.63
27 15 01 19-0030	MLF	4 Conductors, #16 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,203.67	1,101.59
27 15 01 19-0031	MLF	2 Conductors, #14 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,285.18	1,190.70
27 15 01 19-0032	MLF	4 Conductors, #14 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,626.16	1,233.61
27 15 01 19-0033	MLF	2 Conductors, #12 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,763.78	1,361.51
27 15 01 19-0034	MLF	4 Conductors, #12 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	3,308.08	1,410.06
27 15 01 19-0035 Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable ^(27 15 01 19-0001)				
27 15 01 19-0036 Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit ^(27 15 01 19-0035)				
27 15 01 19-0037	MLF	2 Conductors, #22 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,391.43	765.75
27 15 01 19-0038	MLF	2 Conductors, #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,699.47	935.73
27 15 01 19-0039	MLF	3 Conductors, #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,868.84	952.65
27 15 01 19-0040	MLF	4 Conductors, #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,887.19	969.56
27 15 01 19-0041	MLF	6 Conductors, #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,157.41	1,003.39
27 15 01 19-0042	MLF	2 Conductors, #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,972.84	1,063.63
27 15 01 19-0043	MLF	4 Conductors, #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,225.35	1,101.59
27 15 01 19-0044	MLF	2 Conductors, #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,241.70	1,190.70
27 15 01 19-0045	MLF	4 Conductors, #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,798.96	1,233.61
27 15 01 19-0046	MLF	2 Conductors, #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,749.57	1,361.51
27 15 01 19-0047	MLF	4 Conductors, #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	3,570.40	1,410.06
27 15 01 19-0048 Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed ^(27 15 01 19-0035)				
27 15 01 19-0049	MLF	2 Conductors, #22 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	2,667.67	1,532.04
27 15 01 19-0050	MLF	2 Conductors, #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,259.02	1,871.74
27 15 01 19-0051	MLF	3 Conductors, #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,455.90	1,904.74
27 15 01 19-0052	MLF	4 Conductors, #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,503.13	1,939.13
27 15 01 19-0053	MLF	6 Conductors, #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,829.74	2,006.51
27 15 01 19-0054	MLF	2 Conductors, #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,745.56	2,127.53
27 15 01 19-0055	MLF	4 Conductors, #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,061.32	2,203.17



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 01 19-0056 MLF 2 Conductors, #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,226.20	2,381.96
27 15 01 19-0057 MLF 4 Conductors, #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,854.98	2,467.23
27 15 01 19-0058 MLF 2 Conductors, #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,018.75	2,723.02
27 15 01 19-0059 MLF 4 Conductors, #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,920.73	2,820.67
27 15 01 19-0060 Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable (27 15 01 19-0001)		
27 15 01 19-0061 Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit (27 15 01 19-0060)		
27 15 01 19-0062 MLF 2 Conductors, #22 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,431.94	765.75
27 15 01 19-0063 MLF 2 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,728.39	935.73
27 15 01 19-0064 MLF 3 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,976.21	952.65
27 15 01 19-0065 MLF 4 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,916.79	969.56
27 15 01 19-0066 MLF 6 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,187.68	1,003.39
27 15 01 19-0067 MLF 2 Conductors, #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,039.32	1,063.63
27 15 01 19-0068 MLF 4 Conductors, #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,256.10	1,101.59
27 15 01 19-0069 MLF 2 Conductors, #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,385.08	1,190.70
27 15 01 19-0070 MLF 4 Conductors, #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,727.06	1,233.61
27 15 01 19-0071 MLF 2 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,855.67	1,361.51
27 15 01 19-0072 MLF 4 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,352.12	1,410.06
27 15 01 19-0073 Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed (27 15 01 19-0060)		
27 15 01 19-0074 MLF 2 Conductors, #22 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	2,708.18	1,532.04
27 15 01 19-0075 MLF 2 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,287.94	1,871.74
27 15 01 19-0076 MLF 3 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,563.27	1,904.74
27 15 01 19-0077 MLF 4 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,532.73	1,939.13
27 15 01 19-0078 MLF 6 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,860.01	2,006.51
27 15 01 19-0079 MLF 2 Conductors, #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,812.04	2,127.53
27 15 01 19-0080 MLF 4 Conductors, #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,092.07	2,203.17
27 15 01 19-0081 MLF 2 Conductors, #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,369.58	2,381.96
27 15 01 19-0082 MLF 4 Conductors, #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,783.08	2,467.23
27 15 01 19-0083 MLF 2 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,124.85	2,723.02
27 15 01 19-0084 MLF 4 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,702.45	2,820.67
27 15 01 19-0085 Non-Shielded, Riser Rated, FPLR (Red), Fire Alarm/Life Safety Cable (27 15 01 19-0001)		
27 15 01 19-0086 Non-Shielded, Riser Rated, FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit (27 15 01 19-0085)		
27 15 01 19-0087 MLF 2 Conductors, #22 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,401.18	765.75
27 15 01 19-0088 MLF 2 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,757.13	935.73
27 15 01 19-0089 MLF 3 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,883.22	952.65
27 15 01 19-0090 MLF 4 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,989.69	969.56
27 15 01 19-0091 MLF 6 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,222.24	1,003.39
27 15 01 19-0092 MLF 2 Conductors, #16 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,023.28	1,063.63

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 01 19-0093	MLF	4 Conductors, #16 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,339.23	1,101.59
27 15 01 19-0094	MLF	2 Conductors, #14 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,356.33	1,190.70
27 15 01 19-0095	MLF	4 Conductors, #14 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,918.10	1,233.61
27 15 01 19-0096	MLF	2 Conductors, #12 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,817.18	1,361.51
27 15 01 19-0097 Non-Shielded, Riser Rated, FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed (27 15 01 19-0085)				
27 15 01 19-0098	MLF	2 Conductors, #22 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	2,677.42	1,532.04
27 15 01 19-0099	MLF	2 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,316.68	1,871.74
27 15 01 19-0100	MLF	3 Conductors, #18 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,470.28	1,904.74
27 15 01 19-0101	MLF	4 Conductors, #18 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,605.63	1,939.13
27 15 01 19-0102	MLF	6 Conductors, #18 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,894.57	2,006.51
27 15 01 19-0103	MLF	2 Conductors, #16 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,796.00	2,127.53
27 15 01 19-0104	MLF	4 Conductors, #16 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,175.20	2,203.17
27 15 01 19-0105	MLF	2 Conductors, #14 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,340.83	2,381.96
27 15 01 19-0106	MLF	4 Conductors, #14 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,974.12	2,467.23
27 15 01 19-0107	MLF	2 Conductors, #12 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,086.36	2,723.02
27 15 13 Communications Copper Horizontal Cabling (27 15)				
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.				
27 15 13 00-0001 Solid Conductor Low Voltage Cable (27 15 13)				
27 15 13 00-0002 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)				
27 15 13 00-0003 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)				
27 15 13 00-0004	MLF	1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,358.54	1,243.98
		For #10 AWG, Add	508.77	
		For Work In Restricted Working Space, Add	622.04	
27 15 13 00-0005	MLF	2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,673.28	1,287.96
		For #10 AWG, Add	603.04	
		For Work In Restricted Working Space, Add	644.17	
27 15 13 00-0006	MLF	3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,954.24	1,333.19
		For #10 AWG, Add	686.12	
		For Work In Restricted Working Space, Add	666.41	
27 15 13 00-0007	MLF	4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,250.82	1,378.43
		For #10 AWG, Add	774.02	
		For Work In Restricted Working Space, Add	689.42	
27 15 13 00-0008	MLF	5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,612.66	1,471.42
		For #10 AWG, Add	873.28	
		For Work In Restricted Working Space, Add	735.93	
27 15 13 00-0009	MLF	6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,948.90	1,563.15
		For #10 AWG, Add	964.37	
		For Work In Restricted Working Space, Add	781.78	
27 15 13 00-0010	MLF	8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,328.88	1,749.11
		For #10 AWG, Add	1,049.63	
		For Work In Restricted Working Space, Add	874.39	
27 15 13 00-0011	MLF	12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,727.85	2,305.77
		For #10 AWG, Add	1,390.70	
		For Work In Restricted Working Space, Add	1,152.66	
27 15 13 00-0012	MLF	24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,502.43	3,405.25
		For #10 AWG, Add	2,068.19	
		For Work In Restricted Working Space, Add	1,702.19	



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0013 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-0014 MLF 1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,085.57	1,088.18
For Work In Restricted Working Space, Add	543.96	
27 15 13 00-0015 MLF 2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,381.14	1,127.12
For Work In Restricted Working Space, Add	563.56	
27 15 13 00-0016 MLF 3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,644.12	1,166.08
For Work In Restricted Working Space, Add	583.16	
27 15 13 00-0017 MLF 4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,920.79	1,206.29
For Work In Restricted Working Space, Add	603.14	
27 15 13 00-0018 MLF 5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,254.11	1,287.96
For Work In Restricted Working Space, Add	643.85	
27 15 13 00-0019 MLF 6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,562.56	1,368.38
For Work In Restricted Working Space, Add	683.81	
27 15 13 00-0020 MLF 8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,902.05	1,530.48
For Work In Restricted Working Space, Add	765.24	
27 15 13 00-0021 MLF 12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,162.94	2,016.76
For Work In Restricted Working Space, Add	1,008.38	
27 15 13 00-0022 MLF 24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,668.40	2,979.28
For Work In Restricted Working Space, Add	1,489.76	
27 15 13 00-0023 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-0024 MLF 1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,859.53	971.31
For Work In Restricted Working Space, Add	485.90	
27 15 13 00-0025 MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,062.36	1,006.49
For Work In Restricted Working Space, Add	503.25	
27 15 13 00-0026 MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,351.93	1,041.68
For Work In Restricted Working Space, Add	520.59	
27 15 13 00-0027 MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,597.23	1,076.86
For Work In Restricted Working Space, Add	538.68	
27 15 13 00-0028 MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,891.88	1,149.74
For Work In Restricted Working Space, Add	574.87	
27 15 13 00-0029 MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,165.59	1,221.36
For Work In Restricted Working Space, Add	610.69	
27 15 13 00-0030 MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,316.18	1,294.25
For Work In Restricted Working Space, Add	646.87	
27 15 13 00-0031 MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,468.04	1,367.13
For Work In Restricted Working Space, Add	683.44	
27 15 13 00-0032 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,810.87	1,453.82
For Work In Restricted Working Space, Add	726.79	
27 15 13 00-0033 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,587.82	1,800.63
For Work In Restricted Working Space, Add	900.38	
27 15 13 00-0034 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,813.57	2,660.11
For Work In Restricted Working Space, Add	1,330.12	
27 15 13 00-0035 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-0036 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,594.28	855.71
For Work In Restricted Working Space, Add	427.48	
27 15 13 00-0037 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,788.96	885.86
For Work In Restricted Working Space, Add	442.93	
27 15 13 00-0038 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,963.36	916.02
For Work In Restricted Working Space, Add	458.39	
27 15 13 00-0039 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,145.51	947.44
For Work In Restricted Working Space, Add	473.85	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
27 15 13 00-0040	MLF	5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,375.17		1,011.52
		<i>For Work In Restricted Working Space, Add</i>	505.88		
27 15 13 00-0041	MLF	6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,589.70		1,074.34
		<i>For Work In Restricted Working Space, Add</i>	537.55		
27 15 13 00-0042	MLF	8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,844.39		1,202.52
		<i>For Work In Restricted Working Space, Add</i>	601.26		
27 15 13 00-0043	MLF	12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,761.52		1,584.51
		<i>For Work In Restricted Working Space, Add</i>	792.38		
27 15 13 00-0044	MLF	24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,581.95		2,340.95
		<i>For Work In Restricted Working Space, Add</i>	1,170.47		
27 15 13 00-0045 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)					
27 15 13 00-0046	MLF	1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,425.65		777.80
		<i>For Work In Restricted Working Space, Add</i>	388.65		
27 15 13 00-0047	MLF	2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,582.87		805.45
		<i>For Work In Restricted Working Space, Add</i>	402.60		
27 15 13 00-0048	MLF	3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,723.09		833.72
		<i>For Work In Restricted Working Space, Add</i>	416.55		
27 15 13 00-0049	MLF	4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,870.00		861.99
		<i>For Work In Restricted Working Space, Add</i>	430.87		
27 15 13 00-0050	MLF	5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,061.76		919.80
		<i>For Work In Restricted Working Space, Add</i>	459.71		
27 15 13 00-0051	MLF	6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,241.62		977.60
		<i>For Work In Restricted Working Space, Add</i>	488.54		
27 15 13 00-0052	MLF	8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,477.07		1,093.20
		<i>For Work In Restricted Working Space, Add</i>	546.60		
27 15 13 00-0053	MLF	12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,262.16		1,441.27
		<i>For Work In Restricted Working Space, Add</i>	720.38		
27 15 13 00-0054	MLF	24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,838.57		2,128.59
		<i>For Work In Restricted Working Space, Add</i>	1,064.17		
27 15 13 00-0055	MLF	25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,068.50		2,178.86
		<i>For Work In Restricted Working Space, Add</i>	1,089.43		
27 15 13 00-0056	MLF	36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,989.22		2,536.97
		<i>For Work In Restricted Working Space, Add</i>	1,268.49		
27 15 13 00-0057	MLF	40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,420.58		2,715.40
		<i>For Work In Restricted Working Space, Add</i>	1,357.82		
27 15 13 00-0058	MLF	50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,801.19		3,393.94
		<i>For Work In Restricted Working Space, Add</i>	1,696.71		
27 15 13 00-0059	MLF	100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	10,482.35		4,468.29
		<i>For Work In Restricted Working Space, Add</i>	2,233.88		
27 15 13 00-0060 #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)					
27 15 13 00-0061	MLF	1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,234.16		699.90
		<i>For Work In Restricted Working Space, Add</i>	349.82		
27 15 13 00-0062	MLF	2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,300.71		725.03
		<i>For Work In Restricted Working Space, Add</i>	362.26		
27 15 13 00-0063	MLF	3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,378.08		750.16
		<i>For Work In Restricted Working Space, Add</i>	375.08		
27 15 13 00-0064	MLF	4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,460.20		775.30
		<i>For Work In Restricted Working Space, Add</i>	387.89		
27 15 13 00-0065	MLF	5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,594.21		828.06
		<i>For Work In Restricted Working Space, Add</i>	413.91		
27 15 13 00-0066	MLF	6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,727.25		877.07
		<i>For Work In Restricted Working Space, Add</i>	438.79		



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0067		Triad ^(27 15 13 00-0002)		
27 15 13 00-0068	MLF	1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit	3,267.26	1,041.68
27 15 13 00-0069	MLF	4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	4,243.50	1,441.27
27 15 13 00-0070	MLF	8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	6,649.95	2,128.59
27 15 13 00-0071	MLF	12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	8,300.63	2,536.97
27 15 13 00-0072	MLF	24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	13,628.47	3,930.49
27 15 13 00-0073	MLF	36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	15,687.88	4,468.29
27 15 13 00-0074		Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ^(27 15 13 00-0001)		
27 15 13 00-0075		#12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ^(27 15 13 00-0004)		
27 15 13 00-0076	MLF	1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,432.02	2,487.97
		For #10 AWG, Add	923.46	
		For Work In Restricted Working Space, Add	1,244.09	
27 15 13 00-0077	MLF	2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,820.52	2,575.93
		For #10 AWG, Add	1,032.49	
		For Work In Restricted Working Space, Add	1,288.34	
27 15 13 00-0078	MLF	3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,175.61	2,666.40
		For #10 AWG, Add	1,130.40	
		For Work In Restricted Working Space, Add	1,332.82	
27 15 13 00-0079	MLF	4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,548.92	2,756.87
		For #10 AWG, Add	1,233.64	
		For Work In Restricted Working Space, Add	1,378.85	
27 15 13 00-0080	MLF	5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,065.74	2,942.84
		For #10 AWG, Add	1,363.89	
		For Work In Restricted Working Space, Add	1,471.85	
27 15 13 00-0081	MLF	6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,554.84	3,126.30
		For #10 AWG, Add	1,485.56	
		For Work In Restricted Working Space, Add	1,563.56	
27 15 13 00-0082	MLF	8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,243.52	3,498.23
		For #10 AWG, Add	1,632.56	
		For Work In Restricted Working Space, Add	1,748.78	
27 15 13 00-0083	MLF	12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	9,570.05	4,611.53
		For #10 AWG, Add	2,159.14	
		For Work In Restricted Working Space, Add	2,305.32	
27 15 13 00-0084	MLF	24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	14,176.38	6,810.49
		For #10 AWG, Add	3,202.98	
		For Work In Restricted Working Space, Add	3,404.37	
27 15 13 00-0085		#14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed ^(27 15 13 00-0004)		
27 15 13 00-0086	MLF	1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,898.77	2,176.34
		For Work In Restricted Working Space, Add	1,087.92	
27 15 13 00-0087	MLF	2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,259.69	2,254.25
		For Work In Restricted Working Space, Add	1,127.12	
27 15 13 00-0088	MLF	3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,588.00	2,332.15
		For Work In Restricted Working Space, Add	1,166.33	
27 15 13 00-0089	MLF	4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,931.27	2,412.57
		For Work In Restricted Working Space, Add	1,206.29	
27 15 13 00-0090	MLF	5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,400.30	2,575.93
		For Work In Restricted Working Space, Add	1,287.71	
27 15 13 00-0091	MLF	6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,841.94	2,736.76
		For Work In Restricted Working Space, Add	1,367.63	
27 15 13 00-0092	MLF	8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,452.85	3,060.95
		For Work In Restricted Working Space, Add	1,530.48	
27 15 13 00-0093	MLF	12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,524.19	4,033.52
		For Work In Restricted Working Space, Add	2,016.75	
27 15 13 00-0094	MLF	24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	12,634.28	5,958.56
		For Work In Restricted Working Space, Add	2,979.53	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0095	#16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)				
27 15 13 00-0096	MLF 1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		3,479.23	1,942.63	
	For Work In Restricted Working Space, Add		971.81		
27 15 13 00-0097	MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		3,739.86	2,013.00	
	For Work In Restricted Working Space, Add		1,006.50		
27 15 13 00-0098	MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		4,087.23	2,083.36	
	For Work In Restricted Working Space, Add		1,041.18		
27 15 13 00-0099	MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		4,392.84	2,153.72	
	For Work In Restricted Working Space, Add		1,077.37		
27 15 13 00-0100	MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		4,808.12	2,299.49	
	For Work In Restricted Working Space, Add		1,149.74		
27 15 13 00-0101	MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		5,201.19	2,442.73	
	For Work In Restricted Working Space, Add		1,221.37		
27 15 13 00-0102	MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		5,472.41	2,588.49	
	For Work In Restricted Working Space, Add		1,293.74		
27 15 13 00-0103	MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		5,746.17	2,734.25	
	For Work In Restricted Working Space, Add		1,366.88		
27 15 13 00-0104	MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		6,233.49	2,907.66	
	For Work In Restricted Working Space, Add		1,453.58		
27 15 13 00-0105	MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		7,589.09	3,601.27	
	For Work In Restricted Working Space, Add		1,800.76		
27 15 13 00-0106	MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		11,247.31	5,320.23	
	For Work In Restricted Working Space, Add		2,660.24		
27 15 13 00-0107	#18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)				
27 15 13 00-0108	MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		3,019.20	1,711.42	
	For Work In Restricted Working Space, Add		854.96		
27 15 13 00-0109	MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		3,265.41	1,771.74	
	For Work In Restricted Working Space, Add		885.87		
27 15 13 00-0110	MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		3,491.33	1,832.05	
	For Work In Restricted Working Space, Add		916.78		
27 15 13 00-0111	MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		3,724.98	1,894.87	
	For Work In Restricted Working Space, Add		947.69		
27 15 13 00-0112	MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		4,061.47	2,023.05	
	For Work In Restricted Working Space, Add		1,011.77		
27 15 13 00-0113	MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		4,381.54	2,148.70	
	For Work In Restricted Working Space, Add		1,075.10		
27 15 13 00-0114	MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		4,848.58	2,405.03	
	For Work In Restricted Working Space, Add		1,202.52		
27 15 13 00-0115	MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		6,402.79	3,169.01	
	For Work In Restricted Working Space, Add		1,584.76		
27 15 13 00-0116	MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		9,483.52	4,681.90	
	For Work In Restricted Working Space, Add		2,340.94		
27 15 13 00-0117	#20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)				
27 15 13 00-0118	MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		2,721.15	1,555.61	
	For Work In Restricted Working Space, Add		777.30		
27 15 13 00-0119	MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		2,924.87	1,610.90	
	For Work In Restricted Working Space, Add		805.20		
27 15 13 00-0120	MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		3,111.58	1,667.44	
	For Work In Restricted Working Space, Add		833.09		
27 15 13 00-0121	MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....		3,306.24	1,723.99	
	For Work In Restricted Working Space, Add		861.74		



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0122	MLF	5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,594.12 919.42	1,839.59
27 15 13 00-0123	MLF	6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,870.11 977.09	1,955.19
27 15 13 00-0124	MLF	8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,299.07 1,093.20	2,186.39
27 15 13 00-0125	MLF	12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,663.43 1,440.76	2,882.52
27 15 13 00-0126	MLF	24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,385.79 2,128.34	4,257.19
27 15 13 00-0127	MLF	25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,699.90 2,178.85	4,357.71
27 15 13 00-0128	MLF	36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,217.52 2,536.98	5,073.95
27 15 13 00-0129	MLF	40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,946.66 2,715.65	5,430.80
27 15 13 00-0130	MLF	50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	13,456.90 3,393.42	6,787.87
27 15 13 00-0131	MLF	100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	17,928.60 4,467.76	8,936.57
27 15 13 00-0132 #22 AWG, Shielded, Low Voltage Cable, Installed Exposed (27 15 13 00-0074)				
27 15 13 00-0133	MLF	1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,400.23 699.65	1,399.79
27 15 13 00-0134	MLF	2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,508.26 724.53	1,450.06
27 15 13 00-0135	MLF	3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,628.35 750.16	1,500.32
27 15 13 00-0136	MLF	4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,753.20 775.79	1,550.58
27 15 13 00-0137	MLF	5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,973.91 827.82	1,656.13
27 15 13 00-0138	MLF	6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,189.88 877.58	1,754.15
27 15 13 00-0139 Triad, Installed Exposed (27 15 13 00-0074)				
27 15 13 00-0140	MLF	1 Triad, #16 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	3,267.26	1,041.68
27 15 13 00-0141	MLF	4 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	4,243.50	1,441.27
27 15 13 00-0142	MLF	8 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	6,649.95	2,128.59
27 15 13 00-0143	MLF	12 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	8,300.63	2,536.97
27 15 13 00-0144	MLF	24 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	13,628.47	3,930.49
27 15 13 00-0145	MLF	36 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	15,687.88	4,468.29
27 15 13 00-0146 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)				
27 15 13 00-0147 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)				
27 15 13 00-0148	MLF	1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,027.33 543.96	1,088.18
27 15 13 00-0149	MLF	2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,273.68 563.56	1,127.12
27 15 13 00-0150	MLF	3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,494.40 583.16	1,166.08
27 15 13 00-0151	MLF	4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,726.14 603.14	1,206.29
27 15 13 00-0152	MLF	5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	3,014.70 643.10	1,286.71

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0153	MLF	6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,286.92	1,367.13
		<i>For Work In Restricted Working Space, Add</i>	683.44	
27 15 13 00-0154	MLF	8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,613.11	1,530.48
		<i>For Work In Restricted Working Space, Add</i>	765.24	
27 15 13 00-0155	MLF	12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,777.69	2,016.76
		<i>For Work In Restricted Working Space, Add</i>	1,008.38	
27 15 13 00-0156	MLF	24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,090.53	2,979.28
		<i>For Work In Restricted Working Space, Add</i>	1,489.76	
27 15 13 00-0157 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)				
27 15 13 00-0158	MLF	1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,808.24	971.31
		<i>For Work In Restricted Working Space, Add</i>	485.90	
27 15 13 00-0159	MLF	2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,025.45	1,006.49
		<i>For Work In Restricted Working Space, Add</i>	503.25	
27 15 13 00-0160	MLF	3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,220.07	1,041.68
		<i>For Work In Restricted Working Space, Add</i>	520.59	
27 15 13 00-0161	MLF	4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,425.82	1,076.86
		<i>For Work In Restricted Working Space, Add</i>	538.68	
27 15 13 00-0162	MLF	5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,682.02	1,148.49
		<i>For Work In Restricted Working Space, Add</i>	574.50	
27 15 13 00-0163	MLF	6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,923.97	1,221.36
		<i>For Work In Restricted Working Space, Add</i>	610.69	
27 15 13 00-0164	MLF	7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,068.16	1,294.25
		<i>For Work In Restricted Working Space, Add</i>	646.87	
27 15 13 00-0165	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,274.07	1,367.13
		<i>For Work In Restricted Working Space, Add</i>	683.44	
27 15 13 00-0166	MLF	9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,584.44	1,453.82
		<i>For Work In Restricted Working Space, Add</i>	726.75	
27 15 13 00-0167	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,248.58	1,800.63
		<i>For Work In Restricted Working Space, Add</i>	900.38	
27 15 13 00-0168	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,305.31	2,660.11
		<i>For Work In Restricted Working Space, Add</i>	1,330.31	
27 15 13 00-0169 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)				
27 15 13 00-0170	MLF	1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,582.30	854.45
		<i>For Work In Restricted Working Space, Add</i>	427.48	
27 15 13 00-0171	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,758.63	885.86
		<i>For Work In Restricted Working Space, Add</i>	442.93	
27 15 13 00-0172	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,875.26	917.28
		<i>For Work In Restricted Working Space, Add</i>	458.39	
27 15 13 00-0173	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,024.48	947.44
		<i>For Work In Restricted Working Space, Add</i>	473.85	
27 15 13 00-0174	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,218.09	1,011.52
		<i>For Work In Restricted Working Space, Add</i>	505.88	
27 15 13 00-0175	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,410.48	1,075.61
		<i>For Work In Restricted Working Space, Add</i>	537.55	
27 15 13 00-0176	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,850.76	1,202.52
		<i>For Work In Restricted Working Space, Add</i>	601.26	
27 15 13 00-0177	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,715.10	1,584.51
		<i>For Work In Restricted Working Space, Add</i>	792.38	
27 15 13 00-0178	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,074.43	2,340.95
		<i>For Work In Restricted Working Space, Add</i>	1,170.47	
27 15 13 00-0179 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)				



Communications			27
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0180	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,406.59	777.80
		<i>For Work In Restricted Working Space, Add</i>	388.65	
27 15 13 00-0181	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,531.36	805.45
		<i>For Work In Restricted Working Space, Add</i>	402.60	
27 15 13 00-0182	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,791.01	917.28
		<i>For Work In Restricted Working Space, Add</i>	458.39	
27 15 13 00-0183	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,948.15	964.28
		<i>For Work In Restricted Working Space, Add</i>	482.14	
27 15 13 00-0184	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,102.48	1,011.52
		<i>For Work In Restricted Working Space, Add</i>	505.88	
27 15 13 00-0185	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,273.87	1,075.61
		<i>For Work In Restricted Working Space, Add</i>	537.55	
27 15 13 00-0186	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,510.39	1,196.99
		<i>For Work In Restricted Working Space, Add</i>	598.62	
27 15 13 00-0187	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,078.07	1,441.27
		<i>For Work In Restricted Working Space, Add</i>	720.38	
27 15 13 00-0188	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,562.45	2,128.59
		<i>For Work In Restricted Working Space, Add</i>	1,064.17	
27 15 13 00-0189	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,761.21	2,178.86
		<i>For Work In Restricted Working Space, Add</i>	1,089.43	
27 15 13 00-0190	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,612.69	2,536.97
		<i>For Work In Restricted Working Space, Add</i>	1,268.49	
27 15 13 00-0191	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,015.48	2,715.40
		<i>For Work In Restricted Working Space, Add</i>	1,357.82	
27 15 13 00-0192	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,342.43	3,393.94
		<i>For Work In Restricted Working Space, Add</i>	1,696.71	
27 15 13 00-0193	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,833.15	4,468.29
		<i>For Work In Restricted Working Space, Add</i>	2,233.88	
27 15 13 00-0194		#22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0195	MLF	1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,239.73	699.90
		<i>For Work In Restricted Working Space, Add</i>	349.82	
27 15 13 00-0196	MLF	2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,308.32	725.03
		<i>For Work In Restricted Working Space, Add</i>	362.26	
27 15 13 00-0197	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,393.57	750.16
		<i>For Work In Restricted Working Space, Add</i>	375.08	
27 15 13 00-0198	MLF	4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,485.09	775.30
		<i>For Work In Restricted Working Space, Add</i>	387.89	
27 15 13 00-0199	MLF	5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,617.47	828.06
		<i>For Work In Restricted Working Space, Add</i>	413.91	
27 15 13 00-0200	MLF	6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,755.94	877.07
		<i>For Work In Restricted Working Space, Add</i>	438.79	
27 15 13 00-0201		Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0001)		
27 15 13 00-0202		#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)		
27 15 13 00-0203	MLF	1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,840.53	2,176.34
		<i>For Work In Restricted Working Space, Add</i>	1,087.92	
27 15 13 00-0204	MLF	2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,152.22	2,254.25
		<i>For Work In Restricted Working Space, Add</i>	1,127.12	
27 15 13 00-0205	MLF	3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,438.28	2,332.15
		<i>For Work In Restricted Working Space, Add</i>	1,166.33	
27 15 13 00-0206	MLF	4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,736.62	2,412.57
		<i>For Work In Restricted Working Space, Add</i>	1,206.29	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0207	MLF	5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,158.38	2,573.41
		<i>For Work In Restricted Working Space, Add</i>	1,286.21	
27 15 13 00-0208	MLF	6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,565.05	2,734.25
		<i>For Work In Restricted Working Space, Add</i>	1,366.88	
27 15 13 00-0209	MLF	8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,163.91	3,060.95
		<i>For Work In Restricted Working Space, Add</i>	1,530.48	
27 15 13 00-0210	MLF	12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,138.94	4,033.52
		<i>For Work In Restricted Working Space, Add</i>	2,016.75	
27 15 13 00-0211	MLF	24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	12,056.41	5,958.56
		<i>For Work In Restricted Working Space, Add</i>	2,979.53	
27 15 13 00-0212 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)				
27 15 13 00-0213	MLF	1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,427.94	1,942.63
		<i>For Work In Restricted Working Space, Add</i>	971.81	
27 15 13 00-0214	MLF	2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,702.95	2,013.00
		<i>For Work In Restricted Working Space, Add</i>	1,006.50	
27 15 13 00-0215	MLF	3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,955.37	2,083.36
		<i>For Work In Restricted Working Space, Add</i>	1,041.18	
27 15 13 00-0216	MLF	4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,221.43	2,153.72
		<i>For Work In Restricted Working Space, Add</i>	1,077.37	
27 15 13 00-0217	MLF	5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,596.99	2,296.97
		<i>For Work In Restricted Working Space, Add</i>	1,148.99	
27 15 13 00-0218	MLF	6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,959.57	2,442.73
		<i>For Work In Restricted Working Space, Add</i>	1,221.37	
27 15 13 00-0219	MLF	7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,224.39	2,588.49
		<i>For Work In Restricted Working Space, Add</i>	1,293.74	
27 15 13 00-0220	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,552.20	2,734.25
		<i>For Work In Restricted Working Space, Add</i>	1,366.88	
27 15 13 00-0221	MLF	9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,006.94	2,907.66
		<i>For Work In Restricted Working Space, Add</i>	1,453.50	
27 15 13 00-0222	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,249.84	3,601.27
		<i>For Work In Restricted Working Space, Add</i>	1,800.76	
27 15 13 00-0223	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	10,739.66	5,320.23
		<i>For Work In Restricted Working Space, Add</i>	2,660.61	
27 15 13 00-0224 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)				
27 15 13 00-0225	MLF	1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,007.22	1,708.90
		<i>For Work In Restricted Working Space, Add</i>	854.96	
27 15 13 00-0226	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,235.08	1,771.74
		<i>For Work In Restricted Working Space, Add</i>	885.87	
27 15 13 00-0227	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,403.23	1,834.57
		<i>For Work In Restricted Working Space, Add</i>	916.78	
27 15 13 00-0228	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,603.95	1,894.87
		<i>For Work In Restricted Working Space, Add</i>	947.69	
27 15 13 00-0229	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,904.39	2,023.05
		<i>For Work In Restricted Working Space, Add</i>	1,011.77	
27 15 13 00-0230	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,202.32	2,151.21
		<i>For Work In Restricted Working Space, Add</i>	1,075.10	
27 15 13 00-0231	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,854.95	2,405.03
		<i>For Work In Restricted Working Space, Add</i>	1,202.52	
27 15 13 00-0232	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,356.37	3,169.01
		<i>For Work In Restricted Working Space, Add</i>	1,584.76	
27 15 13 00-0233	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,976.00	4,681.90
		<i>For Work In Restricted Working Space, Add</i>	2,340.94	



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0234		#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)		
27 15 13 00-0235	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,702.09	1,555.61
		For Work In Restricted Working Space, Add	777.30	
27 15 13 00-0236	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,873.36	1,610.90
		For Work In Restricted Working Space, Add	805.20	
27 15 13 00-0237	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,318.98	1,834.57
		For Work In Restricted Working Space, Add	916.78	
27 15 13 00-0238	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,555.27	1,928.55
		For Work In Restricted Working Space, Add	964.28	
27 15 13 00-0239	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,788.78	2,023.05
		For Work In Restricted Working Space, Add	1,011.77	
27 15 13 00-0240	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,065.71	2,151.21
		For Work In Restricted Working Space, Add	1,075.10	
27 15 13 00-0241	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,505.79	2,393.98
		For Work In Restricted Working Space, Add	1,197.24	
27 15 13 00-0242	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,479.34	2,882.52
		For Work In Restricted Working Space, Add	1,440.76	
27 15 13 00-0243	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,109.67	4,257.19
		For Work In Restricted Working Space, Add	2,128.34	
27 15 13 00-0244	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,392.61	4,357.71
		For Work In Restricted Working Space, Add	2,178.85	
27 15 13 00-0245	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	9,840.99	5,073.95
		For Work In Restricted Working Space, Add	2,536.98	
27 15 13 00-0246	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	10,541.56	5,430.80
		For Work In Restricted Working Space, Add	2,715.65	
27 15 13 00-0247	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	12,998.14	6,787.87
		For Work In Restricted Working Space, Add	3,393.42	
27 15 13 00-0248	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	17,279.40	8,936.57
		For Work In Restricted Working Space, Add	4,467.76	
27 15 13 00-0249		#22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)		
27 15 13 00-0250	MLF	1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,405.80	1,399.79
		For Work In Restricted Working Space, Add	699.65	
27 15 13 00-0251	MLF	2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,515.87	1,450.06
		For Work In Restricted Working Space, Add	724.53	
27 15 13 00-0252	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,643.84	1,500.32
		For Work In Restricted Working Space, Add	750.16	
27 15 13 00-0253	MLF	4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,778.09	1,550.58
		For Work In Restricted Working Space, Add	775.79	
27 15 13 00-0254	MLF	5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,997.17	1,656.13
		For Work In Restricted Working Space, Add	827.82	
27 15 13 00-0255	MLF	6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,218.57	1,754.15
		For Work In Restricted Working Space, Add	877.58	
27 15 13 00-0256		Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench (27 15 13 00-0001)		
		Note: Excludes excavation.		
27 15 13 00-0257	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	1,889.49	
27 15 13 00-0258	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,176.47	
27 15 13 00-0259	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,432.34	
27 15 13 00-0260	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,702.37	
27 15 13 00-0261	MLF	5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,020.70	
27 15 13 00-0262	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,315.41	
27 15 13 00-0263		Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) (27 15 13 00-0001)		
27 15 13 00-0264	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	1,999.37	662.25

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0265	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	.....	2,352.98	709.51
27 15 13 00-0266	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	.....	3,039.31	896.96
27 15 13 00-0267	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	.....	3,615.81	1,037.44
27 15 13 00-0268	MLF	5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	.....	10,885.21	1,182.46
27 15 13 00-0269	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	.....	12,975.17	1,510.68
27 15 13 00-0270 Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)					
27 15 13 00-0271	MLF	1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	1,811.30	971.31
27 15 13 00-0272	MLF	2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	2,130.24	1,006.49
27 15 13 00-0273	MLF	3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	2,358.27	1,041.68
27 15 13 00-0274	MLF	4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	2,486.51	1,076.86
27 15 13 00-0275	MLF	5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	2,934.93	1,148.49
27 15 13 00-0276	MLF	6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	3,167.49	1,221.36
27 15 13 00-0277	MLF	8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	3,908.02	1,367.13
27 15 13 00-0278	MLF	12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	4,890.43	1,800.63
27 15 13 00-0279	MLF	24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	7,399.86	2,660.11
27 15 13 00-0280	MLF	1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	1,570.45	854.45
27 15 13 00-0281	MLF	2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	1,832.95	885.86
27 15 13 00-0282	MLF	3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	2,051.98	917.28
27 15 13 00-0283	MLF	4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	2,165.98	947.44
27 15 13 00-0284	MLF	5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	2,549.82	1,011.52
27 15 13 00-0285	MLF	6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	2,842.14	1,075.61
27 15 13 00-0286	MLF	8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	3,206.17	1,202.52
27 15 13 00-0287	MLF	12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	4,153.51	1,584.51
27 15 13 00-0288	MLF	24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	6,569.28	2,340.95
27 15 13 00-0289	MLF	1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	1,395.10	777.80
27 15 13 00-0290	MLF	2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	1,564.74	805.45
27 15 13 00-0291	MLF	3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	1,729.45	833.09
27 15 13 00-0292	MLF	4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	1,837.37	861.99
27 15 13 00-0293	MLF	5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	1,994.30	919.80
27 15 13 00-0294	MLF	6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	2,168.04	977.60
27 15 13 00-0295	MLF	8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	2,427.78	1,093.20
27 15 13 00-0296	MLF	12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	3,324.87	1,441.27
27 15 13 00-0297	MLF	24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	5,030.87	2,128.59
27 15 13 00-0298	MLF	25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	5,282.38	2,178.86
27 15 13 00-0299	MLF	36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	6,215.01	2,536.97
27 15 13 00-0300	MLF	40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	6,702.71	2,715.40
27 15 13 00-0301	MLF	50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	8,120.69	3,393.94
27 15 13 00-0302	MLF	100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	10,934.47	4,468.29
27 15 13 00-0303	MLF	250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	20,962.82	8,230.39
27 15 13 00-0304	MLF	500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	31,142.17	10,891.77
27 15 13 00-0305	MLF	750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	41,395.60	13,725.28
27 15 13 00-0306	MLF	1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	.....	58,119.81	18,826.87
27 15 13 00-0307	MLF	1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit		1,359.22	777.80



Communications			27
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0308	MLF	2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,484.48	805.45
27 15 13 00-0309	MLF	3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,606.60	833.09
27 15 13 00-0310	MLF	4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,692.83	861.99
27 15 13 00-0311	MLF	5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,828.08	919.80
27 15 13 00-0312	MLF	6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,973.62	977.60
27 15 13 00-0313	MLF	8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,209.50	1,093.20
27 15 13 00-0314	MLF	12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,992.07	1,441.27
27 15 13 00-0315	MLF	24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,496.28	2,128.59
27 15 13 00-0316	MLF	25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,687.50	2,178.86
27 15 13 00-0317	MLF	36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,522.47	2,536.97
27 15 13 00-0318	MLF	40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,918.42	2,715.40
27 15 13 00-0319	MLF	50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,232.50	3,393.94
27 15 13 00-0320	MLF	100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,677.60	4,468.29
27 15 13 00-0321	MLF	250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	18,302.94	8,230.39
27 15 13 00-0322	MLF	500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	26,446.10	10,891.77
27 15 13 00-0323	MLF	750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	34,701.87	13,725.28
27 15 13 00-0324	MLF	1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	48,456.19	18,826.87
27 15 13 00-0325		Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)		
27 15 13 00-0326	MLF	1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,842.88	971.31
27 15 13 00-0327	MLF	2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,077.71	1,006.49
27 15 13 00-0328	MLF	3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,227.87	1,041.68
27 15 13 00-0329	MLF	4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,425.47	1,076.86
27 15 13 00-0330	MLF	5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,670.50	1,148.49
27 15 13 00-0331	MLF	6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,913.03	1,221.36
27 15 13 00-0332	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,478.78	1,367.13
27 15 13 00-0333	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,525.81	1,800.63
27 15 13 00-0334	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,743.31	2,660.11
27 15 13 00-0335	MLF	1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,614.65	854.45
27 15 13 00-0336	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,816.63	885.86
27 15 13 00-0337	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,946.65	917.28
27 15 13 00-0338	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,115.95	947.44
27 15 13 00-0339	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,327.41	1,011.52
27 15 13 00-0340	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,537.64	1,075.61
27 15 13 00-0341	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,024.76	1,202.52
27 15 13 00-0342	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,936.60	1,584.51
27 15 13 00-0343	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,864.19	2,340.95
27 15 13 00-0344	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,429.42	777.80
27 15 13 00-0345	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,603.67	805.45
27 15 13 00-0346	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,728.68	833.09
27 15 13 00-0347	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,947.88	861.99
27 15 13 00-0348	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,151.79	919.80

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0349	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,524.97	977.60
27 15 13 00-0350	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,822.55	1,093.20
27 15 13 00-0351	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,586.53	1,441.27
27 15 13 00-0352	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,394.40	2,128.59
27 15 13 00-0353	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,685.82	2,178.86
27 15 13 00-0354	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,745.86	2,536.97
27 15 13 00-0355	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,234.62	2,715.40
27 15 13 00-0356	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,723.05	3,393.94
27 15 13 00-0357	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	11,786.88	4,468.29
27 15 13 00-0358	MLF	250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	22,767.36	8,230.39
27 15 13 00-0359	MLF	500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	34,327.83	10,891.77
27 15 13 00-0360	MLF	750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	45,935.88	13,725.28
27 15 13 00-0361	MLF	1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	64,674.55	18,825.61
27 15 13 00-0362	MLF	1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,381.16	777.80
27 15 13 00-0363	MLF	2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,509.39	805.45
27 15 13 00-0364	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,606.11	833.09
27 15 13 00-0365	MLF	4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,763.52	861.99
27 15 13 00-0366	MLF	5 Pair #22 AWG, Solid, Low Voltage, Plenum Rated, Non-Shielded, Installed In Conduit	1,928.82	919.80
27 15 13 00-0367	MLF	6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,201.95	977.60
27 15 13 00-0368	MLF	8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,462.04	1,093.20
27 15 13 00-0369	MLF	12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,159.45	1,441.27
27 15 13 00-0370	MLF	24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,728.82	2,128.59
27 15 13 00-0371	MLF	25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,945.58	2,178.86
27 15 13 00-0372	MLF	36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,838.72	2,536.97
27 15 13 00-0373	MLF	40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,258.67	2,715.40
27 15 13 00-0374	MLF	50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,617.81	3,393.94
27 15 13 00-0375	MLF	100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	10,222.86	4,468.29
27 15 13 00-0376	MLF	250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	19,457.18	8,230.39
27 15 13 00-0377	MLF	500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	28,483.95	10,891.77
27 15 13 00-0378	MLF	750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	37,606.63	13,725.28
27 15 13 00-0379	MLF	1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	52,650.00	18,826.87
27 15 13 00-0380		Copper Telecommunications Cable (27 15 13)		
27 15 13 00-0381		Indoor Telecommunications Cable (27 15 13 00-0380) Note: Shielded twisted pair cables (STP) includes a metallic foil wrap. Un-shielded twisted pair cables (UTP) excludes any shielding.		
27 15 13 00-0382		Category 3, Indoor Telecommunications Cable (27 15 13 00-0381) Note: Un-shielded twisted pair cables (UTP).		
27 15 13 00-0383		Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0382)		
27 15 13 00-0384		24 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)		
27 15 13 00-0385		24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0384)		
27 15 13 00-0386	MLF	2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,076.32	577.62
27 15 13 00-0387	MLF	3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,124.82	577.62
27 15 13 00-0388	MLF	4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,141.96	577.62
27 15 13 00-0389	MLF	6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,375.97	660.13
27 15 13 00-0390	MLF	12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,732.96	660.13
27 15 13 00-0391	MLF	25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	2,299.79	660.13
27 15 13 00-0392	MLF	50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,646.56	825.16



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0393 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	6,579.58	1,320.25
27 15 13 00-0394 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	8,882.06	1,485.28
27 15 13 00-0395 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	11,772.47	1,650.32
27 15 13 00-0396 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	17,209.65	2,310.44
27 15 13 00-0397 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	22,541.29	2,855.05
27 15 13 00-0398 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	35,668.97	3,960.77
27 15 13 00-0399 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	58,067.85	7,921.52
27 15 13 00-0400 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	79,044.91	11,882.28
27 15 13 00-0401 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0384)		
27 15 13 00-0402 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	2,039.00	1,155.22
For Work In Restricted Working Space, Add	577.61	
27 15 13 00-0403 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	2,087.50	1,155.22
For Work In Restricted Working Space, Add	577.61	
27 15 13 00-0404 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	2,104.64	1,155.22
For Work In Restricted Working Space, Add	577.61	
27 15 13 00-0405 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	2,201.13	1,155.22
For Work In Restricted Working Space, Add	577.61	
27 15 13 00-0406 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	2,558.12	1,155.22
For Work In Restricted Working Space, Add	577.61	
27 15 13 00-0407 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	3,400.01	1,320.25
For Work In Restricted Working Space, Add	660.13	
27 15 13 00-0408 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	5,021.82	1,650.32
For Work In Restricted Working Space, Add	825.16	
27 15 13 00-0409 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	7,679.78	1,980.38
For Work In Restricted Working Space, Add	990.19	
27 15 13 00-0410 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	10,119.80	2,227.93
For Work In Restricted Working Space, Add	1,113.96	
27 15 13 00-0411 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	13,147.74	2,475.47
For Work In Restricted Working Space, Add	1,237.74	
27 15 13 00-0412 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	19,135.02	3,465.66
For Work In Restricted Working Space, Add	1,732.83	
27 15 13 00-0413 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	24,934.25	4,290.83
For Work In Restricted Working Space, Add	2,145.41	
27 15 13 00-0414 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	38,969.60	5,941.14
For Work In Restricted Working Space, Add	2,970.57	
27 15 13 00-0415 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	64,669.12	11,882.28
For Work In Restricted Working Space, Add	5,941.14	
27 15 13 00-0416 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	88,946.82	17,823.43
For Work In Restricted Working Space, Add	8,911.72	
27 15 13 00-0417 22 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)		
27 15 13 00-0418 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0417)		
27 15 13 00-0419 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,711.63	660.13
27 15 13 00-0420 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	5,520.56	825.16
27 15 13 00-0421 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	10,072.90	1,320.25
27 15 13 00-0422 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	17,857.15	1,650.32
27 15 13 00-0423 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	26,258.48	2,310.44
27 15 13 00-0424 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	34,195.98	2,855.05
27 15 13 00-0425 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	50,687.77	3,960.77
27 15 13 00-0426 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0417)		
27 15 13 00-0427 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	4,811.85	1,320.25
For Work In Restricted Working Space, Add	660.13	
27 15 13 00-0428 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	6,895.82	1,650.32
For Work In Restricted Working Space, Add	825.16	
27 15 13 00-0429 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	11,173.10	1,980.38
For Work In Restricted Working Space, Add	990.19	
27 15 13 00-0430 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	19,232.42	2,475.47
For Work In Restricted Working Space, Add	1,237.74	
27 15 13 00-0431 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	28,183.85	3,465.66
For Work In Restricted Working Space, Add	1,732.83	
27 15 13 00-0432 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	36,588.94	4,290.83
For Work In Restricted Working Space, Add	2,145.41	
27 15 13 00-0433 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	53,988.40	5,941.14
For Work In Restricted Working Space, Add	2,970.57	
27 15 13 00-0434 Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0382)		
27 15 13 00-0435 24 AWG, Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0434)		
27 15 13 00-0436 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0435)		
27 15 13 00-0437 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,115.54	577.62

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0438 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,163.84	577.62
27 15 13 00-0439 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,199.97	577.62
27 15 13 00-0440 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,441.11	660.13
27 15 13 00-0441 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,830.25	660.13
27 15 13 00-0442 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,885.08	660.13
27 15 13 00-0443 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	4,838.16	825.16
27 15 13 00-0444 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	9,076.29	1,320.25
27 15 13 00-0445 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	15,684.97	1,650.32
27 15 13 00-0446 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	23,497.61	2,310.44
27 15 13 00-0447 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0435)		
27 15 13 00-0448 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed	2,078.22	1,155.22
<i>For Work In Restricted Working Space, Add</i>	577.61	
27 15 13 00-0449 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed	2,126.52	1,155.22
<i>For Work In Restricted Working Space, Add</i>	577.61	
27 15 13 00-0450 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed	2,162.65	1,155.22
<i>For Work In Restricted Working Space, Add</i>	577.61	
27 15 13 00-0451 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed	2,266.27	1,155.22
<i>For Work In Restricted Working Space, Add</i>	577.61	
27 15 13 00-0452 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed	2,655.41	1,155.22
<i>For Work In Restricted Working Space, Add</i>	577.61	
27 15 13 00-0453 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed	3,985.30	1,320.25
<i>For Work In Restricted Working Space, Add</i>	660.13	
27 15 13 00-0454 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed	6,213.42	1,650.32
<i>For Work In Restricted Working Space, Add</i>	825.16	
27 15 13 00-0455 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed	10,176.49	1,980.38
<i>For Work In Restricted Working Space, Add</i>	990.19	
27 15 13 00-0456 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed	17,060.24	2,475.47
<i>For Work In Restricted Working Space, Add</i>	1,237.74	
27 15 13 00-0457 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed	25,422.98	3,465.66
<i>For Work In Restricted Working Space, Add</i>	1,732.83	
27 15 13 00-0458 Category 5E, Indoor Telecommunications Cable (27 15 13 00-0381)		
27 15 13 00-0459 Category 5E, Indoor Telecommunications Riser Cable (27 15 13 00-0458)		
27 15 13 00-0460 Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0459)		
27 15 13 00-0461 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit	1,149.68	577.62
27 15 13 00-0462 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit	1,193.48	577.62
27 15 13 00-0463 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit	1,331.84	660.13
27 15 13 00-0464 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit	1,375.62	660.13
27 15 13 00-0465 Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0459)		
27 15 13 00-0466 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed	2,112.36	1,155.22
<i>For Work In Restricted Working Space, Add</i>	577.61	
27 15 13 00-0467 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed	2,156.16	1,155.22
<i>For Work In Restricted Working Space, Add</i>	577.61	
27 15 13 00-0468 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed	2,432.06	1,320.25
<i>For Work In Restricted Working Space, Add</i>	660.13	
27 15 13 00-0469 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed	2,475.84	1,320.25
<i>For Work In Restricted Working Space, Add</i>	660.13	
27 15 13 00-0470 Category 5E, Indoor Telecommunications Plenum Cable (27 15 13 00-0458)		
27 15 13 00-0471 Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0470)		
27 15 13 00-0472 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,310.74	577.62
27 15 13 00-0473 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,790.49	660.13
27 15 13 00-0474 Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0470)		
27 15 13 00-0475 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed	2,273.42	1,155.22
<i>For Work In Restricted Working Space, Add</i>	577.61	
27 15 13 00-0476 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed	2,890.71	1,320.25
<i>For Work In Restricted Working Space, Add</i>	660.13	
27 15 13 00-0477 Category 6, Indoor Telecommunications Cable (27 15 13 00-0381)		
27 15 13 00-0478 Category 6, Indoor Telecommunications Riser Cable (27 15 13 00-0477)		
27 15 13 00-0479 Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0478)		
27 15 13 00-0480 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit	1,296.88	577.62
27 15 13 00-0481 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit	1,334.25	577.62



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0482 Category 6, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0478)		
27 15 13 00-0483 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	2,259.56 577.61	1,155.22
27 15 13 00-0484 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	2,296.93 577.61	1,155.22
27 15 13 00-0485 Category 6, Indoor Telecommunications Plenum Cable (27 15 13 00-0477)		
27 15 13 00-0486 Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0485)		
27 15 13 00-0487 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,586.91	577.62
27 15 13 00-0488 Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0485)		
27 15 13 00-0489 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,549.59 577.61	1,155.22
27 15 13 00-0490 Category 6A, Indoor Telecommunications Cable (27 15 13 00-0381)		
27 15 13 00-0491 Category 6a, Indoor Telecommunications Riser Cable (27 15 13 00-0490)		
27 15 13 00-0492 Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0491)		
27 15 13 00-0493 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,356.59	577.62
27 15 13 00-0494 Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0491)		
27 15 13 00-0495 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed Exposed For Work In Restricted Working Space, Add	2,319.27 577.61	1,155.22
27 15 13 00-0496 Category 6A, Indoor Telecommunications Plenum Cable (27 15 13 00-0490)		
27 15 13 00-0497 Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0496)		
27 15 13 00-0498 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,749.15	577.62
27 15 13 00-0499 Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0496)		
27 15 13 00-0500 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed Exposed For Work In Restricted Working Space, Add	2,711.83 577.61	1,155.22
27 15 13 00-0501 Category 7, Indoor Telecommunications Cable (27 15 13 00-0381)		
27 15 13 00-0502 Category 7, Indoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0501)		
27 15 13 00-0503 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,618.70	660.13
27 15 13 00-0504 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit	4,503.29	660.13
27 15 13 00-0505 Category 7, Indoor Telecommunications Cable, Installed Exposed (27 15 13 00-0501)		
27 15 13 00-0506 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	3,718.92 660.13	1,320.25
27 15 13 00-0507 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed..... For Work In Restricted Working Space, Add	5,603.51 660.13	1,320.25
27 15 13 00-0508 Outdoor Telecommunications Cable (27 15 13 00-0380)		
Note: Cable buried in trench excludes excavation.		
27 15 13 00-0509 PE-89 Outdoor Telecommunications Cable (27 15 13 00-0508)		
Note: Includes foam-skin polyolefin insulated conductors.		
27 15 13 00-0510 24 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0509)		
27 15 13 00-0511 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0510)		
27 15 13 00-0512 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,112.19	660.13
27 15 13 00-0513 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,540.23	1,155.22
27 15 13 00-0514 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	3,599.83	742.65
27 15 13 00-0515 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	5,493.97	825.16
27 15 13 00-0516 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	7,790.03	1,155.22
27 15 13 00-0517 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	9,815.11	1,320.25
27 15 13 00-0518 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	16,924.83	1,485.28
27 15 13 00-0519 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	24,883.59	2,145.41
27 15 13 00-0520 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	32,975.36	2,805.54
27 15 13 00-0521 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	44,785.10	3,795.73
27 15 13 00-0522 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	70,580.40	7,591.46
27 15 13 00-0523 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	96,393.30	11,222.15

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 15 13 00-0524 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0510)

27 15 13 00-0525	MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,905.90	
27 15 13 00-0526	MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,333.94	
27 15 13 00-0527	MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	3,324.78	
27 15 13 00-0528	MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	5,218.91	
27 15 13 00-0529	MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	7,377.45	
27 15 13 00-0530	MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	9,127.47	
27 15 13 00-0531	MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	16,649.79	
27 15 13 00-0532	MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	24,058.43	
27 15 13 00-0533	MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	31,256.28	
27 15 13 00-0534	MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	41,759.52	
27 15 13 00-0535	MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	62,328.80	
27 15 13 00-0536	MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	84,290.97	

27 15 13 00-0537 22 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0509)**27 15 13 00-0538 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0537)**

27 15 13 00-0539	MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,384.31	660.13
27 15 13 00-0540	MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	3,048.62	660.13
27 15 13 00-0541	MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	4,640.48	742.65
27 15 13 00-0542	MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	7,346.20	825.16
27 15 13 00-0543	MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	10,684.55	1,155.22
27 15 13 00-0544	MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	13,750.15	1,320.25
27 15 13 00-0545	MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	24,516.07	1,485.28
27 15 13 00-0546	MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	35,710.22	2,145.41
27 15 13 00-0547	MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	47,570.59	2,805.54
27 15 13 00-0548	MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	70,272.96	3,795.73
27 15 13 00-0549	MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	102,769.46	7,591.46
27 15 13 00-0550	MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	144,551.10	11,222.15

27 15 13 00-0551 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0537)

27 15 13 00-0552	MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,178.02	
27 15 13 00-0553	MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,842.33	
27 15 13 00-0554	MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	4,365.43	
27 15 13 00-0555	MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	7,071.14	
27 15 13 00-0556	MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	10,271.97	
27 15 13 00-0557	MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	13,337.56	
27 15 13 00-0558	MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	24,241.03	
27 15 13 00-0559	MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	34,885.06	
27 15 13 00-0560	MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	45,851.51	
27 15 13 00-0561	MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	67,247.38	
27 15 13 00-0562	MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	94,517.86	
27 15 13 00-0563	MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	132,448.77	

27 15 13 00-0564 19 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0509)**27 15 13 00-0565 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0564)**

27 15 13 00-0566	MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	7,848.58	742.65
27 15 13 00-0567	MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	13,617.00	825.16
27 15 13 00-0568	MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	21,839.15	1,155.22
27 15 13 00-0569	MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	26,170.79	1,320.25

27 15 13 00-0570 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0564)

27 15 13 00-0571	MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	7,573.53	
27 15 13 00-0572	MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	13,341.94	
27 15 13 00-0573	MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	21,426.57	
27 15 13 00-0574	MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	25,758.20	

27 15 13 00-0575 PE-39 Outdoor Telecommunications Cable (27 15 13 00-0508)

Note: Includes solid polyolefin insulated conductors.

27 15 13 00-0576 24 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)**27 15 13 00-0577 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0576)**

27 15 13 00-0578	MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,975.61	1,155.22
27 15 13 00-0579	MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,499.27	1,155.22
27 15 13 00-0580	MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,555.73	1,155.22
27 15 13 00-0581	MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	6,458.21	1,155.22
27 15 13 00-0582	MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	10,316.72	1,155.22
27 15 13 00-0583	MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	18,701.05	1,485.28
27 15 13 00-0584	MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	27,306.43	2,145.41
27 15 13 00-0585	MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	35,927.57	2,805.54



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0586 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	49,095.56	3,795.73
27 15 13 00-0587 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	76,154.88	7,591.46
27 15 13 00-0588 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	110,851.26	11,222.15
27 15 13 00-0589 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0576)		
27 15 13 00-0590 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,563.03	
27 15 13 00-0591 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,086.69	
27 15 13 00-0592 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	4,143.15	
27 15 13 00-0593 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	6,045.63	
27 15 13 00-0594 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	9,904.14	
27 15 13 00-0595 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	18,426.01	
27 15 13 00-0596 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	26,481.27	
27 15 13 00-0597 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	34,208.49	
27 15 13 00-0598 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	46,069.98	
27 15 13 00-0599 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	67,903.28	
27 15 13 00-0600 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	98,748.93	
27 15 13 00-0601 22 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)		
27 15 13 00-0602 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0601)		
27 15 13 00-0603 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,278.36	1,155.22
27 15 13 00-0604 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,047.85	1,155.22
27 15 13 00-0605 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	5,685.38	1,155.22
27 15 13 00-0606 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	8,697.84	1,155.22
27 15 13 00-0607 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	14,984.45	1,155.22
27 15 13 00-0608 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	27,683.99	1,485.28
27 15 13 00-0609 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	40,566.36	2,145.41
27 15 13 00-0610 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	51,965.20	2,805.54
27 15 13 00-0611 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	72,594.37	3,795.73
27 15 13 00-0612 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	114,204.90	7,591.46
27 15 13 00-0613 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0601)		
27 15 13 00-0614 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,865.78	
27 15 13 00-0615 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,635.27	
27 15 13 00-0616 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	5,272.80	
27 15 13 00-0617 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	8,285.26	
27 15 13 00-0618 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	14,571.87	
27 15 13 00-0619 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	27,408.95	
27 15 13 00-0620 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	39,741.20	
27 15 13 00-0621 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	50,246.12	
27 15 13 00-0622 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	69,568.79	
27 15 13 00-0623 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	105,953.30	
27 15 13 00-0624 19 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)		
27 15 13 00-0625 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0624)		
27 15 13 00-0626 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	9,312.87	1,155.22
27 15 13 00-0627 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	15,422.54	1,155.22
27 15 13 00-0628 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	28,091.84	1,155.22
27 15 13 00-0629 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0624)		
27 15 13 00-0630 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	8,900.29	
27 15 13 00-0631 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	15,009.96	
27 15 13 00-0632 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	27,679.26	
27 15 13 00-0633 (Aerial) Outdoor Telecommunications Cable (27 15 13 00-0508)		
Note: Includes support wire.		
27 15 13 00-0634 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0633)		
27 15 13 00-0635 MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,456.37	2,270.43
27 15 13 00-0636 MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,892.08	2,270.43
27 15 13 00-0637 MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,973.86	2,270.43
27 15 13 00-0638 MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	11,976.76	2,270.43
27 15 13 00-0639 MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	15,845.33	2,270.43
27 15 13 00-0640 MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	24,052.59	2,497.47
27 15 13 00-0641 MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	32,307.71	2,724.50
27 15 13 00-0642 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0633)		
27 15 13 00-0643 MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,977.65	2,270.43
27 15 13 00-0644 MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,621.39	2,270.43
27 15 13 00-0645 MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	11,171.89	2,270.43

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0646 MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	14,235.04	2,270.43
27 15 13 00-0647 MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	21,041.09	2,270.43
27 15 13 00-0648 MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	33,342.19	2,497.47
27 15 13 00-0649 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles ^(27 15 13)		
27 15 13 00-0650 MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,666.83	2,270.43
27 15 13 00-0651 MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	11,122.61	2,270.43
27 15 13 00-0652 MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	13,984.91	2,270.43
27 15 13 00-0653 MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	19,709.56	2,270.43
27 15 13 00-0654 MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	31,277.04	2,270.43
27 15 13 00-0655 Sound System Cables ^(27 15 13)		
Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
27 15 13 00-0656 Speaker/Communications And Control Cable, Installed Exposed ^(27 15 13 00-0655)		
27 15 13 00-0657 Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed ^(27 15 13 00-0656)		
27 15 13 00-0658 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,068.90	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0659 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,964.43	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0660 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,883.85	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0661 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,971.97	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0662 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,255.19	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0663 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,537.48	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0664 MLF 4 Conductor, #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,256.38	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0665 MLF 4 Conductor, #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,120.39	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0666 Plenum Rated Speaker/Communications And Control Cable, Installed Exposed ^(27 15 13 00-0656)		
27 15 13 00-0667 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,112.06	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0668 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,991.88	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0669 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,923.86	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0670 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,037.37	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0671 MLF 8 Conductors, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,277.16	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0672 MLF 2 Conductors, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,250.71	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0673 MLF 2 Conductors, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,084.48	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0674 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,367.04	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0675 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,648.82	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0676 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,957.97	879.59
For Work In Restricted Working Space, Add	527.75	
27 15 13 00-0677 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,014.11	879.59
For Work In Restricted Working Space, Add	527.75	



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0678 Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0655)		
27 15 13 00-0679 Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0678)		
27 15 13 00-0680 MLF 2 Conductors, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,189.32	439.79
27 15 13 00-0681 MLF 2 Conductors, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,084.85	439.79
27 15 13 00-0682 MLF 2 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,004.27	439.79
27 15 13 00-0683 MLF 4 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,092.39	439.79
27 15 13 00-0684 MLF 4 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,375.61	439.79
27 15 13 00-0685 MLF 6 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,657.90	439.79
27 15 13 00-0686 MLF 4 Conductors (2 Shielded, 2 Unshielded), #20 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit	1,376.80	439.79
27 15 13 00-0687 MLF 4 Conductors (2 Shielded, 2 Unshielded), #22 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit	1,240.81	439.79
27 15 13 00-0688 Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0678)		
27 15 13 00-0689 MLF 2 Conductor, #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,232.48	439.79
27 15 13 00-0690 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,112.30	439.79
27 15 13 00-0691 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,044.28	439.79
27 15 13 00-0692 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,157.79	439.79
27 15 13 00-0693 MLF 8 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,397.58	439.79
27 15 13 00-0694 MLF 2 Conductor, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,371.13	439.79
27 15 13 00-0695 MLF 2 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,204.90	439.79
27 15 13 00-0696 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,487.46	439.79
27 15 13 00-0697 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,769.24	439.79
27 15 13 00-0698 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,134.53	439.79
27 15 13 00-0699 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,078.39	439.79
27 15 23 Communications Optical Fiber Horizontal Cabling (27 15)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 23 00-0001 Indoor Fiber Optic Cable (27 15 23)		
Note: Distribution cables contain multiple tight-buffered fibers bundled under the same jacket with Kevlar strength members. Break-out cables contain multiple individually reinforced and jacketed simplex cables bundled together.		
27 15 23 00-0002 Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0001)		
Note: Excludes conduit or innerduct.		
27 15 23 00-0003 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)		
27 15 23 00-0004 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0003)		
27 15 23 00-0005 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)		
27 15 23 00-0006 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,171.42	495.09
27 15 23 00-0007 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,275.78	495.09
27 15 23 00-0008 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,310.62	495.09
27 15 23 00-0009 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,434.71	495.09
For Aluminum Armored Cable, Add		780.65
For Steel Armored Cable, Add		1,585.79
27 15 23 00-0010 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,470.28	495.09
27 15 23 00-0011 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,685.34	495.09
For Aluminum Armored Cable, Add		802.44
For Steel Armored Cable, Add		1,643.78
27 15 23 00-0012 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,863.75	577.62
27 15 23 00-0013 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,012.51	577.62
For Aluminum Armored Cable With Sub-Units, Add		1,971.48
For Steel Armored Cable, Add		2,047.50
27 15 23 00-0014 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,885.57	577.62
For Aluminum Armored Cable With Sub-Units, Add		2,078.31
For Steel Armored Cable, Add		1,764.27

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0015	MLF	48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	5,054.90 2,180.56 1,849.20	577.62
27 15 23 00-0016	MLF	60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,122.71	577.62
27 15 23 00-0017	MLF	72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,406.67	577.62
27 15 23 00-0018	MLF	96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,900.34	577.62
27 15 23 00-0019	MLF	120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,605.51	660.13
27 15 23 00-0020	MLF	144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,642.36	660.13
27 15 23 00-0021 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)				
27 15 23 00-0022	MLF	1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,201.47	495.09
27 15 23 00-0023	MLF	2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,303.43	495.09
27 15 23 00-0024	MLF	4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,587.41	495.09
27 15 23 00-0025	MLF	6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,886.33	495.09
		<i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	1,070.74 1,397.01	
27 15 23 00-0026	MLF	8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,170.30	495.09
27 15 23 00-0027	MLF	12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,753.19	495.09
		<i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	1,086.50 1,511.64	
27 15 23 00-0028	MLF	18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,040.18	577.62
27 15 23 00-0029	MLF	24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,147.57	577.62
		<i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	960.65 960.65	
27 15 23 00-0030	MLF	36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,240.01	577.62
27 15 23 00-0031	MLF	48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,332.45	577.62
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,714.31	
27 15 23 00-0032	MLF	60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,424.89	577.62
27 15 23 00-0033	MLF	72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	13,517.33	577.62
27 15 23 00-0034	MLF	96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	17,717.16	577.62
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>	7,383.32	
27 15 23 00-0035	MLF	120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	22,039.56	660.13
27 15 23 00-0036	MLF	144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	26,224.44	660.13
27 15 23 00-0037 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)				
27 15 23 00-0038	MLF	1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,220.29	495.09
27 15 23 00-0039	MLF	2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,327.35	495.09
27 15 23 00-0040	MLF	4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,625.52	495.09
27 15 23 00-0041	MLF	6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,939.38	495.09
27 15 23 00-0042	MLF	8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,237.56	495.09
27 15 23 00-0043	MLF	12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,849.60	495.09
27 15 23 00-0044	MLF	18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,144.06	577.62
27 15 23 00-0045	MLF	24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,356.81	577.62
27 15 23 00-0046	MLF	36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,553.88	577.62
27 15 23 00-0047	MLF	48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,750.94	577.62
27 15 23 00-0048	MLF	60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,948.00	577.62
27 15 23 00-0049	MLF	72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	14,145.06	577.62
27 15 23 00-0050	MLF	96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	18,554.88	577.62
27 15 23 00-0051	MLF	120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	23,086.52	660.13



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0052 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	27,480.65	660.13
27 15 23 00-0053 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0003)		
27 15 23 00-0054 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)		
27 15 23 00-0055 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,138.62	495.09
27 15 23 00-0056 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,527.80	495.09
27 15 23 00-0057 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,384.00	495.09
27 15 23 00-0058 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,792.61	495.09
27 15 23 00-0059 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,576.31	495.09
27 15 23 00-0060 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,946.28	577.62
27 15 23 00-0061 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,739.74	577.62
27 15 23 00-0062 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,297.43	577.62
27 15 23 00-0063 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	15,070.33	577.62
27 15 23 00-0064 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)		
27 15 23 00-0065 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,444.25	495.09
27 15 23 00-0066 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,954.74	495.09
27 15 23 00-0067 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,796.42	495.09
27 15 23 00-0068 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,047.40	495.09
27 15 23 00-0069 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,566.90	495.09
27 15 23 00-0070 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,428.33	577.62
27 15 23 00-0071 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,303.13	577.62
27 15 23 00-0072 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,584.92	577.62
27 15 23 00-0073 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,088.04	577.62
27 15 23 00-0074 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)		
27 15 23 00-0075 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,525.20	495.09
27 15 23 00-0076 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,061.22	495.09
27 15 23 00-0077 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,944.99	495.09
27 15 23 00-0078 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,258.52	495.09
27 15 23 00-0079 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,803.98	495.09
27 15 23 00-0080 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,751.61	577.62
27 15 23 00-0081 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,720.15	577.62
27 15 23 00-0082 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,066.04	577.62
27 15 23 00-0083 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,844.31	577.62
27 15 23 00-0084 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)		
27 15 23 00-0085 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0084)		
27 15 23 00-0086 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0087 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,142.56	495.09
27 15 23 00-0088 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,147.35	495.09
27 15 23 00-0089 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,398.80	495.09
27 15 23 00-0090 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,428.22	495.09
For Aluminum Armored Cable, Add	927.80	
For Steel Armored Cable, Add	5,897.39	
27 15 23 00-0091 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,576.33	495.09
27 15 23 00-0092 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,604.04	495.09
For Aluminum Armored Cable, Add	965.19	
For Steel Armored Cable, Add	6,338.64	
27 15 23 00-0093 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,501.89	577.62
27 15 23 00-0094 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,454.09	577.62
For Aluminum Armored Cable With Sub-Units, Add	949.95	
For Steel Armored Cable, Add	6,828.20	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0095	MLF		36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,974.45	577.62
27 15 23 00-0096	MLF		48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,151.99	577.62
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,456.47	
			<i>For Steel Armored Cable, Add</i>	8,658.07	
27 15 23 00-0097	MLF		60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,596.79	577.62
27 15 23 00-0098	MLF		72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,139.39	577.62
27 15 23 00-0099	MLF		96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	13,345.21	577.62
27 15 23 00-0100 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)					
27 15 23 00-0101	MLF		1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,199.45	495.09
27 15 23 00-0102	MLF		2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,592.25	495.09
27 15 23 00-0103	MLF		4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,062.17	495.09
27 15 23 00-0104	MLF		6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,541.51	495.09
			<i>For Aluminum Armored Cable, Add</i>	418.64	
			<i>For Steel Armored Cable, Add</i>	817.09	
27 15 23 00-0105	MLF		8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,000.82	495.09
27 15 23 00-0106	MLF		12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,399.88	495.09
			<i>For Aluminum Armored Cable, Add</i>	412.66	
			<i>For Steel Armored Cable, Add</i>	864.94	
27 15 23 00-0107	MLF		18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,322.88	577.62
27 15 23 00-0108	MLF		24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,731.41	577.62
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	2,010.79	
			<i>For Steel Armored Cable, Add</i>	4,689.76	
27 15 23 00-0109	MLF		36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,115.77	577.62
27 15 23 00-0110	MLF		48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	14,500.13	577.62
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	5,970.98	
27 15 23 00-0111	MLF		60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	17,884.49	577.62
27 15 23 00-0112	MLF		72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	21,268.85	577.62
27 15 23 00-0113	MLF		96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	28,061.74	577.62
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	11,941.96	
27 15 23 00-0114 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)					
27 15 23 00-0115	MLF		1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,218.17	495.09
27 15 23 00-0116	MLF		2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,630.60	495.09
27 15 23 00-0117	MLF		4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,124.02	495.09
27 15 23 00-0118	MLF		6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,627.33	495.09
27 15 23 00-0119	MLF		8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,109.60	495.09
27 15 23 00-0120	MLF		12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,528.62	495.09
27 15 23 00-0121	MLF		18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,490.89	577.62
27 15 23 00-0122	MLF		24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,069.85	577.62
27 15 23 00-0123	MLF		36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,623.42	577.62
27 15 23 00-0124	MLF		48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	15,177.00	577.62
27 15 23 00-0125	MLF		60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	18,730.58	577.62
27 15 23 00-0126	MLF		72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	22,284.16	577.62
27 15 23 00-0127	MLF		96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	29,416.70	577.62
27 15 23 00-0128 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0084)					
27 15 23 00-0129 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)					
27 15 23 00-0130	MLF		2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,328.84	495.09



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Structured Cabling			27 10	
Communications Horizontal Cabling			27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0131 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,802.36	495.09
27 15 23 00-0132 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,940.70	495.09
27 15 23 00-0133 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,056.31	495.09
27 15 23 00-0134 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,836.80	495.09
27 15 23 00-0135 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,159.09	577.62
27 15 23 00-0136 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,062.10	577.62
27 15 23 00-0137 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	19,416.14	577.62
27 15 23 00-0138 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	24,209.50	577.62
27 15 23 00-0139 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)		
27 15 23 00-0140 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,161.23	495.09
27 15 23 00-0141 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,427.48	495.09
27 15 23 00-0142 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,687.71	495.09
27 15 23 00-0143 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,839.64	495.09
27 15 23 00-0144 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,626.66	495.09
27 15 23 00-0145 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,902.22	577.62
27 15 23 00-0146 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,666.30	577.62
27 15 23 00-0147 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,585.43	577.62
27 15 23 00-0148 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	32,872.37	577.62
27 15 23 00-0149 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)		
27 15 23 00-0150 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,378.03	495.09
27 15 23 00-0151 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,707.60	495.09
27 15 23 00-0152 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,080.83	495.09
27 15 23 00-0153 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,290.37	495.09
27 15 23 00-0154 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,166.73	495.09
27 15 23 00-0155 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,649.20	577.62
27 15 23 00-0156 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	19,551.48	577.62
27 15 23 00-0157 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,566.56	577.62
27 15 23 00-0158 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	34,467.85	577.62
27 15 23 00-0159 Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0001) Note: For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0160 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0159)		
27 15 23 00-0161 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0160)		
27 15 23 00-0162 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)		
27 15 23 00-0163 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,446.47	660.13
For Work In Restricted Working Space, Add	330.06	
27 15 23 00-0164 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,550.83	660.13
For Work In Restricted Working Space, Add	330.06	
27 15 23 00-0165 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,585.67	660.13
For Work In Restricted Working Space, Add	330.06	
27 15 23 00-0166 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,709.76	660.13
For Aluminum Armored Cable, Add	780.65	
For Steel Armored Cable, Add	1,585.79	
For Work In Restricted Working Space, Add	330.06	
27 15 23 00-0167 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,745.33	660.13
For Work In Restricted Working Space, Add	330.06	
27 15 23 00-0168 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,960.39	660.13
For Aluminum Armored Cable, Add	802.44	
For Steel Armored Cable, Add	1,643.78	
For Work In Restricted Working Space, Add	330.06	
27 15 23 00-0169 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,138.80	742.65
For Work In Restricted Working Space, Add	371.32	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0170	MLF	24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,287.56 1,971.48 2,047.50 371.32	742.65
27 15 23 00-0171	MLF	36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,160.62 2,078.31 1,764.27 371.32	742.65
27 15 23 00-0172	MLF	48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,329.95 2,180.56 1,849.20 371.32	742.65
27 15 23 00-0173	MLF	60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,397.76 371.32	742.65
27 15 23 00-0174	MLF	72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,681.72 371.32	742.65
27 15 23 00-0175	MLF	96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,175.39 371.32	742.65
27 15 23 00-0176	MLF	120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,880.57 412.58	825.16
27 15 23 00-0177	MLF	144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	12,917.42 412.58	825.16
27 15 23 00-0178		50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0181)		
27 15 23 00-0179	MLF	1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,476.52 330.06	660.13
27 15 23 00-0180	MLF	2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,578.48 330.06	660.13
27 15 23 00-0181	MLF	4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,862.46 330.06	660.13
27 15 23 00-0182	MLF	6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,161.38 1,070.74 1,397.01 330.06	660.13
27 15 23 00-0183	MLF	8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,445.35 330.06	660.13
27 15 23 00-0184	MLF	12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,028.24 1,086.50 1,511.64 330.06	660.13
27 15 23 00-0185	MLF	18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,315.23 371.32	742.65
27 15 23 00-0186	MLF	24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,422.62 960.65 960.65 371.32	742.65
27 15 23 00-0187	MLF	36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,515.06 371.32	742.65
27 15 23 00-0188	MLF	48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,607.50 1,714.31 371.32	742.65
27 15 23 00-0189	MLF	60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,699.94 371.32	742.65
27 15 23 00-0190	MLF	72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	13,792.38 371.32	742.65
27 15 23 00-0191	MLF	96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	17,992.21 7,383.32 371.32	742.65
27 15 23 00-0192	MLF	120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	22,314.62 412.58	825.16
27 15 23 00-0193	MLF	144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	26,499.50 412.58	825.16
27 15 23 00-0194		62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0181)		
27 15 23 00-0195	MLF	1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,495.34 330.06	660.13
27 15 23 00-0196	MLF	2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,602.40 330.06	660.13
27 15 23 00-0197	MLF	4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,900.57 330.06	660.13
27 15 23 00-0198	MLF	6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,214.43 330.06	660.13



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0199	MLF	8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	2,512.61 330.06	660.13
27 15 23 00-0200	MLF	12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	3,124.65 330.06	660.13
27 15 23 00-0201	MLF	18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	3,419.11 371.32	742.65
27 15 23 00-0202	MLF	24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	5,631.86 371.32	742.65
27 15 23 00-0203	MLF	36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	7,828.93 371.32	742.65
27 15 23 00-0204	MLF	48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	10,025.99 371.32	742.65
27 15 23 00-0205	MLF	60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	12,223.05 371.32	742.65
27 15 23 00-0206	MLF	72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	14,420.11 371.32	742.65
27 15 23 00-0207	MLF	96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	18,829.93 371.32	742.65
27 15 23 00-0208	MLF	120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	23,361.58 412.58	825.16
27 15 23 00-0209	MLF	144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	27,755.71 412.58	825.16
27 15 23 00-0210		Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0160)		
27 15 23 00-0211		Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0212	MLF	2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	2,413.67 330.06	660.13
27 15 23 00-0213	MLF	4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	2,802.85 330.06	660.13
27 15 23 00-0214	MLF	6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	3,659.05 330.06	660.13
27 15 23 00-0215	MLF	8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	4,067.66 330.06	660.13
27 15 23 00-0216	MLF	12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	6,851.36 330.06	660.13
27 15 23 00-0217	MLF	18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	7,221.33 371.32	742.65
27 15 23 00-0218	MLF	24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	9,014.79 371.32	742.65
27 15 23 00-0219	MLF	36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	12,572.48 371.32	742.65
27 15 23 00-0220	MLF	48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	15,345.38 371.32	742.65
27 15 23 00-0221		50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0222	MLF	2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	2,719.30 330.06	660.13
27 15 23 00-0223	MLF	4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	3,229.79 330.06	660.13
27 15 23 00-0224	MLF	6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	4,071.47 330.06	660.13
27 15 23 00-0225	MLF	8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	5,322.45 330.06	660.13
27 15 23 00-0226	MLF	12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	8,541.95 330.06	660.13
27 15 23 00-0227	MLF	18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	7,703.38 371.32	742.65
27 15 23 00-0228	MLF	24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	9,578.18 371.32	742.65
27 15 23 00-0229	MLF	36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	10,859.97 371.32	742.65
27 15 23 00-0230	MLF	48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	16,363.09 371.32	742.65

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0231		62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0232	MLF	2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,800.25	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0233	MLF	4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,336.27	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0234	MLF	6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,220.04	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0235	MLF	8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,533.57	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0236	MLF	12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,079.03	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0237	MLF	18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,026.66	742.65
		<i>For Work In Restricted Working Space, Add</i>	371.32	
27 15 23 00-0238	MLF	24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,995.20	742.65
		<i>For Work In Restricted Working Space, Add</i>	371.32	
27 15 23 00-0239	MLF	36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,341.09	742.65
		<i>For Work In Restricted Working Space, Add</i>	371.32	
27 15 23 00-0240	MLF	48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	17,119.36	742.65
		<i>For Work In Restricted Working Space, Add</i>	371.32	
27 15 23 00-0241		Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0159)		
27 15 23 00-0242		Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0241)		
27 15 23 00-0243		Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0242)		
27 15 23 00-0244	MLF	1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,417.61	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0245	MLF	2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,422.40	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0246	MLF	4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,673.85	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0247	MLF	6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,703.27	660.13
		<i>For Aluminum Armored Cable, Add</i>	927.80	
		<i>For Steel Armored Cable, Add</i>	5,897.39	
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0248	MLF	8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,851.38	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0249	MLF	12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,879.09	660.13
		<i>For Aluminum Armored Cable, Add</i>	965.19	
		<i>For Steel Armored Cable, Add</i>	6,338.64	
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0250	MLF	18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,776.94	742.65
		<i>For Work In Restricted Working Space, Add</i>	371.32	
27 15 23 00-0251	MLF	24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,729.14	742.65
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>	949.95	
		<i>For Steel Armored Cable, Add</i>	6,828.20	
		<i>For Work In Restricted Working Space, Add</i>	371.32	
27 15 23 00-0252	MLF	36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,249.50	742.65
		<i>For Work In Restricted Working Space, Add</i>	371.32	
27 15 23 00-0253	MLF	48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,427.04	742.65
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,456.47	
		<i>For Steel Armored Cable, Add</i>	8,658.07	
		<i>For Work In Restricted Working Space, Add</i>	371.32	
27 15 23 00-0254	MLF	60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,871.84	742.65
		<i>For Work In Restricted Working Space, Add</i>	371.32	
27 15 23 00-0255	MLF	72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,414.44	742.65
		<i>For Work In Restricted Working Space, Add</i>	371.32	
27 15 23 00-0256	MLF	96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	13,620.26	742.65
		<i>For Work In Restricted Working Space, Add</i>	371.32	
27 15 23 00-0257		50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0242)		
27 15 23 00-0258	MLF	1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,474.50	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0259	MLF	2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,867.30	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	
27 15 23 00-0260	MLF	4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,337.22	660.13
		<i>For Work In Restricted Working Space, Add</i>	330.06	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0261	MLF	6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Aluminum Armored Cable, Add For Steel Armored Cable, Add For Work In Restricted Working Space, Add	2,816.56 418.64 817.09 330.06	660.13
27 15 23 00-0262	MLF	8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	3,275.87 330.06	660.13
27 15 23 00-0263	MLF	12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Aluminum Armored Cable, Add For Steel Armored Cable, Add For Work In Restricted Working Space, Add	3,674.93 412.66 864.94 330.06	660.13
27 15 23 00-0264	MLF	18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	4,597.93 371.32	742.65
27 15 23 00-0265	MLF	24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Aluminum Armored Cable With Sub-Units, Add For Steel Armored Cable, Add For Work In Restricted Working Space, Add	8,006.46 2,010.79 4,689.76 371.32	742.65
27 15 23 00-0266	MLF	36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	11,390.82 371.32	742.65
27 15 23 00-0267	MLF	48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Aluminum Armored Cable With Sub-Units, Add For Work In Restricted Working Space, Add	14,775.18 5,970.98 371.32	742.65
27 15 23 00-0268	MLF	60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	18,159.54 371.32	742.65
27 15 23 00-0269	MLF	72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add For Work In Restricted Working Space, Add	21,543.90 371.32 371.32	742.65
27 15 23 00-0270	MLF	96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add For Aluminum Armored Cable With Sub-Units, Add For Work In Restricted Working Space, Add	28,336.79 371.32 11,941.96 371.32	742.65
27 15 23 00-0271		62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0242)		
27 15 23 00-0272	MLF	1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	1,493.22 330.06	660.13
27 15 23 00-0273	MLF	2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	1,905.65 330.06	660.13
27 15 23 00-0274	MLF	4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	2,399.07 330.06	660.13
27 15 23 00-0275	MLF	6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	2,902.38 330.06	660.13
27 15 23 00-0276	MLF	8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	3,384.65 330.06	660.13
27 15 23 00-0277	MLF	12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	3,803.67 330.06	660.13
27 15 23 00-0278	MLF	18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	4,765.94 371.32	742.65
27 15 23 00-0279	MLF	24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	8,344.90 371.32	742.65
27 15 23 00-0280	MLF	36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	11,898.47 371.32	742.65
27 15 23 00-0281	MLF	48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	15,452.05 371.32	742.65
27 15 23 00-0282	MLF	60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	19,005.63 371.32	742.65
27 15 23 00-0283	MLF	72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	22,559.21 371.32	742.65
27 15 23 00-0284	MLF	96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	29,691.75 371.32	742.65

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0285 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0241)		
27 15 23 00-0286 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0285)		
27 15 23 00-0287 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 3,603.89	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0288 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 4,077.41	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0289 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 5,215.75	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0290 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 6,331.36	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0291 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 8,111.85	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0292 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 11,434.14	742.65	
For Work In Restricted Working Space, Add 371.32		
27 15 23 00-0293 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 16,337.15	742.65	
For Work In Restricted Working Space, Add 371.32		
27 15 23 00-0294 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 19,691.19	742.65	
For Work In Restricted Working Space, Add 371.32		
27 15 23 00-0295 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 24,484.55	742.65	
For Work In Restricted Working Space, Add 371.32		
27 15 23 00-0296 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0285)		
27 15 23 00-0297 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 5,436.28	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0298 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 6,702.53	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0299 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 8,962.76	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0300 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 10,114.69	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0301 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 11,901.71	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0302 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 16,177.27	742.65	
For Work In Restricted Working Space, Add 371.32		
27 15 23 00-0303 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 18,941.35	742.65	
For Work In Restricted Working Space, Add 371.32		
27 15 23 00-0304 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 20,860.48	742.65	
For Work In Restricted Working Space, Add 371.32		
27 15 23 00-0305 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 33,147.42	742.65	
For Work In Restricted Working Space, Add 371.32		
27 15 23 00-0306 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0285)		
27 15 23 00-0307 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 5,653.08	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0308 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 6,982.65	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0309 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 9,355.88	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0310 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 10,565.42	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0311 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 12,441.78	660.13	
For Work In Restricted Working Space, Add 330.06		
27 15 23 00-0312 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 16,924.25	742.65	
For Work In Restricted Working Space, Add 371.32		
27 15 23 00-0313 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 19,826.53	742.65	
For Work In Restricted Working Space, Add 371.32		
27 15 23 00-0314 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 21,841.61	742.65	
For Work In Restricted Working Space, Add 371.32		
27 15 23 00-0315 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed 34,742.90	742.65	
For Work In Restricted Working Space, Add 371.32		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0316		Hybrid, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0001) Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0317		Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0316)		
27 15 23 00-0318	MLF	6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,673.25	495.09
27 15 23 00-0319	MLF	12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,820.25	495.09
27 15 23 00-0320	MLF	24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	6,489.56	577.62
27 15 23 00-0321	MLF	48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	10,217.06	577.62
27 15 23 00-0322		Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0316)		
27 15 23 00-0323	MLF	6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,990.56	495.09
27 15 23 00-0324	MLF	12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,864.90	495.09
27 15 23 00-0325	MLF	24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	7,698.31	577.62
27 15 23 00-0326	MLF	48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	13,262.94	577.62
27 15 23 00-0327		Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0001) Note: Singlemode and multimode combination cable. For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0328		Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0327)		
27 15 23 00-0329	MLF	6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	1,948.30 330.06	660.13
27 15 23 00-0330	MLF	12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	3,095.30 330.06	660.13
27 15 23 00-0331	MLF	24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	6,764.61 371.32	742.65
27 15 23 00-0332	MLF	48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	10,492.11 371.32	742.65
27 15 23 00-0333		Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0327)		
27 15 23 00-0334	MLF	6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,265.61 330.06	660.13
27 15 23 00-0335	MLF	12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	3,139.95 330.06	660.13
27 15 23 00-0336	MLF	24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	7,973.36 371.32	742.65
27 15 23 00-0337	MLF	48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... For Work In Restricted Working Space, Add	13,537.99 371.32	742.65
27 15 23 00-0338		Outdoor Fiber Optic Cable (27 15 23) Note: Cable buried in trench excludes excavation.		
27 15 23 00-0339		Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0338) Note: Excludes conduit or innerduct.		
27 15 23 00-0340		Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0339)		
27 15 23 00-0341		Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0340)		
27 15 23 00-0342	MLF	2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,271.78 303.56	990.19
27 15 23 00-0343	MLF	4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,309.57 306.07	990.19
27 15 23 00-0344	MLF	6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,347.41 308.50	990.19
27 15 23 00-0345	MLF	8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,385.23 311.46	990.19
27 15 23 00-0346	MLF	12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,460.38 281.83	990.19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0347 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,614.09 314.00	990.19
27 15 23 00-0348 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,693.11 247.19	990.19
27 15 23 00-0349 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,717.48 288.93	990.19
27 15 23 00-0350 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,169.69 317.87	990.19
27 15 23 00-0351 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,419.00 317.84	990.19
27 15 23 00-0352 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,742.46 375.66	990.19
27 15 23 00-0353 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,311.91 360.67	990.19
27 15 23 00-0354 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,934.12 437.96	990.19
27 15 23 00-0355 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,585.31 293.17	990.19
27 15 23 00-0356 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0340)		
27 15 23 00-0357 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,033.08 -4.02	990.19
27 15 23 00-0358 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,111.57 41.21	990.19
27 15 23 00-0359 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,276.00 106.57	990.19
27 15 23 00-0360 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,500.23 -64.62	990.19
27 15 23 00-0361 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,593.66 -34.32	990.19
27 15 23 00-0362 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,911.33 -16.15	990.19
27 15 23 00-0363 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,584.02 -87.85	990.19
27 15 23 00-0364 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,574.38 0.01	990.19
27 15 23 00-0365 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,676.85 -200.97	990.19
27 15 23 00-0366 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,442.98 -100.97	990.19
27 15 23 00-0367 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,433.34 464.14	990.19
27 15 23 00-0368 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,731.72 -208.04	990.19
27 15 23 00-0369 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	13,011.41 -278.22	990.19
27 15 23 00-0370 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	15,291.10 -330.75	990.19
27 15 23 00-0371 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0340)		
27 15 23 00-0372 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,009.55 129.82	990.19
27 15 23 00-0373 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,134.36 139.21	990.19
27 15 23 00-0374 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,258.97 148.38	990.19
27 15 23 00-0375 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,412.92 168.92	990.19
27 15 23 00-0376 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,633.39 176.15	990.19
27 15 23 00-0377 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,023.17 187.73	990.19
27 15 23 00-0378 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,392.40 215.89	990.19
27 15 23 00-0379 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,099.06 239.91	990.19
27 15 23 00-0380 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,925.59 275.84	990.19
27 15 23 00-0381 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,689.00 296.82	990.19
27 15 23 00-0382 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,494.75 335.96	990.19
27 15 23 00-0383 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,124.39 377.74	990.19
27 15 23 00-0384 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,780.20 428.69	990.19
27 15 23 00-0385 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,461.57 393.78	990.19



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0386 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0386)		
27 15 23 00-0387 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0386)		
27 15 23 00-0388 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,488.20 239.89	990.19
27 15 23 00-0389 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,561.89 344.31	990.19
27 15 23 00-0390 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,584.01 329.97	990.19
27 15 23 00-0391 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,672.29 274.69	990.19
27 15 23 00-0392 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,699.84 328.30	990.19
27 15 23 00-0393 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,823.56 311.37	990.19
27 15 23 00-0394 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,934.49 315.06	990.19
27 15 23 00-0395 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,111.45 399.53	990.19
27 15 23 00-0396 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,360.76 404.75	990.19
27 15 23 00-0397 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,609.10 419.32	990.19
27 15 23 00-0398 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,945.80 360.69	990.19
27 15 23 00-0399 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	4,490.41 470.39	990.19
27 15 23 00-0400 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	5,202.91 463.18	990.19
27 15 23 00-0401 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	5,785.97 369.99	990.19
27 15 23 00-0402 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0386)		
27 15 23 00-0403 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,736.64 339.48	990.19
27 15 23 00-0404 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,994.64 190.11	990.19
27 15 23 00-0405 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,334.12 40.74	990.19
27 15 23 00-0406 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,497.06 67.90	990.19
27 15 23 00-0407 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,660.01 67.90	990.19
27 15 23 00-0408 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	4,040.22 81.47	990.19
27 15 23 00-0409 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	4,379.70 312.32	990.19
27 15 23 00-0410 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	5,112.96 611.06	990.19
27 15 23 00-0411 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	5,846.23 1,018.42	990.19
27 15 23 00-0412 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	6,457.29 1,120.27	990.19
27 15 23 00-0413 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	7,258.45 1,425.80	990.19
27 15 23 00-0414 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	8,928.66 2,104.74	990.19
27 15 23 00-0415 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	9,770.56 1,588.74	990.19
27 15 23 00-0416 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	11,929.62 3,870.02	990.19
27 15 23 00-0417 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0386)		
27 15 23 00-0418 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,093.83 162.94	990.19
27 15 23 00-0419 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,216.04 176.14	990.19
27 15 23 00-0420 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,338.05 189.33	990.19
27 15 23 00-0421 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,460.26 202.50	990.19
27 15 23 00-0422 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	2,776.83 217.81	990.19
27 15 23 00-0423 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,087.27 255.23	990.19
27 15 23 00-0424 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... For Corrugated Coated Steel Tape Armored Cable, Add	3,467.65 277.23	990.19

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0425 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,203.92 342.53	990.19
27 15 23 00-0426 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,953.95 392.45	990.19
27 15 23 00-0427 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,706.57 437.01	990.19
27 15 23 00-0428 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,497.94 487.33	990.19
27 15 23 00-0429 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,103.82 574.63	990.19
27 15 23 00-0430 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,176.57 594.03	990.19
27 15 23 00-0431 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,391.28 613.23	990.19
27 15 23 00-0432 Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0338) Note: Excludes trenching.		
27 15 23 00-0433 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0432)		
27 15 23 00-0434 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0433)		
27 15 23 00-0435 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,134.25 303.56	
27 15 23 00-0436 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,172.04 306.07	
27 15 23 00-0437 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,209.88 308.50	
27 15 23 00-0438 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,247.70 311.46	
27 15 23 00-0439 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,322.85 281.83	
27 15 23 00-0440 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,476.56 314.00	
27 15 23 00-0441 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,555.58 247.19	
27 15 23 00-0442 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,579.95 288.93	
27 15 23 00-0443 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,032.16 317.87	
27 15 23 00-0444 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,599.31 317.84	
27 15 23 00-0445 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,980.60 375.66	
27 15 23 00-0446 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,174.38 360.67	
27 15 23 00-0447 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,796.59 437.96	
27 15 23 00-0448 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,447.78 293.17	
27 15 23 00-0449 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0433)		
27 15 23 00-0450 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,895.55 -4.02	
27 15 23 00-0451 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,974.04 41.21	
27 15 23 00-0452 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,138.47 106.57	
27 15 23 00-0453 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,362.70 -64.62	
27 15 23 00-0454 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,456.13 -34.32	
27 15 23 00-0455 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,773.80 -16.15	
27 15 23 00-0456 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,446.49 -87.85	
27 15 23 00-0457 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,436.85 0.01	
27 15 23 00-0458 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,539.32 -200.97	
27 15 23 00-0459 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,305.45 -100.97	
27 15 23 00-0460 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,295.81 464.14	
27 15 23 00-0461 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,594.19 -208.04	
27 15 23 00-0462 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,873.88 -278.22	
27 15 23 00-0463 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	15,153.57 -330.75	



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0464		62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0433)		
27 15 23 00-0465	MLF	2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,872.02 129.82	
27 15 23 00-0466	MLF	4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,996.83 139.21	
27 15 23 00-0467	MLF	6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,121.44 148.38	
27 15 23 00-0468	MLF	8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,275.39 168.92	
27 15 23 00-0469	MLF	12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,495.86 176.15	
27 15 23 00-0470	MLF	18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,885.64 187.73	
27 15 23 00-0471	MLF	24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,254.87 215.89	
27 15 23 00-0472	MLF	36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,961.53 239.91	
27 15 23 00-0473	MLF	48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,788.06 275.84	
27 15 23 00-0474	MLF	60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,551.47 296.82	
27 15 23 00-0475	MLF	72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,357.22 335.96	
27 15 23 00-0476	MLF	96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,986.86 377.74	
27 15 23 00-0477	MLF	120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,642.67 428.69	
27 15 23 00-0478	MLF	144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,324.04 393.78	
27 15 23 00-0479		Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0432)		
27 15 23 00-0480		Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0479)		
27 15 23 00-0481	MLF	2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,350.67 239.89	
27 15 23 00-0482	MLF	4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,424.36 344.31	
27 15 23 00-0483	MLF	6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,446.48 329.97	
27 15 23 00-0484	MLF	8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,534.76 274.69	
27 15 23 00-0485	MLF	12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,562.31 328.30	
27 15 23 00-0486	MLF	18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,686.03 311.37	
27 15 23 00-0487	MLF	24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,796.96 315.06	
27 15 23 00-0488	MLF	36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,973.92 399.53	
27 15 23 00-0489	MLF	48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,223.23 404.75	
27 15 23 00-0490	MLF	60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,471.57 419.32	
27 15 23 00-0491	MLF	72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,808.27 360.69	
27 15 23 00-0492	MLF	96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,352.88 470.39	
27 15 23 00-0493	MLF	120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,065.38 463.18	
27 15 23 00-0494	MLF	144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,648.44 369.99	
27 15 23 00-0495		50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0479)		
27 15 23 00-0496	MLF	2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,599.11 339.48	
27 15 23 00-0497	MLF	4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,857.11 190.11	
27 15 23 00-0498	MLF	6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,196.59 40.74	
27 15 23 00-0499	MLF	8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,359.53 67.90	
27 15 23 00-0500	MLF	12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,522.48 67.90	
27 15 23 00-0501	MLF	18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,902.69 81.47	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0502 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,242.17 312.32	
27 15 23 00-0503 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,975.43 611.06	
27 15 23 00-0504 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,708.70 1,018.42	
27 15 23 00-0505 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,319.76 1,120.27	
27 15 23 00-0506 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,120.92 1,425.80	
27 15 23 00-0507 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,791.13 2,104.74	
27 15 23 00-0508 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,633.03 1,588.74	
27 15 23 00-0509 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,792.09 3,870.02	
27 15 23 00-0510 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0479)		
27 15 23 00-0511 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,956.30 162.94	
27 15 23 00-0512 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,078.51 176.14	
27 15 23 00-0513 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,200.52 189.33	
27 15 23 00-0514 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,322.73 202.50	
27 15 23 00-0515 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,639.30 217.81	
27 15 23 00-0516 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,949.74 255.23	
27 15 23 00-0517 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,330.12 277.23	
27 15 23 00-0518 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,066.39 342.53	
27 15 23 00-0519 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,816.42 392.45	
27 15 23 00-0520 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,569.04 437.01	
27 15 23 00-0521 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,360.41 487.33	
27 15 23 00-0522 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,966.29 574.63	
27 15 23 00-0523 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,677.21 594.03	
27 15 23 00-0524 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,253.75 613.23	
27 15 23 00-0525 (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0338)		
27 15 23 00-0526 Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0525)		
27 15 23 00-0527 Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0526)		
27 15 23 00-0528 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,418.35 203.03	3,583.64
27 15 23 00-0529 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,455.90 208.29	3,583.64
27 15 23 00-0530 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,493.94 213.41	3,583.64
27 15 23 00-0531 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,531.50 209.32	3,583.64
27 15 23 00-0532 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,606.64 244.03	3,583.64
27 15 23 00-0533 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,755.00 253.70	3,583.64
27 15 23 00-0534 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,868.15 280.41	3,583.64
27 15 23 00-0535 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,137.18 268.86	3,583.64
27 15 23 00-0536 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,372.45 312.36	3,583.64
27 15 23 00-0537 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,566.94 299.53	3,583.64
27 15 23 00-0538 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,809.56 342.45	3,583.64
27 15 23 00-0539 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,446.32 347.81	3,583.64
27 15 23 00-0540 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	13,129.49 415.03	3,583.64



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

27

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0541	MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	13,293.27 445.65	3,583.64
27 15 23 00-0542	Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0338) Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0543	Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0542)		
27 15 23 00-0544	MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,273.43	825.16
27 15 23 00-0545	MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	5,372.80	825.16
27 15 23 00-0546	MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	7,821.81	825.16
27 15 23 00-0547	Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0542)		
27 15 23 00-0548	MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	5,675.62	825.16
27 15 23 00-0549	MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	6,300.38	825.16
27 15 23 00-0550	MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	9,033.24	825.16
27 15 23 00-0551	Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0338) Note: Singlemode and multimode combination cable. Excludes trenching.		
27 15 23 00-0552	Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0551)		
27 15 23 00-0553	MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	4,135.90	756.39
27 15 23 00-0554	MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	5,235.27	756.39
27 15 23 00-0555	MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	7,684.28	756.39
27 15 23 00-0556	Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0551)		
27 15 23 00-0557	MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	5,538.09	756.39
27 15 23 00-0558	MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	6,162.85	756.39
27 15 23 00-0559	MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	8,895.71	756.39
27 15 33	Communications Coaxial Horizontal Cabling (27 15) Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 33 00-0001	Indoor Coaxial Cable (27 15 33)		
27 15 33 00-0002	Coaxial, Indoor Telecommunications Cable (27 15 33 00-0001)		
27 15 33 00-0003	Coaxial, Indoor Telecommunications Cable, Installed In Conduit (27 15 33 00-0002)		
27 15 33 00-0004	MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108)	1,963.39	577.62
27 15 33 00-0005	MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108)	4,817.71	577.62
27 15 33 00-0006	MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114)	1,582.09	660.13
27 15 33 00-0007	MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120)	6,079.62	660.13
27 15 33 00-0008	Coaxial, Indoor Telecommunications Cable, Installed Exposed (27 15 33 00-0002)		
27 15 33 00-0009	MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108)	2,926.07	1,155.22
	<i>For Work In Restricted Working Space, Add</i>	577.61	
27 15 33 00-0010	MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108)	5,780.39	1,155.22
	<i>For Work In Restricted Working Space, Add</i>	577.61	
27 15 33 00-0011	MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114)	2,682.31	1,320.25
	<i>For Work In Restricted Working Space, Add</i>	660.13	
27 15 33 00-0012	MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120)	7,179.84	1,320.25
	<i>For Work In Restricted Working Space, Add</i>	660.13	
27 15 33 00-0013	Coaxial Distribution Cable (27 15 33 00-0001) Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal. For tasks installed in conduit, tasks exclude conduit.		
27 15 33 00-0014	MLF RG-6/U Coaxial Distribution Cable, Installed In Conduit	3,314.24	402.10
27 15 33 00-0015	MLF RG-6A/U Coaxial Distribution Cable, Installed In Conduit	12,915.82	402.10
27 15 33 00-0016	MLF RG-8/U Coaxial Distribution Cable, Installed In Conduit	6,676.75	424.71
27 15 33 00-0017	MLF RG-8A/U Coaxial Distribution Cable, Installed In Conduit	8,480.34	424.71
27 15 33 00-0018	MLF RG-11/U Coaxial Distribution Cable, Installed In Conduit	7,467.15	502.61
27 15 33 00-0019	MLF RG-11A/U Coaxial Distribution Cable, Installed In Conduit	10,955.15	502.61
27 15 33 00-0020	MLF RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed	23,927.97	703.66
27 15 33 00-0021	MLF RG-58/U Coaxial Distribution Cable, Installed In Conduit	2,410.92	351.84
27 15 33 00-0022	MLF RG-58A/U Coaxial Distribution Cable, Installed In Conduit	2,768.31	351.84
27 15 33 00-0023	MLF RG-58C/U Coaxial Distribution Cable, Installed In Conduit	3,397.88	351.84
27 15 33 00-0024	MLF RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed	8,389.73	703.66

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 33 00-0025 MLF RG-59/U Coaxial Distribution Cable, Installed In Conduit.....	4,080.63	351.84
27 15 33 00-0026 MLF RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	10,262.95	703.66
27 15 33 00-0027 MLF 1/2" Hard Line Coaxial, Installed In Conduit	3,291.79	502.61
27 15 33 00-0028 Outdoor Coaxial Cable (27 15 33)		
27 15 33 00-0029 Coaxial Cables "Television" Copper Covered Aluminum Center Core (27 15 33 00-0028)		
Note: Corrugated steel armor jacket.		
27 15 33 00-0030 MLF TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	8,677.27	1,881.30
27 15 33 00-0031 MLF TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial.....	5,346.74	1,323.27
27 15 33 00-0032 MLF TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial.....	4,822.72	780.70
27 15 33 00-0033 MLF TV Coaxial Cable Drop 1/4" Diameter, Direct Burial.....	2,319.22	780.70
27 15 33 00-0034 MLF 1/4" Diameter, TV Coaxial Cable Drop, Installed In Conduit	3,417.13	1,219.86
27 15 43 Communications Faceplates and Connectors (27 15)		
27 15 43 00-0001 Wall Mounted Telephone Faceplates (27 15 43)		
Note: Includes standard telephone mounting studs.		
27 15 43 00-0002 Plastic Faceplates For Wall Mounted Telephones (27 15 43 00-0001)		
27 15 43 00-0003 EA Single Gang, 6-Position RJ25 Jack, Flush, Plastic Faceplate For Wall Mounted Telephones.....	43.44	17.19
27 15 43 00-0004 Stainless Steel Faceplates For Wall Mounted Telephones (27 15 43 00-0001)		
27 15 43 00-0005 EA Single Gang, Keystone Opening, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	40.50	6.87
Note: Requires one snap-in modular jack.		
27 15 43 00-0006 EA Single Gang, 6-Position RJ25 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	70.49	17.19
27 15 43 00-0007 EA Single Gang, 8-Position RJ45 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	82.06	20.63
27 15 43 00-0008 EA Single Gang, Keystone Opening, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	38.93	6.87
Note: Requires one snap-in modular jack.		
27 15 43 00-0009 EA Single Gang, 6-Position RJ25 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones	63.90	17.19
27 15 43 00-0010 EA Single Gang, 8-Position RJ45 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones	75.64	20.63
27 15 43 00-0011 Plastic Communications Faceplates (27 15 43)		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0012 EA One Port, Single Gang, Plastic Communication Faceplate With Station ID	11.18	3.44
27 15 43 00-0013 EA Two Port, Single Gang, Plastic Communication Faceplate With Station ID	11.18	3.44
27 15 43 00-0014 EA Three Port, Single Gang, Plastic Communication Faceplate With Station ID	11.18	3.44
27 15 43 00-0015 EA Four Port, Single Gang, Plastic Communication Faceplate With Station ID	11.18	3.44
27 15 43 00-0016 EA Six Port, Single Gang, Plastic Communication Faceplate With Station ID	11.18	3.44
27 15 43 00-0017 EA Four Port, Double Gang, Plastic Communications Faceplate With Station ID	18.47	3.44
27 15 43 00-0018 EA Six Port, Double Gang, Plastic Communication Faceplate With Station ID	18.47	3.44
27 15 43 00-0019 EA Eight Port, Double Gang, Plastic Communication Faceplate With Station ID	18.47	3.44
27 15 43 00-0020 EA Nine Port, Double Gang, Plastic Communication Faceplate With Station ID	18.47	3.44
27 15 43 00-0021 EA Twelve Port, Double Gang, Plastic Communication Faceplate With Station ID	18.47	3.44
27 15 43 00-0022 Stainless Steel Communications Faceplates (27 15 43)		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0023 Stainless Steel Communications Faceplates (27 15 43 00-0022)		
27 15 43 00-0024 EA One Port, Single Gang, Stainless Steel Communications Faceplate.....	21.59	3.44
27 15 43 00-0025 EA Two Port, Single Gang, Stainless Steel Communications Faceplate.....	21.59	3.44
27 15 43 00-0026 EA Three Port, Single Gang, Stainless Steel Communications Faceplate	21.59	3.44
27 15 43 00-0027 EA Four Port, Single Gang, Stainless Steel Communications Faceplate	23.11	3.44
27 15 43 00-0028 EA Six Port, Single Gang, Stainless Steel Communications Faceplate.....	23.11	3.44
27 15 43 00-0029 EA Four Port, Double Gang, Stainless Steel Communications Faceplate.....	31.33	3.44
27 15 43 00-0030 EA Six Port, Double Gang, Stainless Steel Communications Faceplate	32.28	3.44
27 15 43 00-0031 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate	37.44	3.44
27 15 43 00-0032 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate.....	37.44	3.44
27 15 43 00-0033 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate.....	37.44	3.44
27 15 43 00-0034 Stainless Steel Communications Faceplates With Station ID (27 15 43 00-0022)		
27 15 43 00-0035 EA One Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	31.13	3.44
27 15 43 00-0036 EA Two Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	31.13	3.44
27 15 43 00-0037 EA Three Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	31.13	3.44
27 15 43 00-0038 EA Four Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	31.13	3.44
27 15 43 00-0039 EA Six Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	31.13	3.44
27 15 43 00-0040 EA Four Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	67.61	3.44
27 15 43 00-0041 EA Six Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	67.61	3.44
27 15 43 00-0042 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	67.61	3.44
27 15 43 00-0043 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate With Station ID	67.61	3.44
27 15 43 00-0044 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	67.61	3.44
27 15 43 00-0045 Surface Mount Plastic Communication Boxes (27 15 43)		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0046 EA One Port, Surface Mount Plastic Communication Box With Station ID	39.87	17.22



Communications			27
Structured Cabling			27 10
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 43 00-0047 EA Two Port, Surface Mount Plastic Communication Box With Station ID	40.83	17.22
27 15 43 00-0048 EA Four Port, Surface Mount Plastic Communication Box With Station ID	47.42	17.22
27 15 43 00-0049 EA Six Port, Surface Mount Plastic Communication Box With Station ID	55.25	17.22
27 15 43 00-0050 EA Twelve Port, Surface Mount Plastic Communication Box With Station ID	63.46	17.22
27 15 43 00-0051 Snap-In Modular Jacks (27 15 43) Note: Includes termination.		
27 15 43 00-0052 EA Cat 3, Snap-In Modular Jack	38.43	13.78
27 15 43 00-0053 EA Category 5E, Snap-In Modular Jack	40.53	13.78
27 15 43 00-0054 EA Category 5E Shielded, Snap-In Modular Jack	46.83	13.78
27 15 43 00-0055 EA Cat 6, Snap-In Modular Jack	46.83	13.78
27 15 43 00-0056 EA Cat 6 Shielded, Snap-In Modular Jack	53.90	13.78
27 15 43 00-0057 EA Cat 6A, Snap-In Modular Jack	54.96	13.78
27 15 43 00-0058 EA Voice, RJ-11, Snap-In Modular Jack	27.07	6.88
27 15 43 00-0059 EA SC Type Fiber Optic, Snap-In Modular Jack	43.20	13.78
27 15 43 00-0060 EA ST Type Fiber Optic, Snap-In Modular Jack	48.55	13.78
27 15 43 00-0061 EA LC Type Fiber Optic, Snap-In Modular Jack	59.05	13.78
27 15 43 00-0062 EA Blank Fill In, Snap-In Modular Jack	7.87	3.44
27 15 43 00-0063 EA Open Cable Pass Through Insert, Snap-In Modular Jack	9.22	3.44
27 15 43 00-0064 EA Coaxial F-Type Coupler, Snap-In Modular Jack	32.31	10.32
Note: Includes female to female connection.		
For Gold Bulkhead, Add	2.04	
27 15 43 00-0065 EA RCA Jack Pass-Through Coupler, Snap-In Modular Jack	32.69	10.32
Note: Includes female to female connection.		
27 15 43 00-0066 EA RCA Solder Coupler, Snap-In Modular Jack	64.07	13.78
27 15 43 00-0067 EA RCA Jack With 110 Punch Down, Snap-In Modular Jack	79.54	13.78
27 15 43 00-0068 EA 3.5 m Mini Stereo Jack, Snap-In Modular Jack	39.95	13.78
27 15 43 00-0069 EA MT-RJ Pass-Through Coupler, Snap-In Modular Jack	43.34	6.88
27 15 43 00-0070 EA BNC Connector, Snap-In Modular Jack	46.26	13.78
27 15 43 00-0071 EA S-Video With 110 Punch Down, Snap-In Modular Jack	51.99	13.78
27 15 43 00-0072 PR Speaker Connectors, Snap-In Modular Jack	69.57	20.66
Note: Includes a pair of binding posts, banana jacks or spring clip connectors. Requires two open ports.		
27 15 43 00-0073 EA USB Audio Video Connector, Snap-In Modular Jack	78.34	13.78
27 15 53 Communications Cable Innerduct (27 15) Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 53 00-0001 Indoor Innerduct (27 15 53)		
27 15 53 00-0002 Indoor Innerduct, Installed In Conduit (27 15 53 00-0001)		
27 15 53 00-0003 Riser Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)		
27 15 53 00-0004 MLF 1" Riser Rated, Indoor Innerduct, Installed In Conduit	5,391.22	2,062.90
27 15 53 00-0005 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed In Conduit	6,981.87	2,750.53
27 15 53 00-0006 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed In Conduit	9,272.55	3,438.16
27 15 53 00-0007 MLF 2" Riser Rated, Indoor Innerduct, Installed In Conduit	10,836.27	4,125.80
27 15 53 00-0008 Plenum Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)		
27 15 53 00-0009 MLF 3/4" Plenum Rated, Indoor Innerduct, Installed In Conduit	7,899.25	1,375.27
27 15 53 00-0010 MLF 1" Plenum Rated, Indoor Innerduct, Installed In Conduit	8,851.56	2,062.90
27 15 53 00-0011 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed In Conduit	11,192.08	2,750.53
27 15 53 00-0012 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed In Conduit	14,377.21	3,438.16
27 15 53 00-0013 MLF 2" Plenum Rated, Indoor Innerduct, Installed In Conduit	17,300.91	4,125.80
27 15 53 00-0014 Indoor Innerduct, Installed Exposed (27 15 53 00-0001)		
27 15 53 00-0015 Riser Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)		
27 15 53 00-0016 MLF 1" Riser Rated, Indoor Innerduct, Installed Exposed	6,766.48	2,750.53
For Work In Restricted Working Space, Add	1,650.32	
27 15 53 00-0017 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed Exposed	8,357.14	3,438.16
For Work In Restricted Working Space, Add	2,062.90	
27 15 53 00-0018 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed Exposed	10,647.81	4,125.80
For Work In Restricted Working Space, Add	2,475.48	
27 15 53 00-0019 MLF 2" Riser Rated, Indoor Innerduct, Installed Exposed	12,211.53	4,813.43
For Work In Restricted Working Space, Add	2,888.06	
27 15 53 00-0020 Plenum Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)		
27 15 53 00-0021 MLF 3/4" Plenum Rated, Indoor Innerduct, Installed Exposed	9,274.52	2,062.90
27 15 53 00-0022 MLF 1" Plenum Rated, Indoor Innerduct, Installed Exposed	10,226.82	2,750.53
For Work In Restricted Working Space, Add	1,650.32	
27 15 53 00-0023 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed Exposed	12,567.35	3,438.16
For Work In Restricted Working Space, Add	2,062.90	
27 15 53 00-0024 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed Exposed	15,752.47	4,125.80
For Work In Restricted Working Space, Add	2,475.48	
27 15 53 00-0025 MLF 2" Plenum Rated, Indoor Innerduct, Installed Exposed	18,676.17	4,813.43
For Work In Restricted Working Space, Add	2,888.06	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
27 15 53 00-0026	Outdoor Innerduct (27 15 53)				
27 15 53 00-0027	Outdoor Innerduct, Installed In Conduit (27 15 53 00-0026)				
27 15 53 00-0028	MLF 1" Outdoor Innerduct, Installed In Conduit	5,068.13		2,062.90	
27 15 53 00-0029	MLF 1-1/4" Outdoor Innerduct, Installed In Conduit	6,505.43		2,750.53	
27 15 53 00-0030	MLF 1-1/2" Outdoor Innerduct, Installed In Conduit	8,309.21		3,438.16	
27 15 53 00-0031	MLF 2" Outdoor Innerduct, Installed In Conduit	9,924.63		4,125.80	
27 15 53 00-0032	Outdoor Innerduct, Buried In Trench (27 15 53 00-0026)				
27 15 53 00-0033	MLF 1" Outdoor Innerduct, Buried In Trench	3,692.86			
27 15 53 00-0034	MLF 1-1/4" Outdoor Innerduct, Buried In Trench	5,130.17			
27 15 53 00-0035	MLF 1-1/2" Outdoor Innerduct, Buried In Trench	6,933.94			
27 15 53 00-0036	MLF 2" Outdoor Innerduct, Buried In Trench	8,549.37			
27 16 Communications Connecting Cords, Devices, and Adapters (27 16)					
27 16 16 Communications Media Converters, Adapters, and Transceivers (27 16)					
27 16 16 00-0001	Fiber Optic Receivers (27 16 16)				
27 16 16 00-0002	EA Fiber Optic Receiver, Range 6.2 Miles	1,324.56		68.76	
27 16 16 00-0003	Fiber Optic Transmitters (27 16 16)				
27 16 16 00-0004	EA Fiber Optic Transmitter, Range 6.2 Miles	1,324.55		68.76	
27 16 16 00-0005	Fiber Optic Repeaters (27 16 16)				
	Note: Consist of transmitter and receiver, back-to-back. Excludes power source.				
27 16 16 00-0006	EA Fiber Optic Repeater, 6.2 Miles Transmitter And Receiver Back-Back, No Power	1,462.08		137.53	
27 16 16 00-0007	EA Fiber Optic Digital Repeater, 2,000 Miles Transmitter And Receiver Back-Back, No Power	2,262.04		275.06	
27 16 16 00-0008	Fiber Optic Transceivers (27 16 16)				
27 16 16 00-0009	EA Fiber Optic Transceivers, 3,000 Miles Range	1,456.85		275.06	
27 16 16 00-0010	EA Fiber Optic Transceivers, Digital 2,000 Miles Range	1,456.85		275.06	
27 16 16 00-0011	EA Fiber Optic Ethernet Transceiver	1,927.11		412.58	
27 16 16 00-0012	EA Transceiver (Low Cost Bi- Directional).....	729.28		103.14	
27 16 19 Communications Patch Cords, Station Cords, and Cross Connect Wire (27 16)					
27 16 19 00-0001	Cross Connect Wire (27 16 19)				
	Note: Up to 20' length.				
27 16 19 00-0002	EA 2-Pair Cross Connect Wire	22.12			
27 16 19 00-0003	EA 3-Pair Cross Connect Wire	29.63			
27 16 19 00-0004	EA 4-Pair Cross Connect Wire	37.06			
27 16 19 00-0005	Fiber Optic Patch Cords (27 16 19)				
27 16 19 00-0006	Simplex Fiber Optic Patch Cables (27 16 19 00-0005)				
27 16 19 00-0007	Singlemode, Simplex Fiber Optic Patch Cables (27 16 19 00-0006)				
27 16 19 00-0008	EA ST To ST Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	59.94			
	For Each Additional Meter In Length, Add	0.26			
27 16 19 00-0009	EA ST To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	48.78			
	For Each Additional Meter In Length, Add	0.26			
27 16 19 00-0010	EA ST To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	63.28			
	For Each Additional Meter In Length, Add	0.26			
27 16 19 00-0011	EA SC To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	51.33			
	For Each Additional Meter In Length, Add	0.26			
27 16 19 00-0012	EA SC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	59.47			
	For Each Additional Meter In Length, Add	0.26			
27 16 19 00-0013	EA LC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	58.57			
	For Each Additional Meter In Length, Add	0.26			
27 16 19 00-0014	Duplex Fiber Optic Patch Cables (27 16 19 00-0005)				
27 16 19 00-0015	Singlemode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)				
27 16 19 00-0016	EA ST To ST Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	104.77			
	For Each Additional Meter In Length, Add	0.51			
27 16 19 00-0017	EA ST To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	101.63			
	For Each Additional Meter In Length, Add	0.51			
27 16 19 00-0018	EA ST To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	112.81			
	For Each Additional Meter In Length, Add	0.51			
27 16 19 00-0019	EA SC To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	87.59			
	For Each Additional Meter In Length, Add	0.51			



Communications			27
Structured Cabling			27 10
Communications Connecting Cords, Devices, and Adapters			27 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 19 00-0020	EA		SC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	103.84	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0021	EA		LC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	102.07	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0022 Multimode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)					
27 16 19 00-0023	EA		ST To ST Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	78.99	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0024	EA		ST To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	86.28	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0025	EA		ST To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	87.03	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0026	EA		ST To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	89.37	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0027	EA		SC To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	79.30	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0028	EA		SC To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	89.78	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0029	EA		SC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	105.60	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0030	EA		MTRJ To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	72.58	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0031	EA		LC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	88.42	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0032 Fiber Optic Cable Pig Tail (27 16 19)					
27 16 19 00-0033	EA		Simplex Fiber Optic Cable Pig Tail	94.33	48.13
27 16 19 00-0034	EA		Duplex Fiber Optic Cable Pig Tail.....	120.78	48.13
27 16 19 00-0035 Ethernet Patch Cords (27 16 19)					
27 16 19 00-0036	EA		3' Category 5E Patch Cables With Boots.....	17.15	
27 16 19 00-0037	EA		5' Category 5E Patch Cables With Boots.....	18.67	
27 16 19 00-0038	EA		7' Category 5E Patch Cables With Boots.....	20.20	
27 16 19 00-0039	EA		10' Category 5E Patch Cables With Boots.....	29.42	
27 16 19 00-0040	EA		15' Category 5E Patch Cables With Boots.....	37.02	
27 16 19 00-0041	EA		25' Category 5E Patch Cables With Boots.....	48.61	
27 16 19 00-0042	EA		3' Category 6 Patch Cables With Boots.....	18.96	
27 16 19 00-0043	EA		5' Category 6 Patch Cables With Boots.....	22.82	
27 16 19 00-0044	EA		7' Category 6 Patch Cables With Boots.....	22.89	
27 16 19 00-0045	EA		10' Category 6 Patch Cables With Boots.....	27.58	
27 16 19 00-0046	EA		15' Category 6 Patch Cables With Boots.....	36.44	
27 16 19 00-0047	EA		25' Category 6 Patch Cables With Boots.....	45.47	
27 16 19 00-0048	EA		50' Category 6 Patch Cables With Boots.....	70.89	
27 16 19 00-0049	EA		100' Category 6 Patch Cables With Boots.....	123.39	
27 16 19 00-0050	EA		3' Category 6A Patch Cables With Boots.....	22.62	
27 16 19 00-0051	EA		5' Category 6A Patch Cables With Boots.....	23.92	
27 16 19 00-0052	EA		7' Category 6A Patch Cables With Boots.....	24.89	
27 16 19 00-0053	EA		10' Category 6A Patch Cables With Boots.....	29.79	
27 16 19 00-0054	EA		15' Category 6A Patch Cables With Boots.....	36.80	
27 16 19 00-0055	EA		25' Category 6A Patch Cables With Boots.....	45.18	
27 16 19 00-0056	EA		50' Category 6A Patch Cables With Boots.....	63.99	
27 16 19 00-0057	EA		100' Category 6A Patch Cables With Boots.....	111.35	
27 16 19 00-0058	EA		3' Category 5E Patch Cables With Plastic Arch.....	17.15	
27 16 19 00-0059	EA		5' Category 5E Patch Cables With Plastic Arch.....	18.67	
27 16 19 00-0060	EA		7' Category 5E Patch Cables With Plastic Arch.....	20.20	
27 16 19 00-0061	EA		10' Category 5E Patch Cables With Plastic Arch.....	29.42	
27 16 19 00-0062	EA		15' Category 5E Patch Cables With Plastic Arch.....	37.02	
27 16 19 00-0063	EA		25' Category 5E Patch Cables With Plastic Arch.....	48.61	
27 16 19 00-0064	EA		3' Category 6 Patch Cables With Plastic Arch.....	18.96	
27 16 19 00-0065	EA		5' Category 6 Patch Cables With Plastic Arch.....	22.82	
27 16 19 00-0066	EA		7' Category 6 Patch Cables With Plastic Arch.....	22.89	
27 16 19 00-0067	EA		10' Category 6 Patch Cables With Plastic Arch.....	27.58	
27 16 19 00-0068	EA		15' Category 6 Patch Cables With Plastic Arch.....	36.44	
27 16 19 00-0069	EA		25' Category 6 Patch Cables With Plastic Arch.....	45.47	
27 16 19 00-0070	EA		3' Category 6A Patch Cables With Plastic Arch.....	34.66	
27 16 19 00-0071	EA		5' Category 6A Patch Cables With Plastic Arch.....	36.96	
27 16 19 00-0072	EA		7' Category 6A Patch Cables With Plastic Arch.....	38.68	
27 16 19 00-0073	EA		10' Category 6A Patch Cables With Plastic Arch.....	44.69	
27 16 19 00-0074	EA		15' Category 6A Patch Cables With Plastic Arch.....	54.43	
27 16 19 00-0075	EA		25' Category 6A Patch Cables With Plastic Arch.....	69.23	
27 16 19 00-0076	EA		3' Length, Category 6, Exterior Grade Patch Cable With Boots.....	72.04	
27 16 19 00-0077	EA		5' Length, Category 6, Exterior Grade Patch Cable With Boots.....	80.02	
27 16 19 00-0078	EA		7' Length, Category 6, Exterior Grade Patch Cable With Boots.....	88.00	
27 16 19 00-0079	EA		10' Length, Category 6, Exterior Grade Patch Cable With Boots.....	103.40	
27 16 19 00-0080	EA		15' Length, Category 6, Exterior Grade Patch Cable With Boots.....	126.81	
27 16 19 00-0081	EA		25' Length, Category 6, Exterior Grade Patch Cable With Boots.....	166.70	
27 16 19 00-0082	EA		50' Length, Category 6, Exterior Grade Patch Cable With Boots.....	266.43	
27 16 19 00-0083	EA		100' Length, Category 6, Exterior Grade Patch Cable With Boots.....	472.78	

27 Communications**27 10 Structured Cabling****27 16 Communications Connecting Cords, Devices, and Adapters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 19 00-0084 EA 3' Length, Category 6, Exterior Grade Patch Cable With Industrial Plug One Side (Leviton® Duraport®).....	112.30	
Note: Includes an industrial twist lock plug on one end and a standard RJ45 plug on the other end.		
27 16 19 00-0085 EA 5' Length, Category 6, Exterior Grade Patch Cable With Industrial Plug One Side (Leviton® Duraport®).....	120.78	
Note: Includes an industrial twist lock plug on one end and a standard RJ45 plug on the other end.		
27 16 19 00-0086 EA 7' Length, Category 6, Exterior Grade Patch Cable With Industrial Plug One Side (Leviton® Duraport®).....	129.23	
Note: Includes an industrial twist lock plug on one end and a standard RJ45 plug on the other end.		
27 16 19 00-0087 EA 10' Length, Category 6, Exterior Grade Patch Cable With Industrial Plug One Side (Leviton® Duraport®).....	138.41	
Note: Includes an industrial twist lock plug on one end and a standard RJ45 plug on the other end.		
27 16 19 00-0088 EA 15' Length, Category 6, Exterior Grade Patch Cable With Industrial Plug One Side (Leviton® Duraport®).....	150.04	
Note: Includes an industrial twist lock plug on one end and a standard RJ45 plug on the other end.		
27 16 19 00-0089 EA 20' Length, Category 6, Exterior Grade Patch Cable With Industrial Plug One Side (Leviton® Duraport®).....	158.42	
Note: Includes an industrial twist lock plug on one end and a standard RJ45 plug on the other end.		

27 20 Data Communications ⁽²⁷⁾**27 21 Data Communications Network Equipment** ^(27 20)

Note: Includes testing of new devices and certification.

27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems

27 21 16 00-0001 Fiber Optic Modems ^(27 21 16)		
27 21 16 00-0002 EA Fiber Optic Modems, Range 6.2 Miles.....	2,528.46	275.06
27 21 16 00-0003 EA Fiber Optic Modem, Range 3.1 Miles, 12 Channel	5,001.41	275.06
27 21 16 00-0004 Ethernet Hubs and Switches ^(27 21 16)		
27 21 16 00-0005 EA 16 Port Managed Hub With Fiberport And Standard Management.....	4,369.23	206.59
27 21 16 00-0006 EA 16 Port Unmanaged Hub	718.16	137.73
27 21 16 00-0007 EA 12 Port, Industrial Ethernet Switch (Cisco IE-4000-4GC4GP4G-E).....	6,007.59	137.73
27 21 16 00-0008 EA Power Supply (Cisco PWR-IE170W-PC-AC).....	1,780.76	68.86
27 21 16 00-0009 Network Equipment ^(27 21 16)		
27 21 16 00-0010 Communications Entrance Protection ^(27 21 16 00-0009)		
27 21 16 00-0011 EA 100-Pair, 5 Pin Configuration, 110 Termination, Building Entrance Terminal With Cover (Porta 24100-110-M110C).....	1,248.36	103.29
Note: Excludes terminations.		
27 21 16 00-0012 EA Solid State Protector Module With 4 OHM Heat Coils (CommScope 4C1S)	15.07	1.37
27 21 16 00-0013 Communications Cabinets, Racks, Frames And Enclosures ^(27 21 16 00-0009)		
27 21 16 00-0014 EA 19" Width x 36" Height x 24" Depth, Wall Mounted Telecommunications Enclosure (Chatsworth 11840-736).....	1,515.11	103.29
For Fan Kit (Chatsworth 12804-701), Add	210.20	
27 21 16 00-0015 EA 10 Outlet, 125 Volt, 20 Amperes, Telecommunications Cabinet Power Strip (Chatsworth 13239-757).....	1,379.81	6.88
27 21 16 00-0016 Communications Termination Blocks And Patch Panels ^(27 21 16 00-0009)		
27 21 16 00-0017 Communications Termination Blocks ^(27 21 16 00-0016)		
27 21 16 00-0018 EA 4-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058810).....	330.45	20.63
27 21 16 00-0019 EA 5-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058802).....	308.06	20.63
27 21 16 00-0020 EA 4-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058869).....	727.83	20.63
27 21 16 00-0021 EA 5-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058851).....	677.46	20.63
27 21 16 00-0022 EA 110 Connector System Mounting Brackets (CommScope 107535593).....	108.80	20.63
27 21 16 00-0023 EA 110 Connector System Mounting Brackets (CommScope 107535585).....	116.93	20.63
27 21 16 00-0024 EA 110 Connector System Mounting Brackets (CommScope 107098816).....	132.16	20.63
27 21 16 00-0025 Communications Copper Patch Panels ^(27 21 16 00-0016)		
Note: Excludes cabinet and terminations.		
27 21 16 00-0026 EA 24 Port, Category 5E Patch Panel (CommScope 108208919)	335.42	44.76
27 21 16 00-0027 EA 48 Port, Category 5E Patch Panel (CommScope 108208935)	601.97	55.09
27 21 16 00-0028 EA 24 Port, Category 6 Patch Panel (CommScope 760062372).....	488.82	44.76
27 21 16 00-0029 EA 48 Port, Category 6 Patch Panel (CommScope 760062380).....	902.41	55.09
27 21 16 00-0030 Communications Optical Fiber Patch Panels ^(27 21 16 00-0016)		
27 21 16 00-0031 Closet Connector Housings ^(27 21 16 00-0030)		
27 21 16 00-0032 EA 48 Fiber Total Capacity, Closet Connector Housing (Corning CCH-01U).....	398.61	27.54
Note: Accepts up to 2 closet connector housing panels. Excludes panels.		
27 21 16 00-0033 EA 96 Fiber Total Capacity, Closet Connector Housing (Corning CCH-02U).....	463.58	27.54
Note: Accepts up to 4 closet connector housing panels. Excludes panels.		
27 21 16 00-0034 EA 288 Fiber Total Capacity, Closet Connector Housing (Corning CCH-04U).....	575.60	27.54
Note: Accepts up to 12 closet connector housing panels. Excludes panels.		
27 21 16 00-0035 EA SC Duplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-91).....	101.59	13.78
27 21 16 00-0036 EA SC Duplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-59).....	134.73	13.78
27 21 16 00-0037 EA SC Simplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-56).....	113.29	13.78
27 21 16 00-0038 EA SC Simplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-3C).....	145.43	13.78



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0039		Communications Cable Management (27 21 16 00-0009)		
27 21 16 00-0040		Horizontal Communication Cable Management (27 21 16 00-0039)		
27 21 16 00-0041	EA	1.7" Height, 19" Width, 3.7" Depth, 1 RU, Front Only, Horizontal Cable Manager (Panduit WMPFSE).....	172.49	27.54
27 21 16 00-0042	EA	3-1/2" Height, 19" Width, 3.7" Depth, Horizontal Cable Manager (Panduit WMPF1E).....	178.58	27.54
27 21 16 00-0043		Vertical Communication Cable Management (27 21 16 00-0039)		
27 21 16 00-0044	EA	6" Width x 84" Height, Double-Sided Vertical Cabling Section (Chatsworth 11729-703).....	1,061.22	68.86
27 21 16 00-0045	EA	19" Width x 84" Height, Universal Rack (Chatsworth 48353-703)	1,100.62	68.86
27 21 16 00-0046	EA	23" Width x 84" Height, Universal Rack (Chatsworth 48383-703)	1,189.23	68.86
27 21 16 00-0047		Communications Patch Cords, Station Cords, And Cross Connect Wire (27 21 16 00-0009)		
27 21 16 00-0048		Premise Cross-Connect Wire (27 21 16 00-0047)		
27 21 16 00-0049	LF	1-Pair, 22 AWG Premise Cross-Connect Wire (General Cable 7041973).....	1.40	0.69
27 21 16 00-0050		Pathways For Communications Systems (27 21 16 00-0009)		
27 21 16 00-0051		Conduits And Back Boxes For Communication Systems (27 21 16 00-0050)		
27 21 16 00-0052		Flexible Conduit For Communication Systems (27 21 16 00-0051)		
27 21 16 00-0053	CLF	1" Diameter, Riser Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlson DF4X1C).....	607.38	247.55
27 21 16 00-0054	CLF	1" Diameter, Plenum Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlson CF4X1C).....	925.60	247.55
27 21 16 00-0055		Tube Cables For Communication Systems (27 21 16 00-0051)		
27 21 16 00-0056		Outdoor/All-Dielectric Tube Cables (27 21 16 00-0055)		
27 21 16 00-0057	CLF	Two Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC02TOX).....	416.22	165.03
27 21 16 00-0058	CLF	Seven Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC07TOX).....	600.35	206.29
27 21 16 00-0059	CLF	Nineteen Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC19TOX)	948.71	247.55
27 21 16 00-0060		Indoor/Riser Rated Tube Cables (27 21 16 00-0055)		
27 21 16 00-0061	CLF	Two Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC02TRX).....	465.08	165.03
27 21 16 00-0062	CLF	Four Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC04TRX).....	560.53	185.66
27 21 16 00-0063	CLF	Seven Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC07TRX).....	634.28	206.29
27 21 16 00-0064	CLF	Nineteen Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC19TRX)	1,102.08	247.55
27 21 16 00-0065		Indoor/Plenum Rated Tube Cables (27 21 16 00-0055)		
27 21 16 00-0066	CLF	Single Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC01TPX)	363.28	165.03
27 21 16 00-0067	CLF	Two Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC02TP2).....	488.15	165.03
27 21 16 00-0068	CLF	Four Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC04TP2).....	717.97	185.66
27 21 16 00-0069	CLF	Seven Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC07TP2).....	1,012.96	206.29
27 21 16 00-0070	CLF	Nineteen Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC19TP2).....	2,954.78	247.55
27 21 16 00-0071		Unjacketed Single Tube Cables (27 21 16 00-0055)		
27 21 16 00-0072	CLF	Single Tube, Unjacketed Single Tube Cable (Sumitomo TC01TGX).....	325.28	165.03
27 21 16 00-0073		Multimode Fiber Bundles (27 21 16 00-0055) Note: Includes optical fiber cables.		
27 21 16 00-0074	CLF	2-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FR02M6).....	128.67	49.51
27 21 16 00-0075	CLF	4-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB04M6).....	181.60	49.51
27 21 16 00-0076	CLF	6-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB06M6).....	238.61	49.51
27 21 16 00-0077	CLF	12-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB12M6).....	412.34	49.51
27 21 16 00-0078	CLF	18-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB18M6).....	590.32	57.76
27 21 16 00-0079	CLF	24-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB24M6).....	764.06	57.76
27 21 16 00-0080		Singlemode Fiber Bundles (27 21 16 00-0055) Note: Includes optical fiber cables.		
27 21 16 00-0081	CLF	2-Fiber, Singlemode Fiber Bundle (Sumitomo FR02SX)	117.81	49.51
27 21 16 00-0082	CLF	4-Fiber, Singlemode Fiber Bundle (Sumitomo FB04SX)	140.88	49.51
27 21 16 00-0083	CLF	6-Fiber, Singlemode Fiber Bundle (Sumitomo FB06SX)	159.89	49.51
27 21 16 00-0084	CLF	12-Fiber, Singlemode Fiber Bundle (Sumitomo FB12SX)	196.53	49.51
27 21 16 00-0085	CLF	18-Fiber, Singlemode Fiber Bundle (Sumitomo FB18SX)	291.72	57.76
27 21 16 00-0086	CLF	24-Fiber, Singlemode Fiber Bundle (Sumitomo FB24SX)	374.51	57.76
27 21 16 00-0087		Tube Distribution Cabinets (27 21 16 00-0055)		
27 21 16 00-0088	EA	Modular Tube Distribution Cabinet (Sumitomo DE06MDU)..... Note: Up to six 7-tube cables or two 19-tube cables.	243.28	68.86

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0089	Modular Fiber Termination Cabinets (27 21 16 00-0085)	
27 21 16 00-0090 EA 24-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT24WFM)	296.51	68.86
27 21 16 00-0091 EA 48-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT48WFM)	313.34	68.86
27 21 16 00-0092	Tube Distribution Accessories (27 21 16 00-0055)	
27 21 16 00-0093 EA Plastic Push/Pull Quick Release Pneumatic Cap For 8 mm Tube (Sumitomo DE08MA)	15.67	6.88
27 21 16 00-0094 EA Plastic Push/Pull Quick Release Pneumatic Coupling For 8 mm Tube (Sumitomo DE08MC2)	16.85	6.88
27 21 16 00-0095 EA Brass Push/Pull Quick Release Pneumatic Coupling For 8 mm Bulkhead Tube (Sumitomo DE08MB)	19.89	6.88
27 21 16 00-0096	Communications Optical Fiber Cabling (27 21 16 00-0009)	
27 21 16 00-0097	Communications Optical Fiber Cable Splicing And Terminations (27 21 16 00-0096)	
27 21 16 00-0098	Field Installed Fiber Connectors (27 21 16 00-0097)	
27 21 16 00-0099 EA SC Type, Singlemode, Field Installed Fiber Connector (Corning 95-200-42)	39.77	10.32
27 21 16 00-0100 EA SC Type, 62.5 Micron Multimode, Field Installed Fiber Connector (Corning 95-000-41)	35.88	10.32
27 21 16 00-0101	Buffer Tube Fan-Out Kits (27 21 16 00-0097)	
27 21 16 00-0102	Buffer Tube Breakout Kits (Sumitomo) (27 21 16 00-0101)	
Note: Includes 900 micron tubing.		
27 21 16 00-0103 EA 2-Fiber Breakout Kit (Sumitomo FTFLD02)	291.35	137.53
27 21 16 00-0104 EA 4-Fiber Breakout Kit (Sumitomo FTFLD04)	295.42	137.53
27 21 16 00-0105 EA 6-Fiber Breakout Kit (Sumitomo FTFLD06)	299.02	137.53
27 21 16 00-0106 EA 12-Fiber Breakout Kit (Sumitomo FTFLD12)	310.19	137.53
27 21 16 00-0107 EA 18-Fiber Breakout Kit (Sumitomo FTFLD18)	325.47	137.53
27 21 16 00-0108 EA 24-Fiber Breakout Kit (Sumitomo FTFLD24)	336.82	137.53
27 21 16 00-0109	Buffer Tube Fan-Out Kits (Corning) (27 21 16 00-0101)	
27 21 16 00-0110 EA 12 Fiber, 25" Tube Length, Indoor Buffer Tube Fan-Out Kit (Corning Fan-BT25-12)	293.23	137.53
27 21 16 00-0111 EA 12 Fiber, 25" Tube Length, Outdoor Buffer Tube Fan-Out Kit (Corning Fan-OD25-12)	333.56	137.53
27 21 16 00-0112	Communications Copper Cabling (27 21 16 00-0009)	
27 21 16 00-0113	Copper Communications Cable Splicing And Terminations (27 21 16 00-0112)	
27 21 16 00-0114	Copper Communications Cable Splice Cases (27 21 16 00-0113)	
27 21 16 00-0115 EA 6.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000626)	1,326.46	275.06
27 21 16 00-0116 EA 9.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000630)	1,548.35	275.06
27 21 16 00-0117 EA 12.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8006219)	2,285.66	275.06
27 21 16 00-0118	Modular Splice Connectors (27 21 16 00-0113)	
27 21 16 00-0119 EA 25-Pair, Straight Body Only, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-SC1-25)	148.29	68.76
27 21 16 00-0120 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Dry Modular Splice Connector (3M 710-SD1-25)	145.90	68.76
27 21 16 00-0121 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-TC1-25)	148.35	68.76
27 21 16 00-0122 EA 25-Pair, Bridge Body, 26-22 Gauge Cable, Filled Modular Splice Connector (3M 710-BC1-25)	148.01	68.76
27 21 26	Data Communications Network Management (27 21)	
27 21 26 00-0001	Data Communications Network Management (27 21 26)	
27 21 26 00-0002 EA 3 Port, Terminal/Serial Device Server (Comtrol 99560-9)	736.01	34.38
27 21 26 00-0003 EA 2 Port, Terminal/Serial Device Server (Comtrol 99550-0)	566.03	34.38
27 21 26 00-0004 EA 4 Port, DB9 Terminal/Serial Device Server (Comtrol 99445-9)	790.60	34.38
27 21 26 00-0005 EA 4 Port, DB9 Terminal/Serial Device Server (Comtrol 99448-0)	1,240.90	34.38
27 21 26 00-0006 EA 24 Watt, Din Rail Mountable, Power Adapter (Comtrol PS1020)	115.15	
27 21 26 00-0007 EA Remote Data Port, Spectra Positioning System (Pelco IPS_RDPE_2)	548.05	20.63
27 21 26 00-0008 EA Sennetech Code Translator (Pelco SCT_100_AD232)	915.09	34.38
27 21 26 00-0009 EA VPN Router (Cisco 819HG)	5,491.69	440.72
27 21 26 00-0010 EA Cisco Catalyst 3000 Series Switches (Cisco IE-3000 - 8TC)	3,950.11	440.72
27 21 26 00-0011 EA WS-C4507R+E Chassis, Two WS-X4648-RJ45V+E, Sup7L-E, LAN Base (Cisco WS-C4507RE+96V+)	20,335.25	165.03
27 21 26 00-0012 EA SMARTnet Extended Service Agreement, SNTC-8X5XNBD WS-C4507R+E Chassis, 2 WS-X4648-RJ45V+E (Cisco CON-SNT-C4507REV)	635.25	
27 21 26 00-0013 EA Sup8-E And WS-X4748-RJ45V+E Upgrade For Bundle (Cisco C4500E-S7L-S8)	13,811.78	165.03
27 21 26 00-0014 EA Catalyst 4500 E-Series Redundant Supervisor 8-E (Cisco WS-X45-SUP8-E/2)	29,930.33	165.03
27 21 26 00-0015 EA Catalyst 4500 2GB SD Memory Card (Cisco SD-X45-2GB-E)	704.86	13.78
27 21 26 00-0016 EA Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV)	5,167.02	17.19
27 21 26 00-0017 EA Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV/2)	4,481.09	17.19
27 21 26 00-0018 EA 13', NEMA 6-20 To IEC-C19 Power Cable (Cisco CAB-US620P-C19-US)	80.65	6.88
27 21 26 00-0019 EA 1000BASE-SX SFP Transceiver Module, MMF, 850nm, DOM (Cisco GLC-SX-MMD=)	262.91	68.76
27 21 26 00-0020 EA Cisco Catalyst 3850 24 Port Data IP Base (Cisco WS-C3850-24TS)	3,988.28	165.03
27 21 26 00-0021 EA SMARTnet Extended Service Agreement, 8X5XNBD Cisco Catalyst 3850 24 Port Data IP Base (Cisco CON-SNT-WSC384TS)	835.83	
27 21 26 00-0022 EA North America AC Type A Power Cable (Cisco CAB-TA-NA)	27.25	6.88
27 21 26 00-0023 EA 350 Watt AC Power Supply (Cisco PWR-C1-350WAC)	350.33	17.19



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 26 00-0024 EA Cisco Catalyst 3850 4x1GE Network Module (Cisco C3850-NM-4-1G)	870.28	17.22
27 21 26 00-0025 EA 1' (30cm), Catalyst 3750X Stack Power Cable (Cisco CAB-SPWR-30CM)	127.86	6.88
27 21 26 00-0026 EA Rack Mount Switch 16 100 SFP 8 10/100 PoE 2 Geuplinks (Cisco IE-3010-16S-8PC)	4,702.72	165.03
27 21 26 00-0027 EA SMARTnet Extended Service Agreement, 8X5XNBD IA Rack Mount Switch 16 100 SFP 8 10/10 (Cisco CON-SNT-301016S8).....	839.18	
27 21 26 00-0028 EA IE 3010 Power Supply (Cisco PWR-RGD-AC-DC/IA).....	744.85	17.19
27 21 26 00-0029 EA IE 3010 AC-DC Redundant Power Supply (Cisco PWR-RGD-AC-DC/IA/R)	756.55	17.19
27 21 26 00-0030 EA 4 Ethernet 10/100 Ports And 2 Dual-Purpose Uplinks, Industrial Ethernet Switch (Cisco IE-3000-4TC).....	1,629.60	165.03
27 21 26 00-0031 EA Expansion Power Module For Cisco IE-3000-4TC (Cisco PWR-IE50W-AC-IEC).....	410.56	17.22
27 21 26 00-0032 EA 4 Port, Expansion SFP Module for IE-3000-4TC (Cisco IEM-3000-4SM).....	1,923.45	17.22
27 21 26 00-0033 EA Router (CISCO IR829).....	1,725.85	68.86

27 21 29 Data Communications Switches and Hubs (27 21)

27 21 29 00-0001 Data Communications Multimedia Modular Patch Panels (27 21 29)

Note: Unloaded multimedia patch panels that accept modular jacks for category 3, 5e, 6, fiber optic, etc. Excludes rack, modular jacks and terminations. See CSI section 27 15 43 00-0051 for modular jacks.

27 21 29 00-0002 EA 12 Port, Wall Mount Multimedia Modular Patch Panel, Unloaded	109.49	6.87
27 21 29 00-0003 EA 16 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded	120.60	6.87
27 21 29 00-0004 EA 24 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded	142.09	6.87
27 21 29 00-0005 EA 36 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded	148.70	6.87
27 21 29 00-0006 EA 48 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded	163.00	8.60
27 21 29 00-0007 EA 24 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded	154.17	6.87
27 21 29 00-0008 EA 48 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded	193.46	8.60
27 21 29 00-0009 EA Rack Mount Rear Cable Management Bar	71.86	8.60

27 21 33 Data Communications Wireless Access Points (27 21)

27 21 33 00-0001 Data Communications Wireless Access Points (27 21 33)

27 21 33 00-0002 EA Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-BSU)	5,296.20	206.29
27 21 33 00-0003 EA Base Station Unit, 300 Mbps, MIMO 2x2, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1)	12,697.82	206.29
27 21 33 00-0004 EA Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90 Degree Sector Antenna US PoE (Proxim Wireless MP-8250-BS9)	12,697.82	206.29
27 21 33 00-0005 EA Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-SUA)	2,083.87	206.29
27 21 33 00-0006 EA Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi, Panel Antenna US PoE (Proxim Wireless MP-8250-SUR)	2,434.04	225.94
27 21 33 00-0007 EA Base Station Unit, 300 Mbps, MIMO 3x3, GPS Sync Ready, Type-N Connectors - US PoE (Proxim Wireless MP-8200-BSU-G).....	6,794.77	225.94
27 21 33 00-0008 EA Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1-G)	10,319.38	225.94
27 21 33 00-0009 EA Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 16 dBi, 90° Sector Antenna - US PoE (Proxim Wireless MP-8250-BS9-G)	10,319.38	225.94
27 21 33 00-0010 EA 50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-50).....	2,118.01	75.31
27 21 33 00-0011 EA 100 Mbps, MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-100).....	2,147.60	75.31
27 21 33 00-0012 EA Surge, Gigabit Surge Protector With Shielded RJ45 (Proxim Wireless ETH-SURGE-1G)	201.15	37.65
27 21 33 00-0013 EA FlexPort uWave AdaptRate And Modulation Feature Upgrade (BridgeWave Communications FPUWAVE-UPG-ARM)	1,838.87	
27 21 33 00-0014 EA 1' High Performance Dish Antenna, Low Profile, 21.2-23.6 GHz, WR42 Flange, SOI (Radio Waves HPLP1-23RR).....	662.44	68.76
27 21 33 00-0015 EA Cellular Phone / Wi-Fi Antenna (Sierra Wireless AP-CWG-Q-S222-WH).....	550.02	68.76
27 21 33 00-0016 EA Cell LTE MIMO Antenna (Sierra Wireless 1810075)	98.80	27.50
27 21 33 00-0017 EA AirLink GX400 Power Adapter (Sierra Wireless 2700384)	85.64	
27 21 33 00-0018 EA AirLink GX400 Power Cable (Sierra Wireless 2000380).....	50.22	
27 21 33 00-0019 EA Cellular/PCS/LTE, Hockey Puck Antenna (Sierra Wireless AP-C-Q-S2-BL)	354.75	68.76
27 21 33 00-0020 EA Cellular/PCS/LTE/GPS, Multi-Band Antenna (Sierra Wireless AP-CG-Q-S2-BL).....	356.92	68.76
27 21 33 00-0021 EA 2 Way, RF Power Divider, 790-920 MHZ (Telewave ANTPD28D)	485.10	68.86
27 21 33 00-0022 EA Wireless Cellular Modem (Sierra Wireless AirLink GX400 EVDO/GPS).....	1,219.99	103.29
27 21 33 00-0023 EA Wireless Cellular Modem (Sierra Wireless AirLink GX450 Rugged).....	1,558.35	103.29
27 21 33 00-0024 EA Magnetic Mount Cellular Antenna (Wilson Electronics 301125)	88.65	20.63
27 21 33 00-0025 EA Yagi Antenna, 890-960 MHz, 10 dBd Gain (PCTEL Bluewave Antennas BGYD890K)	331.95	75.31
27 21 33 00-0026 EA Andrew® Omni Antenna, 890-960 MHz, 360° Horizontal Beamwidth, Fixed Electrical Tilt, Fits On 38-51 mm (1-1/2 to 2 in) OD Pipe (Commscope DB583-Y)	1,081.51	75.31
27 21 33 00-0027 EA Single Channel Bluetooth Sensor With Bluetooth Module And Antenna (DeepBlue SC)	5,311.64	68.86
27 21 33 00-0028 EA Point-to-Point Wireless Bridge (Proxim Tsunami® QB-10150).....	2,700.36	68.76

27 30 Voice Communications (27)

27 32 Voice Communications Terminal Equipment (27 30)

Note: Includes testing of new devices and certification.

27 32 13 Telephone Sets (27 32)

27 32 13 00-0001 Interior Telephone Components (27 32 13)

27 32 13 00-0002 EA Solid State Exchange Unit With Power Supply	8,254.83	1,256.72
27 32 13 00-0003 EA Dial Telephone - Handset In Cabinet	988.43	102.73
27 32 13 00-0004 EA Elevator Cab Telephone With Trailer Cable	504.58	110.15
27 32 13 00-0005 EA Loud Ring Bell, 6"	396.63	102.18
27 32 13 00-0006 EA Audio/Visual Indicator	503.84	96.27
27 32 13 00-0007 EA Administrative Telephone With Digital Display.....	524.18	86.37
27 32 13 00-0008 EA Processing Unit For 16 Station System	2,609.98	704.55

27 Communications**27 30 Voice Communications****27 32 Voice Communications Terminal Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 32 13 00-0009 EA Handset For 16 Station System	370.00	70.14
27 32 13 00-0010 EA Handset In Cabinet, For 16 Station System	501.19	94.61
27 32 13 00-0011 MLF 20 Conductor Unshielded Cable, #22	3,389.15	1,516.50
27 32 13 00-0012 EA Power Supply For 16 Station System	469.78	187.17
27 32 13 00-0013 EA Intercom Terminal Board	417.22	210.69
27 32 13 00-0014 EA Power Supply For Five Station System, 24 Volt DC	488.00	187.17
27 32 13 00-0015 EA Telephone Communication Board, Insulated Blueboard 24" x 24" x 1/2" Thick	237.35	76.90
27 32 13 00-0016 EA Telephone Cabinet With Backboard 24" High x 24" Wide x 6" Deep	739.18	169.26
27 32 13 00-0017 EA Telephone Cabinet With Backboard 30" High x 24" Wide x 6" Deep	872.61	192.38
27 32 13 00-0018 EA Telephone Cabinet With Backboard 30" High x 30" Wide x 6" Deep	1,058.08	227.69
27 32 13 00-0019 EA Telephone Cabinet With Backboard 36" High x 30" Wide x 6" Deep	1,247.78	246.16
27 32 13 00-0020 EA Telephone Cabinet With Backboard 48" High x 30" Wide x 6" Deep	1,941.36	280.09
27 32 13 00-0021 EA Ring Rung 3"	14.77	7.67
27 32 13 00-0022 EA G66B50 Telephone Blocks Including 50 Terminators, Exterior Ring, Marking, ID	36.85	13.62
27 32 13 00-0023 EA G110 Data Blocks Including Terminator, Exterior Ring, Marking, ID And Testing	67.11	27.91

27 32 13 00-0024 Interior Telephone Accessories (27 32 13)

27 32 13 00-0025 EA Blank Telephone Receptacle, Exposed Devices - Complete	15.39	7.42
27 32 13 00-0026 EA 4-Pin Telephone Receptacle, Exposed Devices - Complete	33.46	28.61
27 32 13 00-0027 EA Dual Flush Mounted, Level 5, RJ-45 Jack, Complete	82.72	31.41
27 32 13 00-0028 EA Wall Mount, Level 5, RJ-45 Jack, Complete	78.30	31.41
27 32 13 00-0029 EA Terminating Strips, Inside	158.80	62.83
27 32 13 00-0030 EA Dual Outlet, 4-Pin Telephone Receptacle, Concealed Type RJ-45 - Complete	69.74	32.32
27 32 13 00-0031 EA Ready Access Closure 3 To 25 Pair	191.94	75.78
27 32 13 00-0032 EA Ready Access Closure 25 To 100 Pair	224.48	84.71
27 32 13 00-0033 EA Termination Block With Bracket 25 Pair	72.60	25.44
27 32 13 00-0034 EA RJ-11 Telephone Receptacle, Concealed Devices - Complete	68.47	31.90
27 32 13 00-0035 EA Interior Protected Terminal 25 Pair	827.59	183.74
27 32 13 00-0036 EA Interior Protected Terminal 50 Pair	981.38	186.62
27 32 13 00-0037 EA Pedestal 6" x 6" x 50" 3 To 100 Pair	329.50	76.47
27 32 13 00-0038 EA Pedestal 8" x 8" x 50" 100 To 300 Pair	340.11	76.47
27 32 13 00-0039 EA Pedestal 10" x 10" x 43" 300 To 600 Pair	449.16	97.78
27 32 13 00-0040 EA Pedestal 10" x 16" x 439 600 Pair	932.28	176.17
27 32 13 00-0041 EA Entrance Protector Terminal 100 Pair	1,290.41	201.06
27 32 13 00-0042 EA Gas Protection Module	19.97	6.87
27 32 13 00-0043 EA Terminating Boxes, Outside With 3 Element Protectors, Per Pair	34.67	6.28

27 32 26 Ring-Down Emergency Telephones (27 32)**27 32 26 00-0001 Emergency Telephone (27 32 26)**

Note: Includes CB3000 speakerphone, 3 auxiliary inputs, 2 auxiliary outputs, phone line surge suppressor, analog telephone connection, 70 watt area light with blue beacon, high power strobe, lighted faceplate, 110VAC power, ultra weather resistant finish, vandal resistant hardware, UV resistant Lens, dome vent; flat area for directory, access control or other options; 12.75" diameter/8'-6" height, 1/4" thick steel construction, foundation anchor kit, ADA compliant.

27 32 26 00-0002 EA Code Blue 1-Standard Emergency Telephone Pedestal Unit (CB 1-s)	12,303.58	563.42
27 32 26 00-0003 EA Code Blue 1-Dual Emergency Telephone Pedestal Unit (CB 1-d)	12,936.71	563.42
27 32 26 00-0004 EA Analog Speakerphone With Black Info Button And Red Push For Help Button Code Blue Option (Code Blue IA4100 FP2)	211.04	
27 32 26 00-0005 EA Analog Speakerphone With Black Call Button, Keypad And Red Push For Help Button Code Blue Option (Code Blue IA4100 FP2-K)	316.57	
27 32 26 00-0006 EA IP Speakerphone With Single Red Push For Help Button Code Blue Option (Code Blue IP5000 FP1)	791.42	
27 32 26 00-0007 EA IP Speakerphone With Back Info Button And Red Push For Help Button Code Blue Option (Code Blue IP5000 FP2)	1,076.33	
27 32 26 00-0008 EA IP Speakerphone With Black Call Button, Keypad And Red Push For Help Button Code Blue Option (Code Blue IP5000 FP2-K)	1,181.85	
27 32 26 00-0009 EA EMERGENCY (Raised Letters With Braille) Main Bezel Code Blue Option	21.10	
27 32 26 00-0010 EA EMERGENCY/EMERGENCIA (Raised Letters With Braille) Main Bezel Code Blue Option	21.10	
27 32 26 00-0011 EA Directory, Second Opening Code Blue Option	189.94	
27 32 26 00-0012 EA Camera Enclosure With Color IP Camera, Second Opening Code Blue Option	2,004.93	
27 32 26 00-0013 EA HID Card Reader, Second Opening Code Blue Option	928.60	
27 32 26 00-0014 EA HID Card Reader And Color IP Camera, Second Opening Code Blue Option	3,007.39	
27 32 26 00-0015 EA IP Wireless Communication Code Blue Option	6,320.79	
Note: 802.11g or secure mesh 5.8. (system UPS backup or unit Night Charge recommended). IP5000 VoIP Speakerphone option must be ordered when selecting IP Wireless Communications. Requires Base Unit(s) and site survey.		
27 32 26 00-0016 EA Active Venting Code Blue Option	337.67	
27 32 26 00-0017 EA Night Charge Power Code Blue Option	2,944.08	
Note: Requires 120V AC external power supplied to Code Blue unit.		
27 32 26 00-0018 EA Power Transformer Kit, Alternate Incoming Power Code Blue Option	738.66	
27 32 26 00-0019 EA Overhead Camera Mount Code Blue Option	1,677.81	
Note: Excludes camera.		
27 32 26 00-0020 EA Custom Color For Overhead Camera Mount Code Blue Option	73.87	

27 32 26 00-0021 City Police Call System (27 32 26)



Communications			27	27
Voice Communications			27 30	
Voice Communications Terminal Equipment			27 32	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 32 26 00-0022			Components (27 32 26 00-0021)		
27 32 26 00-0023	EA		City Police Call System.....	960.87	160.35
27 32 26 00-0024	EA		Concrete Foundation For Police Department Telephone Post	862.92	232.28

27 40 Audio-Video Communications (27)

27 41 Audio-Video Systems (27 40)

27 41 16 Integrated Audio-Video Systems and Equipment (27 41)

Note: Includes testing of new devices and certification.

27 41 16 00-0001			Television Distribution System (27 41 16)		
See CSI section 26 05 19 16-0012 for basic wiring.					
27 41 16 00-0002			Mounted Television Support (27 41 16 00-0001)		
27 41 16 00-0003	EA		Ceiling Mounted Television Support, 19" To 20".....	537.10	154.25
27 41 16 00-0004	EA		Ceiling Mounted Television Support, 19" To 20" With Rack	692.54	172.15
27 41 16 00-0005	EA		Ceiling Mounted Television Support, 25" To 27".....	560.53	154.25
27 41 16 00-0006	EA		Ceiling Mounted Television Support, 25" To 27" With Rack	715.97	172.15
27 41 16 00-0007	EA		Wall Mounted Television Support, 13".....	425.50	123.95
27 41 16 00-0008	EA		Wall Mounted Television Support, 13" With Rack.....	580.91	137.73
27 41 16 00-0009	EA		Wall Mounted Television Support, 19" To 20".....	456.24	123.95
27 41 16 00-0010	EA		Wall Mounted Television Support, 19" To 20" With Rack	611.66	137.73
27 41 16 00-0011	EA		Wall Mounted Television Support, 25" To 27".....	486.99	123.95
27 41 16 00-0012	EA		Wall Mounted Television Support, 25" To 27" With Rack	642.40	137.73
27 41 16 00-0013			Distribution System (27 41 16 00-0001)		
See CSI section 26 05 13 16-0001 for wire and cabling.					
27 41 16 00-0014			TV Distribution Rack (27 41 16 00-0013)		
27 41 16 00-0015	EA		Steel Rack Cabinet With Shelves	1,872.45	252.91
27 41 16 00-0016	EA		Switch And Pilot Light.....	292.96	112.36
27 41 16 00-0017	LF		Surface Raceway With Outlets	35.11	15.27
27 41 16 00-0018	EA		Service Label.....	41.71	21.04
27 41 16 00-0019			Head End Amplifier (27 41 16 00-0013)		
27 41 16 00-0020	EA		Head End Amplifier.....	1,249.24	168.33
27 41 16 00-0021			UHF In-Line Booster Amplifier And Power Supply (27 41 16 00-0013)		
27 41 16 00-0022	EA		UHF In-Line Booster	731.14	168.33
27 41 16 00-0023			Preamplifiers (27 41 16 00-0013)		
27 41 16 00-0024	EA		VHF Preamplifier	913.58	168.33
27 41 16 00-0025	EA		UHF Preamplifier	731.14	168.33
27 41 16 00-0026			Power Supplies (27 41 16 00-0013)		
27 41 16 00-0027	EA		Common Power Supply	1,305.11	240.54
27 41 16 00-0028			Line Splitter And Mixer (27 41 16 00-0013)		
27 41 16 00-0029	EA		Line Splitter.....	113.65	56.11
27 41 16 00-0030	EA		Two-Way Splitter	128.17	56.11
27 41 16 00-0031	EA		Frequency Filter.....	283.54	84.30
27 41 16 00-0032	EA		Line Splitter And Mixer.....	346.87	123.77
27 41 16 00-0033			Power Line Filters (27 41 16 00-0013)		
27 41 16 00-0034	EA		120-Volt Power Supply Line Filter.....	548.36	112.36
27 41 16 00-0035			Wall Box And Receiver Outlets (27 41 16 00-0013)		
27 41 16 00-0036	EA		Wall Box With Lockable Cover, Excluding Outlet Plug	283.54	84.30
27 41 16 00-0037	EA		TV Receiver Outlet Plug	128.17	56.11
27 41 16 00-0038	EA		TV Camera Outlet Plug.....	128.17	56.11
27 41 16 00-0039	EA		Audio Outlet Plug.....	109.98	56.11
27 41 16 00-0040	EA		12 Ft RG 6U Cable With G-59 And TV Set Fittings	229.10	112.36
27 41 16 00-0041	EA		Male Plug PL-259	128.17	56.11
27 41 16 00-0042	EA		Wall Box And Receiver Outlet Television Outlets	151.53	58.86
27 41 16 00-0043			Proprietary Audio-Video Equipment And Accessories (27 41 16 00-0001)		
27 41 16 00-0044	EA		ALS Antenna - Universal Kit (Listen Technologies LA-123).....	73.98	
27 41 16 00-0045	EA		ALS Single Ear Bud (Listen Technologies LA-161)	27.74	
27 41 16 00-0046	EA		ALS stereo headphones (Listen Technologies LA-165).....	49.60	

27 Communications
27 40 Audio-Video Communications
27 41 Audio-Video Systems



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 41 16 00-0047	EA	ALS Body Pack Display FM Receiver (Listen Technologies LR-4200-072).....	414.08	
27 41 16 00-0048	EA	ALS RF Transmitter (Listen Technologies LT-800-72-01)	1,615.35	
27 41 16 00-0049	EA	200 watts 70V mono amplifier (Extron XPA 2001-70V)	863.11	
27 41 16 00-0050	EA	Single channel power amplifier (Extron MPA 601-70V)	617.52	
27 41 16 00-0051	EA	Ceiling Dante mic array (Shure MXA910).....	10,975.58	
27 41 16 00-0052	EA	A910-HCM mount (Shure A910-HCM).....	515.45	
27 41 16 00-0053	EA	6.5" Two-Way Ceiling Speakers, 70/100V, Pair (Extron SF 26CT).....	323.51	
27 41 16 00-0054	EA	12x8 ProDSP Processor w/AEC, VolP, and Dante (60-1513-10) (Extron DMP 128 C P AT)	4,776.37	
27 41 16 00-0055	EA	Four Channel wireless receiver (Shure ULXD4Q).....	12,546.69	
27 41 16 00-0056	EA	Wireless handheld microphone (Shure ULXD2/B87A).....	1,699.47	
27 41 16 00-0057	EA	UHF bodypack transmitter (Shure ULXD1-G50).....	1,199.10	
27 41 16 00-0058	EA	Dante multi-element table mic (Shure MXA310).....	2,154.52	
27 41 16 00-0059	EA	Omnidirectional lavalier microphone (Shure WL183).....	228.60	
27 41 16 00-0060	EA	Throwable microphone (Catchbox Catchbox Pro).....	860.52	
27 41 16 00-0061	EA	98" diagonal 4K display (Planar UR9851).....	35,589.26	
27 41 16 00-0062	EA	AV USB bridge (Blackmagic Design BLWEBPTR).....	1,067.55	
27 41 16 00-0063	EA	CABLE ADAPTER (Liberty AV Solutions DL-AR397).....	116.68	
27 41 16 00-0064	EA	HDSDI 4K to HDMI converter (Blackmagic Design BLMCQSDHD4K2)	1,067.55	
27 41 16 00-0065	EA	DTP Receiver for HDMI (Extron DTP R HWP 4K 331 D).....	995.61	
27 41 16 00-0066	EA	DTP Transmitter for HDMI - Decorator-Style (Extron DTP T HWP 4K 331 D).....	869.57	
27 41 16 00-0067	EA	HDMI Decorator-Style Tx (Extron DTP T HWP 4K 331 D).....	869.57	
27 41 16 00-0068	EA	Three Input Multi-Format Switcher with Integrated DTP Transmitter and Audio Embedding (Extron DTP T DSW 4K 333).....	2,003.81	
27 41 16 00-0069	EA	Two Input DTP Transmitter for HDMI and DP with Audio Embedding - Decorator-Style Wallplate (Extron DTP T DWP 4K 332 D).....	1,625.73	
27 41 16 00-0070	EA	Extron Cable Cubby 700 (Extron Cable Cubby 700)	882.19	
27 41 16 00-0071	EA	AC+USB 224 US US (2) AC & (2) USB Outlets w Integrated PS 60-1697-01 (Extron AC+USB 224 US Cord w 9.5' Cord).....	487.85	
27 41 16 00-0072	EA	Retractor Series/2 VGA-A VGA and 3.5 mm Stereo; 3 feet (90 cm) 70-1065-11 (Extron Retractor VGA-A)	630.14	
27 41 16 00-0073	EA	Retractor Series/2 HDMI HDMI; 3 feet (90 cm) 70-1065-04 (Extron Retractor HDMI).....	567.12	
27 41 16 00-0074	EA	DisplayPort-DisplayPort Mini DP to DP; 3 feet (90cm) 70-1065-18 (Extron Retractor MDP-DP).....	562.89	
27 41 16 00-0075	EA	Retractor Series/2 Network Network CAT6e; 3 feet (90 cm) 70-1065-03 (Extron Retractor Network).....	567.12	
27 41 16 00-0076	EA	Retractor Series/2 USB USB A to USB A; 3 feet (90 cm) 70-1065-05 (Extron Retractor USB).....	567.12	
27 41 16 00-0077	EA	80" Interactive Display (SHARP PN-L802B)	27,884.67	
27 41 16 00-0078	EA	75" Infinity Board with PC (Interactive Touch display) (NEC 3720-INF2-75)	33,855.95	
27 41 16 00-0079	EA	70" LCD interactive display (Sharp PN-L703B).....	15,400.68	
27 41 16 00-0080	EA	50"LED Display with integrated tuner (NEC E505)	3,234.99	
27 41 16 00-0081	EA	Eight Input HDCP-Compliant Scaling Presentation Switcher with DTP Extension (Extron IN1608 xi IPCP MA 70)	6,288.66	
27 41 16 00-0082	EA	Eight Input HDCP-Compliant Scaling Presentation Switcher with DTP Extension (Extron DTP CrossPoint 84 IPCP MA 70).....	9,344.40	
27 41 16 00-0083	EA	Media Recorder (400 GB SSD) (Extron SMP 351 60-1324-11).....	8,408.79	
27 41 16 00-0084	EA	install Owner Furnished, Digital Signage Media Player (Janus Displays Digital Signage Media Player).....	1,170.66	
27 41 16 00-0085	EA	Extron wireless presentation gateway (Extron ShareLink 250 W)	2,129.83	
27 41 16 00-0086	EA	eBUS Button Panel with 6 Buttons - Decorator-Style 1-Gang (Extron EBP 105 D).....	453.70	
27 41 16 00-0087	EA	IP Link Pro Control Processor (Extron IPCP Pro 250)	1,499.71	
27 41 16 00-0088	EA	IP Link Pro Control Processor (3 Serial port) (Extron IPL Pro S3).....	1,071.22	
27 41 16 00-0089	EA	10" Wall Mount Touchlink Pro Touchpanel (Extron TLP Pro 1025M).....	3,029.05	
27 41 16 00-0090	EA	USB extender (Extron USB Extender Plus R).....	869.57	
27 41 16 00-0091	EA	USB extender plus Receiver - Decorator-Style Version (Extron USB Extender Plus D R)	1,071.22	
27 41 16 00-0092	EA	USB extender (Extron USB Extender Plus T).....	869.57	
27 41 16 00-0093	EA	OFE Keyboard with Touch pad (Logitech K400 plus 920-007119).....	86.25	
27 41 16 00-0094	EA	Ofe mouse (LOGITECH M570).....	65.76	
27 41 16 00-0095	EA	HD PTZ Cameras with IP, 3G/HD-SDI, HDMI (Marshall CV620-IP)	4,000.77	
27 41 16 00-0096	EA	PTZ camera with HDSDI output (Panasonic AW-HE40S)	7,395.13	
27 41 16 00-0097	EA	1x4 HDSDI DA (Extron MDA 4V HD-SDI RETIRED PRODUCT).....	1,188.32	
27 41 16 00-0098	EA	Four Input 3G-SDI Switcher (Extron SW4 3G HD-SDI RETIRED PRODUCT).....	2,093.43	
27 41 16 00-0099	EA	21.5" Monitor (1920x1080) (ASUS VP228).....	191.94	
27 41 16 00-0100	EA	Wide-Throw Zoom Lens (Ratio 1.62-2.22:1) (EPSON ELPLW06).....	6,252.20	
27 41 16 00-0101	EA	8000 Lumens Laser Projector (EPSON Pro L1300UNL Laser WUXGA 3LCD Projector).....	21,544.01	
27 41 16 00-0102	EA	Pre-configured C5 Series Credenza, 2 Bay (Middle Atlantic C5+2 BAY).....	3,312.66	
27 41 16 00-0103	EA	SANUS 1U Ultra Quiet Fan (SANUS CAF01-B1).....	237.21	
27 41 16 00-0104	EA	Low profile tilt adjustable flat panel wall (Chief Mfg XTM1U)	618.94	
27 41 16 00-0105	EA	Heavy-Duty Flat Panel Wall Mount for 98" display (Planar Profile Mount (955-0566-00)	496.00	
27 41 16 00-0106	EA	Medium Fusion Micro-Adjustable Tilt Wall Mount (Chief MTM1U).....	348.52	
27 41 16 00-0107	EA	Presentation lectern (Spectrum Furniture Honors Lectern (Quote #000203373-2).....	8,321.75	
27 41 16 00-0108	EA	RPA series projector mount (Chief Mfg RPA Series).....	365.78	
27 41 16 00-0109	EA	12RU Desktop Rack (Middle Atlantic BRK12)	491.73	

27 41 23 Audio-Video Accessories (27 41)

27 41 23 00-0001 Signaling (27 41 23)

27 41 23 00-0002	EA	Explosion Proof Signaling Strobe Light, Federal #27XST-120.....	2,770.41	131.94
27 41 23 00-0003	EA	Explosion Proof Signaling Revolving Warning Light, Federal #121X-120.....	2,653.05	131.94
27 41 23 00-0004	EA	Explosion Proof Signaling Horn, Federal #41X-024-1	2,132.38	131.94
27 41 23 00-0005	EA	Explosion Proof Signaling Horn, Federal #31X-120-3	1,650.59	131.94
27 41 23 00-0006	EA	Hazardous Location Warning Lights, Strobe, Glass, Federal #151XST-120	1,245.78	131.94
27 41 23 00-0007	EA	Hazardous Location Warning Lights, Strobe, Poly, Federal #225XST-120	910.59	131.94
27 41 23 00-0008	EA	Hazardous Location Warning Lights, Steady Burning Light, Federal #191X-0240250	728.22	131.94
27 41 23 00-0009	EA	Visual Signaling Devices, Revolving, Federal #121S-120	770.69	131.94
27 41 23 00-0010	EA	Visual Signaling Devices, Revolving, Federal #371L-120	2,256.92	131.94
27 41 23 00-0011	EA	Visual Signaling Devices, Strobe, Federal #FB2PST-120	844.28	131.94



Communications			27
Audio-Video Communications			27 40
Audio-Video Systems			27 41

27

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 41 23 00-0012 EA Visual Signaling Devices, Strobe, Federal #131DST-120.....	1,223.15	131.94
27 41 23 00-0013 EA Pendant Fixture, Crouse-Hinds EVAS101R Or EVAS201R.....	4,739.49	131.94
27 41 23 00-0014 EA Pendant Fixture With Guard, Crouse-Hinds EVAS110R Or EVAS210R.....	4,796.71	131.94
27 41 23 00-0015 EA Wall Fixture, Crouse-Hinds EVBS101R Or EVBS201R.....	5,111.40	131.94
27 41 23 00-0016 Visual And Audible Signals (27 41 23)		
27 41 23 00-0017 EA 4" x 4" x 2-1/2" Deep Vibrating Horn.....	259.16	34.38
27 41 23 00-0018 EA 4" x 4" x 3.4" Deep Vibrating Bell.....	348.33	34.38
27 41 23 00-0019 EA 6" x 6" x 3.8" Deep Vibrating Bell.....	418.39	34.38
27 41 23 00-0020 EA 8" x 8" x 19-3/4" Deep Resonating Horn.....	1,385.13	44.70
27 41 23 00-0021 EA 3 Tone Electric Siren, NEMA 3R.....	1,297.24	44.70
27 41 23 00-0022 EA 16 Tone Electric Siren.....	2,046.89	51.57
27 41 23 00-0023 EA Wall Mounting Brackets For Visual Signals.....	252.82	34.38
27 41 23 00-0024 EA Wall Mounting Brackets For Explosionproof Visual Signals.....	656.77	34.38
27 41 23 00-0025 EA Dome Guard For Explosionproof Visual Signals.....	104.61	17.19
27 41 33 Master Antenna Television Systems (27 41)		
27 41 33 00-0001 Antenna Systems (27 41 33)		
27 41 33 00-0002 Antenna (27 41 33 00-0001)		
27 41 33 00-0003 EA Amateur Radio Antenna.....	1,182.07	206.29
27 41 33 00-0004 EA Multi-Band Radio Antenna.....	920.73	206.29
27 41 33 00-0005 Receptacles (27 41 33 00-0001)		
27 41 33 00-0006 EA Amateur Radio Antenna System Receptacle With Mating Plugs And Adapter.....	265.32	84.30
27 41 33 00-0007 EA Multi-Band Radio Antenna System Receptacle With Mating Plugs.....	265.32	84.30
27 50 Distributed Communications and Monitoring Systems (27)		
27 51 Distributed Audio-Video Communications Systems (27 50)		
27 51 17 Video Intercom and Exterior Gate Control System (27 51)		
27 51 17 00-0001 Video Intercom And Exterior Gate Control System (27 51 17)		
27 51 17 00-0002 EA Audio Video Master Control Station With Handset, White Finish (Aiphone IX-MV7-HW).....	1,628.83	172.15
27 51 17 00-0003 EA Audio Video Master Control Station (Aiphone AX-8MV).....	1,313.54	172.15
27 51 17 00-0004 EA 16-call Add-on Selector For AX Masters (Aiphone AX-16SW).....	563.27	172.15
27 51 17 00-0005 EA Central Exchange Unit (Aiphone AX-084C).....	1,542.80	86.08
27 51 17 00-0006 EA Central Exchange Unit (Aiphone AX-248C).....	2,098.93	86.08
27 51 17 00-0007 EA Touch Tone Programmable Dialer (Viking K-1900-5).....	161.61	34.43
27 51 17 00-0008 EA Surface Mount Audio/Video Door Station (Aiphone IX-DV).....	1,108.84	34.43
27 51 17 00-0009 EA Surface Or Flush Wall Mount Audio/Video Door Station (Aiphone IX-DVF).....	1,522.70	34.43
27 51 17 00-0010 EA Surface Mount Audio/Video Door Station (Aiphone AX-DV).....	496.54	34.43
27 51 17 00-0011 EA Flush Mount Audio/Video Door Station (Aiphone AX-DVF).....	559.31	34.43
27 51 17 00-0012 EA 12 Volt, 2.5 Amperes, DC Power Supply (Aiphone PS-1225UL).....	152.66	17.22
Note: UL Listed		
27 51 17 00-0013 EA 24 Volt, 2 Amperes, DC Power Supply (Aiphone PS-2420UL).....	165.81	17.22
Note: UL Listed		
27 51 17 00-0014 EA IP Video Master Station (Aiphone IX-MV).....	1,984.60	172.15
27 51 17 00-0015 EA Handset Only For IX-MV (Aiphone 285999).....	68.05	6.88
27 51 17 00-0016 EA Hands Free Sub Master Video Monitor (Aiphone JF-2HD).....	853.74	172.15
27 51 17 00-0017 EA Stainless Steel Video Door Station With HID ProxPoint Plus Reader, Flush Mount (Aiphone AX-DVF-P).....	794.32	34.43
27 51 17 00-0018 EA Stainless Steel Surface Mount Box For IS-SS, IS-DVF, IS-IPDVF, IX-DF(SS) (Aiphone SBX-IDVF).....	244.02	34.43
27 51 17 00-0019 EA Stainless Steel Surface Mount Box For AX-DVF (Aiphone SBX-AXDVF).....	271.76	34.43
27 51 17 00-0020 EA Stainless Steel Security Lock Box For IS-DV, IS-DVF, IX-DF, IX-SS, IX-DF-HID, And IX-DF-RP10 (Aiphone LB-SDVF/A).....	333.93	51.64
27 51 17 00-0021 EA Front Case With Lens Cover For AX-DV And AX-DVF Cameras (Aiphone 240880).....	75.03	17.22
27 51 19 Sound Masking Systems (27 51)		
27 51 19 00-0001 Sound Masking System (27 51 19)		
27 51 19 00-0002 EA Touch Screen Panel PC PoE 10" (Cambridge Sound Management DSTS10POE).....	4,444.89	412.58
Note: For Sound Masking		
27 51 19 00-0003 EA 12 X 8 X 8 Channel Sound Masking Generator Controller (Cambridge Sound Management DS3008).....	3,652.72	275.06
Note: For Sound Masking		
27 51 19 00-0004 EA Netgear 24 Port PoE Switch (Cambridge Sound Management DSPoE24).....	1,154.14	137.53
Note: For Sound Masking		
27 51 19 00-0005 EA 24 Port Patch Panel (Cambridge Sound Management DSPP24).....	370.23	68.76
Note: For Sound Masking		
27 51 19 00-0006 EA Network Sound Masking Processor (Cambridge Sound Management DS8000).....	1,146.08	68.86
Note: For Sound Masking		
27 51 19 00-0007 EA Network 6" Plenum Speakers White (Cambridge Sound Management DS1356W).....	216.19	51.64
Note: For Sound Masking		
27 51 19 00-0008 EA Caddy Clip Kit Universal Brackets White (Erico 2H4).....	5.16	
Note: For Sound Masking		

27 Communications**27 50 Distributed Communications and Monitoring Systems****27 51 Distributed Audio-Video Communications Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 19 00-0009 EA Loudspeakers With Mounting Brackets (Cambridge Sound Management DS1398).....	216.19	51.64
Note: For Sound Masking		
27 51 19 00-0010 EA 6U Wall Mount Rack (Cambridge Sound Management DSPPM-6-12).....	541.07	68.86
Note: For Sound Masking		
27 51 19 00-0011 EA 8U Wall Mount Rack (Cambridge Sound Management DSPPM-8-12).....	572.10	68.86
Note: For Sound Masking		

27 51 23 Intercommunications and Program Systems (27 51)**27 51 23 63 Detention Intercommunications and Program Systems (27 51 23)**

27 51 23 63-0001 EA Wall Mounted, Electronic Two-Way, Hands-Free Audio, Partition Communication System (Haven Technology, Corp SC-600)	2,710.05	
Note: Excludes 5 gang electrical backbox.		

27 51 43 Sound Reinforcement (27 51)

Note: Includes testing of new devices and certification.

27 51 43 00-0001 Amplifiers (27 51 43)

27 51 43 00-0002 EA 10 Watt PA/Paging System Amplifier, 70 Volt (Bogen C10)	606.56	137.73
27 51 43 00-0003 EA 35 Watt PA/Paging System Amplifier, 70 Volt (Bogen C35)	854.77	137.73
27 51 43 00-0004 EA 60 Watt PA/Paging System Amplifier, 70 Volt (Bogen C60)	1,014.10	137.73
27 51 43 00-0005 EA 100 Watt PA/Paging System Amplifier, 70 Volt (Bogen 100).....	1,127.77	137.73
27 51 43 00-0006 EA 150 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS150).....	1,403.21	137.73
27 51 43 00-0007 EA 250 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS250).....	1,815.11	137.73
27 51 43 00-0008 EA Rack Mount Kit For PA/Paging System Amplifiers (Bogen GSRPK)	72.08	6.88

27 51 43 00-0009 Splitters (27 51 43)

27 51 43 00-0010 EA 24 Watt, 5 Output, Isolated Splitter (Doug Fleenor 125EE)	3,611.52	103.14
27 51 43 00-0011 EA 1-in/11-out Splitter (Doug Fleenor DMX).....	3,258.49	103.14

27 51 43 00-0012 Speakers (27 51 43)

27 51 43 00-0013 EA 8", 5 Watt Recessed Ceiling Mounted Speaker With Transformer And Baffle (Atlas Sound FD72W)	239.55	36.86
27 51 43 00-0014 EA 8" Steel Baffle (Atlas Sound 51-8)	75.83	6.87
27 51 43 00-0015 EA T-Bar Support (Atlas Sound EZ95-8).....	84.50	6.87
27 51 43 00-0016 EA 8" Cylindrical Enclosure With Undercoating (Atlas Sound Q408)	130.95	6.87
27 51 43 00-0017 EA Plate Mounted 10 Watt Attenuator With Priority Relay (Atlas Sound AT10-PA)	122.49	12.37

27 51 43 00-0018 Accessories (27 51 43)

27 51 43 00-0019 EA Microphone And Stand For Audio/Video System (Bogen MBS-1000A).....	349.62	17.22
27 51 43 00-0020 EA 5 Disk CD Player For Audio/Video System (Bogen DCM290-P).....	784.15	17.22
27 51 43 00-0021 EA Weather Proof Horn For Audio/Video System (Bogen SPT5A)	200.74	34.43
27 51 43 00-0022 EA Trumpet Driver And Line Matching Transformer For Audio/Video System (Atlas PD-60A).....	369.77	34.43
27 51 43 00-0023 EA Headset Microphone For Audio/Video System (Audio Technica Pro8Hex)	270.95	34.38
27 51 43 00-0024 EA Microphone Jack For Audio/Video System	126.66	34.43
27 51 43 00-0025 EA Terminal Cabinet For Audio/Video System (Atlas 121-18).....	1,060.42	137.73
27 51 43 00-0026 EA Volume Control For Audio/Video System (Bogen AT10A)	121.19	34.43
27 51 43 00-0027 EA Round Bridge for 8" (S86/S810) Recessed Speakers (Bogen Communications TB8).....	85.74	34.43

27 51 43 00-0028 Removal And Reinstallation Of Speakers (27 51 43)

Note: Includes storage, cleaning and supply materials.

27 51 43 00-0029 EA Removal And Reinstallation Of Ceiling Mounted Speaker	192.54	

27 52 Healthcare Communications and Monitoring Systems (27 50)**27 52 23 Nurse Call/Code Blue Systems (27 52)****27 52 23 00-0001 Wireless Equipment Nurses Call Systems (27 52 23)**

Note: Includes all mounting hardware, batteries, cable and connections. Teletronic.

27 52 23 00-0002 Wireless Nurses Call System (27 52 23 00-0001)

27 52 23 00-0003 EA NurseCall Main Unit (Rechargeable Battery Included); NCM2	9,063.32	
27 52 23 00-0004 EA NurseCall Main Unit (Rechargeable Battery Included) 300+ Transmitters; NCM2S	10,065.23	
27 52 23 00-0005 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 1-5 Units; NCL2	6,401.83	
27 52 23 00-0006 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 6-10 Units; NCL2	5,182.26	
27 52 23 00-0007 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 11-15 Units; NCL2	4,662.18	
27 52 23 00-0008 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 16+ Units; NCL2	4,141.95	
27 52 23 00-0009 EA Resident Bed Station With Relay; N45	1,078.18	
27 52 23 00-0010 EA Bed Push Button For Use With N45 (9'); RB13-9	522.92	
27 52 23 00-0011 EA Pull Cord Replacement For S35; S35PC	36.01	
27 52 23 00-0012 EA Wall Mount Pull-Cord Transmitter/Mounting Hardware - Auto Supervision; S35S	763.49	
27 52 23 00-0013 EA Wall Mount Pull-Cord Transmitter/Mounting Hardware - Assist Tone; S35A	763.49	
27 52 23 00-0014 EA Remote Reset Button; S35R	741.24	
27 52 23 00-0015 EA Waterproof Wrist Transmitter (Automatic Supervision); S37	519.74	
27 52 23 00-0016 EA Wrist Band Replacement For S37; S37WB	45.55	
27 52 23 00-0017 EA Locate 1 Waterproof Wrist Transceiver; S37L	637.35	



Communications			27
Distributed Communications and Monitoring Systems			27 50
Healthcare Communications and Monitoring Systems			27 52

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 52 23 00-0018 EA Locate 1 Beacon; IS75	2,030.92	
27 52 23 00-0019 EA Wireless Smoke Detector Transmitter; SD35	1,296.46	
27 52 23 00-0020 EA Wireless Door Contact Transmitter; RAC35	1,007.19	
27 52 23 00-0021 EA Wireless Time Controlled Door Contact; RAC45	1,007.19	
27 52 23 00-0022 EA Local Receiver With Relay (110 Volt AC); LE9	1,248.78	
27 52 23 00-0023 EA Voice Response Unit (Rechargeable Battery Included); S10	2,127.17	
27 52 23 00-0024 EA Alarm Receiving Unit (Rechargeable Battery Included); ARU	4,229.20	
27 52 23 00-0025 EA NurseCall Programming Software; NPS	11,834.66	
27 52 23 00-0026 EA NurseCall Printer Interface; NCPI	4,016.47	
27 52 23 00-0027 EA NurseCall Computer Center (Includes NurseCall Software, PC, Monitor, Printer And UPS); NCCN	20,862.17	
27 52 23 00-0028 EA 9V NiMH Rechargeable Battery (Replacement For S10, NCM2, And NCL2); NMH9R	93.75	
27 52 23 00-0029 EA 6V Lithium Battery (Replacement For S35 And RAC35); LIT6	84.21	
27 52 23 00-0030 EA 9V Alkaline Battery (Replacement For N45); ALK9	39.71	
27 52 23 00-0031 EA Giant LED Single Sided Display; NCGD	20,587.03	
27 52 23 00-0032 EA Serial Printer; NCSP	2,134.37	
27 52 23 00-0033 EA Modular Duplex T-Adapter (Replacement For S10); SE-486A	42.37	
27 52 23 00-0034 EA AC Adapter (Replacement For S10); STA-4110A	80.51	
27 52 23 00-0035 EA S10 Phone Cord (Replacement For S10); STC	42.37	
27 52 23 00-0036 EA Waveware Paging System, Use With NCCN (Dell Computer); SPS-5	9,126.41	
27 52 23 00-0037 EA Waveware Pagers; DAP-040	1,286.22	
27 52 23 00-0038 Wireless Nurses Call Tele/Management System (27 52 23 00-0001)		
27 52 23 00-0039 EA Tele/Management Unit; TP12	5,030.77	
27 52 23 00-0040 EA Tele/Management Software; TP12S	4,842.85	
27 52 23 00-0041 Wireless Nurses Call Paging System (27 52 23 00-0001)		
27 52 23 00-0042 EA Standard Paging System (2.5 Watt Transmitter); RPE673	14,838.23	
27 52 23 00-0043 EA Removal And Replacement Of Antenna For RPE673; RPE673AN	1,040.23	
27 52 23 00-0044 EA Removal And Replacement Of Power For RPE673; RPE673PS	1,402.60	
27 52 23 00-0045 EA Alphanumeric Pager; RPR583	1,717.29	
27 52 23 00-0046 EA Removal And Replacement Of Holster For RPR583; RPR583H	94.24	
27 52 23 00-0047 Equipment Nurses Call Systems (27 52 23)		
27 52 23 00-0048 EA Nurses Call System, Page/Talk Relay Intercommunication Equipment	318.78	71.51
27 52 23 00-0049 EA Nurses Call System, Main Equipment Panel Intercommunication Equipment	3,416.39	286.06
27 52 23 00-0050 EA Nurses Call System, Re-Entrant Horn Intercommunication Equipment	336.34	93.52
27 52 23 00-0051 EA Nurses Call System, Nurses Control Station Intercommunication Equipment	1,645.65	275.06
27 52 23 00-0052 EA Nurses Call System, Duty Station Intercommunication Equipment	830.76	214.54
27 52 23 00-0053 EA Nurses Call System, Staff Station Intercommunication Equipment	435.70	71.51
27 52 23 00-0054 EA Nurses Call System, Single Bedside Station Intercommunication Equipment	412.60	71.51
27 52 23 00-0055 EA Nurses Call System, Double Bedside Station Intercommunication Equipment	630.40	125.15
27 52 23 00-0056 EA Nurses Call System, Emergency Call Button Intercommunication Equipment	188.41	55.01
27 52 23 00-0057 EA Nurses Call System, Pull Cord Button Intercommunication Equipment	173.54	55.01
27 52 23 00-0058 EA Nurses Call System, Single Dome Light Intercommunication Equipment	125.56	35.76
27 52 23 00-0059 EA Nurses Call System, Double Dome Light Intercommunication Equipment	182.06	55.01
27 52 23 00-0060 EA Nurses Call System, Pillow Speaker Intercommunication Equipment	279.06	35.76
27 52 23 00-0061 EA Nurses Call System, Cord Set Intercommunication Equipment	136.76	35.76
27 52 23 00-0062 EA Nurse Call System, Master-20 Station	6,980.45	275.06
27 52 23 00-0063 EA Dukane Duty Station - Tone Only, PC1000	1,140.25	214.68
27 53 Distributed Systems (27 50)		
27 53 13 Clock Systems (27 53)		
27 53 13 13 Wireless Clock Systems (27 53 13)		
27 53 13 13-0001 Wireless Synchronized GPS Clock System (Sapling) (27 53 13 13)		
27 53 13 13-0002 Master Clock (Sapling SMA 2000 Series) (27 53 13 13-0001)		
Note: Includes Sapling standard 2 year "material" warranty and applies to Master Clocks, Analog Clocks, Digital Clocks and Converter Boxes.		
27 53 13 13-0003 EA Master Clock, 900 MHz Transmitter, GPS, Surface Wall Mount (Sapling SMA-2S0-1100-1)	8,510.42	103.14
27 53 13 13-0004 EA Master Clock, 900 MHz Transmitter, GPS, Rack Mount And Wall Mount Antenna (Sapling SMA-2R0-1100-1)	8,998.90	103.14
27 53 13 13-0005 EA Master Clock, 900 MHz Transmitter, Surface Wall Mount (Sapling SMA-2S0-1000-1)	4,846.83	103.14
27 53 13 13-0006 EA Master Clock, 900 MHz Transmitter, Rack Mount And Wall Mount Antenna (Sapling SMA-2R0-1000-1)	5,335.31	103.14
27 53 13 13-0007 EA NTP Server Upgrade (Sapling SMA-000-SERV-0)	3,343.40	
27 53 13 13-0008 Wireless Repeaters (Sapling) (27 53 13 13-0001)		
27 53 13 13-0009 EA Wireless Repeater, 900 MHz, RS485 Input, Surface Wall Mount (Sapling SMA-1SR-0000-1)	2,085.63	68.76
27 53 13 13-0010 EA Wireless Network Repeater, 900 MHz, 110 VAC - 230 VAC, With TCP/IP For Campus Environments, Surface Wall Mount (Sapling SMA-1SM-0000-1)	2,335.68	68.76
27 53 13 13-0011 Wireless Round Analog Clocks (Sapling SAL-4 Series) (27 53 13 13-0001)		
Note: Includes Sapling standard 2 year "material" warranty and applies to Master Clocks, Analog Clocks, Digital Clocks and Converter Boxes.		

27 Communications**27 50 Distributed Communications and Monitoring Systems****27 53 Distributed Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 13-0012	EA	Analog, Wireless Slim Line, 900 MHz, 12" Round, Battery-Operated, Surface Wall Mount, Black Case (Sapling SAL-4BS-12R-0).....	453.78	34.38	
27 53 13 13-0013	EA	Double Mount Housing With Metal Pole For Slim Line 12" Round Analog Clock, Black (Sapling SAH-1BD-12R-0).....	288.08	34.38	
27 53 13 13-0014	EA	Analog, Wireless Slim Line, 900 MHz, 16" Round, Battery-Operated, Surface Wall Mount, Black Case (Sapling SAL-4BS-16R-0).....	541.79	34.38	
27 53 13 13-0015	EA	Double Mount Housing With Metal Pole For Slim Line 16" Round Analog Clock, Black (Sapling SAH-1BD-16R-0).....	324.63	34.38	
27 53 13 13-0016 Wireless GPS Accessories (Sapling) (27 53 13 13-0001)					
27 53 13 13-0017	EA	GPS Mounting Kit (Sapling M-GPS-MTG-KIT-1).....	91.79	27.50	
27 53 13 13-0018	EA	Wall Mount, L-Shape, GPS Mounting Kit (Sapling M-GPS-MTG90-KIT-1).....	128.56	27.50	
27 53 13 13-0019	EA	GPS Antenna Cable, 150 Foot (45.7 Meters) Length (Sapling E-ANT-CBL150F-1).....	1,085.74	60.17	
27 53 13 13-0020	EA	GPS Antenna Cable, 300 Foot (91.4 Meters) Length (Sapling E-ANT-CBL300F-1).....	1,927.18	85.96	
27 53 13 13-0021	EA	GPS Surge Protector/Arrestor (Sapling E-GPS-SURGE-1).....	671.99	6.87	
27 53 13 13-0022 2.4 GHz, 2.5", 6-Digit, Digital Messaging Wireless Clock System (Sapling SLDG 3000 Series) (27 53 13 13)					
Note: Includes Sapling standard 2 year "material" warranty and applies to Master Clocks, Analog Clocks, Digital Clocks and Converter Boxes. Quantities over 25 for all digital clocks are Non-Cancelable, Non-Returnable (NCNR). (50) Clock Minimum Quantity Required Per System order for SLDG-32S-256-4R. (25) Clock Minimum Quantity Required Per System order for SLDG-32S-256-1R. All digital clocks are available without bezel or without the housing. Contact Sapling for details. Contact Sapling for Factory Customized Message Options. All digital clocks are pre-loaded and shipped with the following messages below: (1) Tornado Warning (2) Inclement Weather (3) Take Cover (4) Evacuate (5) Lockdown (6) Fire (7) Early Dismissal (8) Flood Warning (9) Earthquake (10) Code Blue (11) All Clear (12) Operation in Progress (13) Test in Progress (14) Lunch Break (15) Shift Break.					
27 53 13 13-0023	EA	3200 Digital Messaging Wireless Clock, 2.4 GHz, 2.5", Dot Matrix Red Display, 24 VAC/VDC, Surface Wall Mount (Sapling SLDG-32S-256-4R).....	1,434.81	103.14	
Note: Capability to interface with either Sapling's Elapsed Timer Control Panel Or Sapling Temperature Sensor.					
27 53 13 13-0024	EA	3200 Digital Messaging Wireless Clock, 2.4 GHz, 2.5", Dot Matrix Red Display, 110 Volt, Surface Wall Mount (Sapling SLDG-32S-256-1R).....	1,467.29	103.14	
Note: Capability to interface with either Sapling's Elapsed Timer Control Panel Or Sapling Temperature Sensor.					
27 53 13 13-0025	EA	3300 Digital Messaging Wireless Clock, 2.4 GHz, 2.5", Dot Matrix Red Display, 24 VAC/VDC, Surface Wall Mount And Relay Output/Input (Sapling SLDG-33S-256-4R).....	1,754.75	103.14	
Note: Capability to interface with either Sapling's Elapsed Timer Control Panel Or Sapling Temperature Sensor.					
27 53 13 13-0026	EA	3300 Digital Messaging Wireless Clock, 2.4 GHz, 2.5", Dot Matrix Red Display, 110 Volt, Surface Wall Mount And Relay Output/Input (Sapling SLDG-33S-256-1R).....	1,787.22	103.14	
Note: Capability to interface with either Sapling's Elapsed Timer Control Panel Or Sapling Temperature Sensor.					
27 53 13 13-0027	EA	Short Metal Pole For Ceiling Mount Only For Double/Flag Mount, 8.5", Digital Or Square Analog Clock, Black (Sapling SAB-1BD-01S-0).....	194.64	27.50	
27 53 13 13-0028	EA	Metal Pole For Double/Flag Mount, Wall Or Ceiling, 13.5", Digital Or Square Analog Clock, Black (Sapling SAB-1BD-00S-0).....	194.64	27.50	
27 53 13 13-0029	EA	Set-up Charge For Clock Message, Per Clock (Sapling CLK-MSG-SETUP).....	33.43		
27 53 13 13-0030	EA	USB Programming Cable + Software For 3200/3300 Digital Clocks (Sapling D-USB485-INTF-1).....	270.16	3.44	
27 53 13 13-0031	EA	Elapsed Timer Control Panel For 3200/3300 Clock Model (Sapling SBD-ELT-001-0).....	540.35	6.87	
27 53 13 13-0032	EA	Elapsed Timer Specialty Buttons Kit (Sapling SBD-ELT-BUT-0).....	98.81	3.44	
27 53 13 13-0033	EA	Elapsed Timer Clear Protective Cover - Set of 2 Covers (Sapling A-ELT-CLR-GUARD-1).....	19.76	0.69	
27 53 13 13-0034	EA	Temperature Sensor for 3200/3300 Digital Clock Model (Sapling SBD-TEMP-000-0).....	124.09	6.87	
27 53 13 13-0035 2.4 GHz Wireless Message System/Master Clock And Transmitter (Sapling SMM 3000 Series) (27 53 13 13)					
Note: Includes Sapling standard 2 year "material" warranty and applies to Master Clocks, Analog Clocks, Digital Clocks and Converter Boxes.					
27 53 13 13-0036	EA	Master Clock With 2.4 GHz Transmitter For Time Data And Messages, Rack Mount And Wall Remote Mount Antenna, 8 Programmable Relays/Zones (Sapling SMM-3R0-G008-1).....	7,065.94	103.14	
27 53 13 13-0037	EA	Master Clock With 2.4 GHz Transmitter And GPS For Time Data And Messages, Rack Mount And Wall Remote Mount Antenna, 8 Programmable Relays/Zones (Sapling SMM-3R0-G108-1).....	9,719.93	103.14	
27 53 13 13-0038	EA	Message Input Box, 16 Inputs, Rack Mount, For SMM Master Clock (Sapling SMI-000-0016-0).....	3,121.51	68.76	
27 53 13 13-0039	EA	Wireless Network Repeater, 2.4 GHz, 110 VAC - 230 VAC, with TCP/IP for Campus Environments, Surface Wall Mount (Sapling SMA-1SM-G000-1).....	1,796.27	68.76	
27 53 13 13-0040	EA	NTP Server Upgrade (Sapling SMA-000-SERV-0).....	3,343.40		
27 53 13 13-0041	EA	Countdown Feature Upgrade (Sapling SMA-000-CDOW-0).....	1,654.98		
27 53 13 13-0042 Clear Polycarbonate Protective Covers For Wireless Clocks (Sapling) (27 53 13 13)					
Note: For applications requiring defense against constant moisture or fine dust, a silicone sealant between the cover and wall is recommended.					
27 53 13 13-0043	EA	Clear Polycarbonate Protective Cover For 9" Square And 12" Round Analog Clock (Sapling SAG-CLR-COVR-12).....	455.65	17.19	
27 53 13 13-0044	EA	Clear Polycarbonate Protective Cover For 2.5" Digital Clock (Sapling SDG-CLR-COVR-25).....	455.65	17.19	
27 53 13 13-0045 Wire Guards For Wireless Synchronized Clocks (Sapling) (27 53 13 13)					
27 53 13 13-0046	EA	Wire Guard For Round Or Square Analog Clocks (Sapling SAG-1200).....	253.21	17.19	
27 53 13 13-0047	EA	Wire Guard for 2.5" or 4.0" Digital Clocks (Sapling SDG-2017).....	351.88	17.19	
27 53 13 13-0048 Wireless Synchronized Clock Transmitters (27 53 13 13)					
27 53 13 13-0049 Analog, Wireless Synchronized Clocks (Primex Traditional Series) (27 53 13 13-0048)					



Communications			27
Distributed Communications and Monitoring Systems			27 50
Distributed Systems			27 53

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 13-0050 EA 12.5", Battery Operated, Single Sided, Analog, Wireless Synchronized Clock.....	339.80	34.38
For >100 To 250, Deduct	-59.08	
For >250, Deduct	-69.92	
27 53 13 13-0051 EA 12.5", Battery Operated, Dual Sided, Analog, Wireless Synchronized Clock	610.84	34.38
For >100 To 250, Deduct	-40.11	
For >250, Deduct	-48.24	
27 53 13 13-0052 EA 16", Battery Operated, Single Sided, Analog, Wireless Synchronized Clock.....	395.88	34.38
For >100 To 250, Deduct	-69.18	
For >250, Deduct	-82.26	
27 53 13 13-0053 EA 12.5", Electric, Single Sided, Analog, Wireless Synchronized Clock	386.53	34.38
For >100 To 250, Deduct	-67.49	
For >250, Deduct	-80.20	
27 53 13 13-0054 EA 12.5", Electric, Dual Sided, Analog, Wireless Synchronized Clock	704.30	34.38
For >100 To 250, Deduct	-45.25	
For >250, Deduct	-54.78	
27 53 13 13-0055 EA 16", Electric, Single Sided, Analog, Wireless Synchronized Clock	442.61	34.38
For >100 To 250, Deduct	-51.42	
For >250, Deduct	-66.37	
27 53 13 13-0056 Digital, Wireless Synchronized Clocks (Primex Digital Series) (27 53 13 13-0048)		
27 53 13 13-0057 4-Digit, Digital, Wireless Synchronized Clocks (27 53 13 13-0056)		
27 53 13 13-0058 EA 2.5", Single Sided, 4-Digit, Red LED Digital, Wireless Synchronized Clock	498.68	34.38
For Green LED, Add	42.99	
For >100 To 250, Deduct	-44.69	
For >250, Deduct	-66.18	
27 53 13 13-0059 EA 2.5", Dual Sided, 4-Digit, Red LED Digital, Wireless Synchronized Clock	928.61	34.38
For Green LED, Add	85.99	
For >100 To 250, Deduct	-96.28	
For >250, Deduct	-242.45	
27 53 13 13-0060 EA 4", Single Sided, 4-Digit, Red LED Digital, Wireless Synchronized Clock	554.76	34.38
For Green LED, Add	48.60	
For >100 To 250, Deduct	-32.16	
For >250, Deduct	-46.74	
27 53 13 13-0061 EA 4", Dual Sided, 4-Digit, Red LED Digital, Wireless Synchronized Clock	1,040.76	34.38
For Green LED, Add	97.20	
For >100 To 250, Deduct	-88.05	
For >250, Deduct	-272.73	
27 53 13 13-0062 6-Digit, Digital, Wireless Synchronized Clocks (27 53 13 13-0056)		
27 53 13 13-0063 EA 2.5", Single Sided, 6-Digit, Red LED Digital, Wireless Synchronized Clock	554.76	34.38
For Green LED, Add	48.60	
For >100 To 250, Deduct	-37.02	
For >250, Deduct	-52.58	
27 53 13 13-0064 EA 2.5", Dual Sided, 6-Digit, Red LED Digital, Wireless Synchronized Clock	1,040.76	34.38
For Green LED, Add	97.20	
For >100 To 250, Deduct	-79.31	
For >250, Deduct	-185.25	
27 53 13 13-0065 EA 2.5", Flush Mount, 6-Digit, Red LED Digital, Wireless Synchronized Clock.....	648.22	34.38
For Green LED, Add	57.95	
For >100 To 250, Deduct	-30.58	
For >250, Deduct	-45.06	
27 53 13 13-0066 Wire Guards For Wireless Synchronized Clocks (27 53 13 13-0048)		
27 53 13 13-0067 EA 18" x 18" Analog Clock Wire Guard For 16" Wireless Synchronized Clocks	174.57	17.19
27 53 13 13-0068 EA Digital Clock Wire Guard For 2.5" Wireless Synchronized Clocks	81.11	17.19
27 53 13 13-0069 EA Digital Clock Wire Guard For 4" Wireless Synchronized Clocks	90.46	17.19
27 53 13 13-0070 Wireless Synchronized Clock Transmitters (27 53 13 13-0048)		
Note: Includes 16 channel transmitter with daylight savings bypass and time zone switch, GPS receiver, 16' cable and window installation hardware.		
27 53 13 13-0071 EA Internal Antenna, One Watt GPS Wireless Clock Transmitter (Primex 14000).....	3,748.48	103.14
For Roof Mounted GPS Receiver, Add	560.11	
27 53 13 13-0072 EA External Antenna, One Watt GPS Wireless Clock Transmitter (Primex 14000-E).....	6,094.36	103.14
Note: Includes 100' antenna cable, 29.4" high x 41.5" wide ground plane antenna with direct ground lightning protection.		
For Roof Mounted GPS Receiver, Add	794.70	
27 53 13 13-0073 EA Repeater, Satellite Transmitter (Primex 14006).....	3,679.72	68.76
Note: Includes 100' antenna cable, 29.4" high x 41.5" wide ground plane antenna with direct ground lightning protection.		
27 53 13 13-0074 Accessories For Wireless Synchronized Clock Transmitters (27 53 13 13-0048)		
27 53 13 13-0075 EA External Antenna Mounting Kit For Wireless Synchronized Clock Transmitters	335.39	27.50
27 53 13 13-0076 EA Transmitter Rack For Wireless Synchronized Clock Transmitters	152.21	27.50
27 53 13 13-0077 EA Surge Protector And Battery Back Up For Wireless Synchronized Clock Transmitters	223.11	13.76
27 53 13 13-0078 EA 50' GPS Receiver Cable For Wireless Synchronized Clock Transmitters.....	194.00	34.38
27 53 13 13-0079 EA 100' GPS Receiver Cable For Wireless Synchronized Clock Transmitters.....	271.37	51.57
27 53 13 13-0080 EA 200' GPS Receiver Cable For Wireless Synchronized Clock Transmitters.....	399.22	68.76

27 Communications**27 50 Distributed Communications and Monitoring Systems****27 53 Distributed Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 53 13 16 Wired Clock Systems (27 53 13)

27 53 13 16-0001	Wired Self-Corrective Clock Systems (27 53 13 16)		
27 53 13 16-0002	Wired Self-Corrective Clocks (27 53 13 16-0001)		
27 53 13 16-0003	Analog, Wired Self-Corrective Clocks (Telecor) (27 53 13 16-0002)		
27 53 13 16-0004	24 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0005	EA 12", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	290.26	34.38
	For >50 To 100, Deduct	-19.15	
	For >100, Deduct	-28.01	
27 53 13 16-0006	EA 12", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	685.61	34.38
	For >50 To 100, Deduct	-34.97	
	For >100, Deduct	-59.64	
27 53 13 16-0007	EA 16", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	363.16	34.38
	For >50 To 100, Deduct	-25.01	
	For >100, Deduct	-36.79	
27 53 13 16-0008	EA 16", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	904.31	34.38
	For >50 To 100, Deduct	-93.85	
	For >100, Deduct	-127.27	
27 53 13 16-0009	120 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0010	EA 12", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	290.26	34.38
	For >50 To 100, Deduct	-19.15	
	For >100, Deduct	-28.01	
27 53 13 16-0011	EA 12", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	685.61	34.38
	For >50 To 100, Deduct	-34.97	
	For >100, Deduct	-59.64	
27 53 13 16-0012	EA 16", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	363.16	34.38
	For >50 To 100, Deduct	-25.01	
	For >100, Deduct	-36.79	
27 53 13 16-0013	EA 16", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	904.31	34.38
	For >50 To 100, Deduct	-93.85	
	For >100, Deduct	-127.27	
27 53 13 16-0014	Accessories For Analog Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0015	EA Wire Guards For 12", 15" Or 16" Analog Wired Self-Corrective Clocks	237.66	17.19
27 53 13 16-0016	EA Back Box For 10", 12" Or 15" Flush Mount Analog Wired Self-Corrective Clocks	62.42	17.19
27 53 13 16-0017	EA Surface Mounting Rings For 12" Analog Wired Self-Corrective Clocks	78.55	17.19
27 53 13 16-0018	EA Surface Mounting Rings For 15" Analog Wired Self-Corrective Clocks	95.37	17.19
27 53 13 16-0019	EA Combination Back Box For Speaker And Clock.....	170.74	27.50
27 53 13 16-0020	Digital, Wired Self-Corrective Clocks (Telecor) (27 53 13 16-0002)		
27 53 13 16-0021	24 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0022	EA 2.5", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	357.56	34.38
	For Surface Mount, Add	57.76	
	For >50 To 100, Deduct	-17.33	
	For >100, Deduct	-28.88	
27 53 13 16-0023	EA 4", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	548.22	34.38
	For Surface Mount, Add	95.89	
	For >50 To 100, Deduct	-28.77	
	For >100, Deduct	-47.95	
27 53 13 16-0024	120 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0025	EA 2.5", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	357.56	34.38
	For Surface Mount, Add	57.76	
	For >50 To 100, Deduct	-17.33	
	For >100, Deduct	-28.88	
27 53 13 16-0026	EA 4", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	548.22	34.38
	For Surface Mount, Add	95.89	
	For >50 To 100, Deduct	-28.77	
	For >100, Deduct	-47.95	
27 53 13 16-0027	Replacement Modules For 24 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0028	EA 2.5", Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	306.40	34.38
	For >50 To 100, Deduct	-14.26	
	For >100, Deduct	-23.76	
27 53 13 16-0029	EA 4" Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	501.95	34.38
	For >50 To 100, Deduct	-25.99	
	For >100, Deduct	-43.32	
27 53 13 16-0030	Replacement Modules For 120 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		



Communications			27	27
Distributed Communications and Monitoring Systems			27 50	
Distributed Systems			27 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 16-0031 EA 2.5", Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	306.40 -14.26 -23.76	34.38
27 53 13 16-0032 EA 4" Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	501.95 -25.99 -43.32	34.38
27 53 13 16-0033 Accessories For Digital Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0034 EA Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks.....	323.18	17.19
27 53 13 16-0035 EA 2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	79.24	17.19
27 53 13 16-0036 EA 4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	108.68	17.19
27 53 13 16-0037 EA Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks	282.52	17.19
27 53 13 16-0038 EA 4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks.....	81.35	17.19
27 53 13 16-0039 Wired Self-Corrective Master Clocks (27 53 13 16-0001)		
27 53 13 16-0040 Wired Self-Corrective Master Clocks (27 53 13 16-0039)		
27 53 13 16-0041 EA 24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24).....	3,348.34	275.06
27 53 13 16-0042 EA 120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120).....	3,558.63	275.06
27 53 13 16-0043 Accessories For Wired Self-Corrective Master Clocks (27 53 13 16-0039)		
27 53 13 16-0044 EA 5 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405).....	349.93	68.76
27 53 13 16-0045 EA 10 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406).....	394.08	68.76
27 53 13 16-0046 Other Clock And Program Systems (27 53 13 16)		
27 53 13 16-0047 EA 4 Circuit Master Clock And Signal Control (Lathem LTR4-512).....	2,116.39	137.53
27 53 13 16-0048 EA 8 Circuit Master Clock And Signal Control (Lathem LTR8-512).....	2,566.01	275.06
27 53 13 16-0049 EA Program Bell (Lathem 906-6).....	314.84	68.76
27 53 13 16-0050 EA Combination Clock And Speaker	715.80	171.90

END OF SECTION 27

27	27	Communications
	27 50	Distributed Communications and Monitoring Systems
	27 53	Distributed Systems



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST

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Electronic Safety and Security		28	28
Common Work Results for Electronic Safety and Security		28 05	
Grounding and Bonding for Electronic Safety and Security		28 05 26	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

28 Electronic Safety and Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

28 05 Common Work Results for Electronic Safety and Security ⁽²⁸⁾

28 05 26 Grounding and Bonding for Electronic Safety and Security ^(28 05)

See CSI section 26 05 26 00-0000 for grounding and bonding.

28 05 53 Identification for Electronic Safety and Security ^(28 05)

See CSI section 26 05 53 00-0000 for identification.

28 08 Commissioning of Electronic Safety and Security ⁽²⁸⁾

See CSI section 01 91 13 00-0001 for commissioning.

28 10 Access Control ⁽²⁸⁾

Note: Includes testing of new devices and certification.

28 15 Integrated Access Control Hardware Devices ^(28 10)

28 15 11 Integrated Credential Readers and Field Entry Management ^(28 15)

28 15 11 13 Keypads ^(28 15 11)

28 15 11 13-0001	Vindicator Security Alarm System ^(28 15 11 13)			
28 15 11 13-0002	EA	Switch, Balanced Magnetic Security Door (Vindicator #192-30894-00).....	1,801.45	286.74
28 15 11 13-0003	EA	Security Detector, Passive Infrared (Vindicator #316-30812-00).....	2,276.47	372.70
28 15 11 13-0004	EA	Premise Security Control Unit (Vindicator #548-32004-01)	12,338.24	816.91
28 15 11 13-0005	EA	Access Manager Security Key Pad (Vindicator #548-31894-01)	5,839.38	696.16
28 15 11 13-0006	EA	ALS Duress Security Switch (Vindicator #192-30810-00).....	1,452.14	380.81

28 16 Access Control Interfaces ^(28 10)

28 16 11 Access Control Interfaces to Access Control Hardware ^(28 16)

28 16 11 00-0001	Stand-Alone Access Controls (28 16 11)			
28 16 11 00-0002	Push Button Controls, Stand-Alone Access Controls (28 16 11 00-0001)			
28 16 11 00-0003	Interior Mount, Push Button Controls, Stand-Alone Access Controls (28 16 11 00-0002)			
28 16 11 00-0004	EA	Exit Push Button, Push Button Controls, Interior Stand-Alone Access Controls.....	169.15	34.38
		Note: Controls mount to a standard mullion.		
28 16 11 00-0005	EA	Exit Push Button, Push Button Controls, Interior Stand-Alone Access Controls.....	177.52	34.38
		Note: Controls mount into a single gang electrical box. Excludes electrical box.		
28 16 11 00-0006	EA	Three Button, Push Button Controls, Interior Stand-Alone Access Controls For Gate Operators.....	225.62	34.38
		Note: Controls mount into a single gang electrical box. Excludes electrical box.		
28 16 11 00-0007	Exterior Mount, Push Button Controls, Stand-Alone Access Controls (28 16 11 00-0002)			
		Note: Includes a lockable, gasketed 16 gauge steel enclosure. Excludes mounting posts.		
28 16 11 00-0008	EA	Handicap/Push To Open, Push Button Controls, Exterior Stand-Alone Access Controls.....	213.77	34.38
		Note: Controls mount into a single gang electrical box. Excludes electrical box.		
28 16 11 00-0009	EA	42" High Aluminum Post With Handicap/Push To Open, Push Button Controls, Exterior Stand-Alone Access Controls.....	1,040.11	103.14
		Note: Includes post, mounting base and push button control. Excludes concrete foundation.		
28 16 11 00-0010	EA	Three Button, Exterior Stand-Alone Access Controls For Gate Operators	351.12	34.38
		Note: Includes open, close and stop controls.		
28 16 11 00-0011	Key Controls, Stand-Alone Access Controls (28 16 11 00-0001)			
28 16 11 00-0012	Interior Mount, Key Controls, Stand-Alone Access Controls (28 16 11 00-0011)			
28 16 11 00-0013	EA	Standard Mortise Key, Key Controls, Interior Stand-Alone Access Controls	241.31	34.38
		Note: Controls mount into a single gang electrical box. Excludes electrical box.		
28 16 11 00-0014	Exterior Mount, Key Controls, Stand-Alone Access Controls (28 16 11 00-0011)			
		Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0015	EA	Postal Or Fire Department Lock Box, Key Controls, Exterior Stand-Alone Access Controls	367.60	68.76
		Note: Opens door or gate with a postal or fire department key.		
28 16 11 00-0016	EA	Standard Mortise Key, Key Controls, Exterior Stand-Alone Access Controls	589.30	68.76
28 16 11 00-0017	EA	Ace Key, Key Controls, Exterior Stand-Alone Access Controls	589.30	68.76
28 16 11 00-0018	EA	Standard Mortise Key And Push Button Intercom, Key Controls, Exterior Stand-Alone Access Controls	907.21	68.76
28 16 11 00-0019	Keypad Controls, Stand-Alone Access Controls (28 16 11 00-0001)			
28 16 11 00-0020	Interior Mount, Keypad Controls, Stand-Alone Access Controls (28 16 11 00-0019)			

28 Electronic Safety and Security**28 10 Access Control****28 16 Access Control Interfaces**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0021 EA One Code Memory, Keypad Control, Interior Stand-Alone Access Controls Note: Stores one 4-digit entry code and one 4-digit hold code. Controls mount into a single gang electrical box. Excludes electrical box.	340.66	34.38
28 16 11 00-0022 Exterior Mount, Keypad Controls, Stand-Alone Access Controls (28 16 11 00-0019) Note: Includes a surface mounted lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0023 Keypad Controls, Exterior Stand-Alone Access Controls (28 16 11 00-0022)		
28 16 11 00-0024 EA 1000 Code Memory, Keypad Control, Exterior Stand-Alone Access Controls Note: Includes lighted keypad. Stores one thousand 4-digit entry codes and six 5-digit entry codes. For Flush Mount, Add	1,425.40 258.83	137.53
28 16 11 00-0025 Keypad Controls With Push Button Intercom, Exterior Stand-Alone Access Controls (28 16 11 00-0022) Note: Includes intercom sub-station. Excludes additional receiving intercoms.		
28 16 11 00-0026 EA 1000 Code Memory, Keypad Controls With Push Button Intercom, Exterior Stand-Alone Access Controls Note: Includes lighted keypad. Stores one thousand 4-digit entry codes and six 5-digit entry codes. For Flush Mount, Add	1,731.67 320.00	154.72
28 16 11 00-0027 RF Controls, Stand-Alone Access Controls (28 16 11 00-0001)		
28 16 11 00-0028 Exterior Mount, RF Controls, Stand-Alone Access Controls (28 16 11 00-0027) Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts and transmitters.		
28 16 11 00-0029 RF Receivers, RF Controls, Exterior Stand-Alone Access Controls (28 16 11 00-0028) Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts and transmitters.		
28 16 11 00-0030 EA 50 Code Memory, RF Receiver, RF Controls, Exterior Stand-Alone Access Controls 28 16 11 00-0031 EA 100 Code Memory, RF Receiver, RF Controls, Exterior Stand-Alone Access Controls 28 16 11 00-0032 EA 250 Code Memory, RF Receiver, RF Controls, Exterior Stand-Alone Access Controls 28 16 11 00-0033 EA 500 Code Memory, RF Receiver, RF Controls, Exterior Stand-Alone Access Controls 28 16 11 00-0034 EA 1000 Code Memory, RF Receiver, RF Controls, Exterior Stand-Alone Access Controls 28 16 11 00-0035 EA 5000 Code Memory, RF Receiver, RF Controls, Exterior Stand-Alone Access Controls 28 16 11 00-0036 EA 16000 Code Memory, RF Receiver, RF Controls, Exterior Stand-Alone Access Controls	839.77 952.71 1,061.47 1,178.60 1,287.36 1,404.48 1,513.24	137.53 137.53 137.53 137.53 137.53 137.53 137.53
28 16 11 00-0037 RF Transmitters, RF Controls, Exterior Stand-Alone Access Controls (28 16 11 00-0028)		
28 16 11 00-0038 EA 1 Button, RF Transmitter, RF Controls, Exterior Stand-Alone Access Controls For >40 To 110, Deduct For >110, Deduct For Built In Proximity Tags, Add	71.11 -3.56 -7.11 14.22	
28 16 11 00-0039 EA 2 Button, RF Transmitter, RF Controls, Exterior Stand-Alone Access Controls For >40 To 110, Deduct For >110, Deduct For Built In Proximity Tags, Add	75.29 -3.76 -7.53 15.06	
28 16 11 00-0040 EA 3 Button, RF Transmitter, RF Controls, Exterior Stand-Alone Access Controls For >40 To 110, Deduct For >110, Deduct For Built In Proximity Tags, Add	79.48 -3.97 -7.95 15.90	
28 16 11 00-0041 Accessories For RF Receivers, Exterior Stand-Alone Access Controls (28 16 11 00-0028)		
28 16 11 00-0042 EA Coax Antenna Kit For RF Receivers, Exterior Stand-Alone Access Controls Note: Includes 15' of coax cable.	306.68	103.14
28 16 11 00-0043 EA Antenna Amplifier For RF Receivers, Exterior Stand-Alone Access Controls Note: Includes 20' of coax cable.	624.59	103.14
28 16 11 00-0044 EA Yagi High-Gain Antenna Kit For RF Receivers, Exterior Stand-Alone Access Controls Note: Includes 15' of coax cable.	566.03	103.14
28 16 11 00-0045 Proximity Card Controls, Stand-Alone Access Controls (28 16 11 00-0001)		
28 16 11 00-0046 Exterior Mount, Proximity Card Controls, Stand-Alone Access Controls (28 16 11 00-0045) Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0047 DKS Proximity Card Controls, Exterior Stand-Alone Access Controls (28 16 11 00-0046)		
28 16 11 00-0048 DKS Proximity Card Readers, Exterior Stand-Alone Access Controls (28 16 11 00-0047)		
28 16 11 00-0049 EA DKS Proximity Card Reader, Exterior Stand-Alone Access Controls	1,634.55	137.53
28 16 11 00-0050 AWID Proximity Card Controls, Exterior Stand-Alone Access Controls (28 16 11 00-0046)		
28 16 11 00-0051 AWID Proximity Card Readers, Exterior Stand-Alone Access Controls (28 16 11 00-0050)		
28 16 11 00-0052 EA AWID Proximity Card Reader, Exterior Stand-Alone Access Controls	1,780.96	137.53
28 16 11 00-0053 HID Proximity Card Controls, Exterior Stand-Alone Access Controls (28 16 11 00-0046)		



Electronic Safety and Security			28
Access Control			28 10
Access Control Interfaces			28 16

28

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0054		HID Proximity Card Readers, Exterior Stand-Alone Access Controls (28 16 11 00-0053)		
28 16 11 00-0055	EA	HID Proximity Card Reader, Exterior Stand-Alone Access Controls.....	2,115.60	137.53
28 16 11 00-0056		Magnetic Stripe Card Controls, Stand-Alone Access Controls (28 16 11 00-0001)		
28 16 11 00-0057		Interior Mount, Magnetic Stripe Card Controls, Stand-Alone Access Controls (28 16 11 00-0056)		
28 16 11 00-0058	EA	Magnetic Stripe Reader, Interior Stand-Alone Access Controls.....	965.26	137.53
28 16 11 00-0059		Exterior Mount, Magnetic Stripe Card Controls, Stand-Alone Access Controls (28 16 11 00-0056)		
		Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0060	EA	Magnetic Stripe Reader, Exterior Stand-Alone Access Controls	1,201.47	137.53
28 16 11 00-0061		Other Stand-Alone Access Controls (28 16 11 00-0001)		
28 16 11 00-0062	EA	Toggle Switch, Interior Access Controls For Gate Operators	162.88	34.38
		Note: Controls mount into a single gang electrical box. Excludes electrical box.		
28 16 11 00-0063	EA	Request To Exit Motion Detector (Bosch Security Systems DS160)	161.55	27.50
28 16 11 00-0064		Wiegand Output Access Controls (28 16 11)		
		Note: Excludes controllers.		
28 16 11 00-0065		Proximity Card Controls, Wiegand Output Access Controls (28 16 11 00-0064)		
28 16 11 00-0066		DKS, Proximity Card Controls, Wiegand Output Access Controls (28 16 11 00-0065)		
28 16 11 00-0067		DKS, Proximity Cards (28 16 11 00-0066)		
28 16 11 00-0068	EA	Clamshell Type, DKS Proximity Card (DKS 170).....	11.13	
28 16 11 00-0069	EA	ISO Compliant Graphics Card, DKS Proximity Card (DKS 80).....	18.35	
28 16 11 00-0070	EA	DKS Proximity Key Fob (DKS 50).....	19.33	
28 16 11 00-0071	EA	Active Tag, DKS Proximity Tag (DKS 150).....	109.32	
		Note: Battery powered tag to boost signal.		
28 16 11 00-0072	EA	Active Tag, DKS Proximity Tag (DKS 200).....	142.50	
		Note: Battery powered tag to boost signal.		
28 16 11 00-0073		DKS, Proximity Card Readers, Wiegand Output Access Controls (28 16 11 00-0066)		
28 16 11 00-0074	EA	Up To 2" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Small).....	566.36	171.90
28 16 11 00-0075	EA	Up To 3" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Mullion).....	566.36	171.90
28 16 11 00-0076	EA	Up To 4" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Single Gang)	566.36	171.90
28 16 11 00-0077	EA	Up To 30" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS).....	1,608.77	171.90
		Note: Includes mounting bracket and 12 Volt DC regulated power supply.		
28 16 11 00-0078		AWID, Proximity Card Controls, Wiegand Output Access Controls (28 16 11 00-0065)		
28 16 11 00-0079		AWID, Proximity Cards (28 16 11 00-0078)		
28 16 11 00-0080	EA	Clamshell Type, AWID Proximity Card (AWID Prox-Linc CS)	9.37	
28 16 11 00-0081	EA	ISO Compliant Graphics Card, AWID Proximity Card (AWID Prox-Linc GR)	14.64	
28 16 11 00-0082	EA	AWID Proximity Key Fob (AWID Prox-Linc KT).....	15.62	
28 16 11 00-0083	EA	Windshield Tag For LR 2000 Readers, AWID Proximity Tag	54.66	
28 16 11 00-0084	EA	Metal Mount Tag For LR 2000 Readers, AWID Proximity Tag	54.66	
28 16 11 00-0085		AWID, Proximity Card Readers, Wiegand Output Access Controls (28 16 11 00-0078)		
28 16 11 00-0086	EA	Up To 4" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID SR 2400).....	695.20	171.90
		Note: For mullion mounting.		
28 16 11 00-0087	EA	Up To 8" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MM 6800).....	976.30	171.90
		Note: For mullion mounting.		
28 16 11 00-0088	EA	Up To 8" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MM 6820).....	976.30	171.90
		Note: For single gang electrical box mounting.		
28 16 11 00-0089	EA	Up To 24" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MR 1824).....	1,612.68	171.90
		Note: Includes 12 Volt DC regulated power supply.		
28 16 11 00-0090	EA	Up To 11" Read Range, 12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID LR 2000).....	9,249.25	171.90
		Note: Includes mounting bracket and 12 Volt DC regulated power supply.		
28 16 11 00-0091		HID, Proximity Card Controls, Wiegand Output Access Controls (28 16 11 00-0065)		
28 16 11 00-0092		HID, Proximity Cards (28 16 11 00-0091)		
28 16 11 00-0093	EA	Clamshell Type, HID Proximity Card (HID ProxCARD II).....	21.63	

28 Electronic Safety and Security**28 10 Access Control****28 16 Access Control Interfaces**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0094	EA	ISO Compliant Graphics Card, HID Proximity Card (HID ISOProx II).....	28.66		
28 16 11 00-0095	EA	HID Proximity Key Fob (HID ProxKey II).....	29.44		
28 16 11 00-0096		HID, Proximity Card Readers, Wiegand Output Access Controls (28 16 11 00-0091)			
28 16 11 00-0097	EA	Up To 3" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID ProxPoint Plus).....	604.06		171.90
		Note: For mullion mounting. (HID P/N 6005).			
28 16 11 00-0098	EA	Up To 5" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID ThinLine II).....	709.21		171.90
		Note: For single gang electrical box mounting. (HID P/N 5395).			
28 16 11 00-0099	EA	Up To 5" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID MiniProx).....	788.07		171.90
		Note: For mullion mounting. (HID P/N 5365).			
28 16 11 00-0100	EA	EntryProx Single-Door Proximity Access Control.....	1,000.99		171.90
		Note: (HID P/N 4045) Stores up to 2,000 users and 1,000 time-stamped transactions 12 position keypad for Pin entry or programming optional use with card/key fob, code only or card plus pin code Wiegand output mode. Continental Instrument CICR2358P.			
28 16 11 00-0101		Contactless Smart Card Controls, Wiegand Output Access Controls (28 16 11 00-0064)			
28 16 11 00-0102		HID, Contactless Smart Cards (28 16 11 00-0101)			
28 16 11 00-0103	EA	2K Bits, Clamshell Type, HID iClass, Contactless Smart Card.....	17.18		
28 16 11 00-0104	EA	16K Bits, ISO Compliant Graphics Card, HID iClass, Contactless Smart Card.....	18.75		
28 16 11 00-0105	EA	16K Bits, Contactless Smartcard Key Fob, HID iClass, Contactless Smart Card.....	24.54		
28 16 11 00-0106	EA	16K Bits, Contactless Smartcard Tag, HID iClass, Contactless Smart Card.....	13.28		
		Note: Battery powered tag to boost signal.			
28 16 11 00-0107		HID, Contactless Smart Card Readers, Wiegand Output Access Controls (28 16 11 00-0101)			
28 16 11 00-0108	EA	Up To 3-1/4" Read Range, 5-16 Volt DC, HID iClass Contactless Smart Card Reader, Wiegand Output Access Controls (HID R10).....	653.64		171.90
		Note: For mullion mounting.			
28 16 11 00-0109	EA	Up To 4-1/4" Read Range, 5-12 Volt DC, HID iClass Contactless Smart Card Reader, Wiegand Output Access Controls (HID R40).....	911.32		171.90
		Note: For mullion mounting.			
28 16 11 00-0110	EA	Up To 4-1/4" Read Range, 5-12 Volt DC, HID iClass Contactless Smart Card Reader With Keypad, Wiegand Output Access Controls (HID RK40).....	1,491.09		171.90
		Note: For mullion mounting.			
28 16 11 00-0111		HID, Contactless Smart Card Programmer, Wiegand Output Access Controls (28 16 11 00-0101)			
28 16 11 00-0112	EA	HID iClass Contactless Smart Card Programmer, Wiegand Output Access Controls (HID CP400).....	4,751.92		171.90
		Note: For mullion mounting.			
28 16 11 00-0113		Call Station Controls, Wiegand Output Access Controls (28 16 11 00-0064)			
		Note: Includes intercom sub-station. Excludes additional receiving intercoms.			
28 16 11 00-0114	EA	Call Station With Entry Keypad, Exterior Wiegand Output Access Controls.....	1,849.72		171.90
		Note: For mullion mounting.			
28 16 11 00-0115	EA	Call Station With Proximity Card Reader, Exterior Wiegand Output Access Controls.....	1,535.99		171.90
		Note: For mullion mounting.			
28 16 11 00-0116		Biometrics Readers, Wiegand Output Access Controls (28 16 11 00-0064)			
28 16 11 00-0117	EA	Palm Reader Recognition System, Biometrics Readers, Wiegand Output Access Controls.....	7,235.01		137.53
28 16 11 00-0118	EA	CCD Camera, Face Image, Biometrics Readers, Wiegand Output Access Controls.....	8,834.35		137.53
28 16 11 00-0119	EA	Video Grabber Card For DFR Reader, Biometrics Readers, Wiegand Output Access Controls.....	3,489.82		137.53
28 16 11 00-0120	EA	Fingerprint Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Pass).....	2,407.02		137.53
28 16 11 00-0121	EA	Fingerprint Reader With HID Card Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Prox).....	2,683.10		137.53
28 16 11 00-0122	EA	Fingerprint Reader With Contactless Smart Card Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Smart).....	2,407.02		137.53
28 16 11 00-0123		Exterior Mounting Posts For Gate Operator Access Controls (28 16 11)			
		Note: Includes mounting plate for access controls, baked on enamel finish and mounting bolt covers. Excludes concrete pads and electrical connections.			
28 16 11 00-0124		2" x 2" Steel, Exterior Mounting Posts For Gate Operator Access Controls (28 16 11 00-0123)			
28 16 11 00-0125	EA	44" Tall, Gooseneck Style, Single Mount, 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls.....	552.21		52.32
		Note: Includes a 5" x 5" base plate.			
28 16 11 00-0126	EA	73" Tall, Gooseneck Style, Dual Mount, 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls.....	1,045.81		52.32
		Note: Includes an 8" x 8" base plate.			
28 16 11 00-0127	EA	Anchor Post For 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls.....	502.01		52.32
		Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.			



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0128			4" x 4" Steel, Exterior Mounting Posts For Gate Operator Access Controls ^(28 16 11 00-0123)		
28 16 11 00-0129	EA		59" Tall, Straight Style, Single Mount, 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls Note: Includes an 8" x 8" base plate.	987.26	62.78
28 16 11 00-0130	EA		49" Tall, Offset Style, Single Mount, 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls Note: Includes an 8" x 8" base plate and a 14" offset from back of post.	1,171.31	62.78
28 16 11 00-0131	EA		Anchor Post For 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.	732.09	62.78
28 16 11 00-0132			4" x 8" Steel, Exterior Mounting Posts For Gate Operator Access Controls ^(28 16 11 00-0123)		
28 16 11 00-0133	EA		59" Tall, Straight Style, Single Mount, 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls Note: Includes a 11" x 13" base plate.	3,147.81	78.47
28 16 11 00-0134	EA		50" Tall, Offset Style, Single Mount, 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls Note: Includes a 10" x 14" base plate and a 14" offset from back of post.	3,294.22	78.47
28 16 11 00-0135	EA		Anchor Post For 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.	1,390.93	26.16
28 16 11 00-0136	EA		48" Light Tower For 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls	2,185.71	78.47
28 16 11 00-0137			Access Control Accessories ^(28 16 11)		
28 16 11 00-0138	EA		6 Volt DC, 12 Volt DC, Or 24 Volt DC, At 4 Amperes, Power Supply/Charger (Altronix SMP-5)	695.51	
28 16 11 00-0139	EA		7 Amperes, 12 Volt, Battery	90.89	
28 16 11 00-0140	EA		18 Amperes, 12 Volt, Battery	202.60	
28 16 11 00-0141	EA		Door Personality Module (Sensormatic RM-4)	757.06	34.38
28 16 11 00-0142	EA		Mini-Alert Door Ajar Sounder (System Sensor PA400)	310.38	68.76
28 16 11 00-0143	EA		Recessed Contact For Steel Doors, Door Monitor Switch (Sentrol 1078C)	95.93	41.26
28 16 11 00-0144	EA		Access Control Systems Power Supply (Altronix AL400ULACMCB)	830.44	27.50
28 16 11 00-0145	EA		Surge Suppressor (Tripp-Lite IBAR4)	125.49	6.88
28 16 11 00-0146	EA		Door Strike Relay (Altronix RBSN-TTL)	89.49	27.50
28 16 11 00-0147	EA		4" Diameter x 74" High, Powder Coated Steel, Burial Mount Gooseneck For Access Control Devices (GNB-1) Note: Set in concrete.	527.47	
28 16 11 00-0148	EA		16-Zone Input, Door Controller Expansion Module With 16" SPI Cable (Kantech KT-MOD-INP16)	751.76	171.90
28 16 11 00-0149			Access Controllers ^(28 16 11)		
28 16 11 00-0150			Microterm Controller ^(28 16 11 00-0149)		
28 16 11 00-0151	EA		Microterm Stand-Alone One Or Two Door Processing Panel (Continental Instruments CICIP1100) Note: Up to 1,000 card capacity. Includes 2 alarm inputs, tamper alarm, and 3 relay outputs.	1,920.45	171.90
28 16 11 00-0152	EA		Microterm PC Board (Continental Instruments CICIP1100PCB)	1,383.85	103.14
28 16 11 00-0153	EA		Battery Standby For Microterm (Continental Instruments CICIP1100BAT-2) Note: Input 120 Volt AC, output 12 Volt DC to temporarily power the Microterm only.	656.19	
28 16 11 00-0154			Miniterm Controller ^(28 16 11 00-0149)		
28 16 11 00-0155	EA		Miniterm Two Reader Processing Panel (Continental Instrument CICIP1200) Note: Up to 3,000 card capacity. Includes 8 EOL Class A supervised alarm inputs, temper alarm, and 5 relay outputs. Complete in a lockable steel enclosure with battery standby for memory and system operation.	3,002.87	171.90
28 16 11 00-0156	EA		Miniterm PC Board (Continental Instrument CICIP1200PCB)	2,268.56	103.14
28 16 11 00-0157			Super-2 Controller ^(28 16 11 00-0149)		
28 16 11 00-0158	EA		Super-Two - Two Reader Processing Panel (Continental Instruments CICIP1300) Note: For use with CA3000 V2.0.25 and above. Up to a 125,000 card capacity, 8 EOL supervised alarm inputs, tamper, 5 relay outputs. Support for on-board LAN adapter, 57,600 baud rate, 6 access groups per card-holder and compressed data mode. Complete in a lockable steel enclosure with battery standby for memory and system operation.	2,224.66	171.90
28 16 11 00-0159	EA		Super-Two - PC Board (Continental Instruments CICIP1300BD)	1,524.79	103.14
28 16 11 00-0160	EA		Network Interface Board For Super-2 (Continental Instruments CICIP1300NETBD) Note: Optional on-board adapter allows for communication over TCP/IP.	422.95	103.14
28 16 11 00-0161			Smarterm Controller ^(28 16 11 00-0149)		
28 16 11 00-0162	EA		Smarterm Four Reader Processing Panel (Continental Instrument CICIP1400) Note: Card capacity up to 2,500. Includes 16 alarm inputs, tamper alarm, and 9 relay outputs. Complete in a lockable steel enclosure with battery standby for memory and system operation.	6,300.86	206.29
28 16 11 00-0163	EA		Smarterm PC Board (Continental Instrument CICIP1400PCB)	4,847.36	103.14
28 16 11 00-0164	EA		Smarterm Memory Board - 256K (Continental Instrument CICIP1400MB256-1) Note: Up to 10,000 cardholders.	1,886.87	103.14
28 16 11 00-0165	EA		Smarterm Memory Board - 2MB (Continental Instrument CICIP1400MB2-1) Note: Up to 50,000 cardholders.	2,682.07	103.14
28 16 11 00-0166	EA		Smarterm Relay Expander Board (Continental Instrument CICIP1400RB) Note: 16 Output relays, 8 alarm inputs.	2,086.21	103.14
28 16 11 00-0167	EA		Smarterm Alarm Expander Board (Continental Instrument CICIP1400RB) Note: (Supervised) 16 alarm inputs.	2,086.21	103.14
28 16 11 00-0168			Superterm-4 Controller ^(28 16 11 00-0149)		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0169	EA	Superterm-4 - Four Reader Processing Panel (Continental Instrument CICIP1400UL) Note: 20,000 card capacity, 12 supervised alarm inputs, tamper alarm, and 9 relay outputs. Complete in a painted steel enclosure with 7 AH battery standby for system operation.	5,815.61	206.29
28 16 11 00-0170	EA	Superterm-4 PC Board (Continental Instrument CICIP1400ULPCB).....	4,765.79	103.14
28 16 11 00-0171		Superterm-8 Controller (28 16 11 00-0149)		
28 16 11 00-0172	EA	Superterm-8 - Eight Reader Processing Panel (Continental Instrument CICIP1800) Note: Up to 20,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including 7 AH battery standby for memory and system operation.	7,742.16	343.82
28 16 11 00-0173	EA	Superterm-8 - Eight Reader Processing Panel, Expanded Power (Continental Instrument CICIP1800EXP)..... Note: With expanded power supply. (required if more than 1 relay expander board is used.) Up to 20,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including 7 AH battery standby for memory and system operation.	8,404.82	343.82
28 16 11 00-0174	EA	Superterm-8 PC Board (Continental Instrument CICIP1800PCB).....	6,417.30	103.14
28 16 11 00-0175		Turbo Superterm-4 Controller (28 16 11 00-0149)		
28 16 11 00-0176	EA	Turbo Superterm-4 - Four Reader Processing Panel (Continental Instrument CICIP1400ULT)..... Note: 20,000 Card capacity, 12 supervised alarm inputs, tamper alarm, and 9 relay outputs. Complete in a painted steel enclosure with 7 AH battery standby for system operation.	5,815.61	206.29
28 16 11 00-0177	EA	Turbo Superterm-4 PC Board (Continental Instrument CICIP1400ULTPCB).....	4,765.79	103.14
28 16 11 00-0178		Turbo Superterm-8 Controller (28 16 11 00-0149)		
28 16 11 00-0179	EA	Turbo Superterm-8 - Eight Reader Processing Panel (Continental Instrument CICIP1800T)..... Note: For use with CA3000 V2.0.25 and above. Up to 40,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including a 7 AH battery standby for memory and system operation.	7,742.16	343.82
28 16 11 00-0180	EA	Turbo Superterm-8 -Eight Reader Processing Panel, Expanded Power (Continental Instrument CICIP1800TEXP) Note: Required if more than one relay expander board is used. Up to 40,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including a 7 AH battery standby for memory and system operation.	8,404.82	343.82
28 16 11 00-0181	EA	Turbo Superterm-8 PC Board (Continental Instrument CICIP1800TPCB).....	6,417.30	103.14
28 16 11 00-0182	EA	Superterm Memory Board - 2MB (Continental Instrument CICIP1800MB2)..... Note: Up to 140,000 cardholders.	2,682.07	103.14
28 16 11 00-0183	EA	Turbo/Superterm-8 Memory Board - 2MB (Continental Instrument CICIP1800MB2X2)..... Note: Up to 140,000 cardholders.	2,257.95	103.14
28 16 11 00-0184	EA	Turbo Superterm-8 Relay Expander Board (Continental Instrument CICIP1800RB)..... Note: 16 Output relays, 8 alarm inputs.	2,088.35	103.14
28 16 11 00-0185	EA	Turbo Superterm-8 Alarm Expander Board (Continental Instrument CICIP1800RB)..... Note: (Supervised) 16 Alarm inputs.	2,088.35	103.14
28 16 11 00-0186	EA	Expanded Power Supply For Superterm Or Turbo Superterm (Continental Instrument CICPEXPWS)	849.98	
28 16 11 00-0187		Intelligent Controller (28 16 11 00-0149)		
28 16 11 00-0188	EA	Intelligent Controller With Paired Reader Interface for One Physical Barrier (Mercury Security EP-1501).....	1,497.30	103.14
28 16 11 00-0189	EA	Up To 64 Doors, Access Controller (Mercury Security EP-1502)	2,588.42	171.90
28 16 11 00-0190		Access Control Bundled System (28 16 11)		
28 16 11 00-0191	EA	CA 3000 Bundled System, Supports 25 Users (Continental Instrument CA3B250P4O3V0R0)..... Note: System includes PC, monitor, keyboard, mouse, OS, Card Access 3000 file server software, MS SQL 2000, 1 SQL host license, and security key.	42,125.84	
28 16 11 00-0192		Magnetic Locks (28 16 11) Note: Excludes access controls.		
28 16 11 00-0193		Magnetic Door Locks (28 16 11 00-0192)		
28 16 11 00-0194		300 Lb. Magnetic Door Locks (28 16 11 00-0193)		
28 16 11 00-0195	EA	Single Door, Surface Mount, 300 Lb. Magnetic Door Lock	772.84	137.53
28 16 11 00-0196		600 Lb. Magnetic Door Locks (28 16 11 00-0193)		
28 16 11 00-0197	EA	600 Lb., Single Door, Surface Mount, Magnetic Door Lock	1,117.94	137.53
		For LED Status Indicator And Signal Relay, Add	105.36	
		For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	210.72	
		For Mortise Mount, Deduct	-168.58	
28 16 11 00-0198	EA	600 Lb., Dual Doors, Surface Mount, Magnetic Door Lock	1,684.75	137.53
		For LED Status Indicator And Signal Relay, Add	176.21	
		For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	352.42	
28 16 11 00-0199		1,200 Lb. Magnetic Door Locks (28 16 11 00-0193)		
28 16 11 00-0200	EA	1,200 Lb., Single Door, Surface Mount, Magnetic Door Lock	1,170.23	137.53
		For LED Status Indicator And Signal Relay, Add	205.89	
		For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	268.55	
28 16 11 00-0201	EA	Dual Doors, Surface Mount, 1,200 Lb. Magnetic Door Lock	1,797.69	137.53
		For LED Status Indicator And Signal Relay, Add	350.20	
		For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	456.79	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0202 2,000 Lb. Shear Lock, Magnetic And Mechanical Locks (28 16 11 00-0193) Note: Includes LED status indicator and built-in signal relay.		
28 16 11 00-0203 EA Single Door, Mortise Mount, 2,000 Lb. Shear Lock, Magnetic And Mechanical Door Lock	1,226.70	137.53
28 16 11 00-0204 Magnetic Gate Locks (28 16 11 00-0192)		
28 16 11 00-0205 600 Lb. Magnetic Gate Locks (28 16 11 00-0204)		
28 16 11 00-0206 EA 600 Lb. Magnetic Gate Lock	910.88	137.53
28 16 11 00-0207 1,200 Lb. Magnetic Gate Locks (28 16 11 00-0204)		
28 16 11 00-0208 EA 1,200 Lb. Magnetic Gate Lock	1,101.21	137.53
For LED Status Indicator And Signal Relay, Add	103.27	
For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	206.54	
For Mortise Mount, Deduct	-165.23	
28 16 11 00-0209 Magnetic Lock Power Supply And Chargers (28 16 11 00-0192) Note: Includes lockable metal enclosure, batteries, battery charger and electronically regulated outputs.		
28 16 11 00-0210 EA 12/24 Volt DC At 1 Ampere, Magnetic Lock Backup Power Supply And Charger	667.38	137.53
28 16 11 00-0211 EA 12/24 Volt DC At 2-1/2 Amperes, Magnetic Lock Backup Power Supply And Charger	857.01	137.53
28 16 11 00-0212 EA 12 Volt DC At 4 Amperes And 24 Volt DC At 3 Amperes, Magnetic Lock Backup Power Supply And Charger	968.56	137.53
28 16 11 00-0213 EA 12/24 Volt DC At 6 Amperes, Magnetic Lock Backup Power Supply And Charger	1,225.12	137.53
28 16 11 00-0214 NexWatch Access Control Devices (28 16 11)		
28 16 11 00-0215 Analog Card Reader System (28 16 11 00-0214)		
28 16 11 00-0216 EA ALTO 818SC, 8-Door System Controller, Supports Analog, Digital Readers and Keypad	17,501.25	1,650.32
28 16 11 00-0217 EA Power Supply, Multi Outputs 3718S Power Supply Battery Standby System, Selectable	4,742.03	412.58
28 16 11 00-0218 EA 774A-1 Multi-Switch Monitor (MSM) with enclosure	1,643.21	220.04
28 16 11 00-0219 EA 2708 Analog Reader	1,643.21	220.04
28 16 11 00-0220 Digital Card Reader System (28 16 11 00-0214)		
28 16 11 00-0221 EA PI-1 Power Inserter (24 Volt) with power cable, 115 Volt	2,111.72	247.55
28 16 11 00-0222 EA PI Universal power supply, 110/220	612.96	103.14
28 16 11 00-0223 EA NexLine Coax Adapter	429.40	55.01
28 16 11 00-0224 EA NexLine Plus MSM Replacement And Coax Adapter	1,676.75	130.65
28 16 11 00-0225 EA Star I Controller	4,685.83	481.34
28 16 11 00-0226 EA Star II Controller	4,685.83	481.34
28 16 11 00-0227 EA Star I And II Controller Four Door Chip Set	2,430.69	240.67
28 16 11 00-0228 EA Star I And II Controller Eight Door Chip Set	4,143.67	240.67
28 16 11 00-0229 EA Large Cabinet (room for three full-size boards or six half-height boards 25" x 21" x 4")	1,180.39	185.66
28 16 11 00-0230 EA Micro 16/8 Board	4,709.75	96.27
28 16 11 00-0231 EA DR4201 Low Profile DigiReader (HID Compatible)	1,056.11	275.06
28 16 11 00-0232 EA DR4203 Mullion-Mount DigiReader	1,561.65	323.19
28 16 11 00-0233 EA DR4205K DigiReader with Integrated Keypad, 12 - 24 Volt with Tamper	1,561.65	323.19
28 16 11 00-0234 EA DR4208 Digital Proximity Reader with Increased Read Range	1,432.59	323.19
28 16 11 00-0235 EA DR4208K DigiReader with Integrated Keypad	1,561.65	323.19
28 16 11 00-0236 EA DR4208GM DigiReader with Glass-Mount Capability	1,690.70	323.19
28 16 11 00-0237 EA DR4220 Long Range Proximity Reader	2,852.20	323.19
28 16 11 00-0238 EA Trim Plate for DR4201	61.75	6.87
28 16 11 00-0239 EA Trim Plate for DR4205	113.71	6.87
28 16 11 00-0240 EA Standoff	120.41	10.31
28 16 11 00-0241 EA PS2805AD Dual Mode Digital/Analog Proximity Sensor	1,542.29	123.77
28 16 11 00-0242 EA DR4200K DigiReader Weatherized 10-Key Keypad Reader	1,120.04	82.52
28 16 11 00-0243 Radionics Alarm (28 16 11 00-0214)		
28 16 11 00-0244 EA 2212 Alarm Package	1,618.20	220.04
28 16 11 00-0245 EA 7412 8 - 156 Zone Panel	2,979.29	412.58
28 16 11 00-0246 EA 1255D Alpha Numeric Key Pad	508.14	68.76
28 16 11 00-0247 EA 2071 Fire Dialer Ademco Alarm Button	257.10	34.38
28 16 11 00-0248 Master Door Buzzer Stations (28 16 11)		
28 16 11 00-0249 Master Stations (28 16 11 00-0248)		
28 16 11 00-0250 EA Master Stations, 5 Station Intercommunication Equipment	1,269.20	214.54
28 16 11 00-0251 EA Master Stations, 10 Station Intercommunication Equipment	1,912.60	415.33
28 16 11 00-0252 EA Master Station, Desk Style Remote Intercommunication Equipment	546.39	107.27
28 16 11 00-0253 EA Master Station, Flush Wall Remote Intercommunication Equipment	701.74	178.79
28 16 11 00-0254 EA Sound System Outlet, Protector	181.56	70.00
28 16 11 00-0255 EA Sound System Microphone Outlet	318.83	143.30
28 16 11 00-0256 EA Ceiling Or Wall, Sound System Speaker	241.59	70.00
28 16 11 00-0257 EA Sound System Monitor Panel	702.19	143.30
28 16 11 00-0258 EA Sound System Volume Control	209.24	70.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0259	EA	250 Watt, Sound System Amplifier	3,243.28	573.08
28 16 11 00-0260	EA	Sound System Cabinet	1,908.11	573.08
28 16 11 00-0261 Master Door Stations (28 16 11 00-0248)				
28 16 11 00-0262	EA	Master Door Stations, Button Buzzer Type, 25 Station.....	2,827.43	
		<i>For Intercom Type Master Door Station, Add</i>	230.60	
28 16 11 00-0263	EA	Master Door Stations, Button Buzzer Type, 50 Station.....	4,683.37	
		<i>For Intercom Type Master Door Station, Add</i>	373.56	
28 16 11 00-0264	EA	Master Door Stations, Button Buzzer Type, 75 Station.....	6,429.51	
		<i>For Intercom Type Master Door Station, Add</i>	484.25	
28 16 11 00-0265	EA	Master Door Stations, Button Buzzer Type, 100 Station.....	7,348.28	
		<i>For Intercom Type Master Door Station, Add</i>	567.26	
28 16 11 00-0266	EA	Master Door Stations, Button Buzzer Type, 150 Station.....	8,906.71	
		<i>For Intercom Type Master Door Station, Add</i>	830.14	
28 16 11 00-0267	EA	Master Door Stations, Button Buzzer Type, 200 Station.....	10,442.87	
		<i>For Intercom Type Master Door Station, Add</i>	1,069.96	
28 16 11 00-0268	EA	Master Door Stations, Button Buzzer Type, 250 Station.....	13,143.32	
		<i>For Intercom Type Master Door Station, Add</i>	1,383.57	
28 16 11 00-0269	EA	Master Door Stations, Button Buzzer Type, 300 Station.....	15,706.98	
		<i>For Intercom Type Master Door Station, Add</i>	1,586.49	
28 16 11 00-0270	EA	Transformer	197.48	
28 16 11 00-0271	EA	Door Opener	292.34	
28 16 11 00-0272	EA	Buzzer With Door Release And Plate	361.15	
28 16 11 00-0273	EA	Amplifier For Intercom Type Unit	587.58	
28 16 11 00-0274	EA	Speaker With Door Release	247.45	
28 16 11 00-0275 Access Controls (Sielox) (28 16 11)				
28 16 11 00-0276	EA	2-Reader Ethernet/RS485 Kit: Supports 2 Door Strikes, 2 Door Contacts, 2 REX Inputs, 4 Sup./Unsup. Inputs, 4 Sup./Unsup. Outputs. Includes Integrated Uninterruptible Power Supply And Large Enclosure (SLX150-E4) (Sielox AC-1700-150E4-2D).....	2,697.55	199.32
28 16 11 00-0277	EA	4-Reader Ethernet/RS485 Kit: Supports 4 Door Strikes, 4 Door Contacts, 4 REX Inputs, 8 Sup./Unsup. Inputs, 8 Sup./Unsup. Outputs. Includes Integrated Uninterruptible Power Supply And Large Enclosure (SLX150-E4) (Sielox AC-1700-150E4-4D).....	4,486.40	331.50
28 16 11 00-0278	EA	6-Reader Ethernet/RS485 Kit: Supports 6 Door Strikes, 6 Door Contacts, 6 REX Inputs, 12 Sup./Unsup. Inputs, 12 Sup./Unsup. Outputs Includes Integrated Uninterruptible Power Supply And Large Enclosure (SLX150-E4) (Sielox AC-1700-150E4-6D).....	6,275.23	463.69
28 16 11 00-0279	EA	8-Reader Ethernet/RS485 Kit : Supports 8 Door Strikes, 8 Door Contacts, 8 REX Inputs, 16 Sup./Unsup. Inputs, 16 Sup./Unsup. Outputs Includes Integrated Uninterruptible Power Supply And Large Enclosure (SLX150-E4) (Sielox AC-1700-150E4-8D).....	8,064.09	595.87
28 16 11 00-0280	EA	2-Reader Ethernet/RS485 Kit: Supports 2 Door Strikes, 2 Door Contacts, 2 REX Inputs, 4 Sup./Unsup. Inputs, 4 Sup./Unsup. Outputs. Includes Sielox Large Enclosure and 1 - LifeSafety 75W Power Supply With Separate Enclosure (Sielox AC-1700-LN-2-PS75).....	2,779.85	205.41
28 16 11 00-0281	EA	4-Reader Ethernet/RS485 Kit: Supports 4 Door Strikes, 4 Door Contacts, 4 REX Inputs, 8 Sup./Unsup. Inputs, 8 Sup./Unsup. Outputs. Includes Sielox Large Enclosure and 1 - LifeSafety 75W Power Supply With Separate Enclosure (Sielox AC-1700-LN-4-PS75).....	4,568.71	337.59
28 16 11 00-0282	EA	6-Reader Ethernet/RS485 Kit: Supports 6 Door Strikes, 6 Door Contacts, 6 REX Inputs, 12 Sup./Unsup. Inputs, 12 Sup./Unsup. Outputs. Includes Sielox Large Enclosure and 1 - LifeSafety 75W Power Supply With Separate Enclosure (Sielox AC-1700-LN-6-PS75).....	6,357.56	469.78
28 16 11 00-0283	EA	8-Reader Ethernet/RS485 Kit: Supports 8 Door Strikes, 8 Door Contacts, 8 REX Inputs, 16 Sup./Unsup. Inputs, 16 Sup./Unsup. Outputs. Includes Sielox Large Enclosure and 1 - LifeSafety 75W Power Supply With Separate Enclosure (Sielox AC-1700-LN-8-PS75).....	8,146.42	601.96
28 16 11 00-0284	EA	2-Reader Ethernet/RS485 Kit: Supports 2 Door Strikes, 2 Door Contacts, 2 REX Inputs, 4 Sup./Unsup. Inputs, 4 Sup./Unsup. Outputs. Includes Sielox Large Enclosure and 1 - LifeSafety 150W Power Supply With Separate Enclosure (Sielox AC-1700-LN-2-PS150).....	2,950.82	218.05
28 16 11 00-0285	EA	4-Reader Ethernet/RS485 Kit: Supports 4 Door Strikes, 4 Door Contacts, 4 REX Inputs, 8 Sup./Unsup. Inputs, 8 Sup./Unsup. Outputs. Includes Sielox Large Enclosure and 1 - LifeSafety 150W Power Supply With Separate Enclosure (Sielox AC-1700-LN-4-PS150).....	4,739.69	350.21
28 16 11 00-0286	EA	6-Reader Ethernet/RS485 Kit: Supports 6 Door Strikes, 6 Door Contacts, 6 REX Inputs, 12 Sup./Unsup. Inputs, 12 Sup./Unsup. Outputs. Includes Sielox Large Enclosure and 1 - LifeSafety 150W Power Supply With Separate Enclosure (Sielox AC-1700-LN-6-PS150).....	6,528.51	482.41
28 16 11 00-0287	EA	8-Reader Ethernet/RS485 Kit: Supports 8 Door Strikes, 8 Door Contacts, 8 REX Inputs, 16 Sup./Unsup. Inputs, 16 Sup./Unsup. Outputs. Includes Sielox Large Enclosure and 1 - LifeSafety 150W Power Supply With Separate Enclosure (Sielox AC-1700-LN-8-PS150).....	8,317.39	614.58
28 16 11 00-0288	EA	2-Reader Ethernet/RS485 Kit: Supports 2 Door Strikes, 2 Door Contacts, 2 REX Inputs, 4 Sup./Unsup. Inputs, 4 Sup./Unsup. Outputs. Includes SLX75-E1 - Holds 1 Controller. (Sielox AC-1700-75E1-2D).....	2,304.94	170.31
28 16 11 00-0289	EA	2-Reader Ethernet/RS485 Kit: Supports 2 Door Strikes, 2 Door Contacts, 2 REX Inputs, 4 Sup./Unsup. Inputs, 4 Sup./Unsup. Outputs. Includes SLX75-E2 - Holds 1 Controller. (Sielox AC-1700-75E2-2D).....	2,387.24	176.40
28 16 11 00-0290	EA	4- Reader Ethernet/RS485 Kit: Supports 4 Door Strikes, 4 Door Contacts, 4 REX Inputs, 8 Sup./Unsup. Inputs, 8 Sup./Unsup. Outputs. Includes SLX75-E2. Holds up to 2 Controllers. (Sielox AC-1700-75E2-4D).....	4,176.11	308.58
28 16 11 00-0291	EA	Retrofit Mounting Plate - For mounting up to 2 AC-1700 Controller Boards in the AC-1500 large enclosure or other large enclosures (Sielox AC-1700-RMP-2).....	126.64	9.35
28 16 11 00-0292	EA	AC-1700 Connector Kit. (Can be used with 16-Bit Controllers) (Sielox AC-1700-CK).....	126.64	9.35
28 16 11 00-0293	EA	AC-1700 I/O Backplane Kit: Includes: AC-1700-BP7 I/O Backplane, AC-1700-IOMP Mounting Plate, AC-PRDUAL and AC-PWRS Standard Power Supply. Requires Input or Output Modules (AC-IEK or AC-OEK). Enclosure not included. (Sielox AC-1700-MS-IO).....	1,269.61	93.82
28 16 11 00-0294	EA	2- Door Pinnacle Ultra Package, 1- Controller (6201700) with SLX UPS Power Supply (SLX75-E2) and Enclosure. (Sielox AC-PUL-75E2-2D).....	2,735.51	202.13
28 16 11 00-0295	EA	4- Door Pinnacle Ultra Package, 2- Controllers (6201700) with SLX UPS Power Supply (SLX75-E2) and Enclosure. (Sielox AC-PUL-75E2-4D).....	4,524.36	334.31
28 16 11 00-0296	EA	2- Door Pinnacle Ultra Package, 1- Controller (6201700) with SLX UPS Power Supply (SLX150-E4) and Enclosure. (Sielox AC-PUL-150E4-2D).....	3,045.80	225.05



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0297	EA	4 Door Pinnacle Ultra Package, 2-Controllers (6201700) with SLX UPS Power Supply (SLX150-E4) and Enclosure. (Sielox AC-PUL-150E4-4D)	4,834.67	357.24
28 16 11 00-0298	EA	6 Door Pinnacle Ultra Package, 3 -Controllers (6201700) with SLX UPS Power Supply (SLX150-E4) and Enclosure. (Sielox AC-PUL-150E4-6D)	6,623.52	489.42
28 16 11 00-0299	EA	8 Door Pinnacle Ultra Package 4 -Controller (6201700) with SLX UPS Power Supply (SLX150-E4) and Enclosure. (Sielox AC-PUL-150E4-8D)	8,412.38	621.60
28 16 11 00-0300	EA	2-Door Pinnacle Ultra Package, 1- Controller (6201700), Small Enclosure Kit (6800111) and 1 - LifeSafety 75W Power Supply With Separate Enclosure. (Sielox AC-PULS-1700-2D-PS75)	3,033.15	224.12
28 16 11 00-0301	EA	2-Door Pinnacle Ultra Package, 1- Controller (6201700), Small Enclosure Kit (6800111) and 1 - LifeSafety 150W Power Supply With Separate Enclosure. (Sielox AC-PULS-1700-2D-PS150)	3,204.11	236.76
28 16 11 00-0302	EA	2- Door Pinnacle Ultra Package, 1-Controller (6201700) with Large Enclosure (6800110) and 1 - LifeSafety 75W Power Supply With Separate Enclosure (Sielox AC-PULL-1700-2D-PS75)	2,322.17	171.59
28 16 11 00-0303	EA	2- Door Pinnacle Ultra Package, 1-Controller (6201700) with Large Enclosure (6800110) and 1 - LifeSafety 150W Power Supply With Separate Enclosure (Sielox AC-PULL-1700-2D-PS150)	2,665.87	196.99
28 16 11 00-0304	EA	4- Door Pinnacle Ultra Package, 2- Controllers (6201700) with Large Enclosure (6800110) and 1 - LifeSafety 75W Power Supply With Separate Enclosure (Sielox AC-PULL-1700-4D-PS75)	4,916.98	363.32
28 16 11 00-0305	EA	4- Door Pinnacle Ultra Package, 2- Controllers (6201700) with Large Enclosure (6800110) and 1 - LifeSafety 150W Power Supply With Separate Enclosure (Sielox AC-PULL-1700-4D-PS150)	5,087.96	375.96
28 16 11 00-0306	EA	6- Door Pinnacle Ultra Package, 3 - Controllers (6201700) with Large Enclosure (6800110) and 1 - LifeSafety 75W Power Supply With Separate Enclosure (Sielox AC-PULL-1700-6D-PS75)	6,705.83	495.51
28 16 11 00-0307	EA	8 Door Pinnacle Ultra Package, 4- Controllers (6201700) with Large Enclosure (6800110) and 1 - LifeSafety 75W Power Supply With Separate Enclosure (Sielox AC-PULL-1700-8D-PS75)	8,494.69	627.69
28 16 11 00-0308	EA	8 Door Pinnacle Ultra Package, 4- Controllers (6201700) with Large Enclosure (6800110) and 1 - LifeSafety 150W Power Supply With Separate Enclosure (Sielox AC-PULL-1700-8D-PS150)	8,665.67	640.33
28 16 11 00-0309	EA	2- Door Pinnacle Lite Package, 1- Controller (6201700) with SLX UPS Power Supply (SLX75-E2). 1 Enclosure. (Sielox AC-PLT-75E2-2D)	3,210.45	237.23
28 16 11 00-0310	EA	4- Door Pinnacle Lite Package, 2- Controllers (6201700) with SLX UPS Power Supply (SLX75-E2). 1 Enclosure. (Sielox AC-PLT-75E2-4D)	4,999.30	369.40
28 16 11 00-0311	EA	2- Door Pinnacle Lite Package, 1- Controller (6201700) with SLX UPS Power Supply (SLX150-E4). 1 Enclosure. (Sielox AC-PLT-150E4-2D)	3,520.72	260.15
28 16 11 00-0312	EA	4 Door Pinnacle Lite Package, 2-Controller (6201700) with SLX UPS Power Supply (SLX150-E4). 1 Enclosure (Sielox AC-PLT-150E4-4D)	5,309.59	392.34
28 16 11 00-0313	EA	6 Door Pinnacle Lite Package, 3 -Controllers (6201700) with SLX UPS Power Supply (SLX150-E4). 1 Enclosure (Sielox AC-PLT-150E4-6D)	7,098.43	524.51
28 16 11 00-0314	EA	8 Door Pinnacle Lite Package, 4- Controllers (6201700) with SLX UPS Power Supply (SLX150-E4). 1 Enclosure (Sielox AC-PLT-150E4-8D)	8,887.29	656.70
28 16 11 00-0315	EA	4- Door Pinnacle Lite Package, 2-Controllers (6201700) with Large Enclosure (6800110) and 1 - LifeSafety 75W Power Supply With Separate Enclosure. (Sielox AC-PLT-1700-4D-PS75)	5,391.89	398.41
28 16 11 00-0316	EA	6- Door Pinnacle Lite Package, 3 - Controllers (6201700) with Large Enclosure (6800110) and 1 - LifeSafety 150W Power Supply With Separate Enclosure. (Sielox AC-PLT-1700-6D-PS150)	7,351.73	543.23
28 16 11 00-0317	EA	Standard Workstation to Plus Workstation (per Concurrent User) (Sielox AC-WST2PL)	395.77	29.24
28 16 11 00-0318	EA	Plus Workstation to Professional Workstation (per Concurrent User) (Sielox AC-WPL2PR)	395.77	29.24
28 16 11 00-0319	EA	Standard Workstation to Plus Workstation (per 2 Concurrent Users) (Sielox AC-WST22PL)	712.37	52.64
28 16 11 00-0320	EA	Plus Workstation to Professional Workstation (per 2 Concurrent Users) (Sielox AC-WPL22PR)	712.37	52.64
28 16 11 00-0321	EA	Standard Workstation to Plus Workstation (per 5 Concurrent Users) (Sielox AC-WST52PL)	1,899.67	140.36
28 16 11 00-0322	EA	Plus Workstation to Professional Workstation (per 5 Concurrent Users) (Sielox AC-WPL52PR)	1,899.67	140.36
28 16 11 00-0323	EA	Badging for Pinnacle Lite to Badging for Pinnacle Standard (Sielox AC-BLT2STD)	174.15	12.86
28 16 11 00-0324	EA	Badging for Pinnacle Standard to Badging for Pinnacle Plus (Sielox AC-BST2PL)	205.79	15.20
28 16 11 00-0325	EA	Badging for Pinnacle Plus Software to Badging for Pinnacle Professional (Sielox AC-BPL2PR)	569.90	42.11
28 16 11 00-0326	EA	ThyssenKrupp Destination Dispatch Driver (Sielox AC-THKP)	15,830.58	1,169.75
28 16 11 00-0327	EA	Schindler Smart Dispatch Driver (Sielox AC-SCHIND)	9,498.35	701.84
28 16 11 00-0328	EA	Otis Dispatch Driver (Sielox AC-OTIS)	15,830.58	1,169.75
28 16 11 00-0329	EA	QNX to Pinnacle Import -Cardholders And Access Groups only (Sielox AC-PS-QNX2PN)	4,749.18	350.92
28 16 11 00-0330	EA	Threshold to Pinnacle Import - Applies to Threshold 95, Access, NT and Enterprise. Note: Includes conversion of cardholder, photo ID image file, and network configuration. Only cardholder information guaranteed. Network configuration should be verified by customer (Sielox AC-PS-THRS2PN)	1,899.67	140.36
28 16 11 00-0331	EA	Pinnacle to Pinnacle Import - Recommended for all upgrades prior to Pinnacle 7.0 or when upgrading to a new server with version software upgrade. (Sielox AC-PS-PN2PN)	1,108.13	81.88
28 16 11 00-0332	EA	Workstations for Pinnacle Professional (per 15 Concurrent Users) (Sielox AC-WPR15)	18,995.50	1,403.61
28 16 11 00-0333	EA	Workstations for Pinnacle Professional (per 25 Concurrent Users) (Sielox AC-WPR20)	28,495.03	2,105.54
28 16 11 00-0334	EA	Workstations for Pinnacle Professional (per 50 Concurrent Users) (Sielox AC-WPR50)	47,492.95	3,509.33
28 16 11 00-0335	EA	Pinnacle Software Load (Initial Installation) via Network Streaming Required: Network Streaming access and availability of IT resource for password setting required at the customer site. Note: Pinnacle configuration not included (Sielox 6990006)	791.53	58.49
28 16 11 00-0336	EA	Reinstatement Fee for Lapsed Pinnacle Ultra Software Maintenance (Sielox AC-SWM-RE-PUL)	269.83	
28 16 11 00-0337	EA	Reinstatement Fee for Lapsed Pinnacle Lite Software Maintenance (Sielox AC-SWM-RE-PLT)	404.73	
28 16 11 00-0338	EA	Reinstatement Fee for Lapsed Pinnacle Standard Software Maintenance (Sielox AC-SWM-RE-PNST)	539.64	
28 16 11 00-0339	EA	Reinstatement Fee for Lapsed Pinnacle Plus Software Maintenance (Sielox AC-SWM-RE-PNPL)	1,079.29	
28 16 11 00-0340	EA	Reinstatement Fee for Lapsed Pinnacle Pro Software Maintenance (Sielox AC-SWM-RE-PNPR)	2,158.57	
28 16 11 00-0341	EA	Annual Software Maintenance for Pinnacle Ultra Software (Sielox AC-SWM-PUL)	269.83	
28 16 11 00-0342	EA	Annual Software Maintenance for Pinnacle Lite Software (Sielox AC-SWM-PLT)	404.73	
28 16 11 00-0343	EA	Annual Software Maintenance for Pinnacle Standard - Includes 1 server and one workstation (Sielox AC-SWM-PNST)	539.64	
28 16 11 00-0344	EA	Annual Software Maintenance for Pinnacle Plus - Includes 1 server and one workstation (Sielox AC-SWM-PNPL)	1,214.20	
28 16 11 00-0345	EA	Annual Software Maintenance for Pinnacle Professional - Includes 1 server and one workstation (Sielox AC-SWM-PNPR)	3,642.59	
28 16 11 00-0346	EA	Annual Software Maintenance Pinnacle Workstations (each workstation not included in the bundle) (Sielox AC-SWM-PWS5)	283.30	
28 16 11 00-0347	EA	Annual Software Maintenance Pinnacle Bundled Two Workstations (Sielox AC-SWM-PWSB2)	566.63	
28 16 11 00-0348	EA	Annual Software Maintenance Pinnacle Bundled Five Workstations (Sielox AC-SWM-PWSB5)	1,214.20	
28 16 11 00-0349	EA	Annual Software Maintenance for Pinnacle Software Development Kit (SDK) (Sielox AC-SWM-PSDK)	944.37	
28 16 11 00-0350	EA	Annual Software Maintenance for Pinnacle Badging Option - Pinnacle Lite Per Badging License (Sielox AC-SWM-BLT)	242.84	

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28 16 11 00-0351	EA	Annual Software Maintenance for Pinnacle Badging Option – Pinnacle Standard Per Badging License (Sielox AC-SWM-BST)	323.79	
28 16 11 00-0352	EA	Annual Software Maintenance for Pinnacle Badging Option – Pinnacle Plus Per Badging License (Sielox AC-SWM-BPT)	391.23	
28 16 11 00-0353	EA	Annual Software Maintenance for Pinnacle Badging Option – Pinnacle Professional Per Badging License (Sielox AC-SWM-BPPT)	445.21	
28 16 11 00-0354	EA	Annual Software Maintenance for Pinnacle Database Partitioning Option (Sielox AC-SWM-DBPO)	269.83	
28 16 11 00-0355	EA	Annual Software Maintenance for Pinnacle Multi-Server Hardware Option (Sielox AC-SWM-MSHO)	404.73	
28 16 11 00-0356	EA	Annual Software Maintenance for Pinnacle Data Exchange Software Maintenance (Sielox AC-SWM-PDE)	404.73	
28 16 11 00-0357	EA	Annual Software Maintenance ThyssenKrupp Interface Module Annual Software Maintenance, Software Maintenance includes free software updates and Upgrades. Per copy. (Sielox AC-SWM-TKELEVX)	2,158.57	
28 16 11 00-0358	EA	Annual Software Maintenance Schindler Module™ Annual Software Maintenance, Software Maintenance includes free software updates and Upgrades. Per copy. (Sielox AC-SWM-SCHINDX)	1,349.12	
28 16 11 00-0359	EA	Sielox Class™ 75 - Desktop Network Appliance - System includes Network Appliance, Preloaded Sielox Class™ 75 Software, and 12 Volt DC Transformer. (1 Year Warranty – Software And Appliance). System supports 75 locations and 265 Users (225 Initiators, 40 Responders) Desktop Appliance Dimensions - 8" x 8" x 2" (Sielox AC-CLASS75-DT)	8,747.97	646.41
28 16 11 00-0360	EA	Sielox Class™ 75 - 1U Rackmount Network Appliance - System includes Network Appliance, Preloaded Sielox Class™ 75 Software, and 12 Volt DC Transformer. (1 Year Warranty – Software And Appliance). System supports 75 locations and 265 Users (225 Initiators, 40 Responders) 1U Rackmount Appliance Dimensions 17" x 13" x 1.75" (Sielox AC-CLASS75-1U)	9,381.21	693.20
28 16 11 00-0361	EA	Sielox Class™ 150 Desktop Network Appliance - System includes Network Appliance, Preloaded Sielox Class™ 150 Software, and 12 Volt DC Transformer. (1 Year Warranty – Software And Appliance). System supports 150 locations and 525 Users (450 Initiators, 75 Responders) Desktop Appliance Dimensions - 8" x 8" x 2" (Sielox AC-CLASS150-DT)	15,127.71	1,117.81
28 16 11 00-0362	EA	Sielox Class™ 150 1U Rackmount Network Appliance	15,760.94	1,164.60
		Note: System includes Network Appliance, Preloaded Sielox Class™ 150 Software, and 12 Volt DC Transformer. (1 Year Warranty – Software And Appliance). System supports 150 locations and 525 Users (450 Initiators, 75 Responders) 1U Rackmount Appliance Dimensions 17" x 13" x 1.75" (Sielox AC-CLASS150-1U)		
28 16 11 00-0363	EA	Sielox Class™ 300 1U Rackmount Network Appliance	27,063.94	1,999.80
		Note: System includes Network Appliance, Preloaded Sielox Class™ 300 Software, and 12 Volt DC Transformer. (1 Year Warranty – Software And Appliance). System supports 300 locations and 1050 Users (900 Initiators, 150 Responders) 1U Rackmount Appliance Dimensions 17" x 13" x 1.75" (Sielox AC-CLASS300-1U)		
28 16 11 00-0364	EA	Sielox Class™ 500 1U Rackmount Network Appliance	28,348.45	2,094.72
		Note: System includes Network Appliance, Preloaded Sielox Class™ 500 Software, and 12 Volt DC Transformer. (1 Year Warranty – Software And Appliance). System supports 500 locations and 1150 Users (1000 Initiators, 150 Responders) 1U Rackmount Appliance Dimensions 17" x 13" x 1.75" (Sielox AC-CLASS500-1U)		
28 16 11 00-0365	EA	Sielox Class™ 75 - Deployment Services - System is preloaded with the following end-user information supplied by Business Partner using supplied file format.[user database, user groups, email/text alerts, floor plans, locations, up to 8 color condition label(s), color condition order, up to 5 Alert Level instruction pop-ups, up to 4 Alert Level and up to 8 condition pop-up alerts, up to 10 Highlight Event triggers].Includes initial one hour consult webinar and one hour completed services summary webinar.If resolution on floor plan files is unusable for Class system, charges will be added to re-draw maps (126834). (Sielox AC-PS-CLASS75)	1,583.07	116.97
28 16 11 00-0366	EA	Sielox Class 75 - Integration Services - Includes configuration of Action URL's [up to 75 live video pop-ups, configuration of outputs for integration of Access Control Lockdown, paging systems, video and mass notification for up to 60 outputs. Configuration of inputs for integration of buttons, motion sensors, readers etc...for up to 75 location inputs (Sielox AC-PS-CLASS75KIT)	1,583.07	116.97
28 16 11 00-0367	EA	Sielox Class™ 150 - Deployment Services - System is preloaded with the following end-user information supplied by Business Partner using supplied file format.[user database, user groups, email/text alerts, floor plans, locations, up to 8 color condition label(s), color condition order, up to 5 Alert Level instruction pop-ups, up to 4 Alert Level and up to 8 condition pop-up alerts, up to 10 Highlight Event triggers].Includes initial one hour consult webinar and one hour completed services summary webinar.If resolution on floor plan files is unusable for Class system, charges will be added to re-draw maps (126834). (Sielox AC-PS-CLASS150)	3,166.12	233.95
28 16 11 00-0368	EA	Sielox Class 150 - Integration Services - Includes configuration of Action URL's [up to 150 live video pop-ups, configuration of outputs for integration of Access Control Lockdown, paging systems, video and mass notification for up to 60 outputs. Configuration of inputs for integration of buttons, motion sensors, readers etc...for up to 150 location inputs (Sielox AC-PS-CLASS150KIT)	3,166.12	233.95
28 16 11 00-0369	EA	Sielox Class™ 300 - Deployment Services - System is preloaded with the following end-user information supplied by Business Partner using supplied file format.[user database, user groups, email/text alerts, floor plans, locations, up to 8 color condition label(s), color condition order, up to 5 Alert Level instruction pop-ups, up to 4 Alert Level and up to 8 condition pop-up alerts, up to 10 Highlight Event triggers].Includes initial one hour consult webinar and one hour completed services summary webinar.If resolution on floor plan files is unusable for Class system, charges will be added to re-draw maps (126834). (Sielox AC-PS-CLASS300)	4,749.18	350.92
28 16 11 00-0370	EA	Sielox Class 300 - Integration Services - Includes configuration of Action URL's [up to 300 live video pop-ups, configuration of outputs for integration of Access Control Lockdown, paging systems, video and mass notification for up to 60 outputs. Configuration of inputs for integration of buttons, motion sensors, readers etc...for up to 300 location inputs (Sielox AC-PS-CLASS300KIT)	4,749.18	350.92
28 16 11 00-0371	EA	Sielox Class™ 500 - Deployment Services - System is preloaded with the following end-user information supplied by Business Partner using supplied file format.[user database, user groups, email/text alerts, floor plans, locations, up to 8 color condition label(s), color condition order, up to 5 Alert Level instruction pop-ups, up to 4 Alert Level and up to 8 condition pop-up alerts, up to 10 Highlight Event triggers].Includes initial one hour consult webinar and one hour completed services summary webinar.If resolution on floor plan files is unusable for Class system, charges will be added to re-draw maps (126834). (Sielox AC-PS-CLASS500)	5,699.33	421.13
28 16 11 00-0372	EA	Sielox Class 500 - Integration Services - Includes configuration of Action URL's [up to 500 live video pop-ups, configuration of outputs for integration of Access Control Lockdown, paging systems, video and mass notification for up to 60 outputs. Configuration of inputs for integration of buttons, motion sensors, readers etc...for up to 500 location inputs (Sielox AC-PS-CLASS500KIT)	5,699.33	421.13
28 16 11 00-0373	EA	1 Year - Annual End User Support Agreement for Class™ 75 (Sielox AC-EUSA-CLASS75)	1,899.67	140.36
28 16 11 00-0374	EA	1 Year - Annual End User Support Agreement for Class™ 150 (Sielox AC-EUSA-CLASS150)	3,799.34	280.74
28 16 11 00-0375	EA	1 Year - Annual End User Support Agreement for Class™ 300 (Sielox AC-EUSA-CLASS300)	6,332.23	467.90
28 16 11 00-0376	EA	1 Year - Annual End User Support Agreement for Class™ 500 (Sielox AC-EUSA-CLASS500)	6,332.23	467.90
28 16 11 00-0377	EA	1 Year - Annual Software Maintenance for Sielox Class™ 75 - System Required for Technical Support And Software Updates. Maintenance includes Software Only. Hardware not included. Please refer to Section 1 for Warranty and End User License Agreement information. (Sielox AC-SWM-CLASS75)	949.84	70.19



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28 16 11 00-0378	EA	1 Year - Annual Software Maintenance for Sielox Class™ 150 - System Required for Technical Support And Software Updates. Maintenance includes Software Only. Hardware not included. Please refer to Section 1 for Warranty and End User License Agreement information. (Sielox AC-SWM-CLASS150)	1,899.67	140.36	
28 16 11 00-0379	EA	1 Year - Annual Software Maintenance for Sielox Class™ 300 - System Required for Technical Support And Software Updates. Maintenance includes Software Only. Hardware not included. Please refer to Section 1 for Warranty and End User License Agreement information. (Sielox AC-SWM-CLASS300)	3,166.12	233.95	
28 16 11 00-0380	EA	1 Year - Annual Software Maintenance for Sielox Class™ 300 - System Required for Technical Support And Software Updates. Maintenance includes Software Only. Hardware not included. Please refer to Section 1 for Warranty and End User License Agreement information. (Sielox AC-SWM-CLASS500)	3,166.12	233.95	
28 16 11 00-0381	EA	System includes Network Appliance, Preloaded with Sielox AnyWare™ 8 Software and a 12 Volt DC Transformer. (1 Year Warranty – Software And Appliance) System supports up to 8 Doors, 25K Cardholders, 256 Access Levels, and 64 Time Zones. Desktop Appliance Dimensions - (8" x 8" x 2") Sielox AnyWare™ 8 - Cannot be Upgraded. Larger Systems require the purchase of AnyWare™ 40 (Sielox AC-AW8-DT)	1,266.44	93.59	
28 16 11 00-0382	EA	System includes Network Appliance, Preloaded with Sielox AnyWare™ 8 Software and a 12 Volt DC Transformer. (1 Year Warranty – Software And Appliance) System supports up to 8 Doors, 25K Cardholders, 256 Access Levels, and 64 Time Zones. 1U Rackmount Appliance Dimensions (17" x 13" x 1.75") Sielox AnyWare™ 8 - Cannot be Upgraded. Larger Systems require the purchase of AnyWare™ 40 (Sielox AC-AW8-1U)	1,899.67	140.36	
28 16 11 00-0383	EA	System includes Network Appliance, Preloaded with Sielox AnyWare™ 40 Software and a 12 Volt DC Transformer. (1 Year Warranty – Software And Appliance) System supports up to 8 Doors, 25K Cardholders, 256 Access Levels, and 64 Time Zones. Desktop Appliance Dimensions - 8"x8"x2" (Sielox AC-AW40-DT)	2,532.89	187.15	
28 16 11 00-0384	EA	System includes Network Appliance, Preloaded with Sielox AnyWare™ 40 Software and a 12 Volt DC Transformer. (1 Year Warranty – Software And Appliance) System supports up to 8 Doors, 25K Cardholders, 256 Access Levels, and 64 Time Zones. 1U Rackmount Appliance Dimensions (17" x 13" x 1.75") (Sielox AC-AW40-1U)	3,166.12	233.95	
28 16 11 00-0385	EA	Package Includes (Sielox AnyWare™ 8 Network Appliance, (2) AC1700 2-Door Controller, SLX75-E2 UPS Power Supply and Enclosure -16" x 20"). Sielox AnyWare™ 8 - Cannot be Upgraded. Larger Systems require the purchase of AnyWare™ 40 (Sielox AC-AW8-75E2-4D)	4,872.66	360.05	
28 16 11 00-0386	EA	Package Includes (Sielox AnyWare™ 8 Desktop Network Appliance, (1) AC1700 2-Door Controller, SLX150-E4 UPS Power Supply and Enclosure -20" x 24").Sielox AnyWare™ 8 - Cannot be Upgraded. Larger Systems require the purchase of AnyWare™ 40 (Sielox AC-AW8-150E4-2D)	3,441.56	254.31	
28 16 11 00-0387	EA	Package Includes (Sielox AnyWare™ 8 Desktop Network Appliance, (2) AC1700 2-Door Controller, SLX150-E4 UPS Power Supply and Enclosure -20" x 24"). Sielox AnyWare™ 8 - Cannot be Upgraded. Larger Systems require the purchase of AnyWare™ 40 (Sielox AC-AW8-150E4-4D)	4,992.98	368.94	
28 16 11 00-0388	EA	Package Includes (Sielox AnyWare™ 8 Desktop Network Appliance, (3) AC1700 2-Door Controller, SLX150-E4 UPS Power Supply and Enclosure -20" x 24"). Sielox AnyWare™ 8 - Cannot be Upgraded. Larger Systems require the purchase of AnyWare™ 40 (Sielox AC-AW8-150E4-6D)	6,924.28	511.65	
28 16 11 00-0389	EA	Package Includes (Sielox AnyWare™ 8 Desktop Network Appliance, (4) AC1700 2-Door Controller, SLX150-E4 UPS Power Supply and Enclosure -20" x 24"). Sielox AnyWare™ 8 - Cannot be Upgraded. Larger Systems require the purchase of AnyWare™ 40 (Sielox AC-AW8-150E4-8D)	8,665.67	640.33	
28 16 11 00-0390	EA	Pinnacle to AnyWare™ Database Import - Note: Includes conversion of cardholder information only. (First Name, Last Name, and Card Code) (Sielox AC-PS-PN2AW)	1,108.13	81.88	
28 16 11 00-0391	EA	1 Year Annual Software Maintenance Contract. Maintenance includes Software Only. Hardware not included. Please refer to Sielox Price Book Section 1 - Policies And Procedures for Warranty and End User License Agreement information. (Sielox AC-SWM-AW8)	316.62	23.40	
28 16 11 00-0392	EA	2A/12V or 1A/24V E1 enclosure (Sielox SLX25-E1)	489.71	36.18	
28 16 11 00-0393	EA	6 Amperes/12 Volt or 3 Amperes/24 Volt E1 Enclosure (Sielox SLX75-E1)	515.04	38.05	
28 16 11 00-0394	EA	8A/12V or 4A/24V E1 enclosure (Sielox SLX100-E1)	645.89	47.72	
28 16 11 00-0395	EA	12 Amperes/12 Volt or 6 Amperes/24 Volt E1 Enclosure (Sielox SLX150-E1)	688.10	50.85	
28 16 11 00-0396	EA	16 Amperes/12 Volt or 8 Amperes/24 Volt E1 Enclosure (Sielox SLX200-E1)	755.67	55.83	
28 16 11 00-0397	EA	20A/12V or 10A/24V E1 enclosure (Sielox SLX250-E1)	797.87	58.96	
28 16 11 00-0398	EA	6 Amperes/12 Volt or 3 Amperes/24 Volt E2 Enclosure (Sielox SLX75-E2)	599.42	44.29	
28 16 11 00-0399	EA	8A/12V or 4A/24V E2 enclosure (Sielox SLX100-E2)	734.54	54.27	
28 16 11 00-0400	EA	12 Amperes/12 Volt or 6 Amperes/24 Volt E2 Enclosure (Sielox SLX150-E2)	776.74	57.39	
28 16 11 00-0401	EA	16 Amperes/12 Volt or 8 Amperes/24 Volt E2 Enclosure (Sielox SLX200-E2)	840.07	62.07	
28 16 11 00-0402	EA	20A/12V or 10A/24V E2 enclosure (Sielox SLX250-E2)	886.51	65.50	
28 16 11 00-0403	EA	E1 enclosure size 12W x 14H x 4.5D. (Sielox SLX-E1)	395.77	29.24	
28 16 11 00-0404	EA	E2 enclosure size 16W x 20H x 4.5D (Sielox SLX-E2)	474.92	35.09	
28 16 11 00-0405	EA	E4 enclosure size 20W x 24H x 4.5D (Sielox SLX-E4)	554.08	40.95	
28 16 11 00-0406	EA	E5 enclosure size 8.5W x 11H x 3D (Sielox SLX-E5)	554.08	40.95	
28 16 11 00-0407	EA	75 Watt Power Supply Board 6 Amperes/12 Volt or 3 Amperes/24 Volt (Sielox SLX75)	325.06	24.02	
28 16 11 00-0408	EA	100 Watt power supply board 8A/12V or 4A/24V (Sielox SLX100)	489.71	36.18	
28 16 11 00-0409	EA	150 Watt Power Supply Board 12 Amperes/12 Volt or 6 Amperes/24 Volt (Sielox SLX150)	536.12	39.61	
28 16 11 00-0410	EA	250 Watt power supply board 20A/12V or 10A/24V (Sielox SLX250)	671.22	49.60	
28 16 11 00-0411	EA	8 auxiliary outputs 6A/12V or 3A/24V fused at 3A E1 enclosure (Sielox SLX75-D8E1)	586.78	43.36	
28 16 11 00-0412	EA	8 auxiliary outputs 6A/12V or 3A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX75-D8PE1)	586.78	43.36	
28 16 11 00-0413	EA	8 auxiliary outputs 12A/12V or 6A/24V fused at 3A E1 enclosure (Sielox SLX150-D8E1)	764.08	56.45	
28 16 11 00-0414	EA	8 auxiliary outputs 12A/12V or 6A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX150-D8PE1)	764.08	56.45	
28 16 11 00-0415	EA	8 auxiliary outputs 20A/12V or 10A/24V fused at 3A E1 enclosure (Sielox SLX250-D8E1)	873.86	64.57	
28 16 11 00-0416	EA	8 auxiliary outputs 20A/12V or 10A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX250-D8PE1)	873.86	64.57	
28 16 11 00-0417	EA	16 auxiliary outputs 6A/12V or 3A/24V fused at 3A E1 enclosure (Sielox SLX75-2D8E1)	662.77	48.98	
28 16 11 00-0418	EA	16 auxiliary outputs 6A/12V or 3A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX75-2D8PE1)	662.77	48.98	
28 16 11 00-0419	EA	16 auxiliary outputs 12A/12V or 6A/24V fused at 3A E1 enclosure (Sielox SLX150-2D8E1)	840.07	62.07	
28 16 11 00-0420	EA	16 auxiliary outputs 12A/12V or 6A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX150-2D8PE1)	840.07	62.07	
28 16 11 00-0421	EA	16 auxiliary outputs 20A/12V or 10A/24V fused at 3A E1 enclosure (Sielox SLX250-2D8E1)	949.84	70.19	
28 16 11 00-0422	EA	16 auxiliary outputs 20A/12V or 10A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX250-2D8PE1)	949.84	70.19	
28 16 11 00-0423	EA	DVPS 6A/12V or 3A/24V (75W) and 6A/12V or 3A/24VA (75W) E2 enclosure (Sielox SLX75/75-E2)	831.65	61.45	
28 16 11 00-0424	EA	DVPS 6A/12V or 3A/24V (75W) and 12A/12V or 6A/24V (150W) E2 enclosure (Sielox SLX75/150-E2)	1,004.70	74.23	
28 16 11 00-0425	EA	DVPS 6A/12V or 3A/24V (75W) and 20A/12V or 10A/24V (250W) E2 enclosure (Sielox SLX75/250-E2)	1,114.48	82.35	
28 16 11 00-0426	EA	DVPS 8A/12V or 4A/24V (100W) and 8A/12V or 4A/24V (100W) E2 enclosure (Sielox SLX100/100-E2)	1,097.60	81.10	
28 16 11 00-0427	EA	DVPS 8A/12V or 4A/24V (100W) and 12A/12V or 6A/24V (150W) E2 enclosure (Sielox SLX100/150-E2)	1,139.80	84.21	
28 16 11 00-0428	EA	DVPS 8A/12V or 4A/24V (100W) and 16A/12V or 8A/24V (200W) E2 enclosure (Sielox SLX100/200-E2)	1,203.13	88.90	
28 16 11 00-0429	EA	DVPS 12A/12V or 6A/24V (150W) and 12A/12V or 6A/24V (150W) E2 enclosure (Sielox SLX150/150-E2)	1,182.00	87.35	
28 16 11 00-0430	EA	DVPS 12A/12V or 6A/24V (150W) and 20A/12V or 10A/24V (250W) E2 enclosure (Sielox SLX150/250-E2)	1,291.78	95.45	

28 Electronic Safety and Security**28 10 Access Control****28 16 Access Control Interfaces**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0431 EA DVPS 20A/12V or 10A/24V (250W) and 20A/12V or 10A/24V (250W) E2 enclosure (Sielox SLX250/250-E2)	1,401.55	103.57
28 16 11 00-0432 EA DVPS 6A/12V or 3A/24V (75W) and 6A/12V or 3A/24V (75W) E4 enclosure (Sielox SLX75/75-E4)	958.28	70.80
28 16 11 00-0433 EA DVPS 6A/12V or 3A/24V (75W) and 12A/12V or 6A/24V (150W) E4 enclosure (Sielox SLX75/150-E4)	1,135.59	83.91
28 16 11 00-0434 EA DVPS 12A/12V or 6A/24V (150W) and 12A/12V or 6A/24V (150W) E4 enclosure (Sielox SLX150/150-E4)	1,312.89	97.01
28 16 11 00-0435 EA DVPS 12A/12V or 6A/24V (150W) and 20A/12V or 10A/24V (250W) E4 enclosure (Sielox SLX150/250-E4)	1,422.63	105.13
28 16 11 00-0436 EA DVPS 20A/12V or 10A/24V (250W) and 20A/12V or 10A/24V (250W) E4 enclosure (Sielox SLX250/250-E4)	1,532.40	113.23
28 16 11 00-0437 EA DVPS SLX/B100 Combination. Up To 2 Amperes At 12 Volt And 2 Amperes At 24 Volt System Backed Up With One Battery Set E1 Enclosure (Sielox SLX75-B100E1)	629.02	46.48
28 16 11 00-0438 EA DVPS SLX/B100 combination. Up To 4 Amperes At 12 Volt And 4 Amperes At 24 Volt System Backed Up With One Battery Set E1 enclosure (Sielox SLX150-B100E1)	806.31	59.58
28 16 11 00-0439 EA DVPS SLX/B100 Combination. Up To 4 Amperes At 12 Volt and 8 Amperes At 24 Volt System Backed Up With One Battery Set E1 Enclosure (Sielox SLX250-B100E1)	916.06	67.69
28 16 11 00-0440 EA SLX75 and two (2) B100 modules with 5-18V adjustable output System can be backed up w/ one battery set E1 enclosure (Sielox SLX75-2B100E1)	743.00	54.90
28 16 11 00-0441 EA SLX150 and two (2) B100 modules with 5-18V adjustable output System can be backed up w/ one battery set E1 enclosure (Sielox SLX150-2B100E1)	920.30	68.01
28 16 11 00-0442 EA 8 lock outputs 6A/12V or 3A/24V fused at 3A E1 enclosure (Sielox SLX75-C8E1)	675.43	49.91
28 16 11 00-0443 EA 8 lock outputs 6A/12V or 3A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX75-C8PE1)	675.43	49.91
28 16 11 00-0444 EA 8 lock outputs 12A/12V or 6A/24V fused at 3A E1 enclosure (Sielox SLX150-C8E1)	852.72	63.01
28 16 11 00-0445 EA 8 lock outputs 12A/12V or 6A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX150-C8PE1)	852.72	63.01
28 16 11 00-0446 EA 8 lock outputs 20A/12V or 10A/24V fused at 3A E1 enclosure (Sielox SLX250-C8E1)	962.49	71.12
28 16 11 00-0447 EA 8 lock outputs 20A/12V or 10A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX250-C8PE1)	962.49	71.12
28 16 11 00-0448 EA 16 lock outputs 6A/12V or 3A/24V fused at 3A E2 enclosure (Sielox SLX75-2C8E2)	928.72	68.63
28 16 11 00-0449 EA 16 lock outputs 6A/12V or 3A/24V pwr ltd at 2.5A E2 enclosure (Sielox SLX75-2C8PE2)	928.72	68.63
28 16 11 00-0450 EA 16 lock outputs 12A/12V or 6A/24V fused at 3A E2 enclosure (Sielox SLX150-2C8E2)	1,101.80	81.41
28 16 11 00-0451 EA 16 lock outputs 12A/12V or 6A/24V pwr ltd at 2.5A E2 enclosure (Sielox SLX150-2C8PE2)	1,101.80	81.41
28 16 11 00-0452 EA 16 lock outputs 20A/12V or 10A/24V fused at 3A E2 enclosure (Sielox SLX250-2C8E2)	1,211.58	89.52
28 16 11 00-0453 EA 16 lock outputs 20A/12V or 10A/24V pwr ltd at 2.5A E2 enclosure (Sielox SLX250-2C8PE2)	1,211.58	89.52
28 16 11 00-0454 EA 16 lock outputs 6A/12V or 3A/24V and 6A/12V or 3A/24V fused at 3A E2 enclosure (Sielox SLX75/75-2C8E2)	1,156.69	85.47
28 16 11 00-0455 EA 16 lock outputs 6A/12V or 3A/24V and 6A/12V or 3A/24V pwr ltd at 2.5A E2 enclosure (Sielox SLX75/75-2CP8E2)	1,156.69	85.47
28 16 11 00-0456 EA 16 lock outputs 12A/12V or 6A/24V and 12A/12V or 6A/24V fused at 3A E2 enclosure (Sielox SLX150/150-2C8E2)	1,511.28	111.67
28 16 11 00-0457 EA 16 lock outputs 12A/12V or 6A/24V and 12A/12V or 6A/24V pwr ltd at 2.5A E2 enclosure (Sielox SLX150/150-2C8PE2)	1,511.28	111.67
28 16 11 00-0458 EA 16 lock outputs 12A/12V or 6A/24V and 20A/12V or 10A/24V fused at 3A E2 enclosure (Sielox SLX150/250-2C8E2)	1,616.84	119.47
28 16 11 00-0459 EA 16 lock outputs 12A/12V or 6A/24V and 20A/12V or 10A/24V pwr ltd at 2.5A E2 enclosure (Sielox SLX150/250-2C8PE2)	1,616.84	119.47
28 16 11 00-0460 EA 8 FAI control outputs 6A/12V or 3A/24V fused at 3A E1 enclosure (Sielox SLX75-F8E1)	603.69	44.61
28 16 11 00-0461 EA 8 FAI control outputs 6A/12V or 3A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX75-F8PE1)	603.69	44.61
28 16 11 00-0462 EA 8 FAI control outputs 12A/12V or 6A/24V fused at 3A E1 enclosure (Sielox SLX150-F8E1)	780.99	57.71
28 16 11 00-0463 EA 8 FAI control outputs 12A/12V or 6A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX150-F8PE1)	780.99	57.71
28 16 11 00-0464 EA 8 FAI control outputs 20A/12V or 10A/24V fused at 3A E1 enclosure (Sielox SLX250-F8E1)	890.72	65.82
28 16 11 00-0465 EA 8 FAI control outputs 20A/12V or 10A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX250-F8PE1)	890.72	65.82
28 16 11 00-0466 EA 16 FAI control outputs 20A/12V or 10A/24V fused at 3A E1 enclosure (Sielox SLX250-2F8E1)	979.36	72.36
28 16 11 00-0467 EA 16 FAI control outputs 20A/12V or 10A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX250-2F8PE1)	979.36	72.36
28 16 11 00-0468 EA 4 lock outputs 6A/12V or 3A/24V fused at 3A E1 enclosure (Sielox SLX75-C4E1)	682.98	50.46
28 16 11 00-0469 EA 4 lock outputs 6A/12V or 3A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX75-C4PE1)	637.43	47.10
28 16 11 00-0470 EA 4 lock outputs 12A/12V or 6A/24V fused at 3A E1 enclosure (Sielox SLX150-C4E1)	814.74	60.20
28 16 11 00-0471 EA 4 lock outputs 12A/12V or 6A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX150-C4PE1)	814.74	60.20
28 16 11 00-0472 EA 4 lock outputs 20A/12V or 10A/24V fused at 3A E1 enclosure (Sielox SLX250-C4E1)	924.51	68.31
28 16 11 00-0473 EA 4 lock outputs 20A/12V or 10A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX250-C4PE1)	924.51	68.31
28 16 11 00-0474 EA 4 lock, 8 aux outputs 12A/12V or 6A/24V fused at 3A E1 enclosure (Sielox SLX150-C4D8E1)	890.72	65.82
28 16 11 00-0475 EA 4 lock, 8 aux outputs 12A/12V or 6A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX150-C4PD8PE1)	890.72	65.82
28 16 11 00-0476 EA 4 lock, 8 aux outputs 20A/12V or 10A/24V fused at 3A E1 enclosure (Sielox SLX250-C4D8E1)	1,000.49	73.93
28 16 11 00-0477 EA 4 lock, 8 aux outputs 20A/12V or 10A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX250-C4PD8PE1)	1,000.49	73.93
28 16 11 00-0478 EA 4 lock, 8 aux outputs 6A/12V or 3A/24V (75W) and 6A/12V or 3A/24V (75W) fused at 3A E1 enclosure (Sielox SLX75/75-C4D8E1)	941.37	69.57
28 16 11 00-0479 EA 4 lock, 8 aux outputs 6A/12V or 3A/24V (75W) and 6A/12V or 3A/24V (75W) pwr ltd at 2.5A E1 enclosure (Sielox SLX75/75-C4PD8PE1)	941.37	69.57
28 16 11 00-0480 EA 4 lock, 8 aux outputs 12A/12V or 6A/24V (150W) and 12A/12V or 6A/24V (150W) fused at 3A E2 enclosure (Sielox SLX150/150-C4D8E2)	1,384.63	102.32
28 16 11 00-0481 EA 4 lock, 8 aux outputs 12A/12V or 6A/24V (150W) and 12A/12V or 6A/24V (150W) pwr ltd at 2.5A E2 enclosure (Sielox SLX150/150-C4PD8PE2)	1,384.63	102.32
28 16 11 00-0482 EA 4 lock, 8 aux outputs 12A/12V or 6A/24V (150W) and 20A/12V or 10A/24V (250W) fused at 3A E2 enclosure (Sielox SLX150/250-C4D8E2)	1,490.20	110.11
28 16 11 00-0483 EA 4 lock, 8 aux outputs 12A/12V or 6A/24V (150W) and 20A/12V or 10A/24V (250W) pwr ltd at 2.5A E2 enclosure (Sielox SLX150/250-C4PD8PE2)	1,490.20	110.11
28 16 11 00-0484 EA 4 lock, 8 aux outputs 2A /12V and 2A/24V fused at 3A system backed up with one battery set E1 enclosure (Sielox SLX75-B100C4D8E1)	827.40	61.14
28 16 11 00-0485 EA 4 lock, 8 aux outputs 2A /12V and 2A/24V pwr ltd at 2.5A system backed up with one battery set E1 enclosure (Sielox SLX75-B100C4PD8PE1)	827.40	61.14
28 16 11 00-0486 EA 8 lock outputs 6A/12V or 3A/24V fused at 3A E1 enclosure (Sielox SLX75-C8E1)	675.43	49.91
28 16 11 00-0487 EA 8 lock outputs 6A/12V or 3A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX75-C8PE1)	675.43	49.91
28 16 11 00-0488 EA 8 lock outputs 12A/12V or 6A/24V fused at 3A E1 enclosure (Sielox SLX150-C8E1)	852.72	63.01
28 16 11 00-0489 EA 8 lock outputs 12A/12V or 6A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX150-C8PE1)	852.72	63.01
28 16 11 00-0490 EA 8 lock, 8 aux outputs 6A/12V or 3A/24V fused at 3A E1 enclosure (Sielox SLX75-C8D8E1)	751.41	55.52
28 16 11 00-0491 EA 8 lock, 8 aux outputs 6A/12V or 3A/24V pwr ltd at 2.5A E1 enclosure (Sielox SLX75-C8PD8PE1)	751.41	55.52
28 16 11 00-0492 EA 8 lock, 8 aux outputs 12A/12V or 6A/24V fused at 3A E2 enclosure (Sielox SLX150-C8D8E2)	1,017.37	75.17
28 16 11 00-0493 EA 8 lock, 8 aux outputs 12A/12V or 6A/24V pwr ltd at 2.5A E2 enclosure (Sielox SLX150-C8PD8PE2)	1,017.37	75.17
28 16 11 00-0494 EA 8 lock, 8 aux outputs 20A/12V or 10A/24V fused at 3A E2 enclosure (Sielox SLX250-C8D8E2)	1,122.92	82.98
28 16 11 00-0495 EA 8 lock, 8 aux outputs 20A/12V or 10A/24V pwr ltd at 2.5A E2 enclosure (Sielox SLX250-C8PD8PE2)	1,122.92	82.98



Electronic Safety and Security			28
Access Control			28 10
Access Control Interfaces			28 16

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0496	EA	8 lock, 8 aux outputs 6A/12V or 3A/24V (75W) and 6A/12V or 3A/24V (75W) fused at 3A E2 enclosure (Sielox SLX75/75-C8D8E2).....	1,068.02	78.92
28 16 11 00-0497	EA	8 lock, 8 aux outputs 6A/12V or 3A/24V (75W) and 6A/12V or 3A/24V (75W) pwr ltd at 2.5A E2 enclosure (Sielox SLX75/75-C8PD8PE2).....	1,068.02	78.92
28 16 11 00-0498	EA	8 lock, 8 aux outputs 6A/12V or 3A/24V (75W) and 12A/12V or 6A/24V (150W) fused at 3A E2 enclosure (Sielox SLX75/150-C8D8E2).....	1,245.32	92.01
28 16 11 00-0499	EA	8 lock, 8 aux outputs 6A/12V or 3A/24V (75W) and 12A/12V or 6A/24V (150W) pwr ltd at 2.5A E2 enclosure (Sielox SLX75/150-C8PD8PE2).....	1,245.32	92.01
28 16 11 00-0500	EA	8 lock, 8 aux outputs 12A/12V or 6A/24V (150W) and 12A/12V or 6A/24V (150W) fused at 3A E2 enclosure (Sielox SLX150/150-C8D8E2).....	1,422.63	105.13
28 16 11 00-0501	EA	8 lock, 8 aux outputs 12A/12V or 6A/24V (150W) and 12A/12V or 6A/24V (150W) pwr ltd at 2.5A E2 enclosure (Sielox SLX150/150-C8PD8PE2).....	1,422.63	105.13
28 16 11 00-0502	EA	8 lock, 8 aux outputs 12A/12V or 6A/24V (150W) and 20A/12V or 10A/24V (250W) fused at 3A E2 enclosure (Sielox SLX150/250-C8D8E2).....	1,532.40	113.23
28 16 11 00-0503	EA	8 lock, 8 aux outputs 12A/12V or 6A/24V (150W) and 20A/12V or 10A/24V (250W) pwr ltd at 2.5A E2 enclosure (Sielox SLX150/250-C8PD8PE2).....	1,532.40	113.23
28 16 11 00-0504	EA	8 lock, 8 aux outputs 20A/12V or 10A/24V (250W) and 20A/12V or 10A/24V (250W) fused at 3A E2 enclosure (Sielox SLX250/250-C8D8E2).....	1,637.91	121.03
28 16 11 00-0505	EA	8 lock, 8 aux outputs 20A/12V or 10A/24V (250W) and 20A/12V or 10A/24V (250W) pwr ltd at 2.5A E2 enclosure (Sielox SLX250/250-C8PD8PE2).....	1,637.91	121.03
28 16 11 00-0506	EA	8 lock, 8 aux outputs 4A /12V and 4A/24V fused at 3A system backed up with one battery set E2 enclosure (Sielox SLX150-B100C8D8E2).....	1,131.35	83.60
28 16 11 00-0507	EA	8 lock, 8 aux outputs 4A /12V and 4A/24V pwr ltd at 2.5A system backed up with one battery set E2 enclosure (Sielox SLX150-B100C8PD8PE2).....	1,131.35	83.60
28 16 11 00-0508	EA	8 lock, 8 aux outputs 4A /12V and 8A/24V fused at 3A system backed up with one battery set E2 enclosure (Sielox SLX250-B100C8D8E2).....	1,241.12	91.71
28 16 11 00-0509	EA	8 lock, 8 aux outputs 4A /12V and 8A/24V pwr ltd at 2.5A system backed up with one battery set E2 enclosure (Sielox SLX250-B100C8PD8PE2).....	1,241.12	91.71
28 16 11 00-0510	EA	16 lock, 16 aux outputs 12A/12V or 6A/24V fused at 3A E4 enclosure (Sielox SLX150-2C82D8E4).....	1,384.63	102.32
28 16 11 00-0511	EA	16 lock, 16 aux outputs 12A/12V or 6A/24V pwr ltd at 2.5A E4 enclosure (Sielox SLX150-2C8PD8PE4).....	1,384.63	102.32
28 16 11 00-0512	EA	16 lock, 16 aux outputs 20A/12V or 10A/24V fused at 3A E4 enclosure (Sielox SLX250-2C82D8E4).....	1,494.39	110.42
28 16 11 00-0513	EA	16 lock, 16 aux outputs 20A/12V or 10A/24V pwr ltd at 2.5A E4 enclosure (Sielox SLX250-2C8PD8PE4).....	1,494.39	110.42
28 16 11 00-0514	EA	16 lock, 16 aux outputs 6A/12V or 3A/24V (75W) and 6A/12V or 3A/24V (75W) fused at 3A E4 enclosure (Sielox SLX75/75-2C82D8E4).....	1,435.29	106.06
28 16 11 00-0515	EA	16 lock, 16 aux outputs 6A/12V or 3A/24V (75W) and 6A/12V or 3A/24V (75W) pwr ltd at 2.5A E4 enclosure (Sielox SLX75/75-2C8PD8PE4).....	1,435.29	106.06
28 16 11 00-0516	EA	16 lock, 16 aux outputs 12A/12V or 6A/24V (150W) and 12A/12V or 6A/24V (150W) fused at 3A E4 enclosure (Sielox SLX150/150-2C82D8E4).....	1,789.90	132.26
28 16 11 00-0517	EA	16 lock, 16 aux outputs 12A/12V or 6A/24V (150W) and 12A/12V or 6A/24V (150W) pwr ltd at 2.5A E4 enclosure (Sielox SLX150/150-2C8PD8PE4).....	1,789.90	132.26
28 16 11 00-0518	EA	16 lock, 16 aux outputs 12A/12V or 6A/24V (150W) and 20A/12V or 10A/24V (250W) fused at 3A E4 enclosure (Sielox SLX150/250-2C82D8E4).....	1,899.67	140.36
28 16 11 00-0519	EA	16 lock, 16 aux outputs 12A/12V or 6A/24V (150W) and 20A/12V or 10A/24V (250W) pwr ltd at 2.5A E4 enclosure (Sielox SLX150/250-2C8PD8PE4).....	1,899.67	140.36
28 16 11 00-0520	EA	16 lock, 16 aux outputs 20A/12V or 10A/24V (250W) and 20A/12V or 10A/24V (250W) fused at 3A E4 enclosure (Sielox SLX250/250-2C82D8E4).....	2,009.44	148.48
28 16 11 00-0521	EA	16 lock, 16 aux outputs 20A/12V or 10A/24V (250W) and 20A/12V or 10A/24V (250W) pwr ltd at 2.5A E4 enclosure (Sielox SLX250/250-2C8PD8PE4).....	2,009.44	148.48
28 16 11 00-0522	EA	AC-1700 Controller Board - Includes 1 GB SD Card, connector kit, and fuse. (Sielox AC-1700-NN-2).....	1,788.85	132.19
28 16 11 00-0523	EA	2-Reader Ethernet/RS485 Kit: Supports 2 Door Strikes, 2 Door Contacts, 2 REX Inputs, 4 Sup./Unsup. Inputs, 4 Sup./Unsup. Outputs. Includes Sielox Large Enclosure And 12 Volt DC Transformer (Sielox AC-1700-LS-2).....	2,577.24	190.43
28 16 11 00-0524	EA	4-Reader Ethernet/RS485 Kit: Supports 4 Door Strikes, 4 Door Contacts, 4 REX Inputs, 8 Sup./Unsup. Inputs, 8 Sup./Unsup. Outputs. Includes Sielox Large Enclosure And 12 Volt DC Transformer (Sielox AC-1700-LS-4).....	4,366.09	322.62
28 16 11 00-0525	EA	6-Reader Ethernet/RS485 Kit: Supports 6 Door Strikes, 6 Door Contacts, 6 REX Inputs, 12 Sup./Unsup. Inputs, 12 Sup./Unsup. Outputs. Includes Sielox Large Enclosure And 12 Volt DC Transformer (Sielox AC-1700-LS-6).....	6,154.92	454.80
28 16 11 00-0526	EA	8-Reader Ethernet/RS485 Kit: Supports 8 Door Strikes, 8 Door Contacts, 8 REX Inputs, 16 Sup./Unsup. Inputs, 16 Sup./Unsup. Outputs. Includes Sielox Large Enclosure And 12 Volt DC Transformer (Sielox AC-1700-LS-8).....	7,943.78	586.99
28 16 11 00-0527	EA	2-Reader Ethernet/RS485 Kit: Supports 2 Door Strikes, 2 Door Contacts, 2 REX Inputs, 4 Sup./Unsup. Inputs, 4 Sup./Unsup. Outputs. Includes Sielox Large Enclosure (Sielox AC-1700-LN-2).....	2,263.76	167.28
28 16 11 00-0528	EA	4-Reader Ethernet/RS485 Kit: Supports 4 Door Strikes, 4 Door Contacts, 4 REX Inputs, 8 Sup./Unsup. Inputs, 8 Sup./Unsup. Outputs. Includes Sielox Large Enclosure (Sielox AC-1700-LN-4).....	4,052.63	299.45
28 16 11 00-0529	EA	6-Reader Ethernet/RS485 Kit: Supports 6 Door Strikes, 6 Door Contacts, 6 REX Inputs, 12 Sup./Unsup. Inputs, 12 Sup./Unsup. Outputs. Includes Sielox Large Enclosure (Sielox AC-1700-LN-6).....	5,841.48	431.64
28 16 11 00-0530	EA	8-Reader Ethernet/RS485 Kit: Supports 8 Door Strikes, 8 Door Contacts, 8 REX Inputs, 16 Sup./Unsup. Inputs, 16 Sup./Unsup. Outputs. Includes Sielox Large Enclosure (Sielox AC-1700-LN-8).....	7,630.35	563.82
28 16 11 00-0531	EA	2-Reader Ethernet/RS485 Kit: Supports 2 Door Strikes, 2 Door Contacts, 2 REX Inputs, 4 Sup./Unsup. Inputs, 4 Sup./Unsup. Outputs. Includes Sielox Small Enclosure Holds 1 Controller. (Sielox AC-1700-SN-2).....	2,168.79	160.25
28 16 11 00-0532	EA	2-Reader Ethernet/RS485 Kit: Supports 2 Door Strikes, 2 Door Contacts, 2 REX Inputs, 4 Sup./Unsup. Inputs, 4 Sup./Unsup. Outputs. Includes Sielox Small Enclosure And 12V 5A Transformer. Holds 1 Controller. (Sielox AC-1700-SS-2).....	2,482.22	183.42
28 16 11 00-0533	EA	I/O Mounting Plate - For Installation of BP5 or BP7 back planes in the AC-1700 large enclosure (Sielox AC-1700-IOMP).....	126.64	9.35
28 16 11 00-0534	EA	AC-1700 I/O Backplane with capacity for: 7 I/O Modules in any combination, Requires Enclosure, Mounting Plate, I/O Modules, 1700 Controller and Power Supply (Sielox AC-1700-BP7I/O).....	484.41	35.79
28 16 11 00-0535	EA	Input Expansion Kit - AC-INP Input Module and Connectors - 8 Inputs (Supervised /Unsupervised) For AC1700, AC1500, And AC1200 I/O Backplanes (Sielox AC-IEK).....	427.44	31.58
28 16 11 00-0536	EA	Output Expansion Kit - AC-OUT Output Module and Connectors - 8 Outputs. For AC1700, AC1500, And AC1200 I/O Backplanes (Sielox AC-OEK).....	474.92	35.09
28 16 11 00-0537	EA	6 and 12 Volt DC Power Regulator and Battery charger for AC-1700 And AC1500 Backplanes only! It includes an AC fail output. AC-PWRS not included. Required for Power. (Sielox AC-PRDUAL).....	440.09	32.52
28 16 11 00-0538	EA	2-Door Pinnacle Ultra Package, 1- Controller (6201700), Small Enclosure Kit (6800111), and 12 Volt DC Plugin Transformer (7209926). (Sielox AC-PULS-1700-2D).....	2,830.51	209.15
28 16 11 00-0539	EA	2- Door Pinnacle Ultra Package, 1-Controller (6201700) with Large Enclosure (6800110) and 12 Volt DC Plugin Transformer (7209926). (Sielox AC-PULL-1700-2D).....	2,925.49	216.17

28 Electronic Safety and Security**28 10 Access Control****28 16 Access Control Interfaces**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0540 EA 4- Door Pinnacle Ultra Package, 2- Controllers (6201700) with Large Enclosure (6800110) and 12 Volt DC Plugin Transformer (7209926). (Sielox AC-PULL-1700-4D).....	4,714.36	348.35
28 16 11 00-0541 EA 6- Door Pinnacle Ultra Package, 3 - Controllers (6201700) with Large Enclosure (6800110) and 12 Volt DC Plugin Transformer (7209926). (Sielox AC-PULL-1700-6D).....	6,503.21	480.54
28 16 11 00-0542 EA 8 Door Pinnacle Ultra Package, 4- Controllers (6201700) with Large Enclosure (6800110) and 12 Volt DC Transformer (7209926). (Sielox AC-PULL-1700-8D).....	8,292.07	612.71
28 16 11 00-0543 EA 2-Door Pinnacle Lite package, 1- Controller (6201700), Small Enclosure Kit (6800111), 12 Volt DC Plugin Transformer (7209926). (Sielox AC-PLTS-1700-2D).....	3,305.42	244.24
28 16 11 00-0544 EA 2- Door Pinnacle Lite Package, 1-Controller (6201700) with Large Enclosure (6800110) and 12 Volt DC Plugin Transformer (7209926). (Sielox AC-PLTL-1700-2D).....	3,400.41	251.26
28 16 11 00-0545 EA 4- Door Pinnacle Lite Package, 2-Controllers (6201700) with Large Enclosure (6800110) and 12 Volt DC Plugin Transformer (7209926). (Sielox AC-PLTL-1700-4D).....	5,189.27	383.44
28 16 11 00-0546 EA 6- Door Pinnacle Lite Package, 3 - Controllers (6201700) with Large Enclosure (6800110) and 12 Volt DC Plugin Transformer (7209926). (Sielox AC-PLTL-1700-6D).....	6,978.12	515.62
28 16 11 00-0547 EA 8- Door Pinnacle Lite Package, 4 - Controllers (6201700) with Large Enclosure (6800110) and 12 Volt DC Plugin Transformer (7209926). (Sielox AC-PLTL-1700-8D).....	8,766.97	647.80
28 16 11 00-0548 EA Badging for Pinnacle Lite (per concurrent user) (Sielox AC-BLT).....	1,567.23	115.81
28 16 11 00-0549 EA Badging for Pinnacle Standard Software (per concurrent user) (Sielox AC-BST).....	1,741.35	128.68
28 16 11 00-0550 EA Badging for Pinnacle Plus Software (per concurrent user) (Sielox AC-BPL).....	1,947.17	143.88
28 16 11 00-0551 EA Badging for Pinnacle Professional Software (per concurrent user) (Sielox AC-BPR).....	2,517.06	185.98
28 16 11 00-0552 EA Workstations for Pinnacle Standard (per Concurrent User) (Sielox AC-WST).....	1,883.83	139.20
28 16 11 00-0553 EA Workstations for Pinnacle Plus (per Concurrent User) (Sielox AC-WPL).....	2,200.46	162.60
28 16 11 00-0554 EA Workstations for Pinnacle Professional (per Concurrent User) (Sielox AC-WPR).....	2,517.06	185.98
28 16 11 00-0555 EA Workstations for Pinnacle Standard (per two Concurrent Users) (Sielox AC-WST2).....	2,691.22	198.86
28 16 11 00-0556 EA Workstations for Pinnacle Plus (per two Concurrent Users) (Sielox AC-WPL2).....	3,324.42	245.64
28 16 11 00-0557 EA Workstations for Pinnacle Professional (per two Concurrent Users) (Sielox AC-WPR2).....	3,957.66	292.44
28 16 11 00-0558 EA Workstations for Pinnacle Standard (per five Concurrent Users) (Sielox AC-WST5).....	4,274.25	315.83
28 16 11 00-0559 EA Workstations for Pinnacle Plus (per five Concurrent Users) (Sielox AC-WPL5).....	6,173.92	456.20
28 16 11 00-0560 EA Workstations for Pinnacle Professional (per five Concurrent Users) (Sielox AC-WPR5).....	7,915.30	584.88
28 16 11 00-0561 EA Pinnacle Lite Software [32 readers / 2K cards] A single user system includes license for 1 single operator only, installation and PDF user manuals (Sielox AC-PLT).....	918.18	67.84
28 16 11 00-0562 EA Pinnacle Standard Software [64 readers / 4K cards] A multiple user system that Includes 2 operators (1 server license and 1 workstation seat license), installation and PDF user manual. (Sielox AC-PNST).....	1,899.67	140.36
28 16 11 00-0563 EA Pinnacle Plus Software [128 readers / 10K cards] A multiple user system that includes 2 operators (1 server license and 1 workstation seat license), installation and PDF user manuals. (Sielox AC-PNPL).....	4,036.79	298.28
28 16 11 00-0564 EA Pinnacle Professional Software [unlimited readers and cards] A multiple user system that includes 2 operators (1 server license and 1 workstation seat license), installation and PDF user manuals. (Sielox AC-PNPR).....	10,970.58	810.63
28 16 11 00-0565 EA Pinnacle Ultra From a Bundled Package to Pinnacle Lite (Sielox AC-PNUL2LT).....	633.23	46.79
28 16 11 00-0566 EA Pinnacle Lite to Pinnacle Standard (Sielox AC-PNLT2STA).....	1,583.07	116.97
28 16 11 00-0567 EA Pinnacle Standard to Pinnacle Plus (Sielox AC-PNST2PL).....	2,374.58	175.46
28 16 11 00-0568 EA Pinnacle Plus to Pinnacle Professional (Sielox AC-PNPL2PR).....	8,706.80	643.37
28 16 11 00-0569 EA Database Partitioning Option: Partition database by dividing a single system into multiple segments that can be independently operated and managed. A resulting partition consists of cardholders, cardholder custom fields, devices, access levels, time zones, holidays, and filters. (Sielox AC-DBPART).....	1,583.07	116.97
28 16 11 00-0570 EA SDK Licensing with 3 hours of phone support - A software development kit with library calls for developing standalone applications for qualified programmers via a separate licensing agreement (Sielox AC-PINSDK).....	6,316.40	466.74
28 16 11 00-0571 EA Pinnacle Data Exchange -This Application allows data exchange from third party databases into Pinnacle. Automatically or manually Add, Delete or Modify cardholder's database. (Sielox AC-DETEX).....	1,583.07	116.97
28 16 11 00-0572 EA Pinnacle Data Exchange Professional Services (Sielox AC-DATEXPS).....	4,733.36	349.75
Note: Includes the Initial Set-up and Configuration of the Data Exchange . If additional support is needed refer to the Professional Services Support Offerings part # 569936.		
28 16 11 00-0573 EA Pinnacle Data Exchange Kit -Includes Data Exchange and Professional Services (Sielox AC-DATEXKIT).....	6,316.40	466.74
28 16 11 00-0574 EA AC-1700 Large Enclosure. Holds up to 4 controllers. -Dimensions: 17" x 22" x 3.5" (40.64 cm x 50.80 cm x 8.99 cm) (Sielox AC-1700ENCL).....	474.92	35.09
28 16 11 00-0575 EA AC-1700 Small Enclosure. Holds 1 controller - Dimensions: 12" x 12" x 3.5" (30.48 cm x 30.48 cm x 8.89 cm) (Sielox AC-1700ENCS).....	379.94	28.07
28 16 11 00-0576 EA Retrofit Mounting Plate - For mounting up to 4 AC-1700 controller boards in the AC-1500 large enclosure or other large enclosures. (Sielox AC-1700-RMP-2).....	126.64	9.35
28 16 11 00-0577 EA Mounting Plate - For a single AC-1700 Controller Board (Sielox AC-1700-MP).....	94.98	7.02
28 16 11 00-0578 EA Pinnacle Argos License upgrade to 64 cameras - Requires Pinnacle Standard License (Sielox AC-ARGOS64).....	791.53	58.49
28 16 11 00-0579 EA Pinnacle Argos License upgrade to 128 cameras -Requires Pinnacle Plus License (Sielox AC-ARGOS128).....	1,583.07	116.97
28 16 11 00-0580 EA Pinnacle Argos License upgrade to Unlimited cameras -Requires Pinnacle Professional License (Sielox AC-ARGOSUNL).....	4,749.18	350.92
28 16 11 00-0581 EA Hardware COM Server Option : Distribute controllers around multi-hardware servers to enhance communication efficiency. Link inputs and outputs between different hardware servers. Note #1: Available for licensing with Pinnacle Professional only. Note #2: A workstation (client) license is only used up if the Pinnacle GUI is also being run on a Hardware COM server. (Sielox AC-HWSRV).....	3,213.62	237.46
28 16 11 00-0582 EA Panel Interface Module (Sielox PIM400-485-RSI).....	2,766.07	204.38
28 16 11 00-0583 EA Mifare Smart Cards (Sielox XF9551).....	8.31	0.62
28 16 11 00-0584 EA AD-400 Lock (Sielox AD-400-MS-70-MTK-SPA-626-RD-EV29S-S123-RH-4B-09-663-10-072-1374).....	4,486.69	331.53
28 16 11 00-0585 EA AD-400 Lock (Sielox AD-400-CY-70-MT-SPA-626-LD-RH-4B-13-049-10-025-1 3/4).....	3,733.79	275.89
28 16 11 00-0586 EA AD-400 Lock (Sielox AD-400-CY-70-MSK-SPA-626-PD-EV29S-S123-RH-4B-13-049-10-025-1 3/4).....	3,786.98	279.83
28 16 11 00-0587 EA NDE Lock (Sielox NDE-80-PD-SPA-626-SPA-626-13-047-10-130-S123).....	1,550.81	114.59
28 16 11 00-0588 EA NDE Lock (Sielox NDE-80-LD-SPA-626-SPA-626-13-047-10-130-S123).....	1,442.37	106.58
28 16 11 00-0589 EA NDE Engage Gateway (Sielox NDE Engage Gateway).....	1,757.43	129.86
28 16 11 00-0590 EA aptiQ Reader (Sielox MT15).....	403.04	29.78
28 16 11 00-0591 EA aptiQ Reader (Sielox MTK15).....	654.69	48.38
28 16 11 00-0592 EA AD Series Network Hardwired Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader (Sielox AD300-CY-70-MT-SPA-626-BD-RH-13-049-10-025-1 3/4).....	2,515.49	185.87
Note: Includes Sparta Lever with a Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/4" x 4-7/8"), Door Thickness (1-3/4")		



Electronic Safety and Security			28
Access Control			28 10
Access Control Interfaces			28 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0593	EA		AD Series Network Hardwired Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader (Sielox AD300-CY-70-MT-SPA-626-JD-RH-13-049-10-025-1 3/4) Note: Includes Sparta Lever with a Satin Chrome Finish, Less Cylinder, 6 Pin SFIC Core, Right Handed, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")	2,472.69	182.71
28 16 11 00-0594	EA		AD Series Network Hardwired Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader (Sielox AD300-CY-70-MT-SPA-626-PD S123-RH-13-049-10-025-1 3/4)..... Note: Includes Sparta Lever with a Satin Chrome Finish, Full Cylinder, 6 Pin SFIC Core, Everest 29 Keyway Type, Right handed, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")	2,515.49	185.87
28 16 11 00-0595	EA		AD Series Network Hardwired Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad (Sielox AD300-CY-70-MTK-SPA-626-BD-RH-13-049-10-025-1 3/4) Note: Includes Sparta Lever with Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")	2,596.68	191.88
28 16 11 00-0596	EA		AD Series Network Hardwired Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad (Sielox AD300-CY-70-MTK-SPA-626-JD-RH-13-049-10-025-1 3/4) Note: Includes Sparta Lever with Satin Chrome Finish, Less Cylinder, 6 Pin SFIC Core, Right Handed, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")	2,553.87	188.71
28 16 11 00-0597	EA		AD Series Network Hardwired Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad (Sielox AD300-CY-70-MTK-SPA-626-PD S123-RH-13-049-10-025-1 3/4) Note: Includes Sparta Lever with Satin Chrome Finish, Full Cylinder, 6 Pin SFIC Core, Everest 29 Keyway Type, Right Handed, Backset And Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")	2,596.68	191.88
28 16 11 00-0598	EA		AD Series Network Hardwired Lock, Exit Trim - Rim/CVR/CVC, Classroom/Storeroom Function, Multi-Technology Reader, Rhodes Lever with Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed Reverse, Door Thickness (1-3/4") (Sielox AD300-993R-70-MT-RHO-626-BD-RHR-1 3/4).....	2,914.06	215.32
28 16 11 00-0599	EA		AD Series Networked Hardwired Lock, Exit Trim - SVR, Classroom/Storeroom Function, Multi-Technology Reader, Rhodes Lever with Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed Reverse, Door Thickness (1-3/4") (Sielox AD300-993S-70-MT-RHO-626-BD-RHR-1 3/4).....	2,952.45	218.16
28 16 11 00-0600	EA		AD Series Networked Hardwired Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader, Sparta Lever with Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed, Mortise Lock Armor Front (1-1/4" wide square corner, latch for MS), Strike Plate (1-3/16" lip, 1-1/4" x 4-7/8" square corner box), Door Thickness (1-3/4") (Sielox AD300-MS-70-MT-SPA-626-BD-RH-09-663-10-072-1 3/4).....	2,850.59	210.63
28 16 11 00-0601	EA		AD Series Networked Hardwired Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader, Sparta Lever with Satin Chrome Finish, Less Cylinder, 6 Pin SFIC Core, Right Handed, Mortise Lock Armor Front (1-1/4" wide square corner, latch for MS), Strike Plate (1-3/16" lip, 1-1/4" x 4-7/8" square corner box), Door Thickness (1-3/4") (Sielox AD300-MS-70-MT-SPA-626-JD-RH-09-663-10-072-1 3/4).....	2,807.76	207.47
28 16 11 00-0602	EA		AD Series Networked Hardwired Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader, Sparta Lever with Satin Chrome Finish, 6 Pin Full Cylinder with Everest 29 Keyway Type, Right Handed, Mortise Lock Armor Front (1-1/4" wide square corner, latch for MS), Strike Plate (1-3/16" lip, 1-1/4" x 4-7/8" square corner box), Door Thickness (1-3/4") (Sielox AD300-MS-70-MT-SPA-626-PD S123-RH-09-663-10-072-1 3/4).....	2,850.59	210.63
28 16 11 00-0603	EA		AD Series Networked Hardwired Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad, Sparta Lever with Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed, Mortise Lock Armor Front (1-1/4" wide square corner, latch for MS), Strike Plate (1-3/16" lip, 1-1/4" x 4-7/8" square corner box), Door Thickness (1-3/4") (Sielox AD300-MS-70-MTK-SPA-626-BD-RH-09-663-10-072-1 3/4).....	2,931.78	216.64
28 16 11 00-0604	EA		AD Series Networked Hardwired Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad, Sparta Lever with Satin Chrome Finish, Less Cylinder, 6 Pin SFIC Core, Right Handed, Mortise Lock Armor Front (1-1/4" wide square corner, latch for MS), Strike Plate (1-3/16" lip, 1-1/4" x 4-7/8" square corner box), Door Thickness (1-3/4") (Sielox AD300-MS-70-MTK-SPA-626-JD-RH-09-663-10-072-1 3/4).....	2,888.97	213.47
28 16 11 00-0605	EA		AD Series Networked Hardwired Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad, Sparta Lever with Satin Chrome Finish, 6 Pin Full Cylinder with Everest 29 Keyway Type, Right Handed, Mortise Lock Armor Front (1-1/4" wide square corner, latch for MS), Strike Plate (1-3/16" lip, 1-1/4" x 4-7/8" square corner box), Door Thickness (1-3/4") (Sielox AD300-MS-70-MTK-SPA-626-PD S123-RH-09-663-10-072-1 3/4).....	2,931.78	216.64
28 16 11 00-0606	EA		AD Series Networked Wireless Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader (Sielox AD400-CY-70-MT-SPA-626-BD-RH-4B-13-049-10-025-1 3/4) Note: Includes Sparta Lever with Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed, 4AA Battery Kit, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")	2,772.36	204.85
28 16 11 00-0607	EA		AD Series Networked Wireless Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader (Sielox AD400-CY-70-MT-SPA-626-JD-RH-4B-13-049-10-025-1 3/4)..... Note: Includes Sparta Lever with Satin Chrome Finish, Less Cylinder, 6 Pin SFIC Core, Right Handed, 4AA Battery Kit, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")	2,729.54	201.70
28 16 11 00-0608	EA		AD Series Networked Wireless Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader (Sielox AD400-CY-70-MT-SPA-626-PD S123-RH-4B-13-049-10-025-1 3/4) Note: Includes Sparta Lever with Satin Chrome Finish, 6 Pin Full Cylinder with Everest 29 Keyway Type, Right Handed, 4AA Battery Kit, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")	2,772.36	204.85
28 16 11 00-0609	EA		AD Series Networked Wireless Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad (Sielox AD400-CY-70-MTK-SPA-626-BD-RH-4B-13-049-10-025-1 3/4) Note: Includes Sparta Lever with Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed, 4AA Battery Kit, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")	2,853.52	210.85
28 16 11 00-0610	EA		AD Series Networked Wireless Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad (Sielox AD400-CY-70-MTK-SPA-626-JD-RH-4B-13-049-10-025-1 3/4)..... Note: Includes Sparta Lever with Satin Chrome Finish, Less Cylinder, 6 Pin SFIC Core, Right Handed, 4AA Battery Kit, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")	2,810.72	207.69
28 16 11 00-0611	EA		AD Series Networked Wireless Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad (Sielox AD400-CY-70-MTK-SPA-626-PD S123-RH-4B-13-049-10-025-1 3/4)..... Note: Includes Sparta Lever with Satin Chrome Finish, 6 Pin Full Cylinder with Everest 29 Keyway Type, Right Handed, 4AA Battery Kit, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")	2,853.52	210.85

28 Electronic Safety and Security**28 10 Access Control****28 16 Access Control Interfaces**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0612	EA	AD Series Networked Wireless Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader (Sielox AD-400-CY-70-MT-RHO-626-BD-RH-4B-13-049-10-025-1 3/4).....	2,772.36	204.85	
Note: Includes Rhodes Lever with Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed, 4AA Battery Kit, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")					
28 16 11 00-0613	EA	AD Series Networked Wireless Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad, Athens Lever with Satin Chrome Finish, Less Cylinder, 6 Pin SFIC Core (Sielox AD400-CY-70-MTK-ATH-626-JD)	2,810.72	207.69	
28 16 11 00-0614	EA	AD Series Networked Wireless Lock, Exit Trim - Rim/CVR/CVC, Classroom/Storeroom Function, Multi-Technology Reader, Rhodes Lever with Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed Reverse, 4AA Battery Kit, Door Thickness (1-3/4") (Sielox AD400-993R-70-MT-RHO-626-BD-RHR-4B-1 3/4)	3,194.55	236.05	
28 16 11 00-0615	EA	AD Series Networked Wireless Cylindrical Lock, Classroom/Storeroom Function, Multi-Technology Reader (Sielox AD400-CY-70-MT-SPA-626-LD-RH-4B-13-049-10-025-1 3/4)	2,694.11	199.06	
Note: Includes Sparta Lever with Satin Chrome Finish, Less Cylinder, 6 Pin Key-in-Lever, Right Handed, 4AA Battery Kit, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")					
28 16 11 00-0616	EA	AD Series Networked Wireless Cylindrical Lock, Classroom/Storeroom Function, Magnetic Stripe + Keypad (Swipe) (Sielox AD400-CY-70-MSK-SPA-626-PD-EV29S-S123-RH-4B-13-049-10-025-1 3/4)	2,732.51	201.90	
Note: Includes Sparta Lever with Satin Chrome Finish, 6 Pin Full Cylinder with Everest 29 Keyway Type, Right Handed, 4AA Battery Kit, Backset and Latchbolt (2-3/4" backset, deadlatch, square corner, 1-1/8"x 2-1/4"), Strike Plate (1-3/16" Lip, ANSI, no box, 1-1/14" x 4-7/8"), Door Thickness (1-3/4")					
28 16 11 00-0617	EA	AD Series Networked Wireless Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader, Sparta Lever with Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed, 4AA Battery Kit, Mortise Lock Armor Front (1-1/4" Wide Square Corner, Latch for MS), Strike Plate (1-3/16" Lip, 1-1/4" x 4-7/8", Square Corner Box), Door Thickness (1-3/4") (Sielox AD400-MS-70-MT-SPA-626-BD-RH-4B-09-663-10-072-1 3/4)	3,108.91	229.73	
28 16 11 00-0618	EA	AD Series Networked Wireless Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader, Sparta Lever with Satin Chrome Finish, Less Cylinder, 6 Pin SFIC Core, Right Handed, 4AA Battery Kit, Mortise Lock Armor Front (1-1/4" Wide Square Corner, Latch for MS), Strike Plate (1-3/16" Lip, 1-1/4" x 4-7/8", Square Corner Box), Door Thickness (1-3/4") (Sielox AD400-MS-70-MT-SPA-626-JD-RH-4B-09-663-10-072-1 3/4)	3,066.10	226.56	
28 16 11 00-0619	EA	AD Series Networked Wireless Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader, Sparta Lever with Satin Chrome Finish, 6 Pin Full Cylinder with Everest 29 Keyway Type, Right Handed, 4AA Battery Kit, Mortise Lock Armor Front (1-1/4" Wide Square Corner, Latch for MS), Strike Plate (1-3/16" Lip, 1-1/4" x 4-7/8", Square Corner Box), Door Thickness (1-3/4") (Sielox AD400-MS-70-MT-SPA-626-PD S123-RH-4B-09-663-10-072-1 3/4)	3,108.91	229.73	
28 16 11 00-0620	EA	AD Series Networked Wireless Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad, Sparta Lever with Satin Chrome Finish, Less Cylinder, 7 Pin SFIC Core, Right Handed, 4AA Battery Kit, Mortise Lock Armor Front (1-1/4" Wide Square Corner, Latch for MS), Strike Plate (1-3/16" Lip, 1-1/4" x 4-7/8", Square Corner Box), Door Thickness (1-3/4") (Sielox AD400-MS-70-MTK-SPA-626-BD-RH-4B-09-663-10-072-1 3/4)	3,190.12	235.73	
28 16 11 00-0621	EA	AD Series Networked Wireless Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad, Sparta Lever with Satin Chrome Finish, Less Cylinder, 6 Pin SFIC Core, Right Handed, 4AA Battery Kit, Mortise Lock Armor Front (1-1/4" Wide Square Corner, Latch for MS), Strike Plate (1-3/16" Lip, 1-1/4" x 4-7/8", Square Corner Box), Door Thickness (1-3/4") (Sielox AD400-MS-70-MTK-SPA-626-JD-RH-4B-09-663-10-072-1 3/4)	3,147.31	232.56	
28 16 11 00-0622	EA	AD Series Networked Wireless Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader with Keypad, Sparta Lever with Satin Chrome Finish, 6 Pin Full Cylinder with Everest 29 Keyway Type, Right Handed, 4AA Battery Kit, Mortise Lock Armor Front (1-1/4" Wide Square Corner, Latch for MS), Strike Plate (1-3/16" Lip, 1-1/4" x 4-7/8", Square Corner Box), Door Thickness (1-3/4") (Sielox AD400-MS-70-MTK-SPA-626-PD S123-RH-4B-09-663-10-072-1 3/4)	3,190.12	235.73	
28 16 11 00-0623	EA	AD Series Networked Wireless Mortise Lock, Classroom/Storeroom Function, Multi-Technology Reader, Sparta Lever with Satin Chrome Finish, With Cylinder, Everest 29 Keyway Type, 6 Pin SFIC Core, Right Handed, 4AA Battery Kit, Mortise Lock Armor Front (1-1/4" Wide Square Corner, Latch for MS), Strike Plate (1-3/16" Lip, 1-1/4" x 4-7/8", Square Corner Box), Door Thickness (1-3/4") (Sielox AD400-MS-70-MTK-SPA-626-RD-EV29S-S123-RH-4B-09-663-10-072-1 3/4)	3,237.36	239.21	
28 16 11 00-0624	EA	AD Series Networked Wireless Lock, Exit Trim - Mortise, Classroom/Storeroom Function, Multi-Technology Reader with Keypad, Athens Lever with Satin Chrome Finish, Less Cylinder, 6 Pin SFIC Core, Everest 29 Keyway Type, Right Handed (Sielox AD400-993M-70-MTK-ATH-626-JD-S123-RH)	3,148.79	232.67	
28 16 11 00-0625	EA	NDE Series Wireless Lock, Storeroom with Vandigard Function, Less Cylinder, 7 Pin SFIC Core, Sparta Lever with Satin Chrome Finish, Backset and Latchbolt (2-3/4" Backset, Deadlatch, Square Corner, 1-1/8" x 2-1/4" Standard), Strike Plate (1-3/16" Lip, ANSI, DPS Magnets, no box, 1-1/4" x 4-7/8" Standard) (Sielox NDE-80-BD-SPA-626-13-047-10-130)	1,124.32	83.07	
28 16 11 00-0626	EA	NDE Series Wireless Lock, Storeroom with Vandigard Function, Less Cylinder, 6 Pin SFIC Core, Sparta Lever with Satin Chrome Finish, Backset and Latchbolt (2-3/4" Backset, Deadlatch, Square Corner, 1-1/8" x 2-1/4" Standard), Strike Plate (1-3/16" Lip, ANSI, DPS Magnets, no box, 1-1/4" x 4-7/8" Standard) (Sielox NDE-80-JD-SPA-626-13-047-10-130)	1,081.32	79.91	
28 16 11 00-0627	EA	NDE Series Wireless Lock, Storeroom with Vandigard Function, 6 Pin Full Cylinder SFIC Core, Sparta Lever with Satin Chrome Finish, Backset and Latchbolt (2-3/4" Backset, Deadlatch, Square Corner, 1-1/8" x 2-1/4" Standard), Strike Plate (1-3/16" Lip, ANSI, DPS Magnets, no box, 1-1/4" x 4-7/8" Standard) (Sielox NDE-80-PD-SPA-626-13-047-10-130-S123)	1,124.32	83.07	
28 16 11 00-0628	EA	Handheld, battery-operated unit with Multi-Technology Reader Module (Sielox WPR400-MT)	2,521.38	186.31	
28 16 11 00-0629	EA	Handheld, Battery-operated unit with Multi-Technology with Keypad Reader Module (Sielox WPR400-MTK)	2,602.59	192.30	
28 16 11 00-0630	EA	Pre-Installed Test Kit: Complete with WPR400-DT, PIM400-TD2, 593PI Power Supply, Charger, Carrying Case (Sielox TK400)	2,113.94	156.21	
28 16 11 00-0631	EA	Compatible with Wiegand or Clock And Data (Sielox WRI400)	1,273.98	94.14	
Note: Includes Weatherproof Enclosure, inputs for two parallel readers. Requires 12 or 24 Volt DC Power Supply					
28 16 11 00-0632	EA	12 Volt DC Power Supply; Includes WRI400, PIM400-TD2, ANT400-REM-I/O (Sielox ECK400)	3,593.14	265.51	
28 16 11 00-0633	EA	12 Volt DC Power Supply; Includes WRI400, PIM400-TD2, ANT400-REM-I/O, MGB+MCA5 (Sielox GCK400)	3,752.56	277.28	
28 16 11 00-0634	EA	Wiegand or Clock And Data Output (Sielox PIB300-2D)	611.15	45.16	
Note: Includes Weatherproof Enclosure (7.1" x 7.1"), RS485 Input, Requires 12 or 24 Volt DC Power Supply. Supports up to two AD-300 Locks.					
28 16 11 00-0635	EA	Used to power PIM-TD2, PIM-TD4, PIM-EXP, WRI-OTD-12 Volt DC, and WRI-IN-12 Volt DC as well as PIM400 and WRI400 (Sielox 593PI-12DC)	149.10	11.02	
28 16 11 00-0636	EA	USB Cable, Handheld Device, With SUS Installed and HH-USB Cable (Sielox HHD-Kit-USB)	1,588.40	117.37	
28 16 11 00-0637	EA	Classroom/Storeroom Functions (Cylindrical, Mortise and Exit Chassis), Privacy/Apartment Functions (Mortise Deadbolt Chassis) (Sielox COM400L)	463.52	34.26	



Electronic Safety and Security			28
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0638	EA		Classroom/Storeroom Functions (Cylindrical, Mortise and Exit Chassis), Privacy/Apartment Functions (Mortise Deadbolt Chassis) (Sielox COM300L).....	428.11	31.64
28 16 11 00-0639	EA		Single Solution that reads 125 KHz Proximity and 13.56 MHz smart credentials (Sielox MT).....	904.93	66.87
28 16 11 00-0640	EA		Single Solution that reads 125 KHz Proximity and 13.56 MHz smart credentials, comes with 12 button keypad (Sielox MTK).....	986.10	72.87
28 16 11 00-0641	EA		Electromagnetic Lock, Automatic Voltage Selection, Magnetic Bond Sensor, Door Status Monitor, 628 Satin Aluminum Finish (Sielox M390RFX).....	1,113.07	82.25
28 16 11 00-0642	EA		Electromagnetic Lock, Automatic Voltage Selection (Sielox M420).....	686.45	50.72
28 16 11 00-0643	EA		Electromagnetic Lock, Automatic Voltage Selection, Door Status Monitor (DSM), Magnetic Bond Sensor (MBS), Relocking Time Delay (RTD) (Sielox M420P).....	946.27	69.93
28 16 11 00-0644	EA		Electromagnetic Lock, Automatic Voltage Selection (Sielox M490).....	859.17	63.49
28 16 11 00-0645	EA		Electromagnetic Lock, Automatic Voltage Selection, Door Status Monitor (DSM), Magnetic Bond Sensor (MBS), Relocking Time Delay (RTD) (Sielox M490P).....	1,113.07	82.25
28 16 11 00-0646			Exterior Mounting Posts For Door Operator Access Controls (28 16 11) Note: For Use With card reader, intercom, camera, keypad, door exit button, door open button. Excludes concrete pads and electrical connections.		
28 16 11 00-0647	EA		4" x 4" x 47" Tall, In-Ground, Stainless Steel, Tower Pedestal Post (Pedestal Pro ADA-SS-TWR-47x4x4).....	1,063.26	62.78
			Note: For door keypad or card reader operator access controls		
			For Surface Mount With Baseplate And Bolts, Add	117.28	
28 16 11 00-0648	EA		4" x 6" x 47" Tall, In-Ground, Stainless Steel, Tower Pedestal Post (Pedestal Pro ADA-SS-TWR-47x4x6).....	1,210.90	73.24
			Note: For door keypad or card reader operator access controls		
			For Surface Mount With Baseplate And Bolts, Add	132.92	
28 16 11 00-0649	EA		4" x 6" x 47" Tall, In-Ground, Stainless Steel, Tower Pedestal Post With Two Single Gang Cutouts (Pedestal Pro ADA-SS-TWR-47x4x6-2).....	1,350.29	73.24
			Note: For door keypad or card reader operator access controls		
			For Surface Mount With Baseplate And Bolts, Add	132.92	
28 16 11 00-0650			Request To Exit Detector (28 16 11)		
28 16 11 00-0651	EA		Request-To-Exit Detector; Bosch DS160	277.31	107.27
28 16 11 00-0652			Access Power Controllers (28 16 11)		
28 16 11 00-0653	EA		26" x 19" x 6.25" Access Power Controller Enclosure; A Tronix; Maim 75D	1,907.76	126.53
			Note: Includes power supply		
28 18 Security Access Detection Equipment (28 10)					
28 18 11 Security Access Metal Detectors (28 18)					
28 18 11 00-0001 Metal Detectors (28 18 11)					
28 18 11 00-0002	EA		Handheld Scanner (Garrett Super Scanner V)	299.09	34.38
28 18 11 00-0003	EA		Single-Zone, Walk-Through Metal Detector, Complete Unit (Garrett CS 5000).....	4,818.53	412.58
28 18 11 00-0004	EA		Multi-Zone, Walk-Through Metal Detector, Complete Unit (Garrett PD 6500I)	7,433.32	550.10
28 18 11 00-0005 Whole Body Security Scanning System (28 18 11)					
28 18 11 00-0006	EA		Whole Body Security Scanning System (Tek84 Intercept SSD-017-1101).....	256,628.80	1,444.02
28 18 11 00-0007	EA		Whole Body Security Scanning System (Tek84 Defender SSD-018-1000).....	269,563.55	1,444.02
28 18 11 00-0008	EA		Whole Body Security Scanning System (Tek84 Traveler SSD-777-1000).....	325,504.93	825.16
28 18 11 00-0009	YR		Whole Body Security Scanning System Warranty (Tek84).....	14,145.57	
			Note: Coverage for additional Parts and Labor Warranty on one entire system after initial two (2) year warranty has expired.		
28 20 Video Surveillance (28)					
			Note: Includes testing of new devices and certification.		
28 21 Surveillance Cameras (28 20)					
28 21 31 Proprietary Surveillance Camera Systems (28 21)					
			Note: Includes programming of equipment, testing and certification of new devices.		
28 21 31 00-0001			Closed Circuit Television And Surveillance Systems (28 21 31)		
28 21 31 00-0002			Cameras And Accessories (28 21 31 00-0001)		
28 21 31 00-0003			Cameras (28 21 31 00-0002)		
28 21 31 00-0004			General Use Video Camera (28 21 31 00-0003)		
28 21 31 00-0005	EA		Video Dome Spectra III, C/IR/BW 23x Heavy-Duty, Pendant	5,253.71	270.57
			Note: Environmental clear bubble.		
28 21 31 00-0006	EA		Ipak Enclosed Dust Tight Color Camera, Standard Resolution Lens.....	948.15	135.45
			Note: 3.5-8mm AI shields, wall mount.		
28 21 31 00-0007	EA		Esprit Image Pak PTZ Camera	4,767.34	270.89
28 21 31 00-0008	EA		UF-LED 30 Degree, 850mm (252 LEDs) Includes Power Supply, 120 Volt AC.....	2,022.06	135.45
28 21 31 00-0009 Camera Power Supply (28 21 31 00-0003)					
28 21 31 00-0010	EA		100 VA Outdoor Power Supply	388.80	67.72

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0011 EA Surge Protector, Isolated Coax Protector For CCTV	155.60	33.42
28 21 31 00-0012 EA Altronics Power Supply With 8 Fused Outputs	653.89	135.45
28 21 31 00-0013 Miscellaneous Accessories (28 21 31 00-0002)		
28 21 31 00-0014 EA 8 Channel DVR NTSC/PAL 250 GB With CD-RW	15,178.40	241.83
28 21 31 00-0015 EA High Resolution Ethernet Video Server, Encoder, 12 Volt DC	2,292.95	270.89
28 21 31 00-0016 EA High Resolution Ethernet Video Server, With Audio, Encoder, 12 Volt DC	2,605.67	270.89
28 21 31 00-0017 EA High Resolution Ethernet Video Server, Decoder, 12 Volt DC	1,892.68	270.89
28 21 31 00-0018 EA High Resolution Ethernet Video Server, With Audio, Decoder, 12 Volt DC	2,130.34	270.89
28 21 31 00-0019 EA Outdoor Multi-Band Wireless Ethernet Bridge, 4 Inputs	4,269.25	270.89
Note: 5.3 or 5.8 GHz.		
28 21 31 00-0020 EA 24 dBi Gain, 5.25-5.85 GHz Band, 9 Degree Beamwidth, Patch Antenna	1,917.71	270.89
28 21 31 00-0021 EA Extreme IR Illuminator, ZXLED850.20	6,028.76	270.89
28 21 31 00-0022 EA Extreme IR Illuminator, UFLED850.30	2,772.56	135.45
28 21 31 00-0023 EA Extreme IR Illuminator, EX26LED850M	1,521.71	135.45
28 21 31 00-0024 EA Smart Sight Wireless Link	7,525.71	135.45
28 21 31 00-0025 EA S1000 System Including Transmitter And Receiver	9,047.43	270.57
28 21 31 00-0026 EA S1600e-R Video Decoder	2,208.83	135.45
28 21 31 00-0027 EA Pole Mount Adapter	408.03	135.45
28 21 31 00-0028 Camera Mounting (28 21 31 00-0002)		
28 21 31 00-0029 Camera Wall Mounts (28 21 31 00-0028)		
28 21 31 00-0030 EA Parapet Camera Wall Mount, 1.5" Diameter Pipe	677.17	135.28
28 21 31 00-0031 EA Spectra Wall Mount, Gray	204.07	67.72
28 21 31 00-0032 EA Spectra Wall Mount Pole Adapter For SWM-GY	168.94	67.72
28 21 31 00-0033 EA Wall Mount Bracket For Exterior CCTV	529.30	135.45
28 21 31 00-0034 Control Panels (28 21 31 00-0002)		
28 21 31 00-0035 EA CCTV Control Panel With Keyboard And Battery Backup, Up To 7 Cameras	39,733.75	
28 21 31 00-0036 EA CCTV Control Panel With Keyboard And Battery Backup, 7 To 14 Cameras	47,680.50	
28 21 31 00-0037 EA CCTV Control Panel With Keyboard And Battery Backup, 15 To 20 Cameras	55,627.25	
28 21 31 00-0038 EA CCTV Control Panel With Keyboard And Battery Backup, >21 Cameras	63,574.00	
28 21 31 00-0039 Closed Circuit Television And Surveillance Systems (Pelco) (28 21 31)		
28 21 31 00-0040 Cameras And Accessories (28 21 31 00-0039)		
28 21 31 00-0041 Cameras (28 21 31 00-0040)		
28 21 31 00-0042 Compact, 1/3" Format Cameras (28 21 31 00-0041)		
28 21 31 00-0043 High Resolution Color, Compact, 1/3" Format Cameras (28 21 31 00-0042)		
28 21 31 00-0044 EA High Resolution Day/Night, Compact, 1/3" Format Camera (Pelco C10DN-6)	698.23	34.43
28 21 31 00-0045 Day/Night, Compact, 1/3" Format Cameras (28 21 31 00-0042)		
28 21 31 00-0046 EA High Resolution Color, Compact, 1/3" Format Camera (Pelco C10CH-6)	412.78	34.43
28 21 31 00-0047 Camerapaks (28 21 31 00-0040)		
Note: Includes camera and lens.		
28 21 31 00-0048 Camerapaks (28 21 31 00-0047)		
28 21 31 00-0049 High Resolution Color, Camerapaks (28 21 31 00-0048)		
28 21 31 00-0050 Fixed Focus, High Resolution Color, Camerapaks (28 21 31 00-0049)		
28 21 31 00-0051 Manual Iris, Fixed Focus, High Resolution Color, Camerapaks (28 21 31 00-0050)		
28 21 31 00-0052 EA 2.3 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.3)	536.59	34.43
28 21 31 00-0053 EA 2.8 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.8)	504.49	34.43
28 21 31 00-0054 EA 4 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F4)	489.59	34.43
28 21 31 00-0055 EA 8 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F8)	486.15	34.43
28 21 31 00-0056 Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapaks (28 21 31 00-0050)		
28 21 31 00-0057 EA 2.3 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.3A)	584.74	34.43
28 21 31 00-0058 EA 2.8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.8A)	536.59	34.43
28 21 31 00-0059 EA 4 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F4A)	525.13	34.43
28 21 31 00-0060 EA 8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F8A)	515.96	34.43
28 21 31 00-0061 Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0049)		
28 21 31 00-0062 Manual Iris, Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0061)		
28 21 31 00-0063 EA 1-3 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V1)	631.74	34.43
28 21 31 00-0064 EA 2.5-6 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V2)	569.84	34.43



Electronic Safety and Security			28
Video Surveillance			28 20
Surveillance Cameras			28 21

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0065	EA	2.8-12 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V21)	519.40		34.43
28 21 31 00-0066	EA	3-8 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V3)	498.76		34.43
28 21 31 00-0067	EA	5-40 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V5)	575.57		34.43
28 21 31 00-0068	Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0061)				
28 21 31 00-0069	EA	1-3 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V1A)	682.18		34.43
28 21 31 00-0070	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V2A)	639.77		34.43
28 21 31 00-0071	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V21A)	567.54		34.43
28 21 31 00-0072	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V3A)	506.78		34.43
28 21 31 00-0073	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V5A)	599.64		34.43
28 21 31 00-0074	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V50A)	677.60		34.43
28 21 31 00-0075	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V55A)	777.34		34.43
28 21 31 00-0076	Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0061)				
28 21 31 00-0077	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6R3A)	533.15		34.43
28 21 31 00-0078	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6R75A)	637.47		34.43
28 21 31 00-0079	High Resolution Day/Night, Camerapaks (28 21 31 00-0048)				
28 21 31 00-0080	Varifocal, High Resolution Day/Night, Camerapaks (28 21 31 00-0079)				
28 21 31 00-0081	Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapaks (28 21 31 00-0080)				
28 21 31 00-0082	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V2A)	1,077.69		34.43
28 21 31 00-0083	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V21A)	1,005.47		34.43
28 21 31 00-0084	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V3A)	944.71		34.43
28 21 31 00-0085	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V5A)	1,037.57		34.43
28 21 31 00-0086	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V50A)	1,115.52		34.43
28 21 31 00-0087	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V55A)	1,214.11		34.43
28 21 31 00-0088	Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapaks (28 21 31 00-0080)				
28 21 31 00-0089	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6R3A)	971.08		34.43
28 21 31 00-0090	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6R75A)	1,075.40		34.43
28 21 31 00-0091	Compact Camerapaks (28 21 31 00-0047)				
28 21 31 00-0092	High Resolution Color, Compact Camerapaks (28 21 31 00-0091)				
28 21 31 00-0093	DSS, High Resolution Color, Compact Camerapaks (28 21 31 00-0092)				
28 21 31 00-0094	Fixed Focus, DSS, High Resolution Color, Camerapaks (28 21 31 00-0093)				
28 21 31 00-0095	Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapaks (28 21 31 00-0094)				
28 21 31 00-0096	EA	2.3 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.3)	835.80		34.43
28 21 31 00-0097	EA	2.8 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.8)	803.70		34.43
28 21 31 00-0098	EA	4 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F4)	787.65		34.43
28 21 31 00-0099	EA	8 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F8)	784.21		34.43
28 21 31 00-0100	Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapaks (28 21 31 00-0094)				
28 21 31 00-0101	EA	2.3 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.3A)	882.80		34.43
28 21 31 00-0102	EA	2.8 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.8A)	835.80		34.43
28 21 31 00-0103	EA	4 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F4A)	824.34		34.43
28 21 31 00-0104	EA	8 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F8A)	815.17		34.43
28 21 31 00-0105	Varifocal, DSS, High Resolution Color, Camerapaks (28 21 31 00-0093)				
28 21 31 00-0106	Manual Iris, Varifocal, DSS, High Resolution Color, Camerapaks (28 21 31 00-0105)				
28 21 31 00-0107	EA	1-3 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V1)	930.95		34.43
28 21 31 00-0108	EA	2.5-6 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V2)	867.90		34.43
28 21 31 00-0109	EA	2.8-12 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V21)	818.61		34.43
28 21 31 00-0110	EA	3-8 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V3)	797.97		34.43
28 21 31 00-0111	EA	5-40 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V5)	873.63		34.43
28 21 31 00-0112	EA	5-50 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V50)	922.93		34.43
28 21 31 00-0113	EA	5.5-82.5 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V55)	1,039.86		34.43

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0114		Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapaks (28 21 31 00-0105)		
28 21 31 00-0115	EA	1-3 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V1A)	980.25	34.43
28 21 31 00-0116	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V2A)	938.98	34.43
28 21 31 00-0117	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V21A)	866.75	34.43
28 21 31 00-0118	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V3A)	804.85	34.43
28 21 31 00-0119	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V5A)	898.85	34.43
28 21 31 00-0120	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V50A)	976.81	34.43
28 21 31 00-0121	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V55A)	1,075.40	34.43
28 21 31 00-0122		Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapaks (28 21 31 00-0105)		
28 21 31 00-0123	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2R3A)	832.36	34.43
28 21 31 00-0124	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2R75A)	936.68	34.43
28 21 31 00-0125		EDR, High Resolution Color, Compact Camerapaks (28 21 31 00-0092)		
28 21 31 00-0126		Fixed Focus, EDR, High Resolution Color, Camerapaks (28 21 31 00-0125)		
28 21 31 00-0127		Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapaks (28 21 31 00- 0126)		
28 21 31 00-0128	EA	2.3 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.3)	835.80	34.43
28 21 31 00-0129	EA	2.8 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.8)	624.86	34.43
28 21 31 00-0130	EA	4 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F4)	608.81	34.43
28 21 31 00-0131	EA	8 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F8)	605.38	34.43
28 21 31 00-0132		Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapaks (28 21 31 00-0126)		
28 21 31 00-0133	EA	2.3 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.3A)	703.97	34.43
28 21 31 00-0134	EA	2.8 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.8A)	656.96	34.43
28 21 31 00-0135	EA	4 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F4A)	645.50	34.43
28 21 31 00-0136	EA	8 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F8A)	645.50	34.43
28 21 31 00-0137		Varifocal, EDR, High Resolution Color, Camerapaks (28 21 31 00-0125)		
28 21 31 00-0138		Manual Iris, Varifocal, EDR, High Resolution Color, Camerapaks (28 21 31 00-0137)		
28 21 31 00-0139	EA	1-3 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V1)	752.11	34.43
28 21 31 00-0140	EA	2.5-6 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V2)	689.06	34.43
28 21 31 00-0141	EA	2.8-12 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V21)	639.77	34.43
28 21 31 00-0142	EA	3-8 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V3)	619.13	34.43
28 21 31 00-0143	EA	5-40 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V5)	694.79	34.43
28 21 31 00-0144	EA	5-50 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V50)	744.09	34.43
28 21 31 00-0145	EA	5.5-82.5 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V55)	861.02	34.43
28 21 31 00-0146		Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapaks (28 21 31 00-0137)		
28 21 31 00-0147	EA	1-3 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V1A)	801.41	34.43
28 21 31 00-0148	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V2A)	760.14	34.43
28 21 31 00-0149	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V21A)	686.77	34.43
28 21 31 00-0150	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V3A)	626.01	34.43
28 21 31 00-0151	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V5A)	720.02	34.43
28 21 31 00-0152	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V50A)	797.97	34.43
28 21 31 00-0153	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V55A)	896.56	34.43
28 21 31 00-0154		Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapaks (28 21 31 00-0137)		
28 21 31 00-0155	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2R3A)	653.52	34.43
28 21 31 00-0156	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2R75A)	757.85	34.43
28 21 31 00-0157		High Resolution Day/Night, Compact Camerapaks (28 21 31 00-0091)		
28 21 31 00-0158		Fixed Focus, High Resolution Day/Night, Compact Camerapaks (28 21 31 00-0157)		
28 21 31 00-0159		Manual Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapaks (28 21 31 00-0158)		
28 21 31 00-0160	EA	8 mm, Manual Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F8)	771.60	34.43
28 21 31 00-0161		DC-Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapaks (28 21 31 00-0158)		



Electronic Safety and Security			28
Video Surveillance			28 20
Surveillance Cameras			28 21

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0162 EA 2.3 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F2.3A).....	870.19	34.43
28 21 31 00-0163 EA 2.8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F2.8A).....	822.04	34.43
28 21 31 00-0164 Varifocal, High Resolution Day/Night, Compact Camerapaks (28 21 31 00-0157)		
28 21 31 00-0165 Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks (28 21 31 00-0164)		
28 21 31 00-0166 EA 2.8-12 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V21)	804.85	34.43
28 21 31 00-0167 EA 3-8 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V3)	784.21	34.43
28 21 31 00-0168 EA 5-50 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V50)	910.32	34.43
28 21 31 00-0169 Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks (28 21 31 00-0164)		
28 21 31 00-0170 EA 2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V2A)	925.22	34.43
28 21 31 00-0171 EA 2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V21A)	853.00	34.43
28 21 31 00-0172 EA 3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V3A)	792.24	34.43
28 21 31 00-0173 EA 5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V5A)	885.10	34.43
28 21 31 00-0174 EA 5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V50A)	963.05	34.43
28 21 31 00-0175 EA 5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V55A)	1,062.79	34.43
28 21 31 00-0176 Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks (28 21 31 00-0164)		
28 21 31 00-0177 EA 3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6R3A)	818.61	34.43
28 21 31 00-0178 EA 7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6R75A)	922.93	34.43
28 21 31 00-0179 Camera Systems (28 21 31 00-0040)		
28 21 31 00-0180 Camera Dome Systems (28 21 31 00-0179)		
28 21 31 00-0181 Spectra® , Pan/Tilt Camera Dome Systems (28 21 31 00-0180)		
28 21 31 00-0182 Spectra® , Pan/Tilt Camera Dome Systems (28 21 31 00-0181)		
Note: Includes dome drive, camera, lens, back box, clear or smoked lower dome and mounting hardware.		
28 21 31 00-0183 Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0182)		
28 21 31 00-0184 Black And White, Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0183)		
28 21 31 00-0185 EA 22X, Surface Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-SMB)	3,425.92	206.59
28 21 31 00-0186 EA 22X, In-Ceiling Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-F)	3,895.94	206.59
28 21 31 00-0187 EA 22X, Pendant Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PB)	4,106.88	206.59
28 21 31 00-0188 EA 22X, Environmental Pendant Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PG-E)	5,684.33	206.59
28 21 31 00-0189 Color, Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0183)		
28 21 31 00-0190 EA 16X, Surface Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-SMB)	2,892.84	206.59
28 21 31 00-0191 EA 16X, In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-F)	3,130.15	206.59
28 21 31 00-0192 EA 16X, Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PB)	3,342.23	206.59
28 21 31 00-0193 EA 16X, Environmental In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-F-E)	3,463.75	206.59
28 21 31 00-0194 EA 16X, Environmental Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PG-E)	3,463.75	206.59
28 21 31 00-0195 EA 22X, Surface Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-SMB)	3,627.69	206.59
28 21 31 00-0196 EA 22X, In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-F)	4,098.86	206.59
28 21 31 00-0197 EA 22X, Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PB)	4,310.94	206.59
28 21 31 00-0198 EA 22X, Environmental In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-F-E)	4,432.46	206.59
28 21 31 00-0199 EA 22X, Environmental Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PG-E)	4,432.46	206.59
28 21 31 00-0200 Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0183)		
28 21 31 00-0201 EA 23X, Surface Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-SMB)	4,215.79	206.59
28 21 31 00-0202 EA 23X, In-Ceiling Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-F)	4,686.96	206.59
28 21 31 00-0203 EA 23X, Pendant Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PB)	4,899.04	206.59
28 21 31 00-0204 EA 23X, Environmental In-Ceiling Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-F-E)	5,020.56	206.59
28 21 31 00-0205 EA 23X, Environmental Pendant Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PG-E)	5,020.56	206.59
28 21 31 00-0206 Day/Night, Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0183)		
28 21 31 00-0207 EA 18X, Surface Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-SMB)	3,830.60	206.59
28 21 31 00-0208 EA 18X, In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-F)	4,069.05	206.59

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0209	EA	18X, Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PB).....	4,279.99	206.59
28 21 31 00-0210	EA	18X, Environmental In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-F-E).....	4,401.51	206.59
28 21 31 00-0211	EA	18X, Environmental Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PG-E).....	4,401.51	206.59
28 21 31 00-0212	EA	35X, Surface Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-SMB).....	4,602.13	206.59
28 21 31 00-0213	EA	35X, In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-F).....	4,977.00	206.59
28 21 31 00-0214	EA	35X, Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PB).....	5,187.94	206.59
28 21 31 00-0215	EA	35X, Environmental In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-F-E).....	5,309.45	206.59
28 21 31 00-0216	EA	35X, Environmental Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PG-E).....	5,309.45	206.59
28 21 31 00-0217		Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0182)		
28 21 31 00-0218		Color, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0217)		
28 21 31 00-0219	EA	16X, In-Ceiling Mount, Color, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HF).....	3,749.20	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0220	EA	16X, Pendant Mount, Color, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HP).....	3,953.26	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0221	EA	16X, Environmental Pendant Mount, Color, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HPE).....	4,116.05	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0222	EA	22X, In-Ceiling Mount, Color, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HF).....	4,646.84	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0223	EA	22X, Pendant Mount, Color, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HP).....	4,850.89	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0224	EA	22X, Environmental Pendant Mount, Color, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HPE).....	5,014.83	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0225		Day/Night, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0217)		
28 21 31 00-0226	EA	18X, In-Ceiling Mount, Day/Night, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HF).....	4,686.96	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0227	EA	18X, Pendant Mount, Day/Night, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HP).....	4,891.02	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0228	EA	18X, Environmental Pendant Mount, Day/Night, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HPE).....	5,054.95	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0229	EA	35X, In-Ceiling Mount, Day/Night, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HF).....	5,524.98	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0230	EA	35X, Pendant Mount, Day/Night, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HP).....	5,727.89	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0231	EA	35X, Environmental Pendant Mount, Day/Night, Heavy-Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HPE).....	5,891.83	206.59
		<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0232		Pressurized Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0182)		
28 21 31 00-0233		Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0232)		
28 21 31 00-0234	EA	18X, Environmental Pendant Mount, Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PRE).....	6,192.18	206.59
28 21 31 00-0235	EA	35X, Environmental Pendant Mount, Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PRE).....	7,030.20	206.59
28 21 31 00-0236		Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0182)		
28 21 31 00-0237		Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0236)		
28 21 31 00-0238	EA	22X, Environmental Pendant Mount, Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PSGE).....	5,387.41	206.59
28 21 31 00-0239		Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0236)		
28 21 31 00-0240	EA	16X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PSGE).....	4,692.69	206.59
28 21 31 00-0241	EA	22X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PSGE).....	5,591.47	206.59
28 21 31 00-0242		Color/Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0236)		
28 21 31 00-0243	EA	23X, Environmental Pendant Mount, Color/Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PSGE).....	6,179.57	206.59
28 21 31 00-0244		Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0236)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0245 EA 18X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PSGE).....	5,631.59	206.59
28 21 31 00-0246 EA 35X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PSGE).....	6,468.46	206.59
28 21 31 00-0247 Miniature Spectra®, Mini Pan/Tilt Camera Dome Systems (28 21 31 00-0182)		
28 21 31 00-0248 Color, Miniature Spectra®, Mini Pan/Tilt Camera Dome Systems (28 21 31 00-0247)		
28 21 31 00-0249 EA 10X, In-Ceiling Mount, Color, Miniature Spectra®, Mini Pan/Tilt Camera Dome System (Pelco SD4-B)	2,175.20	206.59
28 21 31 00-0250 Spectra® IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0181) Note: Includes simultaneous IP and analog video and control, dome drive, camera, lens, back box, clear or smoked lower dome and mounting hardware.		
28 21 31 00-0251 Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0250)		
28 21 31 00-0252 Color, Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0251)		
28 21 31 00-0253 EA 16X, In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-F).....	3,986.51	206.59
28 21 31 00-0254 EA 16X, Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-PB).....	4,198.59	206.59
28 21 31 00-0255 EA 16X, Environmental In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-F-E).....	4,320.11	206.59
28 21 31 00-0256 EA 16X, Environmental Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-PG-E).....	4,320.11	206.59
28 21 31 00-0257 EA 22X, In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-F1).....	4,955.22	206.59
28 21 31 00-0258 EA 22X, Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-PB-1).....	5,167.30	206.59
28 21 31 00-0259 EA 22X, Environmental In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-F-E1)	5,288.82	206.59
28 21 31 00-0260 EA 22X, Environmental Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-PG-E1)	5,288.82	206.59
28 21 31 00-0261 Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0251)		
28 21 31 00-0262 EA 23X, In-Ceiling Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-F1).....	5,543.32	206.59
28 21 31 00-0263 EA 23X, Pendant Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-PB-1)	5,755.40	206.59
28 21 31 00-0264 EA 23X, Environmental In-Ceiling Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-F-E1)	5,876.92	206.59
28 21 31 00-0265 EA 23X, Environmental Pendant Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-PG-E1)	5,876.92	206.59
28 21 31 00-0266 Heavy-Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0250)		
28 21 31 00-0267 Color, Heavy-Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0266)		
28 21 31 00-0268 EA 16X, In-Ceiling Mount, Color, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HF1)..... For Protective Lower Dome Cage, Add	4,605.56 34.65	206.59
28 21 31 00-0269 EA 16X, Pendant Mount, Color, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HP1)	4,809.62	206.59
28 21 31 00-0270 EA 16X, Environmental Pendant Mount, Color, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HPE1)	4,972.41	206.59
28 21 31 00-0271 EA 22X, In-Ceiling Mount, Color, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HF1)..... For Protective Lower Dome Cage, Add	5,503.20 34.65	206.59
28 21 31 00-0272 EA 22X, Pendant Mount, Color, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HP1)	5,707.26	206.59
28 21 31 00-0273 EA 22X, Environmental Pendant Mount, Color, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HPE1)..... For Protective Lower Dome Cage, Add	5,871.19 34.65	206.59
28 21 31 00-0274 Day/Night, Heavy-Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0266)		
28 21 31 00-0275 EA 18X, In-Ceiling Mount, Day/Night, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HF1)	5,543.32	206.59
28 21 31 00-0276 EA 18X, Pendant Mount, Day/Night, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HP1)	5,747.38	206.59
28 21 31 00-0277 EA 18X, Environmental Pendant Mount, Day/Night, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HPE1)..... For Protective Lower Dome Cage, Add	5,911.31 34.65	206.59
28 21 31 00-0278 EA 35X, In-Ceiling Mount, Day/Night, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HF1)	6,381.34	206.59
28 21 31 00-0279 EA 35X, Pendant Mount, Day/Night, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HP1)	6,584.25	206.59
	34.65	

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0280	EA	35X, Environmental Pendant Mount, Day/Night, Heavy-Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HPE1)..... <i>For Protective Lower Dome Cage, Add</i>	6,748.19 34.65	206.59
28 21 31 00-0281		Stainless Steel Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0250)		
28 21 31 00-0282		Color, Stainless Steel Spectra® IV IP Network, Camera Dome Systems (28 21 31 00-0281)		
28 21 31 00-0283	EA	16X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-PSGE1).....	5,549.05	206.59
28 21 31 00-0284	EA	22X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-PSGE1).....	6,447.83	206.59
28 21 31 00-0285		Color/Black And White, Stainless Steel Spectra® IV IP Network, Camera Dome Systems (28 21 31 00-0281)		
28 21 31 00-0286	EA	23X, Environmental Pendant Mount, Color/Black And White, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-PSGE1).....	7,035.93	206.59
28 21 31 00-0287		Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome Systems (28 21 31 00-0281)		
28 21 31 00-0288	EA	18X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-PSGE1).....	6,487.95	206.59
28 21 31 00-0289	EA	35X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-PSGE1).....	7,324.83	206.59
28 21 31 00-0290		Miniature Spectra® IP Network, Mini Pan/Tilt Camera Dome Systems (28 21 31 00-0250)		
28 21 31 00-0291		Color, Miniature Spectra® IP Network, Mini Camera Dome Systems (28 21 31 00-0290)		
28 21 31 00-0292	EA	10X, In-Ceiling Mount, Color, Miniature Spectra® IP Network, Black Mini Camera Dome System (Pelco SD4N-W1).....	2,727.76	206.59
28 21 31 00-0293		Spectra®, Pan/Tilt Dome Drives (28 21 31 00-0181) Note: Includes dome drive, camera and lens.		
28 21 31 00-0294	EA	10X, Color Camera, Spectra® Mini Dome Drive (Pelco DD4).....	2,020.35	172.15
28 21 31 00-0295	EA	10X, Color Camera, Spectra® IP Network, Mini Dome Drive (Pelco DD4N).....	2,570.62	172.15
28 21 31 00-0296	EA	22X, Black And White Camera, Spectra® IV Dome Drive (Pelco DD4M22).....	3,250.43	172.15
28 21 31 00-0297	EA	16X, Color Camera, Spectra® IV Dome Drive (Pelco DD4TC16).....	2,555.72	172.15
28 21 31 00-0298	EA	22X, Color Camera, Spectra® IV Dome Drive (Pelco DD4C22).....	3,453.35	172.15
28 21 31 00-0299	EA	18X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW18).....	3,493.47	172.15
28 21 31 00-0300	EA	23X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW23).....	4,041.45	172.15
28 21 31 00-0301	EA	35X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW35).....	4,331.49	172.15
28 21 31 00-0302	EA	35X, Color/Black And White Camera, Spectra® IV Horizon Dome Drive (Pelco DD4H35).....	4,331.49	172.15
28 21 31 00-0303		Accessories For Spectra® Pan/Tilt Camera Dome Systems (28 21 31 00-0181)		
28 21 31 00-0304	EA	Upgrade To Chrome Lower Dome (Pelco Spectra).....	161.64	
28 21 31 00-0305	EA	Upgrade To Gold Lower Dome (Pelco Spectra).....	210.94	
28 21 31 00-0306	EA	Wall Mount For Spectra® Systems (Pelco IWM-BK).....	176.58	17.22
28 21 31 00-0307	EA	24 Volt Out, Wall Mount For Spectra® Systems (Pelco IWM24-BK).....	443.69	17.22
28 21 31 00-0308	EA	Wall Arm Mount For Spectra® Systems (Pelco IDM4018).....	172.00	17.22
28 21 31 00-0309	EA	Wall Arm Mount With Feed Through For Stainless Steel Spectra® IV Systems (Pelco IDM4012SS).....	300.95	17.22
28 21 31 00-0310	EA	Pole Mount Adapter For Spectra® Systems (Pelco PA402).....	114.93	10.24
28 21 31 00-0311		Camclosure®, Camera Dome Systems (28 21 31 00-0180)		
28 21 31 00-0312		Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0311)		
28 21 31 00-0313		Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0312)		
28 21 31 00-0314		High Resolution Color, Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0313)		
28 21 31 00-0315	EA	12 mm, Indoor Surface/In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-CH12).....	820.15	206.59
28 21 31 00-0316	EA	9-22 mm, Indoor Surface/In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-CHV22).....	888.94	206.59
28 21 31 00-0317	EA	12 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS110-CH12).....	986.38	206.59
28 21 31 00-0318	EA	12 mm, Environmental In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS150-CH12).....	986.38	206.59
28 21 31 00-0319		Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0313)		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0320	EA	9-22 mm, Indoor Surface/In-Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90B-CWV22).....	998.99	206.59
28 21 31 00-0321	EA	9-22 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS111-CWV22).....	1,088.41	206.59
28 21 31 00-0322	EA	9-22 mm, Environmental In-Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-CWV22).....	1,088.41	206.59
28 21 31 00-0323		Day/Night, Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0313)		
28 21 31 00-0324	EA	9-22 mm, Indoor Surface/In-Ceiling Mount, Day/Night, Camclosure® IS Integrated, White Camera Dome System (Pelco IS90-DNV22).....	1,143.44	206.59
28 21 31 00-0325	EA	9-22 mm, Environmental Surface Mount, Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS111-DNV22).....	1,364.69	206.59
28 21 31 00-0326	EA	9-22 mm, Environmental In-Ceiling Mount, Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-DNV22).....	1,364.69	206.59
28 21 31 00-0327		Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome Systems (28 21 31 00-0313)		
28 21 31 00-0328	EA	9-22 mm, Indoor Surface/In-Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-DWV22).....	1,248.91	206.59
28 21 31 00-0329	EA	9-22 mm, Environmental In-Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-DWV22).....	1,391.06	206.59
28 21 31 00-0330		Camclosure® IS Integrated, Bullet Style Camera Systems (28 21 31 00-0312)		
28 21 31 00-0331		High Resolution Color, Camclosure® IS Integrated, Bullet Style Camera Systems (28 21 31 00-0330)		
28 21 31 00-0332	EA	3.6 mm, Wall/Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-CH3.6).....	899.09	137.73
28 21 31 00-0333		Wide Dynamic Range Color, Camclosure® IS Integrated, Bullet Style Camera Systems (28 21 31 00-0330)		
28 21 31 00-0334	EA	9-22 mm, Wall/Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-CWV22).....	1,028.63	137.73
28 21 31 00-0335		Day/Night, Camclosure® IS Integrated, Bullet Style Camera Systems (28 21 31 00-0330)		
28 21 31 00-0336	EA	9-22 mm, Wall/Ceiling Mount, Day/Night, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-DNV22).....	1,131.81	137.73
28 21 31 00-0337		Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Bullet Style Camera Systems (28 21 31 00-0330)		
28 21 31 00-0338	EA	9-22 mm, Wall/Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-DWV22).....	1,183.40	137.73
28 21 31 00-0339		Camclosure® IS Integrated Cameras (28 21 31 00-0312)		
28 21 31 00-0340	EA	12 mm, High Resolution Color, Camclosure® IS Integrated Camera (Pelco IS-CH12).....	635.42	137.73
28 21 31 00-0341	EA	9-22 mm, High Resolution Color, Camclosure® IS Integrated Camera (Pelco IS-CHV22).....	635.42	137.73
28 21 31 00-0342	EA	9-22 mm, Wide Dynamic Range Color, Camclosure® IS Integrated Camera (Pelco IS-CWV22).....	737.45	137.73
28 21 31 00-0343	EA	9-22 mm, Day/Night, Camclosure® IS Integrated Camera (Pelco IS-DNV22).....	1,013.73	137.73
28 21 31 00-0344	EA	9-22 mm, Wide Dynamic Range Day/Night, Camclosure® IS Integrated Camera (Pelco IS-DWV22).....	1,040.10	137.73
28 21 31 00-0345		Camclosure® ICS Integrated, Camera Dome Systems (28 21 31 00-0311)		
28 21 31 00-0346		Camclosure® ICS Integrated, Camera Dome Systems (28 21 31 00-0345)		
28 21 31 00-0347		Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome Systems (28 21 31 00-0346)		
28 21 31 00-0348	EA	12 mm, Indoor Surface/In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS090B-CA12).....	706.66	206.59
28 21 31 00-0349	EA	12 mm, UTP, Indoor Surface/In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS090B-CA12T).....	755.95	206.59
28 21 31 00-0350	EA	12 mm, Environmental Surface Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS110-CA12).....	953.13	206.59
28 21 31 00-0351	EA	12 mm, Environmental In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS150-CA12).....	953.13	206.59
28 21 31 00-0352		High Resolution Color, Camclosure® ICS Integrated, Camera Dome Systems (28 21 31 00-0346)		
28 21 31 00-0353	EA	3-9 mm, Environmental In-Ceiling Mount, High Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS151-CDV39A).....	1,174.39	206.59

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0354 Camclosure® ICS Integrated, Bullet Style Camera Systems (28 21 31 00-0345)		
28 21 31 00-0355 Standard Resolution, Camclosure® ICS Integrated, Bullet Style Camera Systems (28 21 31 00-0354)		
28 21 31 00-0356 EA 12 mm, Wall/Ceiling Mount, Standard Resolution, Camclosure® ICS Integrated, Bullet Style Camera System (Pelco ICS310-CA12)	815.40	137.73
28 21 31 00-0357 Camclosure® ICS Integrated, Wedge Style Camera Systems (28 21 31 00-0345)		
28 21 31 00-0358 High Resolution Color, Camclosure® ICS Integrated, Wedge Style Camera Systems (28 21 31 00-0357)		
28 21 31 00-0359 EA 9-22 mm, High Resolution, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-CHV22)	1,088.41	206.59
28 21 31 00-0360 Wide Dynamic Range Color, Camclosure® ICS Integrated, Wedge Style Camera Systems (28 21 31 00-0357)		
28 21 31 00-0361 EA 9-22 mm, Wide Dynamic Range, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-CWV22)	1,191.59	206.59
28 21 31 00-0362 Day/Night, Camclosure® ICS Integrated, Wedge Style Camera Systems (28 21 31 00-0357)		
28 21 31 00-0363 EA 9-22 mm, Day/Night, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-DNV22)	1,321.13	206.59
28 21 31 00-0364 Wide Dynamic Range Day/Night, Camclosure® ICS Integrated, Wedge Style Camera Systems (28 21 31 00-0357)		
28 21 31 00-0365 EA 9-22 mm, Wide Dynamic Range Day/Night, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-DWV22)	1,372.72	206.59
28 21 31 00-0366 Camclosure® IP Network, Camera Dome Systems (28 21 31 00-0311)		
28 21 31 00-0367 Camclosure® IP Network, Camera Dome Systems (28 21 31 00-0366)		
28 21 31 00-0368 High Resolution Color, Camclosure® IP Network, Camera Dome Systems (28 21 31 00-0367)		
28 21 31 00-0369 EA 3-9.5 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CHV9)	1,941.33	206.59
28 21 31 00-0370 EA 9-22 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CHV22)	1,941.33	206.59
28 21 31 00-0371 Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome Systems (28 21 31 00-0367)		
28 21 31 00-0372 EA 3-9.5 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CWV9)	2,083.48	206.59
28 21 31 00-0373 EA 9-22 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CWV22)	2,083.48	206.59
28 21 31 00-0374 Day/Night, Camclosure® IP Network, Camera Dome Systems (28 21 31 00-0367)		
28 21 31 00-0375 EA 3-9.5 mm, Environmental Surface Mount, Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP111-DNV9)	2,302.45	206.59
28 21 31 00-0376 EA 9-22 mm, Environmental Surface Mount, Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP111-DNV22)	2,302.45	206.59
28 21 31 00-0377 Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome Systems (28 21 31 00-0367)		
28 21 31 00-0378 EA 3-9.5 mm, Environmental Surface Mount, Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP110-DWV9)	2,457.21	206.59
28 21 31 00-0379 EA 9-22 mm, Environmental Surface Mount, Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP110-DWV22)	2,457.21	206.59
28 21 31 00-0380 Accessories For Camclosure® Camera Dome Systems (28 21 31 00-0311)		
28 21 31 00-0381 EA 4S Gangbox Adapter Plate For ICS110 Camclosure® Systems (Pelco ICS110-AP)	41.30	10.32
28 21 31 00-0382 EA 4S Adapter Plate For ICS310 Camclosure® Systems (Pelco ICS310-AP)	41.30	10.32
28 21 31 00-0383 EA Sun Shield For ICS310 Camclosure® Systems (Pelco ICS310-SS)	55.07	17.22
28 21 31 00-0384 EA Conduit Adapter For ICS310 Camclosure® Systems (Pelco ICS310-COND)	87.16	17.22
28 21 31 00-0385 EA 2' x 2' Ceiling Panel For ICS150 Camclosure® Systems (Pelco ICS150-P)	89.44	10.32
28 21 31 00-0386 EA Pendant Mount Adapter For Camclosure® ICS110 Systems (Pelco ICS110-PG)	87.16	17.22
28 21 31 00-0387 EA Corner Mount Adapter For ICS200 Camclosure® Systems (Pelco ICS210-CM)	110.09	17.22
28 21 31 00-0388 EA Smoked, Surface Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO110A)	293.55	34.43
28 21 31 00-0389 EA Clear, Surface Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO111A)	293.55	34.43
28 21 31 00-0390 EA Smoked, In-Ceiling Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO150A)	293.55	34.43
28 21 31 00-0391 EA Clear, In-Ceiling Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO151A)	293.55	34.43
28 21 31 00-0392 EA Pendant Mount Adapter For Camclosure® IP Systems (Pelco IP110-P)	104.36	17.22



Electronic Safety and Security			28	28
Video Surveillance			28 20	
Surveillance Cameras			28 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0393 EA Smoked Lower Dome For Surface Mount Camclosure® IP Systems (Pelco IP110-LD)	120.45	34.43
28 21 31 00-0394 EA Clear Lower Dome For Surface Mount Camclosure® IP Systems (Pelco IP111-LD)	120.45	34.43
28 21 31 00-0395 EA Smoked Lower Dome For Surface Mount Camclosure® IS Systems (Pelco IS110-LD)	120.45	34.43
28 21 31 00-0396 EA Clear Lower Dome For Surface Mount Camclosure® IS Systems (Pelco IS111-LD)	120.45	34.43
28 21 31 00-0397 EA Smoked Lower Dome For Ceiling Mount Camclosure® IS Systems (Pelco IS150-LD)	120.45	34.43
28 21 31 00-0398 EA Clear Lower Dome For Ceiling Mount Camclosure® IS Systems (Pelco IS151-LD)	120.45	34.43
28 21 31 00-0399 EA Ceiling Mount Enclosure Only, Environmental, Camclosure® IS Systems (Pelco IS150-ENC)	349.75	47.03
28 21 31 00-0400 EA Black Pendant Mount For Indoor Camclosure® IS Systems (Pelco IS90B-P)	74.55	17.22
28 21 31 00-0401 EA Black Pendant Wall Mount For Indoor Camclosure® IS Systems (Pelco IS90B-PW)	126.14	17.22
28 21 31 00-0402 EA White Pendant Mount For Indoor Camclosure® IS Systems (Pelco IS90-P)	74.55	17.22
28 21 31 00-0403 EA White Pendant Wall Mount For Indoor Camclosure® IS Systems (Pelco IS90-PW)	126.14	17.22
28 21 31 00-0404 EA Surface Mount Enclosure Only, Environmental, IP Camclosure® (Pelco IP110-ENC)	1,811.79	206.59
28 21 31 00-0405 Pan/Tilt Camera Systems (28 21 31 00-0179)		
28 21 31 00-0406 Esprit® CBZ, Pan/Tilt Camera Systems (28 21 31 00-0405) Note: Includes powder coated aluminum pan/tilt enclosure, receiver, camera, lens, built in heater, window defroster/defogger, sun shroud, insulation blanket, 24V power supply and mounting hardware.		
28 21 31 00-0407 EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems (28 21 31 00-0406)		
28 21 31 00-0408 Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems (28 21 31 00-0407)		
28 21 31 00-0409 EA 10X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10N)	5,105.62	309.88
28 21 31 00-0410 EA 20X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20N)	5,794.61	309.88
28 21 31 00-0411 EA 30X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30N)	6,749.56	309.88
28 21 31 00-0412 EA 10X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10PN)	5,253.51	309.88
28 21 31 00-0413 EA 20X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20PN)	5,973.45	309.88
28 21 31 00-0414 EA 30X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30PN)	6,928.40	309.88
28 21 31 00-0415 Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems (28 21 31 00-0407)		
28 21 31 00-0416 EA 10X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10W)	5,152.63	309.88
28 21 31 00-0417 EA 20X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20W)	5,841.61	309.88
28 21 31 00-0418 EA 30X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30W)	6,796.56	309.88
28 21 31 00-0419 EA 10X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10PW)	5,301.66	309.88
28 21 31 00-0420 EA 20X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20PW)	6,020.45	309.88
28 21 31 00-0421 EA 30X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30PW)	6,975.40	309.88
28 21 31 00-0422 Esprit® CLZ, Pan/Tilt Camera Systems (28 21 31 00-0405)		
28 21 31 00-0423 DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems (28 21 31 00-0422)		
28 21 31 00-0424 Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems (28 21 31 00-0423)		
28 21 31 00-0425 EA 10X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10N)	5,284.46	309.88
28 21 31 00-0426 EA 20X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20N)	5,973.45	309.88
28 21 31 00-0427 EA 30X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30N)	6,928.40	309.88
28 21 31 00-0428 EA 10X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10PN)	5,432.35	309.88
28 21 31 00-0429 EA 20X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20PN)	6,152.29	309.88
28 21 31 00-0430 EA 30X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30PN)	7,107.24	309.88
28 21 31 00-0431 Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems (28 21 31 00-0423)		
28 21 31 00-0432 EA 10X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10W)	5,331.46	309.88
28 21 31 00-0433 EA 20X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20W)	6,020.45	309.88
28 21 31 00-0434 EA 30X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30W)	6,975.40	309.88
28 21 31 00-0435 EA 10X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10PW)	5,480.50	309.88
28 21 31 00-0436 EA 20X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20PW)	6,199.29	309.88
28 21 31 00-0437 EA 30X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30PW)	7,154.24	309.88

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0438		Esprit® AJZ, Pan/Tilt Camera Systems (28 21 31 00-0405)		
28 21 31 00-0439		High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems (28 21 31 00-0438)		
28 21 31 00-0440		Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems (28 21 31 00-0439)		
28 21 31 00-0441	EA	6 x 10, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10N)	4,985.25	309.88
28 21 31 00-0442	EA	5.6 x 20, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20N)	5,674.24	309.88
28 21 31 00-0443	EA	5.5 x 30, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30N)	6,629.19	309.88
28 21 31 00-0444	EA	6 x 10, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10PN)	5,134.28	309.88
28 21 31 00-0445	EA	5.6 x 20, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20PN)	5,853.08	309.88
28 21 31 00-0446	EA	5.5 x 30, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30PN)	6,808.03	309.88
28 21 31 00-0447		Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems (28 21 31 00-0439)		
28 21 31 00-0448	EA	6 x 10, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10W)	5,033.40	309.88
28 21 31 00-0449	EA	5.6 x 20, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20W)	5,721.24	309.88
28 21 31 00-0450	EA	5.5 x 30, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30W)	6,677.34	309.88
28 21 31 00-0451	EA	6 x 8, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ8PW)	5,066.65	309.88
28 21 31 00-0452	EA	6 x 10, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10W)	5,181.29	309.88
28 21 31 00-0453	EA	5.6 x 20, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20PW)	5,900.08	309.88
28 21 31 00-0454	EA	5.5 x 30, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30PW)	6,856.18	309.88
28 21 31 00-0455		Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0405)		
28 21 31 00-0456		Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0455)		
28 21 31 00-0457		Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0456)		
28 21 31 00-0458	EA	5.6 x 20, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20N)	5,959.69	309.88
28 21 31 00-0459	EA	5.5 x 30, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30N)	6,914.64	309.88
28 21 31 00-0460	EA	6 x 10, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10PN)	5,419.74	309.88
28 21 31 00-0461	EA	5.6 x 20, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20PN)	6,138.53	309.88
28 21 31 00-0462	EA	5.5 x 30, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30PN)	7,093.48	309.88
28 21 31 00-0463		Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0456)		
28 21 31 00-0464	EA	6 x 10, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10W)	5,318.85	309.88
28 21 31 00-0465	EA	5.6 x 20, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20W)	6,006.69	309.88
28 21 31 00-0466	EA	5.5 x 30, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30W)	6,962.79	309.88
28 21 31 00-0467	EA	6 x 10, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10PW)	5,466.74	309.88
28 21 31 00-0468	EA	5.6 x 20, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20PW)	6,185.53	309.88
28 21 31 00-0469	EA	5.5 x 30, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30PW)	7,141.63	309.88
28 21 31 00-0470		Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0405)		
28 21 31 00-0471		Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0470)		
28 21 31 00-0472		Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0471)		
28 21 31 00-0473	EA	5.5 x 30, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30N)	7,067.11	309.88
28 21 31 00-0474	EA	6 x 10, Preset Positioning, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10PN)	5,571.06	309.88
28 21 31 00-0475	EA	5.5 x 30, Preset Positioning, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30PN)	7,245.95	309.88
28 21 31 00-0476		Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0471)		
28 21 31 00-0477	EA	6 x 10, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10W)	5,470.18	309.88
28 21 31 00-0478	EA	5.5 x 30, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30W)	7,115.26	309.88
28 21 31 00-0479	EA	6 x 10, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10PW)	5,619.21	309.88
28 21 31 00-0480	EA	5.6 x 20, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ20PW)	6,338.00	309.88



Electronic Safety and Security			28
Video Surveillance			28 20
Surveillance Cameras			28 21

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0481 EA 5.5 x 30, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30PW).....	7,294.10	309.88
28 21 31 00-0482 Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0405)		
28 21 31 00-0483 Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0482)		
28 21 31 00-0484 Pedestal Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0483)		
28 21 31 00-0485 EA 16X, Pedestal Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC16-2N).....	5,950.52	309.88
28 21 31 00-0486 Wall Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0483)		
28 21 31 00-0487 EA 16X, Wall Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC16-2W).....	5,997.52	309.88
28 21 31 00-0488 High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0482)		
28 21 31 00-0489 Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0488)		
28 21 31 00-0490 EA 22X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC22-2N).....	7,067.11	309.88
28 21 31 00-0491 EA 24X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW24-2N).....	6,833.25	309.88
28 21 31 00-0492 EA 35X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW35-2N).....	7,767.56	309.88
28 21 31 00-0493 Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0488)		
28 21 31 00-0494 EA 22X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC22-2W).....	7,112.97	309.88
28 21 31 00-0495 EA 24X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW24-2W).....	6,833.25	309.88
28 21 31 00-0496 EA 35X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW35-2W).....	7,819.15	309.88
28 21 31 00-0497 Esprit® IOP, Pan/Tilt Camera Systems (28 21 31 00-0405)		
28 21 31 00-0498 High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems (28 21 31 00-0497)		
28 21 31 00-0499 Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems (28 21 31 00-0498)		
28 21 31 00-0500 EA 16X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C16-2N).....	4,575.99	309.88
28 21 31 00-0501 EA 22X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C22-2N).....	5,693.73	309.88
28 21 31 00-0502 EA 24X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW24-2N).....	5,463.30	309.88
28 21 31 00-0503 EA 35X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW35-2N).....	6,191.26	309.88
28 21 31 00-0504 Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems (28 21 31 00-0498)		
28 21 31 00-0505 EA 16X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C16-2W).....	4,621.84	309.88
28 21 31 00-0506 EA 22X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C22-2W).....	5,740.73	309.88
28 21 31 00-0507 EA 24X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW24-2W).....	5,510.30	309.88
28 21 31 00-0508 EA 35X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW35-2W).....	6,242.85	309.88
28 21 31 00-0509 Esprit® Thermal, Pan/Tilt Camera Systems (28 21 31 00-0405)		
28 21 31 00-0510 Esprit® Thermal, Pan/Tilt Camera Systems (28 21 31 00-0509)		
28 21 31 00-0511 Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera Systems (28 21 31 00-0510)		
28 21 31 00-0512 EA 14.25 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3014TI-2N).....	29,402.42	309.88
28 21 31 00-0513 EA 35 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3035TI-2N).....	31,618.42	309.88
28 21 31 00-0514 EA 50 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3050TI-2N).....	32,362.43	309.88
28 21 31 00-0515 Wall Mount, Esprit® Thermal, Pan/Tilt Camera Systems (28 21 31 00-0510)		
28 21 31 00-0516 EA 14.25 mm, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3014TI-2W).....	29,450.57	309.88
28 21 31 00-0517 EA 35 mm, 30 Hertz, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3035TI-2W).....	31,665.42	309.88
28 21 31 00-0518 EA 50 mm, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3050TI-2W).....	32,409.43	309.88
28 21 31 00-0519 Accessories For Esprit® Pan/Tilt Camera Systems (28 21 31 00-0405)		
28 21 31 00-0520 EA Wiper Blade Replacement For Esprit® Systems (Pelco ES-REPLBLADE).....	12.96	3.44
28 21 31 00-0521 EA Marine Mounting Kit For Esprit® Systems (Pelco ES-MKIT).....	74.55	17.22
28 21 31 00-0522 EA Indoor/Outdoor Wall Mount For Esprit® Systems (Pelco EWM).....	115.82	17.22
28 21 31 00-0523 EA Wall Mount For High Security Enclosures (Pelco HSWM12).....	146.78	17.22
28 21 31 00-0524 EA Ground Isolation Transformer (Pelco GIT100).....	430.00	47.03
28 21 31 00-0525 EA High Security, Indoor Wedge Style Enclosure (Pelco HS2100).....	592.76	47.03
28 21 31 00-0526 EA High Security, Indoor 10" Length Enclosure (Pelco HS3000).....	513.69	47.03
28 21 31 00-0527 EA High Security, Indoor Medium Corner Mount Enclosure (Pelco HS1500).....	685.40	47.03
28 21 31 00-0528 EA High Security, Ceiling Mount, Lexan Window, Aluminum Enclosure (Pelco HS8080).....	399.05	47.03
28 21 31 00-0529 EA High Security, Ceiling Mount, Lexan Window, Steel Enclosure (Pelco HS8134).....	974.67	47.03

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0530 EA Bullet-Resistant, Outdoor Enclosure (Pelco HS4514).....	1,592.45	47.03
28 21 31 00-0531 EA Bullet-Resistant, Outdoor Enclosure With Mount (Pelco HS4514/MT)	1,891.66	47.03
28 21 31 00-0532 EA 24X, Color/Black And White, Esprit® Camera Module (Pelco ESIOPCBW24).....	1,959.30	47.03
28 21 31 00-0533 EA 35X, Color/Black And White, Esprit® Camera Module (Pelco ESIOPCBW35).....	2,065.91	47.03
28 21 31 00-0534 EA 24 Volt AC, Esprit® Pan Tilt Enclosure Receiver (Pelco ES3012-2).....	2,463.28	47.03
28 21 31 00-0535 EA 24 Volt AC, Pedestal Mount, Esprit® Pan/Tilt Enclosure Receiver (Pelco ES3012-2N).....	2,492.30	47.03
28 21 31 00-0536 EA 24 Volt AC, Wall Mount, Esprit® Pan/Tilt Enclosure Receiver (Pelco ES3012-2W).....	2,520.16	47.03
28 21 31 00-0537 EA 30X, 24 Volt AC, DSS, Color High Resolution, Esprit® CLZ Pan/Tilt Camera System (Pelco ES3012-2CLZ30)	6,462.36	47.03
28 21 31 00-0538 EA 30X, 24 Volt AC, Preset Positioning, DSS, Color High Resolution, Esprit® CLZ Pan/Tilt Camera System (Pelco ES3012-2CLZ30P).....	6,641.20	47.03
28 21 31 00-0539 EA Esprit® Camera Pole Mount Adapter (Pelco EPM).....	116.62	11.08
28 21 31 00-0540 EA Pole Mount Adapter For Esprit® Systems (Pelco EPM).....	116.62	11.08
28 21 31 00-0541 Camera Lenses (28 21 31 00-0040)		
28 21 31 00-0542 Fixed Focus Camera Lenses (28 21 31 00-0541)		
Note: 1/3" format and manual focus.		
28 21 31 00-0543 Manual Iris, Fixed Focus Camera Lenses (28 21 31 00-0542)		
28 21 31 00-0544 EA 2.3 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA2.3).....	188.45	16.15
28 21 31 00-0545 EA 2.8 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA2.8).....	156.35	16.15
28 21 31 00-0546 EA 4 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA4).....	140.30	16.15
28 21 31 00-0547 EA 8 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA8).....	136.86	16.15
28 21 31 00-0548 Direct Drive Auto Iris, Fixed Focus Camera Lenses (28 21 31 00-0542)		
Note: Includes spot filter. Excludes amplifier.		
28 21 31 00-0549 EA 2.3 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD2.3).....	235.45	16.15
28 21 31 00-0550 EA 2.8 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD2.8).....	188.45	16.15
28 21 31 00-0551 EA 4 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD4).....	176.99	16.15
28 21 31 00-0552 EA 8 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD8).....	126.55	16.15
28 21 31 00-0553 Video Drive Auto Iris, Fixed Focus Camera Lenses (28 21 31 00-0542)		
Note: Includes LDC100 adapter to convert DC auto iris to video drive.		
28 21 31 00-0554 EA 2.3 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV2.3S).....	277.87	16.15
28 21 31 00-0555 EA 2.8 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV2.8S).....	229.72	16.15
28 21 31 00-0556 EA 4 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV4S).....	218.26	16.15
28 21 31 00-0557 EA 8 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV8S).....	209.09	16.15
28 21 31 00-0558 Varifocal Camera Lenses (28 21 31 00-0541)		
Note: 1/3" format and manual focus and zoom.		
28 21 31 00-0559 Manual Iris, Varifocal Camera Lenses (28 21 31 00-0558)		
28 21 31 00-0560 EA 1.6-3.4 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA1-3).....	246.65	16.15
28 21 31 00-0561 EA 2.5-6 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA2.5-6).....	220.55	16.15
28 21 31 00-0562 EA 2.8-12 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA2.8-12).....	171.26	16.15
28 21 31 00-0563 EA 3-8 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA3-8).....	150.62	16.15
28 21 31 00-0564 EA 5.5-82.5 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5.5-82.5).....	392.51	16.15
28 21 31 00-0565 EA 5-40 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5-40).....	193.02	16.15
28 21 31 00-0566 EA 5-50 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5-50).....	205.21	16.15
28 21 31 00-0567 Direct Drive Auto Iris, Varifocal Camera Lenses (28 21 31 00-0558)		
Note: Includes spot filter.		
28 21 31 00-0568 EA 1.6-3.4 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD1-3).....	242.59	16.15
28 21 31 00-0569 EA 2.5-6 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD2.5-6).....	214.96	16.15
28 21 31 00-0570 EA 2.8-12 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD2.8-12).....	166.21	16.15
28 21 31 00-0571 EA 3-8 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD3-8).....	125.58	16.15
28 21 31 00-0572 EA 5.5-82.5 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD5.5-82.5).....	428.05	16.15
28 21 31 00-0573 EA 5-50 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD5-50).....	240.15	16.15
28 21 31 00-0574 Video Drive Auto Iris, Varifocal Camera Lenses (28 21 31 00-0558)		
Note: Includes spot filter.		
28 21 31 00-0575 EA 1.6-3.4 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV1-3S).....	375.31	16.15
28 21 31 00-0576 EA 2.5-6 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV2.5-6S).....	332.90	16.15
28 21 31 00-0577 EA 3-8 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV3-8S).....	199.92	16.15
28 21 31 00-0578 EA 5-50 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV5-50S).....	370.73	16.15
28 21 31 00-0579 Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lenses (28 21 31 00-0558)		
28 21 31 00-0580 EA 3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VDIR3-8.5).....	144.27	16.15
28 21 31 00-0581 EA 7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VDIR7.5-50).....	213.34	16.15
28 21 31 00-0582 Motorized Zoom Camera Lenses (28 21 31 00-0541)		
Note: 1/3" format.		
28 21 31 00-0583 Manual Iris, Motorized Zoom Camera Lenses (28 21 31 00-0582)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0584 EA 8X Zoom, 6-48 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X8).....	681.40	16.15
28 21 31 00-0585 EA 10X Zoom, 6-60 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X10).....	851.07	16.15
28 21 31 00-0586 EA 15X Zoom, 6-90 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X15).....	907.24	16.15
28 21 31 00-0587 Direct Drive Auto Iris, Motorized Zoom Camera Lenses (28 21 31 00-0582)		
Note: Includes spot filter.		
28 21 31 00-0588 EA 6X Zoom, 6-48 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X8).....	555.43	16.15
28 21 31 00-0589 EA 10X Zoom, 6-60 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X10).....	640.74	16.15
28 21 31 00-0590 EA 15X Zoom, 6-90 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X15).....	1,002.40	16.15
28 21 31 00-0591 EA 20X Zoom, 5.6-112 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD5.6X20).....	1,094.15	16.15
28 21 31 00-0592 EA 30X Zoom, 5.5-165 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD5.5X30).....	2,164.30	16.15
28 21 31 00-0593 Video Drive Auto Iris, Motorized Zoom Camera Lenses (28 21 31 00-0582)		
Note: Includes spot filter.		
28 21 31 00-0594 EA 8X Zoom, 6-48 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X8S).....	698.60	16.15
28 21 31 00-0595 EA 10X Zoom, 6-60 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X10S).....	831.58	16.15
28 21 31 00-0596 EA 15X Zoom, 6-90 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X15S).....	1,044.81	16.15
28 21 31 00-0597 EA 20X Zoom, 5.6-112 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV5.6X20S).....	1,520.57	16.15
28 21 31 00-0598 EA 30X Zoom, 5.5-165 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV5.5X30S).....	2,475.52	16.15
28 21 31 00-0599 Camera Power Supplies (28 21 31 00-0040)		
28 21 31 00-0600 EA 20 VA, 24 Volt AC, Camera Power Transformer (Pelco TF2000).....	48.18	13.78
28 21 31 00-0601 EA 50 VA, 24 Volt AC, Camera Power Transformer (Pelco TF9000).....	82.57	13.78
28 21 31 00-0602 EA 2 Amperes, 4 Outputs, Camera Power Supply (Pelco MCS4-2).....	319.17	27.54
28 21 31 00-0603 EA 5 Amperes, 8 Outputs, Camera Power Supply (Pelco MCS8-5).....	371.10	41.32
28 21 31 00-0604 EA 10 Amperes, 16 Outputs, Camera Power Supply (Pelco MCS16-10).....	420.58	55.09
For Switchable Outputs, Add	186.24	
28 21 31 00-0605 EA 20 Amperes, 16 Outputs, Camera Power Supply (Pelco MCS16-20).....	472.50	68.86
For Switchable Outputs, Add	200.86	
28 21 31 00-0606 Camera Illuminators (28 21 31 00-0040)		
28 21 31 00-0607 Camera Illuminators (28 21 31 00-0606)		
Note: Includes lamp and mounting bracket.		
28 21 31 00-0608 EA Narrow Spot Lamp, Low Light Level Camera Illuminator (Pelco LL27MF)	1,811.37	27.54
28 21 31 00-0609 EA Infrared Narrow Spot Lamp, Low Light Level Camera Illuminator (Pelco LL27NS)	1,811.37	27.54
28 21 31 00-0610 EA Flood Lamp, Low Light Level Camera Illuminator (Pelco LL27WF).....	1,811.37	27.54
28 21 31 00-0611 Camera Illuminator Accessories (28 21 31 00-0606)		
28 21 31 00-0612 EA Removal And Replacement Of Lamp For Low Light Level Camera Illuminator (Pelco PAR56)	152.53	27.54
28 21 31 00-0613 Camera Receivers (28 21 31 00-0040)		
28 21 31 00-0614 EA 24 Volt AC, Coaxitron® Outdoor Camera Receiver With Preset Positioning (Pelco CX9024RX-PP).....	1,762.12	47.03
28 21 31 00-0615 EA 120 Volt AC, Coaxitron® Outdoor Camera Receiver With Preset Positioning (Pelco CX9115RX-PP).....	1,762.12	47.03
28 21 31 00-0616 Pan And Tilt Drives (28 21 31 00-0040)		
28 21 31 00-0617 EA 15 Lb. Load, 24 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT270-24P).....	1,253.25	103.29
28 21 31 00-0618 EA 40 Lb. Load, 24/120 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT570-24P).....	1,588.00	103.29
For Preset Positioning, Add	165.00	
28 21 31 00-0619 EA 100 Lb. Load, 120 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT1250P).....	3,344.29	103.29
For Preset Positioning, Add	165.00	
28 21 31 00-0620 EA 100 Lb. Load, 120 Volt DC, Outdoor Pan And Tilt Drive (Pelco PT1250DC).....	3,820.04	103.29
For Preset Positioning, Add	165.00	
28 21 31 00-0621 EA 100 Lb. Load, 120 Volt DC, 360 Degree Outdoor Pan And Tilt Drive (Pelco PT1280SL).....	4,418.46	103.29
For Preset Positioning, Add	165.00	
28 21 31 00-0622 EA 100 Lb. Load, 120 Volt DC, Explosion Proof Outdoor Pan And Tilt Drive (Pelco PT1260EX)	5,690.97	103.29
For Preset Positioning, Add	165.00	
28 21 31 00-0623 Scanners (28 21 31 00-0040)		
28 21 31 00-0624 EA 35 Lb. Load, 24 Volt AC, Indoor/Outdoor Scanner (Pelco PS20-24)	1,428.65	103.29
For Wall Mount, Add	39.05	
For Pressure Sensor Alarm, Add	51.15	
28 21 31 00-0625 EA 35 Lb. Load, 120 Volt AC, Indoor/Outdoor Scanner (Pelco PS20)	1,500.88	103.29
For Wall Mount, Add	39.05	
For Pressure Sensor Alarm, Add	51.15	
28 21 31 00-0626 Camera Monitors (28 21 31 00-0039)		
28 21 31 00-0627 Camera Monitors (28 21 31 00-0626)		
28 21 31 00-0628 Monochrome Camera Monitors (28 21 31 00-0627)		
28 21 31 00-0629 EA 9" Monochrome Camera Monitor (Pelco PMM9A).....	278.62	20.66
28 21 31 00-0630 EA 12" Monochrome Camera Monitor (Pelco PMM12A).....	318.75	20.66

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0631 EA 15" Monochrome Camera Monitor (Pelco PMM15A)	488.42	20.66
28 21 31 00-0632 EA 20" Monochrome Camera Monitor (Pelco PMM20A)	785.33	20.66
28 21 31 00-0633 Color Camera Monitors (28 21 31 00-0627)		
28 21 31 00-0634 EA 9", High Resolution Color, Camera Monitor (Pelco PMC9A)	886.22	20.66
28 21 31 00-0635 EA 15", High Resolution Color, Camera Monitor (Pelco PMCS15A)	718.84	20.66
28 21 31 00-0636 EA 17", High Resolution Color, Camera Monitor (Pelco PMCS17A)	1,044.42	20.66
28 21 31 00-0637 EA 19", High Resolution Color, Camera Monitor (Pelco PMCS19A)	1,388.34	20.66
28 21 31 00-0638 LCD Camera Monitors (28 21 31 00-0626)		
28 21 31 00-0639 VGA Signal, Color LCD Camera Monitors (Pelco 200 Series) (28 21 31 00-0638)		
Note: Displays VGA computer signals.		
28 21 31 00-0640 EA 17", VGA Signal, High Resolution Color, LCD Camera Monitor (Pelco PMCL217)	1,002.00	20.66
28 21 31 00-0641 EA 19", VGA Signal, High Resolution Color, LCD Camera Monitor (Pelco PMCL219)	1,304.65	20.66
28 21 31 00-0642 Multimode, Color LCD Camera Monitors (Pelco 300 Series) (28 21 31 00-0638)		
Note: Displays VGA computer signals and/or composite video signals.		
28 21 31 00-0643 EA 15", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL315)	1,139.57	20.66
28 21 31 00-0644 EA 17", Multimode, High Resolution Color, LCD Camera Monitor (Pelco PMCL317)	1,364.27	20.66
28 21 31 00-0645 EA 19", Multimode, High Resolution Color, LCD Camera Monitor (Pelco PMCL319)	1,678.38	20.66
28 21 31 00-0646 Multimode With PIP, Color LCD Camera Monitors (Pelco 400 Series) (28 21 31 00-0639)		
Note: Displays VGA computer signals and/or composite video signals. Includes picture in picture option.		
28 21 31 00-0647 EA 15", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL415)	1,462.86	20.66
28 21 31 00-0648 EA 17", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL417)	1,696.72	20.66
28 21 31 00-0649 EA 19", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL419)	2,128.91	20.66
28 21 31 00-0650 Camera Monitor Mounting Accessories (28 21 31 00-0626)		
28 21 31 00-0651 Camera Monitor Mounts (28 21 31 00-0650)		
28 21 31 00-0652 EA Up To 14", Camera Monitor Mount (Pelco)	341.69	27.54
28 21 31 00-0653 EA >14" To 17", Camera Monitor Mount (Pelco)	397.86	27.54
28 21 31 00-0654 EA >17" To 21", Camera Monitor Mount (Pelco)	466.65	27.54
28 21 31 00-0655 Camera Monitor Rack Mount Kits (28 21 31 00-0650)		
28 21 31 00-0656 EA Camera Monitor Rack Mount Kit (Pelco PMCL-RM)	207.56	27.54
28 21 31 00-0657 Video Transmission Equipment (28 21 31 00-0039)		
28 21 31 00-0658 UTP Cable, Video Transmission Equipment (28 21 31 00-0657)		
28 21 31 00-0659 UTP Cable, Active Video Receivers (28 21 31 00-0658)		
28 21 31 00-0660 EA Single Channel, UTP Cable, Active Video Receiver (Pelco TW3001AR)	429.98	34.43
28 21 31 00-0661 EA Four Channel, UTP Cable, Active Video Receiver (Pelco TW3004AR)	1,476.64	34.43
28 21 31 00-0662 EA Eight Channel, 4 Outputs, UTP Cable, Active Video Receiver (Pelco TW3008AR-4-US)	2,903.91	34.43
28 21 31 00-0663 EA Sixteen Channel, UTP Cable, Active Video Receiver (Pelco TW3016AR1-US)	4,769.10	34.43
28 21 31 00-0664 EA Sixteen Channel, 2 Outputs, UTP Cable, Active Video Receiver (Pelco TW3016AR-2-US)	5,568.14	34.43
28 21 31 00-0665 UTP Cable, Passive Video Transceivers (28 21 31 00-0658)		
28 21 31 00-0666 EA Single Channel, UTP Cable, Passive Video Transceiver (Pelco TW3001P)	127.33	34.43
28 21 31 00-0667 EA Four Channel, UTP Cable, Passive Video Transceiver (Pelco TW3004P)	429.98	34.43
28 21 31 00-0668 EA Eight Channel, UTP Cable, Passive Video Transceiver (Pelco TW3008P)	792.24	34.43
28 21 31 00-0669 EA Sixteen Channel, UTP Cable, Passive Video Transceiver (Pelco TW3016P)	1,505.30	34.43
28 21 31 00-0670 EA Thirty Two Channel, UTP Cable, Passive Video Transceiver (Pelco TW3032P)	2,942.88	34.43
28 21 31 00-0671 UTP Cable, Active Video Transmitters (28 21 31 00-0658)		
28 21 31 00-0672 EA Single Channel, UTP Cable, Active Video Transmitter (Pelco TW3001AT)	449.46	34.43
28 21 31 00-0673 Fiber Optics, Video Transmission Equipment (28 21 31 00-0657)		
28 21 31 00-0674 Data Only, Fiber Optics Transmission Equipment (28 21 31 00-0673)		
28 21 31 00-0675 Bidirectional Data, Fiber Optics Transmitters (28 21 31 00-0674)		
28 21 31 00-0676 EA Single-Channel, Single Mode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8101AS)	2,600.20	68.86
28 21 31 00-0677 EA Single-Channel, Multimode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8101AM)	1,066.31	68.86
28 21 31 00-0678 EA Four-Channel, Single Mode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8104S)	1,902.04	68.86
28 21 31 00-0679 EA Four-Channel, Multimode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8104M)	1,313.94	68.86
28 21 31 00-0680 Bidirectional Data, Fiber Optics Receivers (28 21 31 00-0674)		



Electronic Safety and Security			28
Video Surveillance			28 20
Surveillance Cameras			28 21

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0681 EA Single-Channel, Single Mode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8101AS)	2,600.20	68.86
28 21 31 00-0682 EA Single-Channel, Multimode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8101AM)	1,066.31	68.86
28 21 31 00-0683 EA Four-Channel, Single Mode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8104S)	1,902.04	68.86
28 21 31 00-0684 EA Four-Channel, Multimode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8104M)	1,313.94	68.86
28 21 31 00-0685 Video Only, Fiber Optics Transmission Equipment (28 21 31 00-0673)		
28 21 31 00-0686 Digitally Encoded Video, Fiber Optics Transmitters (28 21 31 00-0685)		
28 21 31 00-0687 EA Single-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8301AS)	1,158.03	68.86
28 21 31 00-0688 EA Single-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8301AM)	509.16	68.86
28 21 31 00-0689 EA Two-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8304S)	3,197.47	68.86
28 21 31 00-0690 EA Four-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8304M)	1,924.97	68.86
28 21 31 00-0691 EA Eight-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8308S)	5,233.48	68.86
28 21 31 00-0692 EA Eight-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8308M)	4,353.04	68.86
28 21 31 00-0693 EA Sixteen-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8316S)	12,983.14	68.86
28 21 31 00-0694 EA Sixteen-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8316M)	11,555.87	68.86
28 21 31 00-0695 Digitally Encoded Video, Fiber Optics Receivers (28 21 31 00-0685)		
28 21 31 00-0696 EA Single-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8301AS)	1,158.03	68.86
28 21 31 00-0697 EA Single-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8301AM)	509.16	68.86
28 21 31 00-0698 EA Two-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8302AS)	1,971.97	68.86
28 21 31 00-0699 EA Two-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8302AM)	803.79	68.86
28 21 31 00-0700 EA Four-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8304S)	3,197.47	68.86
28 21 31 00-0701 EA Four-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8304M)	1,924.97	68.86
28 21 31 00-0702 EA Eight-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8308S)	5,233.48	68.86
28 21 31 00-0703 EA Eight-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8308M)	4,353.04	68.86
28 21 31 00-0704 EA Sixteen-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8316S)	12,983.14	68.86
28 21 31 00-0705 EA Sixteen-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8316M)	11,555.87	68.86
28 21 31 00-0706 Video And Data, Fiber Optics Transmission Equipment (28 21 31 00-0673)		
28 21 31 00-0707 Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitters (28 21 31 00-0706)		
28 21 31 00-0708 EA Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85011AS)	1,991.46	68.86
28 21 31 00-0709 EA Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85011AM)	1,190.13	68.86
28 21 31 00-0710 EA Four-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85041S)	4,627.03	68.86
28 21 31 00-0711 EA Four-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85041M)	4,006.83	68.86
28 21 31 00-0712 EA Eight-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85081S)	7,485.01	68.86
28 21 31 00-0713 EA Eight-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85081M)	5,428.37	68.86
28 21 31 00-0714 Digitally Encoded Video With Bidirectional Data, Fiber Optics Receivers (28 21 31 00-0706)		
28 21 31 00-0715 EA Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85011AS)	1,991.46	68.86
28 21 31 00-0716 EA Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85011AM)	1,190.13	68.86
28 21 31 00-0717 EA Four-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85041S)	4,627.03	68.86
28 21 31 00-0718 EA Four-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85041M)	4,006.83	68.86
28 21 31 00-0719 EA Eight-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85081S)	7,485.01	68.86
28 21 31 00-0720 EA Eight-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85081M)	5,428.37	68.86
28 21 31 00-0721 Video, Audio And Data, Fiber Optics Transmission Equipment (28 21 31 00-0673)		
28 21 31 00-0722 Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitters (28 21 31 00-0721)		
28 21 31 00-0723 EA Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitter (Pelco FT86011S)	2,563.51	68.86
28 21 31 00-0724 EA Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitter (Pelco FT86011M)	2,040.75	68.86
28 21 31 00-0725 Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receivers (28 21 31 00-0721)		
28 21 31 00-0726 EA Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receiver (Pelco FR86011S)	2,563.51	68.86
28 21 31 00-0727 EA Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receiver (Pelco FR86011M)	2,040.75	68.86

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**
 MINOR
CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

28 21 31 00-0728	Video Amplifiers (28 21 31 00-0657)		
28 21 31 00-0729	Video Distribution Amplifiers (28 21 31 00-0728)		
28 21 31 00-0730	EA 1 Input, 4 Outputs, Video Distribution Amplifier (Pelco DA104DT)	317.59	17.22
28 21 31 00-0731	EA 16 Channel, Master, Video Distribution Amplifier (Pelco CM9760-MDA).....	2,569.12	17.22
	Note: Inserts time-date and title on up to 16 video inputs.		
28 21 31 00-0732	Video Equalizing Amplifiers (28 21 31 00-0728)		
28 21 31 00-0733	EA Video Equalizing Amplifier (Pelco EA2010)	345.10	17.22
28 21 31 00-0734	EA Half-Duplex, Video Equalizing Amplifier (Pelco EA2000).....	541.14	17.22
28 21 31 00-0735	Network Video Equipment (28 21 31 00-0039)		
28 21 31 00-0736	Video Encoders/Decoders (28 21 31 00-0735)		
28 21 31 00-0737	EA MPEG4 IP Video Receiver (Pelco NET300R).....	1,279.54	34.43
28 21 31 00-0738	EA MPEG4 IP Video Transmitter (Pelco NET300T).....	1,279.54	34.43
28 21 31 00-0739	EA MPEG4 IP Video Receiver With Audio (Pelco NET350R)	1,472.14	34.43
28 21 31 00-0740	EA MPEG4 IP Video Transmitter With Audio And Local Storage (Pelco NET350T)	1,472.14	34.43
28 21 31 00-0741	Network Video Recorders (28 21 31 00-0735)		
28 21 31 00-0742	EA 16 Device Or 100MBPS, Network Video Recorder (Pelco NVR316).....	8,077.70	68.86
28 21 31 00-0743	EA 32 Device Or 100MBPS, Network Video Recorder (Pelco NVR332).....	9,399.50	68.86
28 21 31 00-0744	EA 64 Device Or 100MBPS, Network Video Recorder (Pelco NVR364).....	12,045.39	68.86
28 21 31 00-0745	EA 64 Device Or 100MBPS, PelcoNet Network Video Recorder (Pelco NVR300).....	7,977.96	68.86
28 21 31 00-0746	Network Video Recorder Software (28 21 31 00-0735)		
28 21 31 00-0747	EA 10 User, License Pack (Pelco VMX300-LIC-10)	797.89	
28 21 31 00-0748	EA 20 User, License Pack (Pelco VMX300-LIC-20)	1,438.73	
28 21 31 00-0749	EA 50 User, License Pack (Pelco VMX300-LIC-50)	3,195.02	
28 21 31 00-0750	EA 100 User, License Pack (Pelco VMX300-LIC-100)	5,588.70	
28 21 31 00-0751	EA 10 User, Enterprise License Pack (Pelco VMX300-E-LIC10)	1,332.12	
28 21 31 00-0752	EA 20 User, Enterprise License Pack (Pelco VMX300-E-LIC20)	2,395.98	
28 21 31 00-0753	EA 50 User, Enterprise License Pack (Pelco VMX300-E-LIC50)	5,325.03	
28 21 31 00-0754	EA 100 User, Enterprise License Pack (Pelco VMX300-E-LIC100)	9,316.79	
28 21 31 00-0755	EA 200 User, Enterprise License Pack (Pelco VMX300-E-LIC200)	15,970.50	
28 21 31 00-0756	EA 500 User, Enterprise License Pack (Pelco VMX300-E-LIC500)	33,270.82	
28 21 31 00-0757	EA 0 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-0).....	7,189.91	
28 21 31 00-0758	EA 1 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-1).....	7,633.57	
28 21 31 00-0759	EA 4 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-4).....	12,071.28	
28 21 31 00-0760	EA 0 Analog Inputs, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSVR-0)	7,988.95	
28 21 31 00-0761	EA 1 Analog Input, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSVR-1)	8,432.61	
28 21 31 00-0762	EA 4 Analog Inputs, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSVR-4)	12,868.03	
28 21 31 00-0763	EA 0 Analog Inputs, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-0)	7,722.99	
28 21 31 00-0764	EA 1 Analog Input, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-1)	8,167.79	
28 21 31 00-0765	EA 4 Analog Inputs, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-4)	12,604.36	
28 21 31 00-0766	EA 0 Analog Inputs, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSVR-0).....	9,052.81	
28 21 31 00-0767	EA 1 Analog Input, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSVR-1).....	9,496.47	
28 21 31 00-0768	EA 4 Analog Inputs, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSVR-4).....	13,934.18	
28 21 31 00-0769	Video Recording Equipment (28 21 31 00-0039)		
28 21 31 00-0770	Digital Video Recorders (28 21 31 00-0769)		
28 21 31 00-0771	EA 8 Channel, 1TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-1000A)	12,646.10	68.86
28 21 31 00-0772	EA 8 Channel, 2 TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-2000A)	17,339.46	68.86
28 21 31 00-0773	EA 8 Channel, 3 TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-3000A)	22,033.97	68.86
28 21 31 00-0774	EA 16 Channel, 1 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-1000A)	15,224.35	68.86
28 21 31 00-0775	EA 16 Channel, 2 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-2000A)	19,917.72	68.86
28 21 31 00-0776	EA 16 Channel, 3 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-3000A)	24,612.22	68.86
28 21 31 00-0777	EA 24 Channel, 1 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-1000A)	16,642.45	68.86
28 21 31 00-0778	EA 24 Channel, 2 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-2000A)	21,335.81	68.86
28 21 31 00-0779	EA 24 Channel, 3 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-3000A)	26,030.32	68.86
28 21 31 00-0780	EA 32 Channel, 1 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-1000A)	19,220.70	68.86
28 21 31 00-0781	EA 32 Channel, 2 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-2000A)	23,914.07	68.86



Electronic Safety and Security			28
Video Surveillance			28 20
Surveillance Cameras			28 21

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0782	EA	32 Channel, 3 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-3000A)	28,608.57	68.86
28 21 31 00-0783	EA	16 Channel, 30 IPS, Digital Video Recorder (Pelco DX9116F-1500)	13,959.07	68.86
28 21 31 00-0784		Digital Video Recorder Accessories (28 21 31 00-0769)		
28 21 31 00-0785	EA	16 Channel, Multiplexed Analog Output Display Card (Pelco DX8000-MUX16)	1,238.27	34.43
28 21 31 00-0786		Matrix Systems And Controls (28 21 31 00-0039)		
28 21 31 00-0787		Video Multiplexers (28 21 31 00-0786)		
28 21 31 00-0788		Monochrome Duplex, Video Multiplexers (28 21 31 00-0787)		
28 21 31 00-0789	EA	9 Channel, Monochrome Duplex, Video Multiplexer (Pelco MX4009MD)	2,331.94	68.86
28 21 31 00-0790	EA	16 Channel, Monochrome Duplex, Video Multiplexer (Pelco MX4016MD)	2,204.69	68.86
28 21 31 00-0791		Color Duplex, Video Multiplexers (28 21 31 00-0787)		
28 21 31 00-0792	EA	4 Channel, Color Duplex, Video Multiplexer (Pelco MX4004CD)	1,578.75	68.86
28 21 31 00-0793	EA	9 Channel, Color Duplex, Video Multiplexer (Pelco MX4009CD)	3,001.44	68.86
28 21 31 00-0794	EA	16 Channel, Color Duplex, Video Multiplexer (Pelco MX4016CD)	3,252.50	68.86
28 21 31 00-0795		Color Simplex, Video Multiplexers (28 21 31 00-0787)		
28 21 31 00-0796	EA	9 Channel, Monochrome Simplex, Video Multiplexer (Pelco MX4009CS)	2,524.53	68.86
28 21 31 00-0797	EA	16 Channel, Monochrome Simplex, Video Multiplexer (Pelco MX4016CS)	2,946.41	68.86
28 21 31 00-0798		Video Multiplexer Accessories (28 21 31 00-0787)		
28 21 31 00-0799	EA	Pushbutton/Joystick Desktop Controls For PTZ, Fixed/Variable-Speed, Multiplexer Controller (Pelco KBD4000)	1,398.71	47.03
28 21 31 00-0800	EA	Pushbutton Desktop Controls For PTZ, Fixed/Variable-Speed, Multiplexer Controller (Pelco KBD4002)	827.80	47.03
28 21 31 00-0801	EA	Video Multiplexer Server (Pelco MX4000SVR)	2,331.94	68.86
28 21 31 00-0802		Quad Video Processor (28 21 31 00-0786)		
28 21 31 00-0803	EA	Monochrome, Quad Video Processor (Pelco QD104M)	723.45	34.43
28 21 31 00-0804	EA	Color, Quad Video Processor (Pelco QD104C)	1,182.01	34.43
28 21 31 00-0805		Switcher (28 21 31 00-0786)		
28 21 31 00-0806		Terminating Manual Switchers (28 21 31 00-0805)		
28 21 31 00-0807		Terminating Manual Switchers (28 21 31 00-0806)		
28 21 31 00-0808	EA	4 Inputs, Terminating Manual Switcher (Pelco MS504DT)	253.42	27.54
28 21 31 00-0809	EA	8 Inputs, Terminating Manual Switcher (Pelco MS508DT)	342.84	27.54
28 21 31 00-0810	EA	12 Inputs, Terminating Manual Switcher (Pelco MS512DT)	416.21	27.54
28 21 31 00-0811	EA	18 Inputs, Terminating Manual Switcher (Pelco MS518DT)	678.73	27.54
28 21 31 00-0812		Audio Follow, Terminating Manual Switchers (28 21 31 00-0806)		
28 21 31 00-0813	EA	4 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS504AF)	326.79	27.54
28 21 31 00-0814	EA	8 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS508AF)	573.26	27.54
28 21 31 00-0815	EA	18 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS518AF)	998.58	27.54
28 21 31 00-0816		Balanced Audio Follow, Terminating Manual Switchers (28 21 31 00-0806)		
28 21 31 00-0817	EA	4 Inputs, Balanced Audio Follow, Terminating Manual Switcher (Pelco MS504BAF)	435.69	27.54
28 21 31 00-0818	EA	8 Inputs, Balanced Audio Follow, Terminating Manual Switcher (Pelco MS508BAF)	795.66	27.54
28 21 31 00-0819		Looping Manual Switchers (28 21 31 00-0805)		
28 21 31 00-0820		Looping Manual Switchers (28 21 31 00-0819)		
28 21 31 00-0821	EA	4 Inputs, Looping Manual Switcher (Pelco MS504LDT)	283.22	27.54
28 21 31 00-0822	EA	8 Inputs, Looping Manual Switcher (Pelco MS508LDT)	387.55	27.54
28 21 31 00-0823	EA	12 Inputs, Looping Manual Switcher (Pelco MS512LDT)	493.01	27.54
28 21 31 00-0824	EA	18 Inputs, Looping Manual Switcher (Pelco MS518LDT)	810.57	27.54
28 21 31 00-0825		Audio Follow, Looping Manual Switchers (28 21 31 00-0819)		
28 21 31 00-0826	EA	4 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS504AFL)	352.01	27.54
28 21 31 00-0827	EA	8 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS508AFL)	612.24	27.54
28 21 31 00-0828	EA	12 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS512AFL)	839.23	27.54
28 21 31 00-0829		Balanced Audio Follow, Looping Manual Switchers (28 21 31 00-0819)		
28 21 31 00-0830	EA	4 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS504BAFL)	466.65	27.54
28 21 31 00-0831	EA	8 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS508BAFL)	842.67	27.54
28 21 31 00-0832	EA	12 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS512BAFL)	1,059.34	27.54

28 Electronic Safety and Security**28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0833		Sequential Switchers (28 21 31 00-0805)		
28 21 31 00-0834		Single Output, Sequential Switchers (28 21 31 00-0833)		
28 21 31 00-0835	EA	4 Inputs, Single Output, Sequential Desktop Switcher (Pelco VA6104).....	494.16	27.54
28 21 31 00-0836	EA	8 Inputs, Single Output, Sequential Desktop Switcher (Pelco VA6108).....	734.91	27.54
28 21 31 00-0837		Dual Outputs, Sequential Switchers (28 21 31 00-0833)		
28 21 31 00-0838	EA	4 Inputs, Dual Outputs, Sequential Desktop Switcher (Pelco VA6204).....	616.83	27.54
28 21 31 00-0839	EA	8 Inputs, Dual Outputs, Sequential Desktop Switcher (Pelco VA6208).....	852.98	27.54
28 21 31 00-0840		Controls (28 21 31 00-0786)		
28 21 31 00-0841		Direct/Multi-Cable Controls (28 21 31 00-0840)		
28 21 31 00-0842	EA	Scanner Control Module (Pelco MPS524DT).....	431.21	68.86
28 21 31 00-0843	EA	120 Volt AC Pan/Tilt Control Module (Pelco MPT115DT).....	459.87	68.86
28 21 31 00-0844	EA	24 Volt AC Pan/Tilt Control Module (Pelco MPT24DT).....	509.16	68.86
28 21 31 00-0845	EA	Motorized Zoom Lens Control Module (Pelco MLZ6DT).....	532.09	68.86
28 21 31 00-0846	EA	120 Volt AC Pan/Tilt, Scanner And Lens Control Module (Pelco MPTAZ115DT).....	834.74	68.86
28 21 31 00-0847	EA	24 Volt AC Pan/Tilt, Scanner And Lens Control Module (Pelco MPTAZ24DT).....	918.43	68.86
28 21 31 00-0848		Coaxitron Controls (28 21 31 00-0840)		
28 21 31 00-0849	EA	Desktop Keyboard, Fixed Speed Coaxitron Controller And Transmitter (Pelco KBD9000).....	614.57	47.03
28 21 31 00-0850	EA	8 Position Joystick Pan/Tilt Controls, Switch Camera Lens Controls, Desktop Coaxitron Controller And Transmitter (Pelco MPT9000).....	1,154.53	47.03
28 21 31 00-0851	EA	Integral Switcher, 8 Position Joystick Pan/Tilt Controls, Switch Camera Lens Controls, Desktop Coaxitron Controller And Transmitter (Pelco MPT9008).....	1,309.29	47.03
28 21 31 00-0852		Digital Controls (28 21 31 00-0840)		
28 21 31 00-0853	EA	Pushbutton Desktop Controls For Pan/Tilt/Zoom, Fixed/Variable-Speed, Digital Controller (Pelco KBD200A).....	822.07	47.03
28 21 31 00-0854	EA	Pushbutton/Joystick Desktop Controls For Pan/Tilt/Zoom, Fixed/Variable-Speed, Digital Controller (Pelco KBD300A).....	1,387.24	47.03
28 21 31 00-0855		Lock Boxes (28 21 31 00-0786)		
28 21 31 00-0856	EA	VCR Lock Box (Pelco LB1000).....	503.38	51.64
		For Wall Mount, Add	165.00	
28 21 31 00-0857	EA	Computer Disk Drive Lock Box (Pelco LB2000).....	514.85	51.64
28 21 31 00-0858	EA	VCR And Multiplexer Lock Box (Pelco LB3000).....	939.02	51.64
		Note: Includes storage for 32 VCR tapes.		
28 21 31 00-0859		Test And Certification Of Surveillance Camera System (28 21 31)		
28 21 31 00-0860	DAY	Test And Certification Of Surveillance Camera System To Tie Into Existing Systems.....	1,094.07	
28 21 31 00-0861	HR	Test And Certification Of Surveillance Camera System.....	341.90	
28 21 31 00-0862		Programming Of Surveillance Camera System (28 21 31)		
28 21 31 00-0863	HR	Programming Of Surveillance Camera (CCTV) System.....	273.52	
28 21 31 00-0864		Proprietary Surveillance Systems (28 21 31)		
28 21 31 00-0865	MLF	Cat6E, Shielded, (F/UTP) CMR/CMX, UV/Outdoor, 23AWG 8/C, Drain Wire, Solid BC (ETL) Cable (I9 C6CMXR-1069BK).....	1,431.35	
28 21 31 00-0866	EA	Perimeter Defender License (I9 0333-608).....	549.39	
28 21 31 00-0867	EA	Perimeter Defender with PTZ Autotracking License (I9 01725-001).....	549.39	
28 21 31 00-0868	EA	DIN Rail Clip A (I9 5503-931).....	50.74	
28 21 31 00-0869	EA	DIN Rail Clip B (I9 T91A03).....	52.50	
28 21 31 00-0870	EA	Main Cable Angle C13-Open 0.5m (I9 5506-244).....	51.64	
28 21 31 00-0871	EA	21" x 21", 12 Gauge, Interior Panel (I9 A24P24).....	231.22	
28 21 31 00-0872	EA	29" x 21" x 12" Deep, Type 3R, Vented Enclosure (I9 WF3LP).....	2,067.21	
28 21 31 00-0873	EA	14U x 24" Deep, mobile security rack. Enclosed with locking doors, casters, and 10-32 rails. (I9 PTRK-14MDK).....	2,769.50	
28 21 31 00-0874	EA	Rackrail, 10-32, 14 RU, PTRK Series (I9 PTRK-RR14).....	72.39	
28 21 31 00-0875	EA	Utility Rackshelf, 1 RU, 10.4" D, Vented (I9 U1V).....	104.30	
28 21 31 00-0876	EA	Utility Rackshelf, 2 RU, 14.75 D (I9 U2).....	154.94	
28 21 31 00-0877	EA	Utility Rackshelf, 2 RU, 14.75 D, Vented (I9 U2V).....	130.77	
28 21 31 00-0878	EA	Outdoor IR Network Dome Camera, 3.4-8.9mm Lens (I9 P3245-LVE).....	1,390.47	
28 21 31 00-0879	EA	Outdoor PTZ Network Camera, 32x Lens (I9 P5655-E).....	3,863.67	
28 21 31 00-0880	EA	Outdoor Thermal Network Camera, 19mm Lens (I9 Q1941-E).....	5,357.42	
28 21 31 00-0881	EA	Outdoor Thermal Network Camera, 13mm Lens (I9 Q1941-E).....	5,357.42	
28 21 31 00-0882	EA	Outdoor Thermal Network Camera, 60mm Lens (I9 Q1941-E).....	8,356.18	
28 21 31 00-0883	EA	IR Dome Network Camera 3.4-8.9mm Lens (I9 P3245-LVE).....	1,164.04	
28 21 31 00-0884	EA	Outdoor Network IR Dome Camera 3.5-10mm Lens (I9 P3228-LVE).....	2,145.24	
28 21 31 00-0885	EA	Pole Mount, 50-150 mm (I9 T91B47).....	167.95	
28 21 31 00-0886	EA	Wall Mount (I9 T91G61).....	413.55	



Electronic Safety and Security			28
Video Surveillance			28 20
Surveillance Cameras			28 21

28

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0887	EA		Attachment Kit for PTZ Cameras (I9 T94A01C).....	215.34	
28 21 31 00-0888	EA		Dual Camera Mount (I9 T94V01C).....	215.34	
28 21 31 00-0889	EA		Conduit Back Box (I9 T94S01P).....	253.95	
28 21 31 00-0890	EA		Corner Bracket (I9 T91A64).....	178.48	
28 21 31 00-0891	EA		Pendant Kit (I9 T94A01D).....	127.57	
28 21 31 00-0892	EA		Tile Grid Ceiling Mount (I9 T91A23).....	166.19	
28 21 31 00-0893	EA		Indoor Pendant Kit (I9 T94K01D).....	106.51	
28 21 31 00-0894	EA		Pole Mount 65-165MM (I9 T91B67).....	208.32	
28 21 31 00-0895	EA		Outdoor Pendant Kit for P32-VE Camera (I9 T94T01D).....	120.55	
28 21 31 00-0896	EA		Wall Mount 1.5" NPS for selected Fixed Dome Cameras (I9 T91D61).....	192.39	
28 21 31 00-0897	EA		Parapet Mount for PTZ and Dome Network Camera (I9 T91B62).....	392.49	
28 21 31 00-0898	EA		1U Rackmount Console with built-in slide-out keyboard/touch pad and tilt-up 17-inch LCD monitor (I9 B021-000-17).....	1,157.60	
28 21 31 00-0899	EA		1-Year Extended Warranty (I9 WEXT1J).....	172.00	
28 21 31 00-0900	EA		Wall-Mountable Interconnect Center (WIC) (I9 WIC-02P).....	197.36	
28 21 31 00-0901	EA		Closet Connector Housing (CCH) Panel (I9 CCH-CP12-19T).....	179.35	
28 21 31 00-0902	EA		USB 2.0 Extender (I9 EXT-USB2.0-LR).....	929.74	
28 21 31 00-0903	EA		SeaLevel IO Device: USB to 16 Isolated Inputs / 16 Reed Relay Outputs Digital Interface Adapter (I9 SeaDAC 8221).....	631.36	
28 21 31 00-0904	EA		15 Watt, Midspan 1-Port (I9 T8120).....	126.10	
28 21 31 00-0905	EA		30 Watt, Midspan 8-Port (I9 T8133).....	164.72	
28 21 31 00-0906	EA		24" Monitor (I9 P2419H).....	441.91	
28 21 31 00-0907	EA		43" Full HD Commercial LED Display (I9 CDE4302).....	721.02	
28 21 31 00-0908	EA		Articulating Arm (20" Extension) TV Wall Mount Bracket for 32-65" TVs (I9 APDAM28).....	589.96	
28 21 31 00-0909	EA		Slim Power Strip, 7 Outlet, 15 Amperage, 10' Cord, Vertical Mounting (I9 PD-715SC-NS).....	191.71	
28 21 31 00-0910	EA		CV 20/20 Enterprise - 1 IP camera License (I9 SPEI).....	344.02	
28 21 31 00-0911	EA		5 Year Extended Warranty for Complete View Enterprise (I9 SMAE5).....	100.74	
28 21 31 00-0912	EA		NVR Server And 5 Year SFW updates included (I9 PowerPro PPN12T5B).....	10,209.32	
28 21 31 00-0913	EA		Catalyst 3560cx-12pc-s Managed Switch (I9 WS-C3560CX-12PC-S).....	2,505.08	
28 21 31 00-0914	EA		Extended Service Warranty (I9 CON-SNT-WSC312PC).....	258.01	
28 21 31 00-0915	EA		Catalyst 8-Port 10/100/1000 Managed Gigabit Ethernet Switch (I9 WS-C3560CX-8PC-S).....	1,855.62	
28 21 31 00-0916	EA		Extended Service Warranty (I9 CON-SNT-WSC38PCS).....	210.62	
28 21 31 00-0917	EA		IE 1GB SD Memory Card for IE2000, IE3010 (I9 SD-IE-1GB).....	494.83	
28 21 31 00-0918	EA		50 Watt AC To DC or High DC to DC Power Supply (I9 PWR-IE50W-AC).....	515.90	
28 21 31 00-0919	EA		8 Port Switch (I9 IE-2000-8TC-B).....	2,175.81	
28 21 31 00-0920	EA		Extended Service Warranty (I9 CON-SNT-IE2K8TCG).....	287.85	
28 21 31 00-0921	EA		American Power Conversion (APC) Smart-UPS X 1500VA Rack/Tower LCD 120 Vole (I9 SMX1500RM2UNC).....	2,254.09	
28 21 31 00-0922	EA		Industrial 1.5 kVA UPS Tower, 12-Year Batteries, Wide Temp (I9 SSG1.5 K-1).....	3,007.11	
28 21 31 00-0923	EA		OptiPlex 7080 Micro (I9 Optiplex 7080 210-ASEG).....	1,908.61	
28 21 31 00-0924	EA		OptiPlex Micro VESA Mount with adapter box (I9 Optiplex 452-BDEQ).....	59.52	
28 21 31 00-0925	EA		Logitech MK520 Keyboard and Mouse Combo - Wireless (I9 MK520).....	84.10	
28 21 31 00-0926			Removal And Reinstallation Of Cameras (28 21 31) Note: Includes storage, cleaning and supply materials.		
28 21 31 00-0927	EA		Removal And Reinstallation Of Camera System	619.76	

28 30 Security Detection, Alarm, and Monitoring (28)

28 31 Intrusion Detection (28 30)

28 31 11 Building Intrusion Detection (28 31)

28 31 11 13 Building Intrusion Detection Remote Devices and Sensors (28 31 11)

28 31 11 13-0001 Intrusion / Panic Alarm Equipment (28 31 11 13)

28 31 11 13-0002	EA	Digital Keypad (Bosch D1255).....	462.01	68.86
28 31 11 13-0003	EA	Alarm Panel (Bosch D7412GV4).....	1,084.81	275.45
28 31 11 13-0004	EA	Alarm Panel (Bosch D9412GV4).....	1,497.53	275.45
28 31 11 13-0005	EA	Passive Infrared / Microwave Detectors, Long Range (Bosch DS970).....	273.62	51.64
28 31 11 13-0006	EA	Passive Infrared / Microwave Detectors, Medium Range (Bosch DS950).....	255.60	51.64
28 31 11 13-0007	EA	Passive Infrared / Microwave Detectors, 360 (Bosch DS9360).....	332.58	51.64
28 31 11 13-0008	EA	Glass Break Sensor (Honeywell FG1625F).....	115.52	17.22
28 31 11 13-0009	EA	Siren/Speaker (Sentrol MPI-36).....	84.64	27.54
28 31 11 13-0010	EA	Magnetic Door Contact Switch, Flush Mount (Sentrol 1078CT).....	25.72	6.88
28 31 11 13-0011	EA	Magnetic Door Contact Switch, Surface Mount, Non-Exposed Wiring (Sentrol 1042TW).....	28.83	6.88
28 31 11 13-0012	EA	Magnetic Door Contact Switch, Surface Mount, Exposed Wiring (Sentrol 2505).....	62.11	10.33
28 31 11 13-0013	EA	Magnetic Door Contact Switch, Floor Mount (Sentrol 2707A).....	189.28	17.22
28 31 11 13-0014	EA	Panel Enclosure (Bosch D8103).....	145.61	51.64
28 31 11 13-0015	EA	Lock And Key Assembly (Bosch D101).....	20.66	6.88
28 31 11 13-0016	EA	7 AH, 12 Volt Battery (Bosch D126).....	86.03	17.22
28 31 11 13-0017	EA	Transformer (Bosch D1640).....	36.38	6.88
28 31 11 13-0018	EA	Keypad Back Boxes (Bosch D56).....	36.71	6.88
28 31 11 13-0019	EA	Auxiliary Relay (Bosch D136).....	24.91	6.88
28 31 11 13-0020	EA	Phone Jack, Modular (Bosch D128).....	113.92	17.22
28 31 11 13-0021	EA	Battery Charging Module (Bosch D8132).....	256.65	27.54
28 31 11 13-0022	EA	OctoPopit (Bosch D8128D).....	245.07	27.54
28 31 11 13-0023	EA	OctoRelay (Bosch D8129).....	264.73	27.54
28 31 11 13-0024	EA	Transformer Kit (Bosch D8004).....	119.26	13.78
28 31 11 13-0025	EA	Phone Jack, Modular (Bosch D166/RJ31X).....	26.88	6.88

28	Electronic Safety and Security
28 30	Security Detection, Alarm, and Monitoring
28 31	Intrusion Detection



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

28 40 Life Safety ⁽²⁸⁾

Note: Includes testing of new devices and certification.

28 41 Radiation Detection and Alarm ^(28 40)

28 41 15 Radiation Detection Sensors ^(28 41)

28 41 15 00-0001	Wall Mount, Battery Operated, Home Radon Detector ^(28 41 15)		
	Note: Long term and 7 day average display.		
28 41 15 00-0002	EA Wall Mount, Battery Operated, Home Radon Detector.....	221.69	

28 42 Gas Detection and Alarm ^(28 40)

28 42 11 Gas Detection and Alarm Control, GUI, and Logic Systems ^(28 42)

28 42 11 00-0001	Monitoring System For Underground Tanks ^(28 42 11)		
28 42 11 00-0002	Continuous Leak Detection System ^(28 42 11 00-0001)		
	Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.		
28 42 11 00-0003	EA Single Channel Underground Tank Monitoring System.....	8,621.87	563.86
28 42 11 00-0004	EA 2 Channel Underground Tank Monitoring System.....	11,630.61	752.27
28 42 11 00-0005	EA 3 Channel Underground Tank Monitoring System.....	16,389.31	805.90
28 42 11 00-0006	EA 4 Channel Underground Tank Monitoring System.....	17,648.09	1,127.72
28 42 11 00-0007	EA Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System.....	12,220.73	96.27
28 42 11 00-0008	EA Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System.....	11,020.39	85.96
28 42 11 00-0009	EA Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System.....	14,487.14	96.27
28 42 11 00-0010	EA Tank Leak Detection Probe.....	4,482.08	20.63
28 42 11 00-0011	EA Secondary Containment Collar Probe.....	548.62	8.26
28 42 11 00-0012	EA Interstitial Leak Detection Probe.....	1,006.12	17.19
28 42 11 00-0013	EA Liquid Phase Detection.....	3,318.99	51.57
28 42 11 00-0014	EA Hydrocarbon Vapor, Fixed.....	3,064.60	51.57
28 42 11 00-0015	EA Hydrocarbon Vapor, Float Mounted.....	3,579.91	58.44
28 42 11 00-0016	EA Liquid And Vapor Hydrocarbon.....	4,088.69	58.44

28 42 15 Gas Detection Sensors ^(28 42)

28 42 15 00-0001	Hydrogen Gas Detection ^(28 42 15)		
28 42 15 00-0002	EA Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR).....	2,134.31	51.64
28 42 15 00-0003	EA Hydrogen Gas Detector Junction Box (SBS HGDI-JB).....	113.86	51.64
28 42 15 00-0004	EA Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM).....	545.80	51.64

28 43 Fuel Oil Detection and Alarm ^(28 40)

See CSI section 28 42 00 00-0000 for detection and alarms.

28 46 Fire Detection and Alarm ^(28 40)

28 46 13 Fire-Alarm Systems ^(28 46)

28 46 13 31 Proprietary Supervising-Station Fire-Alarm Systems ^(28 46 13)

Note: Includes programming of equipment, testing and certification of new devices.

28 46 13 31-0001	Edwards Fire Alarm ^(28 46 13 31)		
28 46 13 31-0002	EST3 Life Safety And Security Control ^(28 46 13 31-0001)		
28 46 13 31-0003	EST3 Network ^(28 46 13 31-0002)		
28 46 13 31-0004	Remote Annunciators ^(28 46 13 31-0003)		
28 46 13 31-0005	EA Remote LCD Command Module Annunciator (EST3 3-LCDANN).....	1,729.42	103.29
	Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.		
28 46 13 31-0006	EA Six Position Base Annunciator (EST3 3-6ANN).....	1,410.85	103.29
	Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 13 31-0007	EA Ten Position Base Annunciator (EST3 3-10ANN).....	1,782.32	103.29
	Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.		
28 46 13 31-0008	EA Annunciator CPU (EST3 3-ANNCPU3).....	1,138.93	103.29
	Note: One Required per graphic annunciator.		
28 46 13 31-0009	EA Annunciator Support Module (EST3 3-ANNSM).....	210.74	34.43
	Note: Takes one space in Annunciator box. Supports one Control/Display module.		
28 46 13 31-0010	EA Liquid Crystal Display Module (EST3 3-LCD).....	735.08	103.29
	Note: Mounts over 3-CPU(1).		
28 46 13 31-0011	EA Liquid Crystal Display Module (EST3 3-LCDXL).....	868.98	103.29
	Note: Mounts over 3-ANNCPU plus two spaces.		
28 46 13 31-0012	EA LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA).....	828.20	103.29
	Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.		



Electronic Safety and Security			28
Life Safety			28 40
Fire Detection and Alarm			28 46

28

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0013	EA		Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA)..... Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.	961.33	68.86
28 46 13 31-0014	EA		Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX) Note: Mounts up to three 3-EVDVRA modules.	147.50	34.43
28 46 13 31-0015	EA		Central Processor Unit Module (EST3 3-CPU3) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	2,046.63	103.29
28 46 13 31-0016	EA		120 Volt AC, 50/60 Hertz, Primary Power Supply With Local Rail Module (EST3 3-CPU3) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	1,801.82	34.43
28 46 13 31-0017 Remote Annunciators Cabinets (28 46 13 31-0003)					
28 46 13 31-0018	EA		Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCMB)	158.81	34.43
28 46 13 31-0019	EA		Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCMB-S)	145.04	27.54
28 46 13 31-0020	EA		Six Position LED/LCD Flush Wallbox (EST3 6ANN/B)	178.77	34.43
28 46 13 31-0021	EA		Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S)	165.00	27.54
28 46 13 31-0022	EA		Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B)	197.49	34.43
28 46 13 31-0023	EA		Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S)	183.72	27.54
28 46 13 31-0024 Audio And Telephone Masters (28 46 13 31-0003)					
28 46 13 31-0025	EA		Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT).....	5,620.82	137.73
28 46 13 31-0026	EA		Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4)	3,134.68	137.73
28 46 13 31-0027	EA		Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU).....	2,448.84	137.73
28 46 13 31-0028	EA		Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU).....	2,963.74	137.73
28 46 13 31-0029	EA		Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100).....	3,383.21	137.73
28 46 13 31-0030	EA		Zoned Amplifier, 95 Watt, Class B. 95 Watt Selectable For 25 Or 70 Wrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95)	2,424.40	68.86
28 46 13 31-0031 Battery Distribution Unit (28 46 13 31-0003)					
28 46 13 31-0032	EA		Battery Distribution Unit (EST3 3-BTSEN).....	629.75	492.03
28 46 13 31-0033 Remote Booster Power Supply (28 46 13 31-0003)					
28 46 13 31-0034	EA		6.5 Amperes, 120 Volt AC, Booster Power Supply (EST3 BPS6A)	983.62	103.29
28 46 13 31-0035	EA		10 Amperes, 110 Volt AC Booster Power Supply (EST3 BPS10).....	1,121.87	103.29
28 46 13 31-0036	EA		10 Amperes, 220 Volt AC Booster Power Supply (EST3 BPS10220).....	1,223.75	103.29
28 46 13 31-0037	EA		Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP)	162.15	34.43
28 46 13 31-0038 Batteries And Battery Cabinets (28 46 13 31-0003)					
28 46 13 31-0039	EA		1.2 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V1A2 1.2 Ampere Hours)	124.19	34.43
28 46 13 31-0040	EA		4 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V4A 4.5 Ampere Hours)	154.22	34.43
28 46 13 31-0041	EA		24 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V24A 26 Ampere Hours)	361.44	34.43
28 46 13 31-0042	EA		6.5 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V6A5 7.2 Ampere Hours)	166.25	34.43
28 46 13 31-0043	EA		40 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V40A 40 Ampere Hours)	457.63	34.43
28 46 13 31-0044	EA		10 Amperes Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V10A 11 Ampere Hours)	258.50	34.43
28 46 13 31-0045	EA		50 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V50A 50 Ampere Hours)	926.31	34.43
28 46 13 31-0046	EA		17 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V17A 18 Ampere Hours)	264.70	34.43
28 46 13 31-0047	EA		65 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V65A 65 Amp Hours)	1,114.76	34.43
28 46 13 31-0048	EA		8 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V8A 8 Amp Hours)	148.37	34.43
28 46 13 31-0049	EA		10 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V10A 12 Amp Hours)	133.36	34.43
28 46 13 31-0050	EA		14" x 18-1/4" x 7-1/4" Free Standing Battery Cabinet With Key Lock (EST3 BC-1)..... Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.	472.81	68.86
28 46 13 31-0051	EA		22" x 15" x 3-3/4" Grey Battery Cabinet (EST3 BC-2)	391.92	68.86
			Note: Holds up to two 12V17A batteries.		
28 46 13 31-0052	EA		Remote Closet Enclosure (EST3 3-RCC7R)	1,332.21	137.73
28 46 13 31-0053	EA		Remote Closet Enclosure (EST3 3-RCC14R)	1,650.68	137.73
28 46 13 31-0054	EA		Remote Closet Enclosure (EST3 3-RCC21R)	2,311.08	137.73
28 46 13 31-0055 Serial Printer (28 46 13 31-0003)					
28 46 13 31-0056	EA		System Printer - Desk Top Style (EST3 PT-1S)	1,267.46	34.43
28 46 13 31-0057 EST3 Fire Alarm Panel Deprogramming (28 46 13 31-0003)					
28 46 13 31-0058	EA		Fire Alarm Deprogramming EST3 Fire Alarm Panel And Firworks Graphical Terminal	8,808.00	
			Note: Deprogram from fire alarm systems and Fireworks site networks of the EST3 fire alarm panels in Building 601/602. Deprogram the fire alarm system from the Fireworks site network. Fiber optic cabling is understood to remain in place. Provide splice patch cables to continue fiber circuit back to site fiber optic system.		
28 46 13 31-0059 Intelligent Analog Initiating Devices (28 46 13 31-0002)					
28 46 13 31-0060 Detectors, Signature (28 46 13 31-0059)					
28 46 13 31-0061	EA		Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHS)	284.45	51.64
28 46 13 31-0062	EA		Black, Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHSB)	319.41	51.64
28 46 13 31-0063	EA		Intelligent Multisensor Detector - Photoelectric, Heat (Edwards SIGA-PHD).....	220.41	51.64
28 46 13 31-0064	EA		Intelligent Photoelectric Smoke Detector, Duct Mounted (Edwards SIGA-PD).....	198.33	51.64
28 46 13 31-0065	EA		Intelligent Ionization Smoke Detector (EST3 SIGA-IS)	253.20	51.64

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0066 EA Intelligent Fixed Temperature / Rate-of-Rise Heat Detector - 135F, 15F Per Minute (Edwards SIGA-HRD).....	175.29	51.64
28 46 13 31-0067 EA Intelligent Fixed Temperature Heat Detector - 135 Degree F (Edwards SIGA-HFD).....	175.29	51.64
28 46 13 31-0068 EA Passive Infrared Motion Detector (EST3 SIGA-MD).....	328.71	51.64
28 46 13 31-0069 EA Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS)	362.84	51.64
28 46 13 31-0070 EA Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS)	306.36	51.64
28 46 13 31-0071 EA Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS).....	441.82	51.64
28 46 13 31-0072 EA 135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA2-HFS)	255.81	51.64
28 46 13 31-0073 EA 135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA2-HRS)	255.81	51.64
28 46 13 31-0074 EA Photoelectric, Heat, Intelligent 3D Multisensor Detector (EST3 SIGA2-PHS).....	351.88	51.64
28 46 13 31-0075 Detectors, Duct Housings and Accessories, Signature (28 46 13 31-0059)		
28 46 13 31-0076 EA Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD)	574.64	86.08
28 46 13 31-0077 EA Superduct, Test Magnet Kit (EST3 SD-MAG).....	25.20	
28 46 13 31-0078 EA Superduct, 120" Air Sample Tube (EST3 SD-T120).....	75.99	20.66
28 46 13 31-0079 EA Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK).....	150.32	27.54
28 46 13 31-0080 EA Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS)	203.19	27.54
28 46 13 31-0081 EA High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL).....	89.99	27.54
28 46 13 31-0082 Modules, Signature (28 46 13 31-0059)		
28 46 13 31-0083 EA Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB)	267.40	34.43
28 46 13 31-0084 EA Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1).....	141.82	34.43
28 46 13 31-0085 EA Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2)	192.70	34.43
28 46 13 31-0086 EA Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2).....	239.53	34.43
28 46 13 31-0087 EA Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1).....	211.90	34.43
28 46 13 31-0088 EA Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2).....	222.46	34.43
28 46 13 31-0089 EA Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR).....	168.70	34.43
Note: Select for either N.O. or N.C. operation. Rated at 2 amperes (24 Volt DC).		
28 46 13 31-0090 EA Control Relay UIO (Plug In) Module (EST3 SIGA-MCR)	208.35	34.43
28 46 13 31-0091 EA Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S)	277.99	34.43
28 46 13 31-0092 EA Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO)	271.00	34.43
28 46 13 31-0093 EA Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO)	260.58	34.43
28 46 13 31-0094 EA Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM).....	238.98	204.55
28 46 13 31-0095 EA Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1).....	175.15	34.43
Note: Factory programmed for non-latching monitor operation.		
28 46 13 31-0096 EA Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S).....	279.13	34.43
28 46 13 31-0097 Module Accessories, Signature (28 46 13 31-0059)		
Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 and 2-gang modules.		
28 46 13 31-0098 EA Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4).....	69.42	17.22
28 46 13 31-0099 EA Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6).....	236.15	34.43
28 46 13 31-0100 EA Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, -MCC2, - UM And -MAB Modules (EST3 235196P).....	25.87	10.32
28 46 13 31-0101 EA Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1- Gang Signature Modules (EST3 SIGA-MP1).....	81.47	17.22
28 46 13 31-0102 EA Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1- Gang Signature Modules (EST3 SIGA-MP2).....	72.82	17.22
28 46 13 31-0103 EA Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L)	76.24	17.22
28 46 13 31-0104 Single Action Pull Stations, Signature (28 46 13 31-0059)		
28 46 13 31-0105 EA One Stage Fire Alarm Station, English Markings (EST3 SIGA-270).....	294.61	71.61
28 46 13 31-0106 EA Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P).....	346.86	71.61
28 46 13 31-0107 EA GA Key - For Pre Signal Station (EST3 276-K2)	40.31	33.41
28 46 13 31-0108 EA 20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR).....	50.38	43.48
28 46 13 31-0109 EA Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB)	77.66	50.11
28 46 13 31-0110 Double Action Pull Stations, Signature (28 46 13 31-0059)		
28 46 13 31-0111 EA Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278).....	251.97	71.61
28 46 13 31-0112 EA 12 Glass Rods For SIGA-278 Series (EST3 276-GLR)	51.13	6.88
28 46 13 31-0113 Detector Bases and Accessories, Signature (28 46 13 31-0059)		
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.		
28 46 13 31-0114 EA Audible (Sounder) Base (EST3 SIGA-AB4G).....	146.72	17.22
28 46 13 31-0115 EA Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB)	55.43	17.22
28 46 13 31-0116 EA Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4)	182.98	17.22
28 46 13 31-0117 EA Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG).....	104.24	17.22
28 46 13 31-0118 EA Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DGSB).....	121.65	17.22



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28 46 13 31-0119 EA Detector Mounting Plate (EST3 SIGA-DMP) Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.	191.31	17.22
28 46 13 31-0120 EA Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED)	69.42	17.22
28 46 13 31-0121 EA Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS)	26.02	10.32
28 46 13 31-0122 EA Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4)	26.02	10.32
28 46 13 31-0123 EA Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tamper Hardware (EST3 SIGA-DGMF)	73.06	10.32
28 46 13 31-0124 EA Detector Base With Isolator (EST3 SIGA-IB)	119.89	17.22
28 46 13 31-0125 EA Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4)	127.35	17.22
28 46 13 31-0126 EA Detector Base With Form 'C' Relay (EST3 SIGA-RB)	84.35	17.22
28 46 13 31-0127 EA Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4)	106.87	17.22
28 46 13 31-0128 EA Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4)	50.75	17.22
28 46 13 31-0129 Controllers, Signature (28 46 13 31-0059)		
28 46 13 31-0130 EA Signature Dual Driver Controller (EST3 3-SDDC1)	4,031.34	103.29
28 46 13 31-0131 EA Single Signature Loop Controller (EST3 3-SSDC1)	2,314.32	103.29
28 46 13 31-0132 EA Signature Loop Controller (EST3 3-SDC1)	2,079.95	103.29
28 46 13 31-0133 EA Analog Addressable Loop Controller (EST3 3-AADC1)	3,328.86	103.29
28 46 13 31-0134 Relays And Accessories (28 46 13 31-0059)		
28 46 13 31-0135 EA Multi Voltage Relay (EST3 MR101)	216.29	34.43
28 46 13 31-0136 EA Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T)	64.98	17.22
28 46 13 31-0137 Notification Appliances (28 46 13 31-0002)		
28 46 13 31-0138 Wall Strobes, Horns And Chimes (28 46 13 31-0137)		
28 46 13 31-0139 EA Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM)	177.76	51.64
28 46 13 31-0140 EA Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1R-VM)	177.76	51.64
28 46 13 31-0141 EA Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM)	202.01	51.64
28 46 13 31-0142 EA Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD)	150.43	51.64
28 46 13 31-0143 EA Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1R-HD)	150.43	51.64
28 46 13 31-0144 EA Temporal Horn, Hi/Lo dB Output, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-HD)	150.43	51.64
28 46 13 31-0145 EA Temporal Horn, Hi/Lo dB Output, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD)	150.43	51.64
28 46 13 31-0146 EA Horn (Steady Tone), 24 Volt DC, White, Not Compatible With Signal Master (EST3 G1-P)	127.47	51.64
28 46 13 31-0147 EA Horn (Steady Tone) - 24 Volt DC, Red, Not Compatible With Signal Master (EST3 G1R-P)	127.47	51.64
28 46 13 31-0148 EA Horn (Steady Tone), 24 Volt DC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P)	127.47	51.64
28 46 13 31-0149 EA Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM)	301.01	51.64
28 46 13 31-0150 EA Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1R-CVM)	301.01	51.64
28 46 13 31-0151 EA Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C)	199.06	51.64
28 46 13 31-0152 EA Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1R-C)	199.06	51.64
28 46 13 31-0153 EA Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575)	177.76	51.64
28 46 13 31-0154 EA Multi-cd Strobe, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-VM)	177.76	51.64
28 46 13 31-0155 EA Multi-Candela Strobe, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM)	177.76	51.64
28 46 13 31-0156 EA Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575)	177.76	51.64
28 46 13 31-0157 EA Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM)	184.58	51.64
28 46 13 31-0158 EA Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM)	184.58	51.64
28 46 13 31-0159 EA Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST GCF-VMH)	200.53	51.64
28 46 13 31-0160 EA Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM)	184.58	51.64
28 46 13 31-0161 EA Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH)	184.58	51.64
28 46 13 31-0162 EA Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE)	112.54	51.64
28 46 13 31-0163 EA Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE)	112.54	51.64
28 46 13 31-0164 Wall Speakers And Speaker Strobes (28 46 13 31-0137)		
28 46 13 31-0165 EA Multi-Wattage 25 VRMS Speaker (EST3 G4-S2)	148.37	51.64
28 46 13 31-0166 EA Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM)	225.30	51.64
28 46 13 31-0167 EA Multi-Wattage 70 VRMS Speaker (EST3 G4-S7)	148.37	51.64
28 46 13 31-0168 EA Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM)	225.30	51.64
28 46 13 31-0169 EA Surface Box, White, For Genesis Speaker (EST3 G4B)	73.84	27.54
28 46 13 31-0170 EA Surface Box, Red, For Genesis Speaker (EST3 G4RB)	73.84	27.54
28 46 13 31-0171 Ceiling Speakers And Speaker Strobes (28 46 13 31-0137)		
28 46 13 31-0172 EA Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7)	176.27	51.64
28 46 13 31-0173 EA Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM)	225.30	51.64
28 46 13 31-0174 EA Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC- S7VMH)	240.83	51.64
28 46 13 31-0175 Harsh Environment Signals (28 46 13 31-0137)		
28 46 13 31-0176 EA Temporal Horn, Self-Synchronized, 24 Volt DC (EST3 757-1A-T)	157.18	51.64
28 46 13 31-0177 EA 15/75 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-7A-T)	218.41	51.64
28 46 13 31-0178 EA 110 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-8A-T)	218.41	51.64
28 46 13 31-0179 EA 15 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-5A-T)	200.20	51.64

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28 46 13 31-0180 EA 15/75 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-7A-T).....	188.10	51.64
28 46 13 31-0181 EA 30 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-3A-T).....	200.20	51.64
28 46 13 31-0182 EA 60 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-6A-T).....	200.20	51.64
28 46 13 31-0183 EA 110 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-8A-T).....	200.20	51.64
28 46 13 31-0184 EA 15/75 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T).....	221.50	58.53
28 46 13 31-0185 EA 110 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T).....	221.50	58.53
28 46 13 31-0186 EA 15 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-5A-T).....	164.56	51.64
28 46 13 31-0187 EA 30 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-3A-T).....	212.60	51.64
28 46 13 31-0188 Fire Alarm Bells (28 46 13 31-0137)		
28 46 13 31-0189 EA 10" Single Stroke Fire Alarm Bells, 24 Volt DC (EST3 323D-10AW).....	235.39	51.64
28 46 13 31-0190 EA 6" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-6AW).....	189.66	51.64
28 46 13 31-0191 EA 10" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-10AW).....	209.18	51.64
28 46 13 31-0192 Multiple Tone Signal (28 46 13 31-0137)		
28 46 13 31-0193 EA 27 Tone Selectable Signal, 24 Volt DC (EST3 5530MD-24AW).....	1,475.42	1,423.77
28 46 13 31-0194 Multi-Purpose Loudspeaker (28 46 13 31-0137)		
28 46 13 31-0195 EA 15 Watt Loudspeaker, Gray (EST3 HPSA15G2570).....	308.33	51.64
28 46 13 31-0196 EA 15 Watt Loudspeaker, Red (EST3 HPSA15R2570).....	308.33	51.64
28 46 13 31-0197 Bell/Strobe Plate (28 46 13 31-0137)		
28 46 13 31-0198 EA Bell/Strobe Plate - 15cd (EST3 403-5A-R).....	156.15	27.54
28 46 13 31-0199 Mounting Accessories (28 46 13 31-0137)		
28 46 13 31-0200 EA Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11).....	75.25	27.54
28 46 13 31-0201 EA One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY).....	75.25	27.54
28 46 13 31-0202 EA Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16).....	75.25	27.54
28 46 13 31-0203 EA Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21).....	75.25	27.54
28 46 13 31-0204 EA Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26).....	75.25	27.54
28 46 13 31-0205 Firefighters' Telephones (28 46 13 31-0137)		
28 46 13 31-0206 EA Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4).....	1,326.32	86.08
28 46 13 31-0207 EA Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4).....	749.25	86.08
28 46 13 31-0208 EA Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F).....	541.43	86.08
28 46 13 31-0209 EA Telephone Handset Assembly - Red c/w 60" Coiled Cord (EST3 6830-1).....	396.56	86.08
28 46 13 31-0210 EA Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4).....	723.38	86.08
28 46 13 31-0211 EA Three State Telephone Handset Assembly - Red, 60" Coiled Cord, Push To Talk Button (EST3 6830-5A).....	448.26	86.08
28 46 13 31-0212 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4).....	814.96	86.08
28 46 13 31-0213 EA Three State Telephone Handset Assembly - Red, 60" Armored Cord, Push To Talk Button (EST3 6830-6A).....	465.50	86.08
28 46 13 31-0214 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4).....	932.24	86.08
28 46 13 31-0215 EA Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1).....	103.45	27.54
28 46 13 31-0216 EA Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4).....	118.45	27.54
28 46 13 31-0217 EA Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3).....	163.02	
28 46 13 31-0218 EA Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061).....	163.02	
28 46 13 31-0219 EA Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1).....	248.90	34.43
28 46 13 31-0220 EA Frontplate - Flush Mount, Red Finish, Non-Break Glass Type With Two Keys (EST3 6831-2).....	308.62	34.43
28 46 13 31-0221 EA Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3).....	219.04	34.43
28 46 13 31-0222 EA Frontplate - Surface Mount, Red Finish, Non-Break Glass Type, With Two Keys (EST3 6831-4).....	210.26	34.43
28 46 13 31-0223 EA Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1).....	157.85	51.64
28 46 13 31-0224 EA Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6).....	1,367.29	68.86
28 46 13 31-0225 Mass Notification EC Appliances (28 46 13 31-0137)		
28 46 13 31-0226 EA G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA).....	184.63	51.64
28 46 13 31-0227 EA G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC).....	178.43	51.64
28 46 13 31-0228 EA G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA).....	184.63	51.64
28 46 13 31-0229 EA G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC).....	178.43	51.64
28 46 13 31-0230 EA G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT).....	28.07	10.32
28 46 13 31-0231 Hazardous Location Devices (28 46 13 31-0002)		
28 46 13 31-0232 Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location (28 46 13 31-0231)		
28 46 13 31-0233 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135).....	159.58	51.64
28 46 13 31-0234 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194).....	159.58	51.64
28 46 13 31-0235 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135).....	165.65	51.64
28 46 13 31-0236 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194).....	165.65	51.64
28 46 13 31-0237 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135).....	221.71	51.64



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28 46 13 31-0238	EA	Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EP-194).....	221.71	51.64
28 46 13 31-0239	EA	Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135).....	165.65	51.64
28 46 13 31-0240	EA	Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194).....	165.65	51.64
28 46 13 31-0241		Hazardous Locations Fire Alarm Station (28 46 13 31-0231)		
28 46 13 31-0242	EA	Hazardous Location Fire Alarm Station (EST3 XAL53).....	1,404.56	86.08
28 46 13 31-0243	EA	Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPTD (EST3 MPSR1-D45WX-GE).....	1,337.60	86.08
28 46 13 31-0244		Hazardous Location Strobes (28 46 13 31-0231)		
28 46 13 31-0245	EA	Explosion Proof Strobe (EST3 116DEXSTC-FJ).....	2,079.15	51.64
28 46 13 31-0246	EA	Wall Bracket Mounting Elbow (EST3 116EX-B).....	388.88	17.22
28 46 13 31-0247	EA	Ceiling / Wall Mounting Module (EST3 116EX-C).....	508.56	20.66
28 46 13 31-0248	EA	Pendant Mounting Module (EST3 116EX-P).....	373.80	20.66
28 46 13 31-0249		Hazardous Location Bells (28 46 13 31-0231)		
28 46 13 31-0250	EA	6" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-6AW).....	1,501.95	51.64
28 46 13 31-0251	EA	8" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-8AW).....	1,540.71	51.64
28 46 13 31-0252	EA	10" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-10AW).....	1,554.68	51.64
28 46 13 31-0253		Hazardous Location Horns (28 46 13 31-0231)		
28 46 13 31-0254	EA	Hazardous Location Horns (EST3 888D-N5).....	1,468.55	51.64
28 46 13 31-0255	EA	Explosion Proof Horn, Diode Polarized, 24 Volt DC (EST3 889D-AW).....	1,200.32	51.64
28 46 13 31-0256		Door Holders And Relays (28 46 13 31-0002)		
28 46 13 31-0257		Electromagnetic Door Holders (28 46 13 31-0256)		
28 46 13 31-0258	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Single, Floor Mount (EST3 1501-AQN5).....	267.34	51.64
28 46 13 31-0259	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Double, Floor Mount (EST3 1502-AQN5).....	345.13	51.64
28 46 13 31-0260	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount (EST3 1504-AQN5).....	227.61	51.64
28 46 13 31-0261	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount, Short Catch Plate (EST3 1505-AQN5).....	227.61	51.64
28 46 13 31-0262	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Surface, Wall Mount (EST3 1508-AQN5).....	231.20	51.64
28 46 13 31-0263	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Completely Flush, Wall Mount (EST3 1509-AQN5).....	234.63	51.64
28 46 13 31-0264		Control Relays, Multi-Voltage (28 46 13 31-0256)		
28 46 13 31-0265	EA	Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1).....	54.04	10.32
28 46 13 31-0266		FireShield Plus (28 46 13 31-0002)		
28 46 13 31-0267		3 Zone System (28 46 13 31-0266)		
28 46 13 31-0268	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R).....	1,461.82	413.18
28 46 13 31-0269	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD).....	2,124.76	550.89
28 46 13 31-0270	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G).....	1,461.82	413.18
28 46 13 31-0271	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD).....	2,124.76	550.89
28 46 13 31-0272	EA	Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G).....	101.46	17.22
28 46 13 31-0273	EA	Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R).....	101.46	17.22
28 46 13 31-0274		5 Zone System (28 46 13 31-0266)		
28 46 13 31-0275	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R).....	1,570.32	413.18
28 46 13 31-0276	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD).....	2,227.05	550.89
28 46 13 31-0277	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G).....	1,570.32	413.18
28 46 13 31-0278	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD).....	2,227.05	550.89
28 46 13 31-0279	EA	Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G).....	101.46	17.22
28 46 13 31-0280	EA	Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R).....	101.46	17.22
28 46 13 31-0281		10 Zone System (28 46 13 31-0266)		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0282 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R)	2,264.25	550.89
28 46 13 31-0283 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD)	2,927.18	688.62
28 46 13 31-0284 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G)	2,217.76	550.89
28 46 13 31-0285 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD)	2,927.18	688.62
28 46 13 31-0286 EA Semi-Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G)	118.25	17.22
28 46 13 31-0287 EA NAC Power Expansion Transformer, 120 Volt AC, Increases 10 Zone FACP NAC (EST3 F-XTR120)	216.46	34.43
28 46 13 31-0288 FireShield Plus Off Premise Communication Options (28 46 13 31-0266)		
28 46 13 31-0289 EA F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT)	471.84	34.43
28 46 13 31-0290 FireShield Plus Remote LED Annunciators (28 46 13 31-0266)		
28 46 13 31-0291 EA Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI)	203.87	51.64
28 46 13 31-0292 EA Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A)	203.87	51.64
28 46 13 31-0293 EA Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA)	211.79	51.64
28 46 13 31-0294 EA Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2)	40.82	10.32
28 46 13 31-0295 EA Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3)	50.94	10.32
28 46 13 31-0296 EA Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4)	75.24	10.32
28 46 13 31-0297 FireShield Plus Remote 10 Zone LED Annunciators (28 46 13 31-0266)		
28 46 13 31-0298 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10)	630.27	51.64
28 46 13 31-0299 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C)	692.27	51.64
28 46 13 31-0300 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1)	223.85	34.43
28 46 13 31-0301 FireShield Plus Remote Relays And Interfaces (28 46 13 31-0266)		
28 46 13 31-0302 EA Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24)	236.50	34.43
28 46 13 31-0303 EA 11" Snap Track Holds 2-4 RRM's, Used To Mount FSRRM's In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S11)	98.43	20.66
28 46 13 31-0304 EA Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM)	375.75	34.43
28 46 13 31-0305 FireShield Plus Accessories (28 46 13 31-0266)		
28 46 13 31-0306 EA Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1)	22.17	
28 46 13 31-0307 EA 4.7k UL End Of Line Resistor With FireShield Panels (EST3 EOL47PK7)	13.69	
28 46 13 31-0308 iO Series Fire Control Panels (28 46 13 31-0002)		
28 46 13 31-0309 Intelligent Analog Control Panels (28 46 13 31-0308)		
28 46 13 31-0310 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18a/h Batteries, English (EST3 iO500G)	4,391.22	688.62
28 46 13 31-0311 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO500GD)	4,691.91	688.62
28 46 13 31-0312 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, English (EST3 iO64G)	3,505.55	550.89
28 46 13 31-0313 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO64GD)	3,645.04	550.89
28 46 13 31-0314 Option Modules And Accessories For iO Series (28 46 13 31-0308)		
28 46 13 31-0315 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1)	413.28	51.64
28 46 13 31-0316 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2)	258.28	51.64
28 46 13 31-0317 EA Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232)	258.28	51.64
28 46 13 31-0318 EA Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA)	223.85	34.43
28 46 13 31-0319 EA Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT)	458.07	27.54
28 46 13 31-0320 EA Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH)	830.06	27.54
28 46 13 31-0321 EA Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1)	99.53	17.22
28 46 13 31-0322 EA Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2)	115.03	17.22
28 46 13 31-0323 EA Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250)	1,532.67	68.86



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0324 Remote Annunciators For iO Series (28 46 13 31-0308)				
28 46 13 31-0325	EA	Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD)	839.50	51.64
28 46 13 31-0326	EA	Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C)	878.26	51.64
28 46 13 31-0327 Remote Annunciator Accessories (28 46 13 31-0308)				
28 46 13 31-0328	EA	24 Expander Cable Assembly, With Cable And Hardware (EST3 730073)	96.43	17.22
28 46 13 31-0329	EA	12 Expander Cable (Cable Only) (EST3 7120313-01)	65.43	17.22
28 46 13 31-0330	EA	24 Expander Cable (Cable Only) (EST3 7120313-02)	88.67	17.22
28 46 13 31-0331	EA	Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1)	258.28	51.64
28 46 13 31-0332	EA	Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2)	297.02	51.64
28 46 13 31-0333	EA	Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3)	335.78	51.64
28 46 13 31-0334	EA	Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC)	65.43	17.22
28 46 13 31-0335	EA	Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC)	65.43	17.22
28 46 13 31-0336	EA	Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY)	133.15	17.22
28 46 13 31-0337 System Accessories (28 46 13 31-0308)				
28 46 13 31-0338	EA	Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 Volt DC, 24 Ampere Batteries (EST3 BC-1)	472.81	68.86
28 46 13 31-0339	EA	Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A)	2,159.48	550.89
28 46 13 31-0340 Conventional Initiating Devices (28 46 13 31-0002)				
28 46 13 31-0341 Detectors, Heat, Double Pole (28 46 13 31-0340)				
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.				
28 46 13 31-0342	EA	Heat Detector, 135 Degree F Fixed Temperature (CF135-2)	186.81	51.64
28 46 13 31-0343	EA	Heat Detector, 200 Degree F Fixed Temperature (CF200-2)	186.81	51.64
28 46 13 31-0344	EA	Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2)	186.81	51.64
28 46 13 31-0345	EA	Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2)	186.81	51.64
28 46 13 31-0346 Detectors, Rate Compensation Heat, Accessories (28 46 13 31-0340)				
28 46 13 31-0347	EA	Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P)	115.82	51.64
28 46 13 31-0348	EA	Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11)	308.46	27.54
28 46 13 31-0349	EA	4" Weatherproof, Octagon Back Box And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27)	99.07	34.43
28 46 13 31-0350 Detectors, Heat, Fire-Lite (28 46 13 31-0340)				
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.				
28 46 13 31-0351	EA	Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135)	174.89	51.64
28 46 13 31-0352	EA	Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194)	174.89	51.64
28 46 13 31-0353 Audio Notification Systems (Standalone Voice Evacuation) (28 46 13 31-0002)				
28 46 13 31-0354 Audio Notification Panels (28 46 13 31-0353)				
28 46 13 31-0355	EA	Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG)	5,980.55	688.62
28 46 13 31-0356	EA	Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR)	5,980.55	688.62
28 46 13 31-0357	EA	Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG)	4,477.12	688.62
28 46 13 31-0358	EA	Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR)	4,477.12	688.62
28 46 13 31-0359	EA	Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG)	5,221.08	688.62
28 46 13 31-0360	EA	Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR)	5,221.08	688.62
28 46 13 31-0361 Audio Notification Expander Panels (28 46 13 31-0353)				
28 46 13 31-0362	EA	Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG)	4,601.11	688.62
28 46 13 31-0363	EA	Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR)	4,601.11	688.62
28 46 13 31-0364	EA	Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG)	3,144.17	688.62
28 46 13 31-0365	EA	Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR)	3,144.17	688.62

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0366	EA	Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG).....	3,996.63	688.62
28 46 13 31-0367	EA	Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR).....	3,996.63	688.62
28 46 13 31-0368		Audio Notification Output Accessories (28 46 13 31-0353)		
28 46 13 31-0369	EA	Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B).....	173.92	17.22
28 46 13 31-0370	EA	Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A).....	766.33	34.43
28 46 13 31-0371	EA	Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B).....	766.33	34.43
28 46 13 31-0372	EA	Class A Converter (GE ANSZSC4A).....	549.34	34.43
28 46 13 31-0373		Audio Notification Remote Microphone (28 46 13 31-0353)		
28 46 13 31-0374	EA	Microphone (GE ANSMIKE).....	208.35	34.43
28 46 13 31-0375	EA	Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG).....	843.83	34.43
28 46 13 31-0376	EA	Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR).....	843.83	34.43
28 46 13 31-0377	EA	Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP).....	189.42	17.22
28 46 13 31-0378	EA	Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR).....	104.16	17.22
28 46 13 31-0379		Audio Notification Accessories (28 46 13 31-0353)		
28 46 13 31-0380	EA	Audio Matching - Line Input/Output Card (GE ANSAUX).....	347.85	34.43
28 46 13 31-0381	EA	Class B Backup Amplifier Switching Module (GE ANSBKUP).....	347.85	34.43
28 46 13 31-0382	EA	Class A Backup Amplifier Switching Module (GE ANSBKUPA).....	347.85	34.43
28 46 13 31-0383	EA	Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANSRIS8).....	766.33	34.43
28 46 13 31-0384		Audio Notification Modules, Without Cabinet And Transformer (28 46 13 31-0353)		
28 46 13 31-0385	EA	100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A)..... Note: Excludes cabinet.	2,788.12	68.86
28 46 13 31-0386	EA	100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM)..... Note: Excludes cabinet.	2,927.62	68.86
28 46 13 31-0387	EA	100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD)..... Note: Excludes cabinet.	4,043.57	68.86
28 46 13 31-0388	EA	25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A)..... Note: Excludes cabinet.	1,532.67	68.86
28 46 13 31-0389	EA	25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM)..... Note: Excludes cabinet.	1,532.67	68.86
28 46 13 31-0390	EA	25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD).....	2,788.12	68.86
28 46 13 31-0391	EA	50W Expander Module (No Microphone Or DMR) (GE ANS50A)..... Note: Excludes cabinet.	2,230.15	68.86
28 46 13 31-0392	EA	50W Expander Module With Microphone (No DMR) (GE ANS50AM)..... Note: Excludes cabinet.	2,369.64	68.86
28 46 13 31-0393	EA	50W Audio Notification Module With DMR And Microphone (GE ANS50AMD)..... Note: Excludes cabinet.	3,485.59	68.86
28 46 13 31-0394	EA	Power Transformer, Open Frame, 28 Volt AC At 180 VA (EVAX 50/100) (GE ANST28180).....	173.92	17.22
28 46 13 31-0395	EA	Power Transformer, Open Frame, 28 Volt AC At 100 VA (EVAX 25) (GE ANST2885).....	129.04	17.22
28 46 13 31-0396		EST4 Life Safety And Security Control (28 46 13 31-0001)		
28 46 13 31-0397		Audio Units And Interfaces (28 46 13 31-0396)		
28 46 13 31-0398	EA	Annunciator, Audio And Telephone Interface Module (EST4 4-ANNAUDEL).....	359.92	103.29
28 46 13 31-0399	EA	Audio And Telephone Interface/Riser Module (EST4 4-AUDTELS).....	682.20	34.43
28 46 13 31-0400	EA	Firefighter Master Handset (EST4 4-FT).....	678.15	86.08
28 46 13 31-0401	EA	Display, LCD Module For Audio/Telephone Control (EST4 4-LCDAUDEL).....	628.29	103.29
28 46 13 31-0402	EA	Display, LCD Module With Cable For Audio/Telephone Control For Annunciators (EST4 4-LCDAUDELANN).....	699.68	103.29
28 46 13 31-0403	EA	Display, LCD Module With Cable For Audio/Telephone Control With Bracket For CAB 14 And CAB 21 (EST4 4-LCDAUDEL-CAB-CB).....	754.93	103.29
28 46 13 31-0404	EA	Display, LCD Module With Cable For Audio/ Telephone Control With Mounting Plate (EST4 4-LCDAUDEL-CAB-MPLT)..... Note: For CAB7, CAB14, CAB21, 4-16ANNMT and 4-24ANNMT applications	883.41	103.29
28 46 13 31-0405	EA	Paging Microphone (EST4 4-MIC).....	709.35	34.43
28 46 13 31-0406		Cabinets And Chassis (28 46 13 31-0396)		
28 46 13 31-0407	EA	Battery Shelf For RCCxx Series Cabinets (EST4 3-BATS)..... Note: Takes one chassis space in a RCC cabinet. Provides space for up to one 65AH battery.	57.71	8.62
28 46 13 31-0408	EA	Battery Distribution Module (EST4 3-BTSEN).....	506.21	137.73
28 46 13 31-0409	EA	Wallbox With 2 Chassis Spaces (EST4 3-CAB14B).....	639.70	51.64
28 46 13 31-0410	EA	Wallbox With 3 Chassis Spaces (EST4 3-CAB21B).....	781.38	51.64
28 46 13 31-0411	EA	Backbox, Black (EST4 3-CAB5B)..... Note: Supports five Local Rail Modules.	310.29	51.64



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0412 EA Wallbox With 1 Chassis Space (EST4 3-CAB7B).....	437.32	51.64
28 46 13 31-0413 EA 3-CAB - Seismic Battery Hold Down For 3-CAB 7, 14 Or 21 (EST4 3-CABEQ)..... Note: Supports two 12V batteries from 10 Amp hrs up to 18 Ahrs. Comes with EST3 Chassis hardening hardware and instructions	327.37	13.78
28 46 13 31-0414 EA Chassis Assembly (EST4 3-CHAS7)..... Note: Fits in any Lobby or Remote Closet Cabinet except CAB5 Series. Provides space for up to seven LRMs. Rear space for up to two power supplies.	487.88	51.64
28 46 13 31-0415 EA Remote Closet Enclosure, Red (EST4 3-RCC14R).....	1,171.08	137.73
28 46 13 31-0416 EA Remote Closet Enclosure, Red (EST4 3-RCC21R).....	1,601.15	137.73
28 46 13 31-0417 EA Remote Closet Enclosure, Red (EST4 3-RCC7R).....	963.67	137.73
28 46 13 31-0418 EA 3-RCC Series Cabinet, Seismic Battery Hold Down For 3-RCC1XXR Series (EST4 3-RCCEQ50)..... Note: Supports one set of 50 Amp hr (two batteries). Order 3-RCC14R or 3-RCC21R separately.	489.70	172.15
28 46 13 31-0419 EA 3-RCC Series Cabinet, Seismic Battery Hold Down (EST4 3-RCCEQ65)..... Note: Supports one set of 65 Ahr (two batteries) batteries (one battery in bottom of cabinet, one battery mounted on 3-BATS. Order 3-RCCxxR cabinet and 3-BATS separately.	943.91	172.15
28 46 13 31-0420 EA Tamper Switch For CAB5 Series Cabinets (EST4 3-TAMP5).....	129.65	34.43
28 46 13 31-0421 EA Tamper Switch For 3-RCC Cabinets (EST4 3-TAMP5).....	129.65	34.43
28 46 13 31-0422 EA Mounting Bracket (EST4 4-BRKT-CB)..... Note: Provides space for mounting any one of 4-ANNCPU, 4-FWAL-1, 4-FWAL-2, 4-FWAL-3, 4-FWAL-4, or a 4-NET-AD module. Mounts on the back plane of a 3-CHAS7 or on the back plane of a 3-ASU chassis in retrofit applications.	91.39	17.22
28 46 13 31-0423 EA Mounting Bracket (EST4 4-BRKT-CS)..... Note: Provides space for mounting any one of 4-FWAL-1, 4-FWAL-2, 4-FWAL-3, 4-FWAL-4, or a 4-NET-AD module. The bracket mounts to the side of a 3-CHAS7.	91.39	17.22
28 46 13 31-0424 EA Door Assembly, Bronze (EST4 4-CAB16D)..... Note: Includes 16 User Interface spaces, mounts to 3-CAB7B wallbox.	598.15	10.33
28 46 13 31-0425 EA Door Assembly, Red (EST4 4-CAB16DR)..... Note: Includes 16 User Interface spaces, mounts to 3-CAB7B wallbox.	598.15	10.33
28 46 13 31-0426 EA Door Assembly, Bronze (EST4 4-CAB24D)..... Note: Outer door and black inner door with 24 user interface spaces, mounts to 3-CAB14B wallbox.	738.75	10.33
28 46 13 31-0427 EA Door Assembly, Bronze (EST4 4-CAB24DL)..... Note: Outer door and black inner door with 24 user interface spaces, mounts to 3-CAB21B wallbox.	844.23	10.33
28 46 13 31-0428 EA Door Assembly, Red (EST4 4-CAB24DR)..... Note: Outer door and black inner door with 24 user interface spaces, mounts to 3-CAB14B wallbox.	739.64	10.33
28 46 13 31-0429 EA Door Assembly, Red (EST4 4-CAB24DRL)..... Note: Outer door and black inner door with 24 user interface spaces, mounts to 3-CAB21B wallbox.	844.23	10.33
28 46 13 31-0430 EA Door Assembly, Bronze (EST4 4-CAB8D)..... Note: Outer door and black inner door with 8 user interface spaces, mounts to 3-CAB5B wallbox.	421.01	10.33
28 46 13 31-0431 EA Door Assembly, Red (EST4 4-CAB8DR)..... Note: Outer door and black inner door with 8 user interface spaces, mounts to 3-CAB5B wallbox.	421.01	10.33
28 46 13 31-0432 EA Replacement Hinge Assembly For CAB21 (EST4 4-HNG21).....	76.68	
28 46 13 31-0433 EA Replacement Hinge Assembly For CAB7 Or 14 (EST4 4-HNG714).....	76.68	
28 46 13 31-0434 EA Replacement Door Lock And Two Keys (EST4 4-LOCK2KEY).....	147.79	
28 46 13 31-0435 EA Mounting Plate (EST4 4-MPLT)..... Note: Mounts in chassis or battery space	225.91	17.22
28 46 13 31-0436 EA Tamper Switch For 3-CAB7B, 3-CAB14B And 3-CAB21B Cabinets With 4-CABXXD Series Doors (EST4 4-TAMP)..... Note: Mounts to side of cabinet.	121.35	34.43
28 46 13 31-0437 EA Battery Cabinet, Black Backbox, Bronze Door (EST4 BC-1)..... Note: Supports up to 40AH batteries	332.90	68.86
28 46 13 31-0438 EA Seismic Battery Hold Down For BC-1 (EST4 BC-1EQ)..... Note: Supports up to two 40 Ahr batteries. Order BC-1 or BC-1R Separately.	166.35	13.78
28 46 13 31-0439 EA Battery Cabinet, Black Backbox, Red Door (EST4 BC-1R)..... Note: Supports up to 40AH batteries.	332.90	68.86
28 46 13 31-0440 EA 8" x 14 x 3-1/2" Multi-Function Enclosure, Red (EST4 MFC-A).....	229.09	68.86
28 46 13 31-0441 Central Processing Unit (28 46 13 31-0396)		
28 46 13 31-0442 EA Annunciator Central Processor Unit (CPU) (EST4 4-ANNCPU)..... Note: Provides mounting for up to two network controllers, one USB device port, one USB host port and one 4-ANNAUDTEL module.	730.77	103.29
28 46 13 31-0443 EA Cable (EST4 4-CABL0542)..... Note: Interconnects the 4-CPU to the inner door rail when no 4-LCD display is installed in the cabinet.	135.96	17.22
28 46 13 31-0444 EA Cable, USB 3.0 A-B, Male, Long (EST4 4-CABLUSBLG).....	84.03	17.22
28 46 13 31-0445 EA Common Relay Module (EST4 4-COMREL).....	87.25	17.22
28 46 13 31-0446 EA Central Processor Module (EST4 4-CPU).....	1,356.60	103.29
28 46 13 31-0447 EA EST4 Software License, 1 Seat (EST4 4-CUSWL).....	657.30	
28 46 13 31-0448 Control Display Modules (28 46 13 31-0396)		
28 46 13 31-0449 EA Control Display Module With 24 Indicators (EST4 4-24L).....	486.21	103.29
28 46 13 31-0450 EA Control Display Module With 24 Indicators And 12 Switches (EST4 4-24L12S).....	591.04	103.29
28 46 13 31-0451 EA Control Display Module With 24 Indicators And 18 Switches (EST4 4-24L18S).....	591.04	103.29
28 46 13 31-0452 EA Control Display Module With 24 Indicators And 24 Switches (EST4 4-24L24S).....	605.93	103.29
28 46 13 31-0453 EA Blank Filler Plate (EST4 4-FIL).....	37.36	17.22
28 46 13 31-0454 Liquid Crystal Display (LCD) Modules (28 46 13 31-0396)		
28 46 13 31-0455 EA LCD Display For EST3 Panels (EST4 4-3LCD)..... Note: Allows reuse of EST3 UI layer in retrofit applications. The 4-3LCD can be mounted in remote closet cabinets where an LCD display is needed. The display mounts on the 4-CPU module.	896.60	103.29
28 46 13 31-0456 EA LCD With Cable For Annunciator Enclosure 4-4ANN, 4-6ANN Mounting (EST4 4-LCDANN).....	888.74	103.29
28 46 13 31-0457 EA Display, LCD Module For Audio/Telephone Control (EST4 4-LCDAUDTEL).....	628.29	103.29

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0458 EA Display, LCD Module With Cable For Audio/Telephone Control For Annunciators (EST4 4-LCDAUDTELANN)	699.68	103.29
28 46 13 31-0459 EA Display, LCD Module With Cable For Audio/Telephone Control With Bracket For CAB 14 And CAB 21 (EST4 4-LCDAUDTELCAB-CB).....	754.93	103.29
28 46 13 31-0460 EA Display, LCD Module With Cable For Audio/ Telephone Control With Mounting Plate For CAB7, CAB14, CAB21, 4-16ANNMT And 4-24ANNMT Applications (EST4 4-LCDAUDTELCAB-MPLT)	883.41	103.29
28 46 13 31-0461 EA LCD With Cable For 3-CAB5B, 7B, 14B, 21B, 4-8ANN, 16ANN And 24ANN Mounting (EST4 4-LCDLE)	886.73	103.29
28 46 13 31-0462 Network Accessories (28 46 13 31-0396)		
28 46 13 31-0463 EA Firewall (EST4 4-FWAL1).....	460.11	
Note: Provides secure connection to external systems. Support us to 8 concurrent IP connections supports connection to 4-USBHUB with printer and/or CDR3, SFP connection to FireWorks and other supported external connections		
28 46 13 31-0464 EA Firewall W/DAC (EST4 4-FWAL2).....	544.34	
Note: Provides secure connection to external systems. Support us to 8 concurrent IP connections supports connection to 4-USBHUB with printer and/or CDR3, SFP connection to FireWorks and other supported external connections		
28 46 13 31-0465 EA Firewall W/EMAIL (EST4 4-FWAL3).....	521.34	
Note: Provides secure connection to external systems. Support us to 8 concurrent IP connections supports connection to 4-USBHUB with printer and/or CDR3, SFP connection to FireWorks and other supported external connections		
28 46 13 31-0466 EA Firewall W/DAC/ EMAIL/DIAG (EST4 4-FWAL4)	1,510.35	
Note: Provides secure connection to external systems. Support us to 8 concurrent IP connections supports connection to 4-USBHUB with printer and/or CDR3, SFP connection to FireWorks and other supported external connections		
28 46 13 31-0467 EA SFP Network Firewall Adapter, CAT5 UTP Copper, 100Base-TX, 100 Mbps (EST4 4-FWAL-CAT).....	327.90	34.43
28 46 13 31-0468 EA SFP Network Firewall Adapter, Multimode, Dual-Fiber, 100Base-FX 1310nm (EST4 4-FWAL-MM)	427.49	34.43
28 46 13 31-0469 EA SFP Network Firewall Adapter, Single-Mode, Dual-Fiber, 100Base-LX10 1310nm (EST4 4-FWAL-SM).....	1,043.52	34.43
28 46 13 31-0470 EA SFP Network Firewall Adapter, Single-Mode, Single-Fiber, Downlink, 100Base-BX10-D 1550nm/1310nm Tx/Rx (EST4 4-FWAL-SMD).....	1,261.43	34.43
Note: Works with 4-FWAL-SMU		
28 46 13 31-0471 EA SFP Network Firewall Adapter, Single-Mode, Dual-Fiber, 100Base-High Output 1310nm (EST4 4-FWAL-SMH)	1,360.40	34.43
28 46 13 31-0472 EA SFP Network Firewall Adapter, Single-Mode, Single-Fiber, Uplink, 100Base-BX10-U 1310nm/1550nm Tx/Rx (EST4 4-FWAL-SMU).....	1,261.43	34.43
Note: Works with 4-FWAL-SMD		
28 46 13 31-0473 EA Network Adder Module (EST4 4-NET-AD).....	634.56	34.43
28 46 13 31-0474 EA SFP Network Controller, CAT5 UTP Copper, 100Base-TX, 100Mbps (EST4 4-NET-CAT).....	502.47	103.29
28 46 13 31-0475 EA SFP Network Controller, Multimode, Dual-Fiber, 100Base-FX 1310nm (EST4 4-NET-MM).....	628.51	103.29
28 46 13 31-0476 EA SFP Network Controller, Single-Mode, Dual-Fiber, 100Base-LX10 1310nm (EST4 4-NET-SM).....	1,353.26	103.29
28 46 13 31-0477 EA SFP Network Controller, Single-Mode, Single-Fiber, Downlink, 100Base-BX10-D 1550nm/1310nm Tx/Rx (EST4 4-NET-SMD).....	1,609.60	103.29
Note: Works with 4-NET-SMU		
28 46 13 31-0478 EA SFP Network Controller, Single-Mode, Dual-Fiber, 100Base-High Output 1310nm (EST4 4-NET-SMH)	1,726.05	103.29
28 46 13 31-0479 EA SFP Network Controller, Single-Mode, Single-Fiber, Uplink, 100Base-BX10-U 1310nm/1550nm Tx/Rx	1,609.60	103.29
Note: Works with 4-NET-SMD		
28 46 13 31-0480 EA SFP Network Controller, 2Mbps Shared TX/RX, Twisted Pair (EST4 4-NET-TP)	502.47	103.29
28 46 13 31-0481 EA SFP Network Controller, 0.3Mbps Shared TX/RX, High Capacitance Twisted Pair (EST4 4-NET-TP-HC).....	713.58	103.29
28 46 13 31-0482 EA Network Extender Module (EST4 4-NET-XT)	2,215.54	34.43
Note: Mounts to DIN rail on 4-MPLT ordered separately		
28 46 13 31-0483 EA 4-USBHUB Multi-port USB Hub Module (EST4 4-USBHUB).....	528.86	34.43
Note: Mounts in a ½ footprint module space and provides isolated RS-232 USB and terminal block connections for RS-232 to CDR connections.		
28 46 13 31-0484 EA Coder, PSNI (EST4 CDR-3)	613.45	34.43
Note: Positive, non-interfering, successive and march time codes PSNI code out (relay & tone outputs). March time out (relay & tone outputs). Connects to RS-232 serial port. Requires 1/2 size cabinet footprint and 24 VDC power.		
28 46 13 31-0485 EA Field Server Bridge Bracket For FSB-PC2 Or FSB-PC1W (EST4 FSB-BRKT2)	88.85	17.22
28 46 13 31-0486 EA ECPxml To BMS/Elevator Bridge (EST4 FSB-PC4)	2,301.89	34.43
Note: Mounts on FSB-BRKT2, ordered separately.		
28 46 13 31-0487 EA ECPxml To BMS/Elevator Bridge (EST4 FSB-PC4LW).....	2,301.89	34.43
Note: Mounts on FSB-BRKT2, ordered separately.		
28 46 13 31-0488 EA Ground Fault Detection Module (EST4 GFD)	338.06	17.22
Note: One required for every two 3-NSHM1/2s.		
28 46 13 31-0489 EA Isolator Module, RS232 (EST4 IOP3A).....	1,737.23	550.89
Note: For use with short haul modems, VDU-3, CCA Series, CGP Series and FCOM-232, requires 1/2 size cabinet footprint.		
28 46 13 31-0490 EA MN-FVPN, MN-ABPM, MN-PASM2, MN-COM1S, MN-NETRLY4 And/Or MN-FNS(4)(8) Series Switch Mounting Bracket For EST3 Enclosures (EST4 MN-BRKT1F).....	263.95	17.22
28 46 13 31-0491 EA 24 VDC, 4 Fast Ethernet (RJ45), 2 GB SFP, Layer 3 Lite (EST4 MN-FNS4C2F3)	2,966.94	137.73
28 46 13 31-0492 EA MN-FNS4 Series Switch Holder Bracket (EST4 MN-FNS4HDK1).....	132.99	17.22
Note: Used with MN-BRKT Series. One required per switch.		
28 46 13 31-0493 EA Desk Top Style, System Printer (EST4 PT-1S).....	1,104.15	34.43
28 46 13 31-0494 Power Supplies (28 46 13 31-0396)		
28 46 13 31-0495 EA Primary Power Supply With Local Rail Module 120-240V 50/60 Hz (EST4 4-PPS/M)	1,083.60	17.22
28 46 13 31-0496 Remote Annunciators (28 46 13 31-0396)		
28 46 13 31-0497 EA LED/SWITCH Driver Module Assembly (EST4 3-EVDVRA).....	743.00	103.29
Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0498	EA		Plastic Mounting Extrusion (EST4 3-EVDVRX) Note: Mounts up to three 3-EVDVRA modules.	132.71	34.43
28 46 13 31-0499	EA		Power Supply Assembly (EST4 3-EVPWRA) Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.	618.55	103.29
28 46 13 31-0500	EA		16 Slots (2 rows of 8), Bronze Annunciator (EST4 4-16ANN) Note: Comes with 4-ANNCPU, Bronze outer and black inner doors. Order wall Mounting assembly 4-16ANNMT (Surface mount) or 3-CAB7B (semi-flush mount), required network Controllers 4-NET-XX series, end user interfaces and required filler plates separately.	1,288.07	103.29
28 46 13 31-0501	EA		Surface Mount Wall Box Assembly For Eight Wide By Two High Annunciators (16 spaces) (EST4 4-16ANNMT) 24 slots (3 rows of 8), Bronze Annunciator (EST4 4-24ANN) Note: Comes with 4-ANNCPU, Bronze outer and black inner doors. Order wall mounting assembly 4-24ANNMT, required network Controllers 4-NET-XX series, and End User interfaces and required filler plates separately.	338.77 1,383.30	27.54 103.29
28 46 13 31-0503	EA		Surface Mount Wallbox Assembly For Eight Wide By Three High Annunciator (24 spaces) (EST4 4-24ANNMT) 28 46 13 31-0504	450.68	27.54
EA			LCD Annunciator (EST4 4-2ANN) Note: Comes with 4-LCDANN color touchscreen display, 4-ANNCPU, bronze outer door and black inner door. Order wallbox assembly model 4-2ANNMT and required network Controllers 4-NET-XX separately	1,576.63	103.29
28 46 13 31-0505	EA		Mounting Assembly For 4-2ANN, Two Wide Annunciator (EST4 4-2ANNMT) Note: Supports surface or semiflush mounting. Comes with black wallbox, surface mounting plastic fillers and semi-flush trim.	191.27	51.64
28 46 13 31-0506	EA		Bronze Annunciator (EST4 4-4ANN) Note: Supports 4 slots (1 row of 4). Comes with 4-ANNCPU, bronze outer door and black inner door. Order wall Mounting assembly 4-4ANNMT, required network controllers 4-NET-XX series, any user interfaces and filler plates separately.	918.22	103.29
28 46 13 31-0507	EA		Mounting Assembly For 4-4ANN, Four Wide annunciator (EST4 4-4ANNMT) Note: Supports surface or semiflush mounting. Comes with black wallbox, surface mounting plastic fillers and semi-flush trim.	266.72	51.64
28 46 13 31-0508	EA		Bronze Annunciator, 6 Slots (1 row of 6) (EST4 4-6ANN) Note: Comes with 4-ANNCPU, bronze outer door and black inner door. Order wall Mounting assembly 4-6ANNMT, required network Controllers 4-NET-XX series, any user interfaces and required filler plates separately.	954.99	103.29
28 46 13 31-0509	EA		Mounting Assembly For 4-6ANN, Six Wide Annunciator (EST4 4-6ANNMT) Note: Supports surface or semiflush mounting. Comes with wallbox, surface mounting plastic fillers and semi-flush trip.	304.69	51.64
28 46 13 31-0510	EA		Bronze Annunciator, 8 Slots (2 rows of 4) (EST4 4-8ANN) Note: Comes with 4-ANNCPU, Bronze outer and black inner doors. Order wall Mounting assembly 4-8ANNMT (surface mounting), or 3-CAB5B (Semi-flush mounting) required network Controllers 4-NET-XX series, End User interfaces and required filler plates separately.	1,104.88	103.29
28 46 13 31-0511	EA		Mounting Assembly For 4-8ANN, Four Wide x Two Row High Annunciator (EST4 4-8ANNMT) Note: Supports surface mounting.	386.97	51.64
28 46 13 31-0512	EA		Security Kit (EST4 4-ANNSK) Note: Provides a keyless door latch that allows access to LCD and switches, used for security applications where the display needs to be accessed without the need for a tool to unlock the door for arming, disarming, bypass applications within the protected space.	41.00	
28 46 13 31-0513	EA		Graphic Annunciator Central Processor Module (EST4 4-CPUGRPH) 28 46 13 31-0514	1,540.60	103.29
EA			SFP Network Controller, CAT5 UTP Copper, 100Base-TX, 100Mbps (EST4 4-NET-CAT) 28 46 13 31-0515	502.47	103.29
EA			SFP Network Controller, Multimode, Dual-Fiber, 100Base-FX 1310nm (EST4 4-NET-MM) 28 46 13 31-0516	628.51	103.29
EA			SFP Network Controller, Single-Mode, Dual-Fiber, 100Base-LX10 1310nm (EST4 4-NET-SM) 28 46 13 31-0517	1,353.26	103.29
EA			SFP Network Controller, Single-Mode, Single-Fiber, Downlink, 100Base-BX10-D 1550nm/1310nm Tx/Rx (EST4 4-NET-SMD) Note: Works with 4-NET-SMU	1,609.60	103.29
28 46 13 31-0518	EA		SFP Network Controller, Single-Mode, Dual-Fiber, 100Base-High Output 1310nm (EST4 4-NET-SMH) 28 46 13 31-0519	1,726.05	103.29
EA			SFP Network Controller, Single-Mode, Single-Fiber, Uplink, 100Base-BX10-U 1310nm/1550nm Tx/Rx (EST4 4-NET-SMU) Note: Works with 4-NET-SMD	1,609.60	103.29
28 46 13 31-0520	EA		SFP Network Controller, 2 Mbps Shared TX/RX, Twisted Pair (EST4 4-NET-TP) 28 46 13 31-0521	502.47	103.29
EA			SFP Network Controller, 0.3 Mbps Shared TX/RX, High Capacitance Twisted Pair (EST4 4-NET-TP-HC) 28 46 13 31-0522	713.58	103.29
			Miscellaneous (28 46 13 31-0396)		
28 46 13 31-0523	EA		Service Replacement Bronze Annunciator Door (EST4 4-2ANNND) Note: For 4-2ANN annunciators includes the inner and outer doors.	230.46	
28 46 13 31-0524	EA		Service Replacement Part, Plastic Frame Assembly With Mounting Screws (EST4 4-2ANNFA) Note: For 4-2ANN annunciators	84.65	
28 46 13 31-0525	EA		Service Replacement Bronze Annunciator Door (EST4 4-4ANNND) Note: For 4-4ANN annunciators includes the inner and outer doors.	249.81	
28 46 13 31-0526	EA		Service Replacement Part, Plastic Frame Assembly With Mounting Screws (EST4 4-4ANNFA) Note: For 4-4ANN annunciators.	119.91	
28 46 13 31-0527	EA		Service Replacement Part, Plastic Frame Assembly With Mounting Screws (EST4 4-4X2ANNFA) Note: For 4-8ANN annunciators and 4-CAB5D door assemblies.	184.31	
28 46 13 31-0528	EA		Service Replacement Bronze Annunciator Door (EST4 4-6ANNND) Note: For 4-6ANN annunciators, includes the inner and outer door	278.90	
28 46 13 31-0529	EA		Service Replacement Part, Plastic Frame Assembly With Mounting Screws (EST4 4-6ANNFA) Note: For 4-6ANN annunciators.	138.32	
28 46 13 31-0530	EA		Service Replacement Part, Plastic Frame Assembly With Mounting Screws (EST4 4-8ANNFA) Note: For 4-CAB16D and 4-CAB21D(L) door assemblies.	184.31	
28 46 13 31-0531	EA		Annunciator Central Processor Unit (CPU) (EST4 4-ANNCPU) Note: Provides mounting for up to two network controllers, one USB device port, one USB host port and one 4-ANNAUDTEL module.	730.77	103.29
28 46 13 31-0532	EA		Service Replacement Cable, 4-LCD To 4-CPU Flex Interconnect Cable (EST4 4-CABL0502) Note: For CAB5, 7, 14, 21.	119.15	
28 46 13 31-0533	EA		Service Replacement Cable, 4-LCD To 4-ANNCPU Cable (EST4 4-CABL0504) Note: For use in 4-2ANN, 4ANN, 6ANN annunciator configuration.	107.65	
28 46 13 31-0534	EA		Chassis To Door Rail Cable (EST4 4-CABL0505) Note: For 4-CAB16D, 4-CAB24D or 4-CAB24DL use when no LCD display is required.	97.33	10.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0535	EA	Chassis To Door Rail Cable (EST4 4-CABL0507)..... Note: For 4-CAB8D when no LCD is required.	97.33	10.33
28 46 13 31-0536	EA	Cable, 4-LCDAUDTEL To 4-ANNCPU (EST4 4-CABL0509)..... Note: For 4-MPLT for CAB7, CAB14, or CAB21	105.19	10.33
28 46 13 31-0537	EA	Service Replacement Cable, 4-3LCD To 4-CPU Cable (EST4 4-CABL0541)..... Note: For use in 3-CAB5B, 7B, 14B, 21B, RCC series.	103.91	
28 46 13 31-0538	EA	Cable, USB 3.0 A-B, Male, Short (EST4 4-CABLUSBSM).....	51.33	10.33
28 46 13 31-0539	EA	Window Replacement (EST4 4-CABWIN16/24)..... Note: For 4-CAB16D and 4-CAB24D doors	229.81	
28 46 13 31-0540	EA	Main Color Touchscreen LCD Display (EST4 4-LCD).....	819.93	103.29
28 46 13 31-0541	EA	Power Limited Label (EST4 4-PL0457)..... Note: For EST3 updates.	24.54	6.88
28 46 13 31-0542 Zone Audio Amplifiers (28 46 13 31-0396)				
28 46 13 31-0543	EA	Zoned Amplifier, 20 Watt, Class A/B (EST4 3-ZA20A)..... Note: 20 Watt selectable for 25 or 70 Vrms Class A/B Output. Mounts in 1 LRM space. Has built in Class A/B NAC rated at 3.5 Amps. Supports one user interface module.	849.58	27.54
28 46 13 31-0544	EA	Zoned Amplifier, 20 Watt, Class B (EST4 3-ZA20B)..... Note: 20 Watt selectable for 25 or 70 Vrms Class B Output. Mounts in 1 LRM space. Has built in Class B NAC rated at 3.5 Amps. Supports one user interface module.	783.76	27.54
28 46 13 31-0545	EA	Zoned Amplifier, 40 Watt, Class A/B (EST4 3-ZA40A)..... Note: 40 Watt selectable for 25 or 70 Vrms Class A/B Output. Mounts in 1 LRM space. Has built in Class A/B NAC rated at 3.5 Amps. Supports one user interface module.	1,046.85	27.54
28 46 13 31-0546	EA	Zoned Amplifier, 40 Watt, Class B (EST4 3-ZA40B)..... Note: 40 Watt selectable for 25 or 70 Vrms Class B Output. Mounts in 1 LRM space. Has built in Class B NAC rated at 3.5 Amps. Supports one user interface module.	963.86	27.54
28 46 13 31-0547	EA	Zoned Amplifier, 95 Watt, Class B (EST4 3-ZA95)..... Note: 95 Watt selectable for 25 or 70 Vrms Class B Output. Mounts in 2 LRM spaces. Supports two user interface modules.	2,014.32	27.54
28 46 13 31-0548 Simplex Fire Alarm (28 46 13 31)				
28 46 13 31-0549 4100 Fire Alarm Control Panel (28 46 13 31-0548)				
28 46 13 31-0550	EA	4100U Master Controller Assembly With LCD And Operator Interface, 9 Amperes System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACS, Auxiliary Relay And External RUI Communications Interface, 120 Volt AC Input (Simplex 4100-9111).....	7,449.48	687.63
28 46 13 31-0551	EA	4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amperes System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACs Disabled), 120 Volt AC Input (Simplex 4100-9141).....	8,122.60	687.63
28 46 13 31-0552	EA	4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate: Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACs Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142).....	11,648.05	687.63
28 46 13 31-0553	EA	Up To 127 Points, IDNet Module, (Simplex 4100-3104)..... Note: Add-on module.	4,804.27	687.63
28 46 13 31-0554	EA	Up To 64 Points, IDNet Module, (Simplex 4100-3105)..... Note: Add-on module.	3,777.73	687.63
28 46 13 31-0555	EA	Expansion Power Supply, 3 NACs, 120 Volt AC (Simplex 4100-5101)..... Note: Add-on module.	2,358.32	171.90
28 46 13 31-0556	EA	Alarm Relay, 3 Form C Relays, 2 Amperes At 32 Volt DC, For SPS Or RPS (Simplex 4100-6033)..... Note: Add-on module.	493.23	34.38
28 46 13 31-0557	EA	Dual Port RS-232 Interface Card (Simplex 4100-6038)..... Note: Add-on module.	1,411.78	34.38
28 46 13 31-0558 4100U Back Box (28 46 13 31-0548)				
28 46 13 31-0559	EA	2 Bay Back Box With Glass Door And Dress Panel (Simplex 2975-9425)..... Note: 24" x 40" beige backbox.	2,453.07	137.53
28 46 13 31-0560	EA	3 Bay Back Box With Glass Door And Dress Panel (Simplex 2975-9443)..... Note: 24" x 56" beige backbox.	3,451.76	137.53
28 46 13 31-0561 DACT (Digital Alarm Communicator Transmitter) (28 46 13 31-0548)				
28 46 13 31-0562	EA	6 Zone Fire Control Communicator (Silent Knight SK-5104).....	1,342.76	68.76
28 46 13 31-0563 4010 Fire Alarm Control Panel (28 46 13 31-0548)				
28 46 13 31-0564	EA	120 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101).....	7,036.80	687.63
28 46 13 31-0565	EA	240 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201).....	6,832.29	687.63
28 46 13 31-0566	EA	Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806).....	254.64	34.38
28 46 13 31-0567	EA	Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811).....	1,100.13	34.38
28 46 13 31-0568	EA	Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812).....	1,511.95	34.38
28 46 13 31-0569	EA	120 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9813).....	777.61	34.38
28 46 13 31-0570	EA	240 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9823).....	841.36	34.38
28 46 13 31-0571	EA	Battery Meter Module Expansion Module (Simplex 4010-9820).....	316.58	34.38



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28 46 13 31-0572		Printer (28 46 13 31-0548)		
28 46 13 31-0573	EA	24 Pin Dot Matrix Printer (Simplex 4190-9013).....	2,434.05	34.38
28 46 13 31-0574		NAC Panel / Power Booster (28 46 13 31-0548)		
28 46 13 31-0575	EA	120 Volt AC, IDNet NAC Extender With 4, Class B (Style Y) NACs And 8 Amperes Power Supply (Simplex 4009-9201).....	1,580.61	171.90
		Note: Power supply for horns and strobes.		
28 46 13 31-0576		Battery (28 46 13 31-0548)		
28 46 13 31-0577	EA	50 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9296).....	985.19	34.38
		Note: Two required for 24 volt DC.		
28 46 13 31-0578	EA	33 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9276).....	654.94	34.38
		Note: Two required for 24 volt DC.		
28 46 13 31-0579	EA	6.2 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9272).....	236.64	34.38
		Note: Two required for 24 volt DC.		
28 46 13 31-0580		Interface Modules (28 46 13 31-0548)		
28 46 13 31-0581	EA	Supervised Individual Addressable Modules (Simplex 4090-9001).....	191.26	34.38
		Note: Monitor modules for waterflow / tamper, etc.		
28 46 13 31-0582	EA	Relay Individual Addressable Modules (Simplex 4090-9002).....	395.11	34.38
		Note: Control modules for gas shutdown, door holders, etc.		
28 46 13 31-0583	EA	Relay SPDT With LED MR-801/T (Simplex 2088-9032).....	95.22	34.38
		Note: Interface relay for 120VAC		
28 46 13 31-0584	EA	SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815).....	193.50	34.38
28 46 13 31-0585	EA	Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817).....	86.17	17.19
28 46 13 31-0586	EA	Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818).....	81.85	17.19
28 46 13 31-0587		Pull Stations (28 46 13 31-0548)		
28 46 13 31-0588	EA	Addressable Single Action Manual Pull Station (Simplex 4099-9001).....	234.99	34.38
28 46 13 31-0589	EA	N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101).....	168.04	34.38
28 46 13 31-0590	EA	N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102).....	180.98	34.38
28 46 13 31-0591	EA	Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103).....	162.21	34.38
28 46 13 31-0592	EA	N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9104).....	189.62	34.38
28 46 13 31-0593	EA	N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9105).....	288.11	34.38
28 46 13 31-0594	EA	Single Action, Pre-Signal, N.O. Contacts, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9107).....	241.41	34.38
28 46 13 31-0595	EA	Break-Glass, Pre-Signal, N.O. Contacts, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108).....	284.57	34.38
28 46 13 31-0596	EA	Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754).....	132.07	34.38
28 46 13 31-0597	EA	Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755).....	139.97	34.38
28 46 13 31-0598	EA	Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756).....	165.41	34.38
28 46 13 31-0599	EA	N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758).....	257.86	34.38
28 46 13 31-0600	EA	Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759).....	446.94	34.38
28 46 13 31-0601	EA	Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762).....	146.46	34.38
28 46 13 31-0602	EA	Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178).....	90.50	17.19
28 46 13 31-0603		Weatherproof Pull Stations (28 46 13 31-0548)		
28 46 13 31-0604	EA	Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138).....	229.30	41.26
28 46 13 31-0605	EA	Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211).....	147.84	17.19
28 46 13 31-0606		Heat / Smoke Sensor (28 46 13 31-0548)		
28 46 13 31-0607	EA	32 To 122 Degree F Heat Sensor (Simplex 4098-9733).....	230.29	51.57
28 46 13 31-0608	EA	Photoelectric Smoke Sensor (Simplex 4098-9714).....	336.24	51.57
28 46 13 31-0609	EA	Sensor Base With Relay Driver (Simplex 4098-9791).....	658.01	17.19
28 46 13 31-0610	EA	Standard Sensor Base (Simplex 4098-9792).....	334.11	17.19
28 46 13 31-0611	EA	Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737).....	192.05	34.38
		Note: Relay for 4098-9791		
28 46 13 31-0612		Explosion Proof Heat Detector (28 46 13 31-0548)		
28 46 13 31-0613	EA	135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488).....	243.84	51.57
28 46 13 31-0614	EA	Explosion Proof Back Box (Killark JLX-21).....	159.58	17.19
28 46 13 31-0615	EA	Explosion Proof Back Box Plugs (Killark CUP-2).....	14.52	3.44
28 46 13 31-0616		Weatherproof Heat Detector (28 46 13 31-0548)		
28 46 13 31-0617	EA	194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490).....	175.76	51.57
28 46 13 31-0618		200 Degree F Heat Detector (28 46 13 31-0548)		

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0619	EA	194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604).....	145.33	51.57	
Note: Used in kiln rooms and kitchens.					
28 46 13 31-0620		Duct Smoke Sensor (28 46 13 31-0548)			
28 46 13 31-0621	EA	Duct Sensor Housing (Simplex 4098-9755).....	531.61	27.50	
28 46 13 31-0622	EA	Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756)	716.15	61.89	
Note: Relay output for AHU shutdown.					
28 46 13 31-0623	EA	46" To 71" Duct Sampling Tube (Simplex 2098-9798).....	79.40	17.19	
Note: 25", 49", 73" or 97" sampling tube length.					
28 46 13 31-0624	EA	Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806)	188.60	51.57	
28 46 13 31-0625		Interior Horn (28 46 13 31-0548)			
28 46 13 31-0626	EA	Red With White FIRE Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850).....	174.44	51.57	
28 46 13 31-0627	EA	White With Red FIRE Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853).....	174.44	51.57	
28 46 13 31-0628		Interior Horn Strobe (28 46 13 31-0548)			
28 46 13 31-0629	EA	75Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9426)	241.77	51.57	
28 46 13 31-0630	EA	110Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9427)	241.77	51.57	
28 46 13 31-0631	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9127).....	226.41	51.57	
28 46 13 31-0632	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9128).....	226.41	51.57	
28 46 13 31-0633	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9129).....	226.41	51.57	
28 46 13 31-0634	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9130).....	226.41	51.57	
28 46 13 31-0635	EA	Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131).....	231.56	51.57	
28 46 13 31-0636	EA	Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132)	231.56	51.57	
28 46 13 31-0637	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9139).....	240.61	51.57	
28 46 13 31-0638	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9140).....	236.44	51.57	
28 46 13 31-0639	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9141).....	240.61	51.57	
28 46 13 31-0640	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9142).....	236.44	51.57	
28 46 13 31-0641	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9227).....	226.41	51.57	
28 46 13 31-0642	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9228).....	226.41	51.57	
28 46 13 31-0643	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9229).....	226.41	51.57	
28 46 13 31-0644	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9230).....	226.41	51.57	
28 46 13 31-0645		Interior Strobe (28 46 13 31-0548)			
28 46 13 31-0646	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101)	193.78	51.57	
28 46 13 31-0647	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102).....	193.78	51.57	
28 46 13 31-0648	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103)	193.71	51.57	
28 46 13 31-0649	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104).....	193.78	51.57	
28 46 13 31-0650	EA	Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105)	213.29	51.57	
28 46 13 31-0651	EA	Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106)	213.29	51.57	
28 46 13 31-0652	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109)	214.54	51.57	
28 46 13 31-0653	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110).....	217.94	51.57	
28 46 13 31-0654	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111).....	217.94	51.57	
28 46 13 31-0655	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112).....	217.94	51.57	
28 46 13 31-0656	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201).....	193.78	51.57	
28 46 13 31-0657	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202).....	193.78	51.57	
28 46 13 31-0658	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203).....	193.78	51.57	
28 46 13 31-0659	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204).....	193.78	51.57	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0660			Interior Speakers (28 46 13 31-0548)		
28 46 13 31-0661	EA		Red With White FIRE Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716)	157.92	51.57
28 46 13 31-0662	EA		White With Red FIRE Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717)	157.92	51.57
28 46 13 31-0663	EA		Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721)	157.92	51.57
28 46 13 31-0664			Interior Speaker Strobe (28 46 13 31-0548)		
28 46 13 31-0665	EA		Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151)	256.98	51.57
28 46 13 31-0666	EA		White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153)	256.98	51.57
28 46 13 31-0667			Surge Suppressors (28 46 13 31-0548)		
28 46 13 31-0668	EA		Overvoltage Suppressor (Simplex 2081-9044)	165.93	10.31
28 46 13 31-0669	EA		Isolated Loop Circuit Protector (Simplex 2081-9028)	106.14	10.31
28 46 13 31-0670	EA		120 Volt AC, 20 Amperes, Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A)	355.42	10.31
28 46 13 31-0671	EA		24 Volt AC, Data And Loop Circuit Surge Protector (Ditek DTK-2MHL24B)	121.55	10.31
28 46 13 31-0672	EA		Mounting Base For Two DTK-2MHL24B (Ditek DTK-2MB)	183.17	17.19
28 46 13 31-0673	EA		120 Volt AC, 22,500 Amperes, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW)	124.61	10.31
28 46 13 31-0674	EA		<105 Volt AC, 9,000 Amperes, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP)	93.79	10.31
28 46 13 31-0675			Boxes And Adapters (28 46 13 31-0548)		
28 46 13 31-0676	EA		Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921)	81.85	17.19
28 46 13 31-0677	EA		Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925)	77.54	17.19
28 46 13 31-0678	EA		Red, Surface Mount Adapter Skirt (Simplex 4905-9937)	69.08	17.19
28 46 13 31-0679	EA		White, Surface Mount Adapter Skirt (Simplex 4905-9940)	57.07	17.19
28 46 13 31-0680			Accessories (28 46 13 31-0548)		
28 46 13 31-0681	EA		End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008)	39.40	17.19
28 46 13 31-0682			Additional Simplex And STI Fire Alarm Devices (28 46 13 31-0548)		
28 46 13 31-0683	EA		Audible/Visible Notification Appliances, Wall Mount Multi-Candela Horn/Strobe, Red (Simplex 49AV-WRF)	419.15	51.57
28 46 13 31-0684	EA		Single Action Addressable Manual Pull Station - LED (Simplex 4099-9004)	260.28	34.38
28 46 13 31-0685	EA		Test Station With Keyswitch And Red LED Alarm Indicator (Simplex 4098-9834)	197.21	51.57
28 46 13 31-0686	EA		Duct Weatherproof Enclosure (Simplex 4098-9845)	1,177.13	61.89
28 46 13 31-0687	EA		Sampling Tube 49", Plastic (Simplex 4098-9856)	101.41	17.19
28 46 13 31-0688	EA		IDNAC Repeater Platinum (Simplex 4009-9601)	3,170.87	159.80
28 46 13 31-0689	EA		50 Amp Hours, Battery Cabinet, Red (Simplex 2081-9282)	6,692.42	457.96
28 46 13 31-0690	EA		10 Amp Hours, 12 Volt Battery (Simplex 2081-9274)	122.88	34.38
28 46 13 31-0691	EA		MR201/C Relay, DPDT With LED (Simplex 2088-9010)	94.06	27.50
28 46 13 31-0692	EA		Visible Notification Appliances, Wall Mount Multi-Candela Strobes, Red (Simplex 49VO-WRF)	246.78	51.57
28 46 13 31-0693	EA		SSD Adapter Plate (Simplex 4098-9832)	63.11	17.19
28 46 13 31-0694	EA		Backbox/A-V Device, Red (Simplex 2975-9145)	271.59	68.76
28 46 13 31-0695	EA		8-5/16" x 5-3/4" Backbox Adapter Plate, Red (Simplex 4905-9931)	124.88	27.50
28 46 13 31-0696	EA		6-1/16" H x 6-1/16" W x 3-1/8" D, Wire Guard for Wall Mount TrueAlert V/O or A/V, Includes Mounting Plate, Red (Simplex 4905-9961)	79.56	20.63
28 46 13 31-0697	EA		Backbox Manual Station (Simplex 2975-9022)	366.34	68.76
28 46 13 31-0698	EA		Master Controller With InfoAlarm Command Center, 120 VAC, 60 HZ (Simplex 4100-9114)	10,671.74	687.63
28 46 13 31-0699	EA		Remote Fire Alarm LCD Annunciator (Simplex 4603-9101)	1,826.82	51.57
28 46 13 31-0700	EA		Double Action, Addressable Manual Stations, Red Housing with White Letters and White Pull Lever (Simplex 4099-9005)	279.43	34.38
28 46 13 31-0701	EA		Addressable Manual Stations, Red Housing with White Letters and White Pull Lever (Simplex 4099-9002)	423.07	34.38
28 46 13 31-0702			Siemens Fire Alarm (28 46 13 31)		
28 46 13 31-0703			Conventional Control Panels (28 46 13 31-0702)		
28 46 13 31-0704			SXL Batteries And Power Supplies (28 46 13 31-0703)		
28 46 13 31-0705	EA		6 Amperes Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3)	1,402.28	68.76
28 46 13 31-0706	EA		Main Board Only For PAD-3 (Siemens PAD-3-MB)	1,129.49	68.76
28 46 13 31-0707			Digital Fire Communicators (28 46 13 31-0703)		
28 46 13 31-0708	EA		Four Channel Digital Slave Fire Communicator (Siemens 5129)	1,093.53	68.76
28 46 13 31-0709			Addressable Control Panels (28 46 13 31-0702)		
28 46 13 31-0710			Fireseeker Equipment (28 46 13 31-0709)		
28 46 13 31-0711			FS-250 System Panels (28 46 13 31-0710)		
28 46 13 31-0712	EA		FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS-250-EKIT)	3,379.03	687.63
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.					

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0713	EA	FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT).....	4,212.28	687.63	
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.					
28 46 13 31-0714	EA	FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT).....	2,513.75	550.10	
Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.					
28 46 13 31-0715	EA	Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON).....	3,383.99	687.63	
28 46 13 31-0716 FS-250 Optional Modules (28 46 13 31-0710)					
28 46 13 31-0717	EA	Main Board Module (Siemens FS-MB2).....	1,412.20	68.76	
28 46 13 31-0718	EA	Display Board Module (Siemens FS-DB2).....	1,100.40	34.38	
28 46 13 31-0719	EA	Device Loop Card (Siemens FS-DLC).....	902.01	34.38	
28 46 13 31-0720	EA	Releasing Module (Siemens FS-REL).....	401.07	34.38	
28 46 13 31-0721	EA	Remote LCD Annunciator (Siemens FS-RD2).....	895.81	34.38	
28 46 13 31-0722	EA	Relay Processor Card (Siemens FS-RU2).....	778.01	34.38	
28 46 13 31-0723	EA	Relay Expander Board (Siemens FS-RE8).....	663.94	34.38	
28 46 13 31-0724	EA	Serial Annunciator Processor Card (Siemens FS-SAU2).....	895.81	34.38	
28 46 13 31-0725	EA	16 Output Annunciator Extender (Siemens FS-SAE16).....	698.65	34.38	
28 46 13 31-0726	EA	Digital Alarm Communication Transmitter (Siemens FS-DACT).....	635.42	34.38	
28 46 13 31-0727	EA	Municipal Tie Module (Siemens FS-MT).....	539.94	34.38	
28 46 13 31-0728	EA	Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2).....	493.40		
28 46 13 31-0729	EA	Programming Cable Kit (Siemens CBL-UD).....	129.86	17.19	
28 46 13 31-0730	EA	Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE).....	233.67	34.38	
28 46 13 31-0731	EA	Releasing Power Transformer (Siemens FS-RPT-A).....	237.39	34.38	
28 46 13 31-0732	EA	Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB).....	268.28	27.50	
28 46 13 31-0733	EA	Cabinet Trim Kit (Siemens RD-CAB-TK).....	436.12	17.19	
28 46 13 31-0734 Firefinder Systems (28 46 13 31-0709)					
28 46 13 31-0735 XLS Basic Fire System Packages Without Back Box (28 46 13 31-0734)					
28 46 13 31-0736	EA	500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-500-ID-SP).....	11,867.88	687.63	
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.					
28 46 13 31-0737	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-ID-SP).....	10,451.86	687.63	
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.					
28 46 13 31-0738	EA	250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP).....	10,451.86	687.63	
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.					
28 46 13 31-0739	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD).....	17,489.82	687.63	
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.					
28 46 13 31-0740	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3-BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD).....	18,077.55	687.63	
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.					
28 46 13 31-0741	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP).....	10,309.27	687.63	
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.					
28 46 13 31-0742	EA	250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP).....	10,309.27	687.63	
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.					
28 46 13 31-0743	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP).....	11,965.84	687.63	
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.					
28 46 13 31-0744 Firefinder - XLS Basic System Equipment (28 46 13 31-0734)					
28 46 13 31-0745	EA	Person Machine Interface With Central Processor (Siemens PMI).....	5,508.02	687.63	
Note: Includes inner door.					
28 46 13 31-0746	EA	Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC).....	9,167.12	687.63	
Note: Includes inner door.					
28 46 13 31-0747	EA	Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT).....	5,508.02	687.63	
Note: Includes inner door.					
28 46 13 31-0748	EA	Two Slot Card Cage (Siemens CC-2).....	683.78	34.38	
28 46 13 31-0749	EA	Five Slot Card Cage (Siemens CC-5).....	1,156.20	34.38	
28 46 13 31-0750	EA	Four Circuit Zone Indicating Card (Siemens ZIC-4A).....	1,652.18	34.38	



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28 46 13 31-0751 EA Eight Circuit Zone Indicating Card (Siemens ZIC-8B).....	1,725.33	34.38
28 46 13 31-0752 EA Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C).....	544.90	34.38
28 46 13 31-0753 EA Device Loop Card (Siemens DLC)..... Note: Interfaces with up to 252 detectors and devices.	1,958.44	34.38
28 46 13 31-0754 EA Controllable Relay Card (Siemens CRC-6) Note: Provides six programmable relays.	1,109.08	34.38
28 46 13 31-0755 EA 12 Amperes Power Supply Charger Module (Siemens PSC-12).....	4,201.51	34.38
28 46 13 31-0756 EA Person Machine Interface With Central Processor And GPMI-UK Software Upgrade Kit (Siemens GPMI)	7,162.12	687.63
28 46 13 31-0757 EA Network Interface Card (Siemens NIC-C)..... Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.	1,297.55	34.38
28 46 13 31-0758 EA 12 Amperes Power Supply Extender (Siemens PSX-12) Note: Extends PSC-12 with an additional 24 volt DC.	3,494.74	34.38
28 46 13 31-0759 EA Power Termination Board (Siemens PTB)..... Note: Used with systems requiring more than one PSX-12.	589.54	34.38
28 46 13 31-0760 EA Conventional Detector Card (Siemens CDC-4)	1,250.43	34.38
28 46 13 31-0761 EA Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS).....	2,449.46	34.38
28 46 13 31-0762 EA Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS)	8,807.93	34.38
28 46 13 31-0763 Remote Lobby Enclosure (28 46 13 31-0734)		
28 46 13 31-0764 EA 14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2)	1,622.89	137.53
28 46 13 31-0765 EA 24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4)	2,094.07	137.53
28 46 13 31-0766 EA Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP)	258.47	34.38
28 46 13 31-0767 EA Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP)	282.03	34.38
28 46 13 31-0768 Battery Enclosures (28 46 13 31-0734)		
28 46 13 31-0769 EA Enclosure For 100 Ampere Hours Batteries (Siemens CAB-BATT)	1,007.87	137.53
28 46 13 31-0770 Graphic Annunciator Output Drivers And Inputs (28 46 13 31-0734)		
28 46 13 31-0771 EA Output Control Module (Siemens OCM-16).....	801.57	34.38
28 46 13 31-0772 EA Supervised Input Module (Siemens SIM-16)	801.57	34.38
28 46 13 31-0773 Remote LCD Displays (28 46 13 31-0734)		
28 46 13 31-0774 EA Remote LED/LCD System Status Display (Siemens SSD)..... Note: No control or menu capability.	1,859.14	103.14
28 46 13 31-0775 EA Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C).....	2,095.97	103.14
28 46 13 31-0776 Voice Equipment (28 46 13 31-0734)		
28 46 13 31-0777 EA 40 Watts Zone Amplifier Card (Siemens ZAC-40)	1,844.37	34.38
28 46 13 31-0778 EA 180 Watts Zone Amplifier Module (Siemens ZAM-180).....	4,084.96	34.38
28 46 13 31-0779 EA Live Voice Module (Siemens LVM)..... Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.	1,721.61	34.38
28 46 13 31-0780 MXL Series Equipment (28 46 13 31-0709)		
28 46 13 31-0781 MXL Optional Equipment (28 46 13 31-0780)		
28 46 13 31-0782 EA Two Circuit Analog Loop Driver (Siemens ALD-21).....	1,987.54	68.76
28 46 13 31-0783 EA CXL/MXL Interface Module (Siemens CMI-300).....	5,127.76	34.38
28 46 13 31-0784 EA Four Relay Programmable Relay Module (Siemens CRM-4)	882.17	34.38
28 46 13 31-0785 EA Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4).....	1,064.44	34.38
28 46 13 31-0786 EA Remote Conventional Zone Module (Siemens CZM-1B6).....	402.31	34.38
28 46 13 31-0787 EA Short Circuit Line Isolator Module (Siemens Model LIM-1).....	249.79	34.38
28 46 13 31-0788 EA Four Circuit Conventional Zone Module (Siemens CZM-4)	1,035.92	34.38
28 46 13 31-0789 EA 12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD).....	375.93	51.57
28 46 13 31-0790 EA Lexan Window For RCC (Siemens GENBOX-WD)	254.64	27.50
28 46 13 31-0791 EA Input Driver Module (Siemens MID-16)	680.06	34.38
28 46 13 31-0792 EA Programmable Output Driver Module (Siemens MOD-16)	680.06	34.38
28 46 13 31-0793 EA MXL Output/Input Module (Siemens MOI-7).....	1,086.76	34.38
28 46 13 31-0794 EA Two Slot Network Option Module Card Cage (Siemens MOM-2).....	579.62	34.38
28 46 13 31-0795 EA Four Slot Network Option Module Card Cage (Siemens MOM-4)	910.69	34.38
28 46 13 31-0796 EA 12 Amperes, 220 Volt AC, Power Supply For MXL (Siemens MPS-12/220)	2,241.05	103.14
28 46 13 31-0797 EA 12 Amperes, 240 Volt AC, Power Supply For MXL (Siemens MPS-12/240)	2,241.05	103.14
28 46 13 31-0798 EA Network Interface Module (Siemens NIM-1W).....	1,619.94	34.38
28 46 13 31-0799 EA U.L. Listed Parallel Printer (Siemens PAL-1).....	4,242.90	137.53
28 46 13 31-0800 EA Peripheral Interface Module, Model PIM-1 (Siemens 500-691324).....	476.70	34.38
28 46 13 31-0801 EA Surface Mounted Remote Command Center (Siemens RCC-1).....	4,679.74	687.63
28 46 13 31-0802 EA Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL).....	575.23	68.76
28 46 13 31-0803 EA Flush Mounted Remote Command Center (Siemens RCC-1F).....	4,679.74	687.63
28 46 13 31-0804 EA Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL)	590.11	68.76

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28 46 13 31-0805 EA Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2).....	3,607.18	687.63
28 46 13 31-0806 EA MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3).....	5,379.07	687.63
28 46 13 31-0807 EA RCC-2/RSE-1 Trim Ring (Siemens RCF-1).....	90.18	17.19
28 46 13 31-0808 EA Remote Diagnostics Module For MXL (Siemens RDM-MXL).....	6,585.27	68.76
28 46 13 31-0809 EA Remote Diagnostics Module For PC (Siemens RDM-PC).....	14,021.25	68.76
28 46 13 31-0810 EA Releasing End Of Line Module (Siemens REL-EOL).....	203.91	34.38
28 46 13 31-0811 EA 36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC).....	4,200.85	68.76
28 46 13 31-0812 EA 36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL).....	4,011.13	68.76
28 46 13 31-0813 EA 8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1).....	2,136.22	137.53
28 46 13 31-0814 Complete MXL And MXLV System Packages Without Enclosure (28 46 13 31-0780)		
28 46 13 31-0815 EA MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB-2, One MPS-6, One MOM-2, One ALD-2I And One PIM-1 (Siemens MXL-SS-EP).....	15,457.54	687.63
Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-2I is a two circuit analog loop driver. PIM-1 is a peripheral interface module.		
28 46 13 31-0816 EA MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM-2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP).....	20,104.87	687.63
Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.		
28 46 13 31-0817 EA MXLV Demonstration Panel (Siemens MXLV DEMO).....	41,808.95	687.63
28 46 13 31-0818 MXL Basic System (28 46 13 31-0780)		
28 46 13 31-0819 EA MXL/MXLV Main Control Board (Siemens MMB-3).....	9,609.93	687.63
28 46 13 31-0820 EA MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL).....	12,386.18	687.63
Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.		
28 46 13 31-0821 EA MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2).....	3,543.67	68.76
28 46 13 31-0822 EA MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5).....	4,438.92	68.76
28 46 13 31-0823 EA 6 Amperes Power Supply For MXL (Siemens MPS-6).....	1,545.44	103.14
28 46 13 31-0824 EA 220/240 Volt AC Adapter Cable (Siemens CIA-12).....	114.98	17.19
28 46 13 31-0825 MXL/MXLV System Expansion Accessories (28 46 13 31-0780)		
28 46 13 31-0826 EA MXL Remote Power Supply Module (Siemens PSR-1).....	1,896.34	103.14
28 46 13 31-0827 EA Style 4 Communication Module (Siemens NET-4).....	389.91	34.38
28 46 13 31-0828 EA Style 7 Communication Module (Siemens NET-7).....	708.57	34.38
28 46 13 31-0829 EA MXL/MXLV IQ/MXLV Intelligent Control Point, B6 Chip (Siemens ICP-B6).....	425.87	34.38
28 46 13 31-0830 Peripheral Devices (28 46 13 31-0709)		
28 46 13 31-0831 Thermal Detectors (28 46 13 31-0830)		
28 46 13 31-0832 EA Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R).....	163.90	51.57
28 46 13 31-0833 EA Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R).....	163.90	51.57
28 46 13 31-0834 EA 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F).....	163.90	51.57
28 46 13 31-0835 EA 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F).....	163.90	51.57
28 46 13 31-0836 EA Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP).....	256.89	51.57
28 46 13 31-0837 EA Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP).....	256.89	51.57
28 46 13 31-0838 EA Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP).....	632.60	51.57
28 46 13 31-0839 Beam Smoke Detector (28 46 13 31-0830)		
28 46 13 31-0840 EA Linear Beam Smoke Detector (Siemens PBA-1191).....	2,989.76	51.57
28 46 13 31-0841 EA Base For Linear Beam Smoke Detector (Siemens PBB-1191).....	341.89	17.19
28 46 13 31-0842 EA 20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192).....	345.61	17.19
28 46 13 31-0843 EA 10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193).....	176.97	17.19
28 46 13 31-0844 Bases For Detectors (28 46 13 31-0830)		
28 46 13 31-0845 EA Detector Base (Siemens DB-11).....	52.98	17.19
28 46 13 31-0846 EA Universal Base (Siemens DB-3S).....	49.26	17.19
28 46 13 31-0847 Manual Stations (28 46 13 31-0830)		
28 46 13 31-0848 EA Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP).....	378.87	41.26
28 46 13 31-0849 Addressable Devices (28 46 13 31-0709)		
28 46 13 31-0850 Intelligent Detectors And Devices For Firefinder XLS And FS-250 (28 46 13 31-0849)		
28 46 13 31-0851 EA Addressable Fireprint Fire Detector (Siemens HFP-11).....	316.41	51.57
28 46 13 31-0852 EA Addressable Thermal Fire Detector (Siemens HFPT-11).....	273.01	51.57
28 46 13 31-0853 EA Relay Base For H-Series Intelligent Detectors (Siemens DB-HR).....	222.18	51.57



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28 46 13 31-0854 EA Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC)	149.02	51.57
28 46 13 31-0855 EA Wall Mounted Remote Alarm Indicator (Siemens RL-HW)	149.02	51.57
28 46 13 31-0856 EA Addressable Single Action Manual Pull Station (Siemens HMS-S)	330.39	34.38
28 46 13 31-0857 EA Addressable Double Action Manual Pull Station (Siemens HMS-D)	315.51	34.38
28 46 13 31-0858 EA Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S)	249.79	34.38
28 46 13 31-0859 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D)	305.59	34.38
28 46 13 31-0860 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R)	305.59	34.38
28 46 13 31-0861 EA Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M)	231.19	34.38
28 46 13 31-0862 EA Line Isolator Module (Siemens HLIM)	238.63	34.38
28 46 13 31-0863 EA Remote Convention Zone Module (Siemens HZM)	352.71	34.38
28 46 13 31-0864 EA Intelligent Control Point Module (Siemens HCP)	446.94	34.38
28 46 13 31-0865 EA Handheld Programming And Testing Unit (Siemens DPU)	1,968.70	
28 46 13 31-0866 EA DPU Carrying Case (Siemens DPU-C1)	303.34	
28 46 13 31-0867 EA Label Printer And Carrying Case (Siemens DPU-PR)	3,371.99	34.38
28 46 13 31-0868 Air Duct Housings And Detectors (28 46 13 31-0849)		
28 46 13 31-0869 EA Air-Duct Housing (Siemens AD2-P)	361.28	27.50
28 46 13 31-0870 EA Air-Duct Housing With Relay (Siemens AD2-XHR)	408.40	27.50
28 46 13 31-0871 EA Weatherproof Enclosure For Duct Housing (Siemens WP-2000)	327.91	34.38
28 46 13 31-0872 EA 6" To 1' Duct Sampling Tube (Siemens ST-10)	45.43	10.31
28 46 13 31-0873 EA >1' To 3' Duct Sampling Tube (Siemens ST-25)	56.02	13.76
28 46 13 31-0874 EA >3' To 5' Duct Sampling Tube (Siemens ST-50)	70.34	17.19
28 46 13 31-0875 EA >5' To 10' Duct Sampling Tube (Siemens ST-100)	82.18	20.63
28 46 13 31-0876 Intelligent Initiating Devices For MXL, MXL-LQ And MXLV (28 46 13 31-0849)		
28 46 13 31-0877 EA Addressable Fireprint Fire Detector (Siemens FP-11)	330.05	51.57
28 46 13 31-0878 EA Addressable Thermal Fire Detector (Siemens FPT-11)	284.17	51.57
28 46 13 31-0879 EA Intelligent Ionization Smoke Detector (Siemens ILI-1)	364.77	51.57
28 46 13 31-0880 EA Addressable Single Action Manual Pull Station (Siemens MSI-10B)	321.71	34.38
28 46 13 31-0881 EA Addressable Double Action Manual Pull Station (Siemens MSI-20B)	355.19	34.38
28 46 13 31-0882 EA Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S)	325.43	34.38
28 46 13 31-0883 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D)	360.15	34.38
28 46 13 31-0884 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R)	360.15	34.38
28 46 13 31-0885 Detector Universal Bases (28 46 13 31-0849)		
28 46 13 31-0886 EA Detector Base With Relay (Siemens DB-X11RS)	152.18	17.19
28 46 13 31-0887 EA PE-11 To DB-3 Base Adapter (Siemens DB-ADPT)	77.78	17.19
28 46 13 31-0888 EA Locking Kit (Siemens LK-11)	14.75	
28 46 13 31-0889 EA Detector Base With Relay (Siemens DB-X3RS)	152.18	17.19
28 46 13 31-0890 EA Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11)	176.97	17.19
28 46 13 31-0891 EA Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX)	74.06	17.19
28 46 13 31-0892 EA Flush Trim Ring For Bases (Siemens RA-ADB)	35.51	10.31
28 46 13 31-0893 EA Seal For DB-11 (Siemens DB11-SEAL)	17.74	
28 46 13 31-0894 EA Gasket For DB-11 (Siemens DB-SEAL)	19.37	
28 46 13 31-0895 EA Detector Guard Housing (Siemens DGH-11)	222.85	17.19
28 46 13 31-0896 EA Small Detector Base (Siemens DB-11E)	57.94	17.19
28 46 13 31-0897 EA Audible Base For Series 3 (Siemens ADBI-60A)	199.29	17.19
28 46 13 31-0898 EA Base Plug (Siemens DB-11-DP)	14.70	
28 46 13 31-0899 Air Duct Smoke Detectors (28 46 13 31-0849)		
28 46 13 31-0900 EA Intelligent Remote Duct Relay Module (Siemens DA-X3SR)	169.20	34.38
28 46 13 31-0901 EA Weatherproof Enclosure For Duct Housing (Siemens EAD-3)	871.01	34.38
28 46 13 31-0902 Notification Devices (28 46 13 31-0709)		
28 46 13 31-0903 Synchronization Control Devices (28 46 13 31-0902)		
28 46 13 31-0904 EA Dual Synchronization Control Module (Siemens DSC)	249.79	34.38
28 46 13 31-0905 Stand-Alone Strobes (28 46 13 31-0902)		
28 46 13 31-0906 EA Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R)	208.54	51.57
28 46 13 31-0907 EA Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R)	227.14	51.57
28 46 13 31-0908 EA Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR)	208.54	51.57
28 46 13 31-0909 EA Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR)	227.14	51.57
28 46 13 31-0910 EA Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW)	227.14	51.57
28 46 13 31-0911 EA Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW)	208.54	51.57
28 46 13 31-0912 EA Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R)	240.77	51.57
28 46 13 31-0913 EA Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP)	230.85	51.57
28 46 13 31-0914 EA Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP)	230.85	51.57
28 46 13 31-0915 EA Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP)	246.97	51.57
28 46 13 31-0916 EA Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP)	246.97	51.57
28 46 13 31-0917 Horns And Strobes (28 46 13 31-0902)		
28 46 13 31-0918 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R)	281.69	51.57

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28 46 13 31-0919 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R)	297.81	51.57
28 46 13 31-0920 EA Wall Mounted Horn (Siemens SE-R)	163.90	51.57
28 46 13 31-0921 EA Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR)	281.69	51.57
28 46 13 31-0922 EA Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR)	297.81	51.57
28 46 13 31-0923 EA Ceiling Mounted Horn (Siemens SEC-R)	171.34	51.57
28 46 13 31-0924 EA Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R)	281.69	51.57
28 46 13 31-0925 EA Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R)	297.81	51.57
28 46 13 31-0926 EA Wall Mounted Low Profile Horn (Siemens SEF-R)	163.90	51.57
28 46 13 31-0927 EA Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW)	281.69	51.57
28 46 13 31-0928 EA Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW)	297.81	51.57
28 46 13 31-0929 EA Ceiling Mounted Low Profile Horn (Siemens SEF-CR)	171.34	51.57
28 46 13 31-0930 EA Mini Horn (Siemens MH-R)	136.62	51.57
28 46 13 31-0931 EA Indoor/Outdoor Multi Tone Horn (Siemens MTH-R)	173.82	51.57
28 46 13 31-0932 EA Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R)	265.57	51.57
28 46 13 31-0933 EA Industrial Tri-Tone Horn (Siemens ASR)	754.11	51.57
28 46 13 31-0934 EA Wall Mounted Horn (Siemens HS-R)	173.82	51.57
28 46 13 31-0935 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R)	266.81	51.57
28 46 13 31-0936 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R)	286.65	51.57
28 46 13 31-0937 EA 6" Motor Bell (Siemens MBDC-6)	198.62	51.57
28 46 13 31-0938 EA 10" Motor Bell (Siemens MBDC-10)	217.22	51.57
28 46 13 31-0939 Mounting Accessories (28 46 13 31-0902)		
28 46 13 31-0940 EA Concealed Conduit Adapter Plate (Siemens APS-R)	49.26	17.19
28 46 13 31-0941 EA 4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R)	49.26	17.19
28 46 13 31-0942 EA 4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R)	50.50	17.19
28 46 13 31-0943 EA Red Weatherproof Surface Mount Back Box (Siemens MT-SUR-BOX)	80.26	17.19
28 46 13 31-0944 EA White Weatherproof Surface Mount Back Box (Siemens MT-SUR-BOX-W)	64.14	17.19
28 46 13 31-0945 EA Surface Mounted Speaker Back Box (Siemens SBBS-R)	67.86	17.19
28 46 13 31-0946 EA Surface Mounted Speaker Back Box (Siemens SBL2S-R)	72.82	17.19
28 46 13 31-0947 EA Square Semi-Flush Extension Ring (Siemens SERS-R)	57.94	17.19
28 46 13 31-0948 EA Semi-Flush Plate (Siemens SFPS-R)	48.02	17.19
28 46 13 31-0949 EA Square Surface Back Box (Siemens SHBBS-R)	57.94	17.19
28 46 13 31-0950 EA Horn Adapter Plate (Siemens SHMPS-R)	55.46	17.19
28 46 13 31-0951 EA Ceiling Speaker Extension Ring (Siemens SPEXT-R)	49.26	17.19
28 46 13 31-0952 EA Wall Mounted Surface Mounted Speaker Back Box (Siemens SPSB-R)	64.14	17.19
28 46 13 31-0953 EA Wall Mounted Surface Mounted Speaker/Strobe Back Box (Siemens SPSSB-R)	67.86	17.19
28 46 13 31-0954 EA Weatherproof Speaker Back Box (Siemens WBBS-R)	65.38	17.19
28 46 13 31-0955 EA Weatherproof Speaker Back Box With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B)	72.82	17.19
28 46 13 31-0956 EA Weatherproof Flush Plate (Siemens WFPAS-R)	72.82	17.19
28 46 13 31-0957 EA Weatherproof Horn Flush Plate (Siemens WFPS-R)	72.82	17.19
28 46 13 31-0958 EA Weatherproof Horn Back Box (Siemens WPBBS-R)	67.86	17.19
28 46 13 31-0959 EA Weatherproof Strobe Back Box (Siemens WPSBBS-R)	67.86	17.19
28 46 13 31-0960 EA Surface Mounted Weatherproof Back Box Kit (Siemens WPS-KIT)	49.26	17.19
28 46 13 31-0961 EA Z Series Back Box (Siemens ZBB-R)	55.46	17.19
28 46 13 31-0962 Door Holders (28 46 13 31-0902)		
28 46 13 31-0963 EA 120 Volt AC Concealed Wiring Fire Door Holder (Siemens SDH-2A)	423.05	51.57
28 46 13 31-0964 EA 24 Volt DC Concealed Wiring Fire Door Holder (Siemens SDH-2D)	423.05	51.57
28 46 13 31-0965 Voice Equipment (28 46 13 31-0709)		
28 46 13 31-0966 Voicecom (28 46 13 31-0965)		
28 46 13 31-0967 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM)	6,477.66	687.63
28 46 13 31-0968 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L)	10,259.51	687.63
28 46 13 31-0969 Johnson Controls Fire Alarm (28 46 13 31)		
28 46 13 31-0970 EA Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J)	247.67	51.57
28 46 13 31-0971 EA Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J)	244.98	51.57
28 46 13 31-0972 EA Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ)	306.54	51.57
28 46 13 31-0973 EA Acclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ)	305.69	51.57
28 46 13 31-0974 EA 411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD)	844.24	68.76
28 46 13 31-0975 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ)	233.94	51.57
28 46 13 31-0976 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J)	208.47	51.57
28 46 13 31-0977 EA Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ)	203.07	51.57
28 46 13 31-0978 EA Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J)	618.25	51.57
28 46 13 31-0979 EA 100 Watts Audio Amplifier At 70.7 VRMS With Built-in Tone Generator, 120 Volt AC (Johnson Controls, Inc. #AA-100)	3,014.61	103.14
28 46 13 31-0980 EA AUDIO Amplifier, 100 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-100E)	2,920.70	103.14
28 46 13 31-0981 EA 120 Watts Audio Amplifier At 25 VRMS With Built-in Tone Generator, 120 Voltage AC (Johnson Controls, Inc. #AA-120)	2,971.36	103.14
28 46 13 31-0982 EA AUDIO Amplifier, 120 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-120E)	2,844.86	103.14



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0983 EA 30 Watts Audio Amplifier At 25 VRMS, 120 Voltage AC (Johnson Controls, Inc. #AA-30).....	1,383.44	103.14
28 46 13 31-0984 EA AUDIO Amplifier, 30 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-30E).....	1,383.44	103.14
28 46 13 31-0985 EA Annunciator Control Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT).....	1,388.06	34.38
28 46 13 31-0986 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT).....	1,443.82	34.38
28 46 13 31-0987 EA Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A).....	1,060.13	34.38
28 46 13 31-0988 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A).....	1,060.13	34.38
28 46 13 31-0989 EA Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R).....	747.38	34.38
28 46 13 31-0990 EA Charger Power Supply - 6 Or 10 Amperes; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610).....	2,412.16	68.76
28 46 13 31-0991 EA Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT).....	1,060.13	34.38
28 46 13 31-0992 EA Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT).....	1,102.04	34.38
28 46 13 31-0993 EA Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A).....	950.16	34.38
28 46 13 31-0994 EA Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A).....	950.16	34.38
28 46 13 31-0995 EA Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #AFAWS-BX).....	158.56	30.94
28 46 13 31-0996 EA Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM).....	1,453.05	68.76
28 46 13 31-0997 EA Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS).....	3,170.37	68.76
28 46 13 31-0998 EA Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM).....	1,453.05	68.76
28 46 13 31-0999 EA Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS).....	3,170.37	68.76
28 46 13 31-1000 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP).....	57.12	17.19
28 46 13 31-1001 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI).....	154.96	17.19
28 46 13 31-1002 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB).....	146.11	17.19
28 46 13 31-1003 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401).....	60.90	17.19
28 46 13 31-1004 EA Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J).....	54.62	17.19
28 46 13 31-1005 EA Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100).....	1,058.85	68.76
28 46 13 31-1006 EA Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224).....	2,480.92	103.14
28 46 13 31-1007 EA Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S).....	2,623.10	103.14
28 46 13 31-1008 EA Mounting Kit, Long RG, Beam. (Johnson Controls, Inc. #BeamLRK).....	290.28	17.19
28 46 13 31-1009 EA Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK).....	195.51	17.19
28 46 13 31-1010 EA Digital Audio Amplifier, 50 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-5025).....	2,483.02	103.14
28 46 13 31-1011 EA Digital Audio Amplifier, 50 Watts, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F).....	2,291.36	103.14
28 46 13 31-1012 EA Digital Audio Amplifier, 50 Watts, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF).....	2,291.36	103.14
28 46 13 31-1013 EA Digital Audio Amplifier, 50 Watts, 70 VRMS (Johnson Controls, Inc. #DAA-5070).....	2,690.03	103.14
28 46 13 31-1014 EA Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E).....	2,480.92	103.14
28 46 13 31-1015 EA Digital Audio Amplifier, 50 Watts, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F).....	2,480.92	103.14
28 46 13 31-1016 EA Digital Audio Amplifier, 50 Watts, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF).....	2,480.92	103.14
28 46 13 31-1017 EA Digital Audio Amplifier, 75 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-7525).....	2,968.34	103.14
28 46 13 31-1018 EA Digital Audio Amplifier, 75 Watts, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F).....	2,968.34	103.14
28 46 13 31-1019 EA Digital Audio Amplifier, 75 Watts, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF).....	2,968.34	103.14
28 46 13 31-1020 EA Innovairflex Intelligent. (Johnson Controls, Inc. #DNR).....	307.72	34.38
28 46 13 31-1021 EA Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW).....	473.47	34.38
28 46 13 31-1022 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1).....	42.60	13.76
28 46 13 31-1023 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5).....	46.51	13.76
28 46 13 31-1024 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10).....	114.17	20.63
28 46 13 31-1025 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3).....	55.24	13.76
28 46 13 31-1026 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5).....	68.21	17.19
28 46 13 31-1027 EA Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO).....	476.28	34.38
28 46 13 31-1028 EA Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD).....	791.51	68.76
28 46 13 31-1029 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4).....	655.84	103.14
28 46 13 31-1030 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4).....	911.10	103.14
28 46 13 31-1031 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPs-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4).....	996.40	103.14
28 46 13 31-1032 EA Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQDR-B4).....	528.48	13.76
28 46 13 31-1033 EA Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQDR-C4).....	797.06	13.76
28 46 13 31-1034 EA Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQDR-D4).....	876.05	13.76
28 46 13 31-1035 EA 6.0 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S6).....	1,054.30	137.53
Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46 13 31-1036 EA 8 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S8).....	1,385.20	137.53
Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46 13 31-1037 EA 80 Character Display Annunciator. "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FDU-80G).....	1,315.19	103.14
28 46 13 31-1038 EA Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS).....	242.90	17.19
28 46 13 31-1039 EA Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R).....	688.60	34.38
28 46 13 31-1040 EA Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980).....	362.66	51.57
28 46 13 31-1041 EA Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996).....	295.43	51.57
28 46 13 31-1042 EA Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998).....	310.73	51.57

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28 46 13 31-1043 EA Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200).....	2,529.07	68.76
28 46 13 31-1044 EA Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S).....	3,090.07	68.76
28 46 13 31-1045 EA Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J).....	932.99	34.38
28 46 13 31-1046 EA IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amperes Power Supply, 120 Volt AC, (Johnson Controls, Inc. #IFC-320)	6,336.23	550.10
Note: Includes Door, Dress Panel And Back Box, Black		
28 46 13 31-1047 EA Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG).....	3,117.30	68.76
28 46 13 31-1048 EA Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #IFI)	41,211.21	825.16
28 46 13 31-1049 EA Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F)	45,002.26	825.16
28 46 13 31-1050 EA Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP).....	50,688.85	825.16
28 46 13 31-1051 EA Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W).....	45,002.26	825.16
28 46 13 31-1052 EA Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B)	302.85	20.63
28 46 13 31-1053 EA Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB).....	340.76	20.63
28 46 13 31-1054 EA Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B).....	371.09	20.63
28 46 13 31-1055 EA Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B)	693.33	20.63
28 46 13 31-1056 EA Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB)	224.62	13.76
28 46 13 31-1057 EA Surface (or Semi-flush) Mount Back Box (Johnson Controls, Inc. #JABS-2D)	350.64	30.94
Note: Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black.		
28 46 13 31-1058 EA Surface (or Semi-flush) Mount Back Box (Johnson Controls, Inc. #JABS-2DR).....	372.38	30.94
Note: Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red.		
28 46 13 31-1059 EA Surface (or Semi-flush) Mount INA, ACS, Or SCS Back Box, Black. (Johnson Controls, Inc. #JABS-4D).....	683.61	30.94
28 46 13 31-1060 EA Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4)	681.48	13.76
28 46 13 31-1061 EA Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4).....	918.42	13.76
28 46 13 31-1062 EA Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4).....	1,136.40	13.76
28 46 13 31-1063 EA Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX)	320.24	34.38
28 46 13 31-1064 EA Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP2-4).....	149.41	13.76
28 46 13 31-1065 EA JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D).....	6,321.88	550.10
28 46 13 31-1066 EA Central Processing Unit For The JCPU2-640 With Integral 120 Volt AC Power Supply (Johnson Controls, Inc. #JCPU2-640).....	4,564.29	412.58
Note: Includes CHS2-M2 Chassis		
28 46 13 31-1067 EA Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D).....	8,203.77	550.10
28 46 13 31-1068 EA Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640).....	7,876.67	412.58
28 46 13 31-1069 EA Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E).....	5,678.26	412.58
28 46 13 31-1070 EA Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM).....	3,104.35	51.57
28 46 13 31-1071 EA Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF).....	3,135.98	51.57
28 46 13 31-1072 EA Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF).....	3,135.98	51.57
28 46 13 31-1073 EA Annunciator, Network Control. (Johnson Controls, Inc. #JNCA).....	3,711.57	68.76
28 46 13 31-1074 EA Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems, The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. (Johnson Controls, Inc. #JNCA-2)	3,145.73	68.76
Note: Mounting Includes: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box, Such As The ABS-2DB (requires The CHS-2D).		
28 46 13 31-1075 EA Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP).....	2,720.70	412.58
28 46 13 31-1076 EA 160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD- 160)	2,235.16	68.76
28 46 13 31-1077 EA 80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80).....	1,838.92	68.76
28 46 13 31-1078 EA Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC- 3030 Only. (Johnson Controls, Inc. #LCM-320).....	2,958.81	68.76
28 46 13 31-1079 EA Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32).....	915.78	17.19
28 46 13 31-1080 EA Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24)	294.75	13.76
28 46 13 31-1081 EA Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48)	362.99	13.76
28 46 13 31-1082 EA Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32).....	737.64	17.19
28 46 13 31-1083 EA Relay Module. 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32).....	1,353.68	17.19
28 46 13 31-1084 EA Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320)	2,452.64	17.19
28 46 13 31-1085 EA Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ).....	192.44	17.19
28 46 13 31-1086 EA Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ).....	306.55	17.19
28 46 13 31-1087 EA Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry- contact Input Devices. (Johnson Controls, Inc. #M300MJ).....	151.10	17.19
28 46 13 31-1088 EA Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ).....	211.97	17.19
28 46 13 31-1089 EA Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devices. (Johnson Controls, Inc. #M301MJ).....	167.09	17.19
28 46 13 31-1090 EA Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ).....	272.37	17.19
28 46 13 31-1091 EA Addressable Firephone Control Module With Flashscan. (Johnson Controls, Inc. #M500FPJ).....	310.59	17.19
28 46 13 31-1092 EA SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ).....	175.22	17.19



Electronic Safety and Security			28	28
Life Safety			28 40	
Fire Detection and Alarm			28 46	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1093	EA		Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W)	2,590.07	51.57
28 46 13 31-1094	EA		Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F)	2,303.57	34.38
28 46 13 31-1095	EA		Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232W)	2,129.19	34.38
28 46 13 31-1096	EA		Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO)	80.10	6.87
28 46 13 31-1097	EA		Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, etc.) (Johnson Controls, Inc. #NCM-F)	1,862.70	34.38
28 46 13 31-1098	EA		Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, etc.) (Johnson Controls, Inc. #NCM-W)	1,773.74	34.38
28 46 13 31-1099	EA		NFV-25/50. (Johnson Controls, Inc. #NFV-25/50)	4,528.23	68.76
28 46 13 31-1100	EA		NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U)	1,258.04	34.38
28 46 13 31-1101	EA		Key Switch, Remote Control. (Johnson Controls, Inc. #RKS-S)	344.03	13.76
28 46 13 31-1102	EA		Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1)	794.76	34.38
28 46 13 31-1103	EA		Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA)	794.76	34.38
28 46 13 31-1104	EA		Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1)	213.28	13.76
28 46 13 31-1105	EA		SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB)	56.62	6.87
28 46 13 31-1106	EA		SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC)	56.62	6.87
28 46 13 31-1107	EA		Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCR)	216.89	51.57
28 46 13 31-1108	EA		Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCRH)	243.41	51.57
28 46 13 31-1109	EA		Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK)	287.50	58.44
28 46 13 31-1110	EA		Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK)	283.69	58.44
28 46 13 31-1111	EA		Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8)	1,903.33	137.53
28 46 13 31-1112	EA		Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L)	1,486.29	137.53
28 46 13 31-1113	EA		Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW)	216.89	51.57
28 46 13 31-1114	EA		Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCWH)	243.41	51.57
28 46 13 31-1115	EA		Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW-P)	216.89	51.57
28 46 13 31-1116	EA		Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500)	39.54	13.76
28 46 13 31-1117	EA		SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON)	44.18	6.87
28 46 13 31-1118	EA		SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP)	50.27	6.87
28 46 13 31-1119	EA		SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS)	44.23	6.87
28 46 13 31-1120	EA		Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR)	198.60	51.57
28 46 13 31-1121	EA		Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH)	243.41	51.57
28 46 13 31-1122	EA		Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK)	287.50	58.44
28 46 13 31-1123	EA		Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH-P)	243.41	51.57
28 46 13 31-1124	EA		Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK)	283.69	58.44
28 46 13 31-1125	EA		Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR-P)	216.89	51.57
28 46 13 31-1126	EA		Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW)	216.89	51.57
28 46 13 31-1127	EA		Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH)	243.41	51.57
28 46 13 31-1128	EA		Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH-P)	243.41	51.57
28 46 13 31-1129	EA		Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW-P)	216.89	51.57
28 46 13 31-1130	EA		Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TELH-1)	297.84	17.19
28 46 13 31-1131	EA		Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT)	1,314.15	68.76
28 46 13 31-1132	EA		Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW)	321.21	68.76
28 46 13 31-1133	EA		Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW)	137.55	34.38
28 46 13 31-1134	EA		Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWV)	137.55	34.38
28 46 13 31-1135	EA		Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR)	252.44	34.38
28 46 13 31-1136	EA		Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH)	274.42	34.38
28 46 13 31-1137	EA		Speaker Strobe, Red, Ceiling Mount, High Candela, High Db. (Johnson Controls, Inc. #SPSCRHV)	274.42	34.38
28 46 13 31-1138	EA		Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV)	243.71	34.38
28 46 13 31-1139	EA		Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK)	331.70	34.38
28 46 13 31-1140	EA		Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW)	252.44	34.38
28 46 13 31-1141	EA		Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW)	137.55	34.38
28 46 13 31-1142	EA		Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR)	137.55	34.38
28 46 13 31-1143	EA		Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH)	274.42	34.38
28 46 13 31-1144	EA		Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR)	252.44	34.38
28 46 13 31-1145	EA		Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV)	252.44	34.38
28 46 13 31-1146			Honeywell Fire Alarm (28 46 13 31)		
28 46 13 31-1147			Notifier Fire Alarm (28 46 13 31-1146)		
28 46 13 31-1148			Fire Alarm Control Panel And Accessories (28 46 13 31-1147)		
28 46 13 31-1149	EA		NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D)	6,406.52	687.63
28 46 13 31-1150	EA		NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640)	5,346.71	687.63
28 46 13 31-1151	EA		Central Processing Unit for NFS2-640 With Integral 240 Volt Power Supply Includes Chassis (Notifier CPU2-640E)	5,894.30	687.63
28 46 13 31-1152	EA		Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320)	6,394.05	687.63
28 46 13 31-1153	EA		Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C)	6,274.51	687.63
28 46 13 31-1154	EA		Black, 240 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E)	6,122.34	687.63
28 46 13 31-1155	EA		Red, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R)	5,977.03	687.63
28 46 13 31-1156	EA		Two-Tone Sequential Module (Notifier 2TTM)	387.98	34.38
28 46 13 31-1157	EA		5', Not Low Loss, Antenna Cable (Notifier 7626-5C)	97.28	6.87
28 46 13 31-1158	EA		25', Low Loss, Antenna Cable (Notifier 7626-25HC)	186.54	13.76
28 46 13 31-1159	EA		50', Low Loss, Antenna Cable (Notifier 7626-50HC)	283.25	20.63
28 46 13 31-1160	EA		IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P)	443.93	
28 46 13 31-1161	EA		RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119)	62.76	
28 46 13 31-1162	EA		120 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS)	5,862.62	687.63
28 46 13 31-1163	EA		240 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYSE)	5,918.68	687.63
28 46 13 31-1164	EA		3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB)	239.16	6.87

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1165 EA Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER)	74.40	6.87
28 46 13 31-1166 EA Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT)	106.16	13.76
28 46 13 31-1167 EA Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT)	105.32	17.19
28 46 13 31-1168 EA IP Communicator (Notifier IPDACT-2)	778.13	34.38
28 46 13 31-1169 EA IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD)	901.70	34.38
28 46 13 31-1170 EA Red, IP Communicator External Mounting Enclosure (Notifier IPENC)	215.21	34.38
Note: Includes IPBRKT.		
28 46 13 31-1171 EA Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B)	214.64	34.38
Note: Includes IPBRKT		
28 46 13 31-1172 EA Dual 8TPC To Single 8TPC Y-Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT).....	55.76	13.76
28 46 13 31-1173 EA Loop Control Module (Notifier LCM-320)	2,228.05	68.76
28 46 13 31-1174 EA Loop Expander Module (Notifier LEM-320).....	1,782.82	68.76
28 46 13 31-1175 EA Keyboard Display Module For CPU2-640 (Notifier KDM-R2).....	1,694.69	68.76
28 46 13 31-1176 EA 7' DACT Phone Cord (Notifier MCB-7)	27.15	
28 46 13 31-1177 EA Back Box For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1).....	224.88	17.19
28 46 13 31-1178 EA Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R)	259.26	34.38
28 46 13 31-1179 EA Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B)	259.26	34.38
28 46 13 31-1180 EA Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2)	1,132.71	34.38
28 46 13 31-1181 EA Universal Zone Coder (Notifier UZC-256)	1,583.54	34.38
28 46 13 31-1182 EA Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI)	496.15	
Note: Includes null modem cable, AC power adapter, and 9-pin to 25-pin converter.		
28 46 13 31-1183 EA Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD).....	782.33	
28 46 13 31-1184 EA ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD).....	528.70	
28 46 13 31-1185 EA Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS).....	7,089.20	20.63
28 46 13 31-1186 EA Surface Back Box For NBG-12LRA (Notifier SBA-10)	59.67	17.19
28 46 13 31-1187 EA Up To 50 Addressable Devices Supported, Addressable Fire Alarm Control Panel (Notifier NFW-50X).....	3,077.90	687.63
28 46 13 31-1188 EA Up To 198 Addressable Devices Supported, Addressable Fire Alarm Control Panel (Notifier NFW-100X).....	4,497.37	687.63
28 46 13 31-1189 ONYX Cabinets (28 46 13 31-1147)		
28 46 13 31-1190 EA Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R)	545.83	17.19
28 46 13 31-1191 EA Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R)	729.79	17.19
28 46 13 31-1192 EA Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R)	899.81	17.19
28 46 13 31-1193 EA Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4)	136.22	20.63
28 46 13 31-1194 EA Chassis Bridge (Notifier CB-1)	123.34	17.19
28 46 13 31-1195 EA Four Position Chassis (Notifier CHS-4).....	204.29	17.19
28 46 13 31-1196 EA Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2).....	232.23	34.38
28 46 13 31-1197 EA Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B)	120.78	20.63
28 46 13 31-1198 EA Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP)	151.96	20.63
28 46 13 31-1199 EA One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4)	423.41	34.38
28 46 13 31-1200 EA One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B)	272.41	34.38
28 46 13 31-1201 EA Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4)	538.15	51.57
28 46 13 31-1202 EA Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B)	337.27	51.57
28 46 13 31-1203 EA Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4)	801.12	68.76
28 46 13 31-1204 EA Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B).....	494.96	68.76
28 46 13 31-1205 EA Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4)	972.64	85.96
28 46 13 31-1206 EA Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B)	576.43	85.96
28 46 13 31-1207 EA Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4)	320.42	17.19
28 46 13 31-1208 EA Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B).....	222.02	17.19
28 46 13 31-1209 EA Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR)	222.02	17.19
28 46 13 31-1210 EA Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R)	326.14	17.19
28 46 13 31-1211 EA Red, One Tier, "A" Size Blank Door Assembly, Lock And Keys (Notifier DR-A4BR)	249.48	17.19
28 46 13 31-1212 EA Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R)	411.95	17.19
28 46 13 31-1213 EA Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR)	283.23	17.19
28 46 13 31-1214 EA Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R)	489.75	17.19
28 46 13 31-1215 EA Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR)	405.08	17.19
28 46 13 31-1216 EA Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R)	724.30	17.19
28 46 13 31-1217 EA Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR)	453.14	17.19
28 46 13 31-1218 EA Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R)	866.18	17.19
28 46 13 31-1219 EA Black, Two Tiers, Equipment Back Box Assembly (Notifier EQBB-B4)	424.59	34.38
28 46 13 31-1220 EA Black, Three Tiers, Equipment Back Box Assembly (Notifier EQBB-C4).....	621.38	34.38
28 46 13 31-1221 EA Black, Four Tiers, Equipment Back Box Assembly (Notifier EQBB-D4).....	726.65	34.38
28 46 13 31-1222 EA Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4)	444.04	34.38
28 46 13 31-1223 EA Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4)	664.86	34.38
28 46 13 31-1224 EA Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4)	774.70	34.38
28 46 13 31-1225 EA Red, Two Tiers, Equipment Back Box Assembly (Notifier EQBB-B4R)	428.02	34.38
28 46 13 31-1226 EA Red, Three Tiers, Equipment Back Box Assembly (Notifier EQBB-C4R)	621.38	34.38
28 46 13 31-1227 EA Red, Four Tiers, Equipment Back Box Assembly (Notifier EQBB-D4R)	735.80	34.38
28 46 13 31-1228 EA Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R).....	464.64	34.38
28 46 13 31-1229 EA Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R).....	664.86	34.38
28 46 13 31-1230 EA Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R)	774.70	34.38
28 46 13 31-1231 EA Back Box With Door For ONYX Firstvision™ (Notifier FIRSTVISION-ENC).....	4,669.94	171.90
28 46 13 31-1232 EA CAB-4 Series Mounting Kit (Notifier P40-KITB)	399.42	34.38
Note: Includes chassis, hinged dress plate, and mounting hardware.		
28 46 13 31-1233 EA Black, One Tier Back Box Assembly (Notifier SBB-A4)	475.45	103.14
28 46 13 31-1234 EA Black, Two Tier Back Box Assembly (Notifier SBB-B4)	672.46	137.53
28 46 13 31-1235 EA Black, Three Tier Back Box Assembly (Notifier SBB-C4)	886.21	137.53
28 46 13 31-1236 EA Black, Four Tier Back Box Assembly (Notifier SBB-D4)	1,078.46	171.90
28 46 13 31-1237 EA Black, Mini, One Tier, Back Box (Notifier SBB-AA4)	255.26	34.38



Electronic Safety and Security			28
Life Safety			28 40
Fire Detection and Alarm			28 46

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1238 EA Red, Mini, One Tier, Back Box (Notifier SBB-AA4R).....	255.26	34.38
28 46 13 31-1239 EA Red, One Tier Back Box Assembly (Notifier SBB-A4R).....	307.89	34.38
28 46 13 31-1240 EA Red, Two Tier Back Box Assembly (Notifier SBB-B4R).....	423.45	34.38
28 46 13 31-1241 EA Red, Three Tier Back Box Assembly (Notifier SBB-C4R).....	614.52	34.38
28 46 13 31-1242 EA Red, Four Tier Back Box Assembly (Notifier SBB-D4R).....	724.36	34.38
28 46 13 31-1243 EA Trim Ring For NFS-320 Cabinet (Notifier TR-320).....	242.06	20.63
28 46 13 31-1244 EA Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R).....	242.06	20.63
28 46 13 31-1245 EA Black, AA Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4).....	323.87	20.63
28 46 13 31-1246 EA Black, A Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-A4).....	257.50	20.63
28 46 13 31-1247 EA Black, B Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4).....	259.22	20.63
28 46 13 31-1248 EA Black, C Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4).....	256.36	20.63
28 46 13 31-1249 EA Black, D Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4).....	262.65	20.63
28 46 13 31-1250 EA 2" Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Back Box (Notifier VP-2B).....	97.78	20.63
28 46 13 31-1251 EA Wire Trays For Routing Wire In A CAB-4 Series Back Box (Notifier WC-2).....	65.48	6.87
28 46 13 31-1252 NFS2-3030/640 Cabinet Mechanicals (28 46 13 31-1147)		
28 46 13 31-1253 EA Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640).....	156.84	20.63
28 46 13 31-1254 EA Blank Module Dress Plate (Notifier BM-1B).....	129.92	20.63
28 46 13 31-1255 EA Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4).....	147.34	20.63
28 46 13 31-1256 EA Four Position Expansion Chassis (Notifier CHS-4MB).....	314.70	17.19
28 46 13 31-1257 EA Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3).....	331.13	51.57
28 46 13 31-1258 EA Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2).....	163.17	20.63
28 46 13 31-1259 NFS-3030/640 Cabinet Mechanicals (28 46 13 31-1147)		
28 46 13 31-1260 EA Annunciator Dress Plate (Notifier ADP-4B).....	148.92	20.63
28 46 13 31-1261 EA Blank Module Dress Plate (Notifier BMP-1).....	93.51	20.63
28 46 13 31-1262 EA Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L).....	210.46	34.38
28 46 13 31-1263 EA Module Dress Plate (Notifier MP-1B).....	150.51	20.63
28 46 13 31-1264 Battery Cabinets (28 46 13 31-1147)		
28 46 13 31-1265 EA Six Position Chassis (Notifier CHS-6).....	135.73	34.38
28 46 13 31-1266 EA Black, 24" x 14" x 7-3/4" Battery Back Box (Notifier NFS-LBB).....	671.77	103.14
28 46 13 31-1267 Digital Voice (28 46 13 31-1147)		
28 46 13 31-1268 EA Chassis Used With BB-XP (Notifier 18439).....	63.56	17.19
28 46 13 31-1269 EA 220 Volt AC, 100 Watt, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E).....	3,242.41	51.57
28 46 13 31-1270 EA 220 Volt AC, 120 Watt, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E).....	3,150.74	51.57
28 46 13 31-1271 EA 220 Volt AC, 30 Watt, 25 VRMS Audio Amplifier (Notifier AA-30E).....	1,574.34	51.57
28 46 13 31-1272 EA Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4).....	684.20	51.57
28 46 13 31-1273 EA Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4).....	927.59	68.76
28 46 13 31-1274 EA Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4).....	1,155.12	85.96
28 46 13 31-1275 EA Multimode Audio Fiber Link Receiver (Notifier AFL-RM).....	1,371.65	34.38
28 46 13 31-1276 EA Multimode Audio Fiber Link Transmitter (Notifier AFL-TM).....	1,371.65	34.38
28 46 13 31-1277 EA Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS).....	2,955.56	34.38
28 46 13 31-1278 EA 15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Back Box (Notifier AFAWS-BX).....	127.91	17.19
28 46 13 31-1279 EA Flush Mounted, Key Lock, Door (Notifier AFAWS-KR).....	212.87	17.19
28 46 13 31-1280 EA Surface Mounted, Key Lock, Door (Notifier AFAWS-KS).....	214.01	17.19
28 46 13 31-1281 EA Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR).....	207.15	17.19
28 46 13 31-1282 EA Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS).....	209.44	17.19
28 46 13 31-1283 EA Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA).....	422.25	17.19
28 46 13 31-1284 EA Coil Cord, Telephone Chassis (Notifier AFAWS-TELC).....	323.85	17.19
28 46 13 31-1285 EA Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B).....	132.75	
28 46 13 31-1286 EA For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V).....	812.63	34.38
28 46 13 31-1287 EA For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V).....	820.14	34.38
28 46 13 31-1288 EA Blank Dress Plate For CA-2 (Notifier BP-CA2).....	126.20	17.19
28 46 13 31-1289 EA One Tier Chassis For Digital Voice Command Panel (Notifier CA-1).....	182.76	34.38
28 46 13 31-1290 EA Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2).....	568.62	51.57
28 46 13 31-1291 EA Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM).....	253.54	34.38
28 46 13 31-1292 EA Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR).....	253.54	34.38
28 46 13 31-1293 EA Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1).....	320.42	17.19
28 46 13 31-1294 EA Chassis With Paging Microphone With Well (Notifier CMIC-1).....	316.99	17.19
28 46 13 31-1295 EA 120 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025).....	2,345.52	34.38
28 46 13 31-1296 EA Multi-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F).....	2,032.84	34.38
28 46 13 31-1297 EA Single-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF).....	2,032.84	34.38
28 46 13 31-1298 EA 120 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070).....	2,421.51	34.38
28 46 13 31-1299 EA Multi-Mode Fiber-Optic Media 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F).....	2,151.88	34.38
28 46 13 31-1300 EA 120 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525).....	2,514.93	34.38
28 46 13 31-1301 EA Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	2,657.78	34.38
28 46 13 31-1302 EA Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	2,657.78	34.38
28 46 13 31-1303 EA 220-240 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E).....	2,639.98	34.38
28 46 13 31-1304 EA 220-240 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E).....	2,715.12	34.38
28 46 13 31-1305 EA 220-240 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E).....	2,832.34	34.38
28 46 13 31-1306 EA 120 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525).....	1,787.92	34.38
28 46 13 31-1307 EA 220-240 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E).....	1,836.01	34.38
28 46 13 31-1308 EA 120 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570).....	1,879.59	34.38
28 46 13 31-1309 EA 220-240 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E).....	1,942.70	34.38

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1310 EA 120 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025).....	1,956.23	34.38
28 46 13 31-1311 EA 220-240 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E)	2,014.83	34.38
28 46 13 31-1312 EA 120 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070)	2,073.44	34.38
28 46 13 31-1313 EA 220-240 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E)	2,178.64	34.38
28 46 13 31-1314 EA Dress Plate For CFFT-1 (Notifier DP-CFFT).....	145.65	17.19
28 46 13 31-1315 EA Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1)	141.01	20.63
28 46 13 31-1316 EA Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4).....	163.17	20.63
28 46 13 31-1317 EA Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B).....	281.92	20.63
28 46 13 31-1318 EA WPS Power Amplifier (Notifier DPA3204P).....	967.41	34.38
28 46 13 31-1319 EA WPS Power Amplifier (Notifier DPA4001P).....	812.63	34.38
28 46 13 31-1320 EA Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232)	1,858.55	34.38
28 46 13 31-1321 EA 125 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMP).....	1,385.18	34.38
Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 13 31-1322 EA 220-240 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMPE).....	1,401.71	34.38
Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 13 31-1323 EA Digital Series Distribution Board, Supports One To Four DS-AMP Or DS-AMPE (Notifier DS-DB).....	2,348.45	34.38
28 46 13 31-1324 EA 125 Watt, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watt Amplifier With A DS-XF70V) (Notifier DS-BDA).....	902.79	34.38
28 46 13 31-1325 EA Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM)	375.39	34.38
28 46 13 31-1326 EA Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXXX Series Amplifier), Fiber Option Module (Notifier DS-RFM)	375.39	34.38
28 46 13 31-1327 EA Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM)	375.39	34.38
28 46 13 31-1328 EA Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watt, DS Series Transformer (Notifier DS-XF70V).....	164.01	34.38
28 46 13 31-1329 EA Analog Output Board For Digital Voice Command (Notifier DVC-AO)	409.17	34.38
28 46 13 31-1330 EA Extended Memory For Digital Voice Command (Notifier DVC-EM)	2,364.52	34.38
28 46 13 31-1331 EA Keypad For Digital Voice Command (Notifier DVC-KD).....	683.76	68.76
28 46 13 31-1332 EA Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE).....	294.08	
28 46 13 31-1333 EA Portable Fireman's Telephone Handset (Notifier FHS).....	176.80	
28 46 13 31-1334 EA Red, Fireman's Telephone Handset (Notifier FHS-F)	204.83	
28 46 13 31-1335 EA Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R).....	514.98	34.38
28 46 13 31-1336 EA Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S).....	514.98	34.38
28 46 13 31-1337 EA Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ).....	84.93	10.31
28 46 13 31-1338 EA Paging Microphone Only (Notifier MIC-1)	276.17	34.38
28 46 13 31-1339 EA Firefighter's Telephone Handset (Notifier TELH-1)	201.97	
28 46 13 31-1340 EA Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1).....	684.66	34.38
28 46 13 31-1341 EA Remote Microphone Assembly For Mounting In A Stand-Alone Cabinet (Notifier RM-1SA).....	684.66	34.38
28 46 13 31-1342 Amplifiers (28 46 13 31-1147)		
28 46 13 31-1343 EA 30 Watt Audio Amplifier At 25 VRMS, 120 Volt AC (Notifier AA-30).....	1,317.97	34.38
28 46 13 31-1344 EA 100 Watt Audio Amplifier At 70.7 VRMS, 120 Volt AC, Tone Generator (Notifier AA-100).....	2,877.50	34.38
28 46 13 31-1345 EA 120 Watt Audio Amplifier At 25 VRMS, 120 Volt AC, Tone Generator (Notifier AA-120).....	2,795.17	34.38
28 46 13 31-1346 EA Audio Coupling Transformer (Notifier ACT-1).....	200.17	34.38
28 46 13 31-1347 EA Audio Coupling Transformer For DVC-AO (Notifier ACT-4).....	235.00	34.38
28 46 13 31-1348 EA Audio Coupling Transformer For DAA-5025 (Notifier ACT-25)	235.00	34.38
28 46 13 31-1349 EA Audio Coupling Transformer For DAA-5070 (Notifier ACT-70).....	235.00	34.38
28 46 13 31-1350 EA 50 Watt, 25 Volt, 120 VAC Digital Amplifier (Notifier DAA2-5025).....	2,527.28	34.38
28 46 13 31-1351 EA 50 Watt, 70 Volt, 120 VAC Digital Amplifier (Notifier DAA2-5070)	2,614.44	34.38
28 46 13 31-1352 EA 75 Watt, 25 Volt, 120 VAC Digital Amplifier (Notifier DAA2-7525).....	2,716.62	34.38
28 46 13 31-1353 EA Distributed Amplifier With Backup Capability (Notifier NFC-50/100DA).....	4,967.76	34.38
Note: Requires NFC-BDA-BU		
28 46 13 31-1354 EA 50 Watt, 25 Volt Amplifier For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25V)	977.93	34.38
Note: Requires NFC-BDA-BU		
28 46 13 31-1355 EA 50 Watt, 70 Volt Amplifier For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70V)	982.44	34.38
Note: Requires NFC-BDA-BU		
28 46 13 31-1356 FireVoice-25/50 Emergency Voice Evacuation Control Panels (28 46 13 31-1147)		
28 46 13 31-1357 EA 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50).....	5,490.91	687.63
28 46 13 31-1358 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA).....	3,875.01	687.63
28 46 13 31-1359 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV-25/50DAZS).....	5,035.60	687.63
28 46 13 31-1360 EA Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS)	6,553.30	687.63
28 46 13 31-1361 EA Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST)	7,249.66	687.63
28 46 13 31-1362 System Printer (28 46 13 31-1147)		
28 46 13 31-1363 EA 80 Column, 120 Volt AC, Desktop Printer (Notifier PRN-6).....	2,858.50	34.38
28 46 13 31-1364 Batteries (28 46 13 31-1147)		
28 46 13 31-1365 EA 5 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1250-BP)	664.86	34.38
28 46 13 31-1366 EA 7 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1270-BP)	610.24	34.38
28 46 13 31-1367 EA 12 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12120-BP)	803.40	34.38
28 46 13 31-1368 EA 18 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12180-BP)	467.75	34.38
28 46 13 31-1369 EA 26 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12260-BP)	654.57	34.38
28 46 13 31-1370 EA 55 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-12550)	652.99	34.38
28 46 13 31-1371 EA 100 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-121000)	1,040.58	34.38
28 46 13 31-1372 Battery Back Boxes And Miscellaneous Mechanicals (28 46 13 31-1147)		



Electronic Safety and Security			28
Life Safety			28 40
Fire Detection and Alarm			28 46

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1373	EA	14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Back Box (Notifier BB-17).....	186.02	27.50
28 46 13 31-1374	EA	24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACPS-610, Cabinet (Notifier BB-25)..... Note: XP6 modules require a CHS-6.	309.01	27.50
28 46 13 31-1375	EA	15.6" x 15.5" x 5.152", Mounts Up To Two 26 Ampere Hours And Charger, Battery Back Box (Notifier BB-26).....	525.22	137.53
28 46 13 31-1376	EA	Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH).....	243.36	68.76
28 46 13 31-1377	EA	Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH1).....	133.35	17.19
28 46 13 31-1378	EA	Battery Bracket For Two 26 Ampere Hours Batteries (Notifier SEISKIT-BB25).....	304.46	27.50
28 46 13 31-1379	EA	Two 26 Ampere Hours Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB).....	247.23	27.50
28 46 13 31-1380	EA	Two 12 Ampere Hours Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT-DAA).....	274.11	27.50
28 46 13 31-1381	EA	Two 55 Ampere Hours Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB).....	291.85	27.50
28 46 13 31-1382	EA	Two 7, 12, Or 18 Ampere Hour Battery Bracket Seismic Kit For FIREVOICE 25/50 Series (Notifier SEISKIT-2550).....	431.44	27.50
28 46 13 31-1383	EA	Two 26 Ampere Hour Battery Bracket Seismic Kit For NFS-320 And BB-26 Series (Notifier SEISKIT-320/B26).....	257.52	27.50
28 46 13 31-1384	EA	Two 100 Ampere Hour Battery Bracket Seismic Kit For BB-100 And BB-200 Series (Notifier SEISKIT-BB100)..... Note: Two kits are required for the BB-200	362.79	27.50
28 46 13 31-1385	EA	Two 18 Ampere Hour Battery Bracket Seismic Kit For BB-17 Series (Notifier SEISKIT-BB17)..... Note: Two kits are required for the BB-200	314.73	27.50
28 46 13 31-1386	EA	Two 26 Ampere Hour Battery Bracket Seismic Kit For BB-25 Series (Notifier SEISKIT-BB25)..... Note: Two kits are required for the BB-200	321.60	27.50
28 46 13 31-1387	EA	Two 7, 12, Or 18 Ampere Hour Battery Bracket Seismic Kit For SFP-5UD, SFP-10UD, Firewarden 100-2, RP-2001, And RP-2002 Series (Notifier SEISKIT-COMMENC)..... Note: Two kits are required for the BB-200	281.55	27.50
28 46 13 31-1388	EA	Two 7 Or 12 Ampere Hour Battery Bracket Seismic Kit For FCPS-24S6/8, CAB-PS1, SFP-2402 And SFP-2404 Series (Notifier SEISKIT-PS/2/4)..... Note: Two kits are required for the BB-200	264.39	27.50
28 46 13 31-1389	Power Supplies And Chargers (28 46 13 31-1147)			
28 46 13 31-1390	EA	120 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610).....	2,173.94	51.57
28 46 13 31-1391	EA	220/240 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610E).....	2,282.14	51.57
28 46 13 31-1392	EA	Addressable Power Supply, 120 Volt AC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24).....	2,014.61	34.38
28 46 13 31-1393	EA	6A Auxiliary Power Supply (Notifier APS-6R).....	1,091.87	34.38
28 46 13 31-1394	EA	10 Amperes Battery Charger (Notifier BC10A).....	1,194.66	51.57
28 46 13 31-1395	EA	33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100)..... Note: Holds four 55 ampere hour or two 100 ampere hour batteries	658.03	41.26
28 46 13 31-1396	EA	Red, 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100R)..... Note: Holds four 55 ampere hour or two 100 ampere hour batteries	666.04	41.26
28 46 13 31-1397	EA	30.34" x 36.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS2-3030 (Notifier BB-200)..... Note: Holds four 55 ampere hour or four 100 ampere hour batteries	1,277.21	41.26
28 46 13 31-1398	EA	30.34" x 36.5" x 7.5", Holds Four 55 Ampere Hours Or Four 100 Ampere Hours Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R).....	1,277.21	41.26
28 46 13 31-1399	EA	15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1).....	233.52	34.38
28 46 13 31-1400	EA	25 To 120 Ampere Hours Battery Charger (Notifier CHG-120).....	1,552.29	34.38
28 46 13 31-1401	EA	Mounts XPIQ-PS And/or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS).....	105.32	17.19
28 46 13 31-1402	EA	Door Used For Mounting ACPS-610 (E) In A CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1).....	164.24	17.19
28 46 13 31-1403	EA	8 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8).....	1,028.23	34.38
28 46 13 31-1404	EA	8.0 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8E).....	1,246.20	103.14
28 46 13 31-1405	EA	Red, 8 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8R).....	1,190.60	103.14
28 46 13 31-1406	EA	8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8).....	1,384.45	103.14
28 46 13 31-1407	EA	8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8E).....	1,372.43	103.14
28 46 13 31-1408	EA	Chassis Mounted, 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CM).....	1,359.45	51.57
28 46 13 31-1409	EA	Chassis Mounted, 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CME).....	1,359.45	51.57
28 46 13 31-1410	EA	12 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12).....	1,691.56	51.57
28 46 13 31-1411	EA	12 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12E).....	1,614.92	51.57
28 46 13 31-1412	EA	12 Amperes, 24 Volt DC, 120 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CM).....	1,717.10	103.14
28 46 13 31-1413	EA	12 Amperes, 24 Volt DC, 220 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CME).....	1,717.10	103.14
28 46 13 31-1414	EA	6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6).....	1,163.55	103.14
28 46 13 31-1415	EA	6 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6E).....	1,163.55	103.14
28 46 13 31-1416	EA	8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8).....	1,259.72	103.14
28 46 13 31-1417	EA	8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8E).....	1,259.72	103.14
28 46 13 31-1418	EA	6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA).....	1,002.75	103.14
28 46 13 31-1419	EA	9 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA).....	1,190.60	103.14
28 46 13 31-1420	EA	Class A Adapter HPFF8/HPFF12 (Notifier HPP31076).....	258.29	17.19
28 46 13 31-1421	EA	Up To 3 Amperes, Main Power Supply And Charger (Notifier MPS-24A).....	1,586.46	34.38
28 46 13 31-1422	EA	Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4).....	231.23	34.38
28 46 13 31-1423	EA	240 Volt AC Addressable Power Supply (Notifier AMPS-24E).....	1,778.12	34.38
28 46 13 31-1424	EA	6 Amperes, 120 Volt AC Auxiliary Power Supply (Notifier APS2-6R).....	1,207.13	103.14
28 46 13 31-1425	EA	6 Amperes, 220-240 Volt AC Auxiliary Power Supply (Notifier APS2-6RE).....	1,259.72	103.14
28 46 13 31-1426	EA	25 To 75 Ampere Hour Sealed Lead Acid Battery Charger (Notifier CHG-75).....	1,174.79	34.38
28 46 13 31-1427	EA	6 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S6E).....	1,162.05	103.14
28 46 13 31-1428	EA	6 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S6R).....	1,133.49	103.14
28 46 13 31-1429	Network Control Annunciators (28 46 13 31-1147)			
28 46 13 31-1430	EA	Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2).....	2,818.70	103.14
28 46 13 31-1431	EA	Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO).....	106.17	20.63
28 46 13 31-1432	EA	Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit).....	76.09	20.63

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1433			FIRSTVISION Firefighter's Display (28 46 13 31-1147)		
28 46 13 31-1434	EA		ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD)	21,749.89	687.63
28 46 13 31-1435			FlashScan Addressable Modules (28 46 13 31-1147)		
28 46 13 31-1436	EA		Intelligent Addressable Control Module (Notifier FCM-1).....	241.34	34.38
28 46 13 31-1437	EA		Addressable Dual Monitor Module (Notifier FDM-1)	269.84	34.38
28 46 13 31-1438	EA		Intelligent Addressable Monitor Module (Notifier FMM-1)	200.17	34.38
28 46 13 31-1439	EA		Intelligent Addressable Miniature Monitor Module (Notifier FMM-101)	178.01	34.38
28 46 13 31-1440	EA		Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20)	369.58	34.38
28 46 13 31-1441	EA		Intelligent Addressable Relay Module (Notifier FRM-1)	196.05	34.38
28 46 13 31-1442	EA		Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1).....	304.67	34.38
28 46 13 31-1443	EA		SLC Loop Powered Fault Isolator Module (Notifier ISO-X).....	197.01	34.38
28 46 13 31-1444			Addressable Device Bases And Accessories (28 46 13 31-1147)		
28 46 13 31-1445	EA		Intelligent Detector Base With Flange (Notifier B710LP)	68.30	17.19
28 46 13 31-1446	EA		Weatherproof Device Housing (Notifier DH4000E-1).....	624.49	34.38
28 46 13 31-1447	EA		Detector Base For All Wireless Smoke And Heat Detectors (Notifier B210W)	63.56	17.19
28 46 13 31-1448	EA		Swift AV Base Ceiling (Notifier WAV-CRL).....	330.71	17.19
28 46 13 31-1449	EA		Swift AV Base Wall (Notifier WAV-RL).....	330.71	17.19
28 46 13 31-1450			XP6/XP10 Transponder (28 46 13 31-1147)		
28 46 13 31-1451	EA		Synchronization Daughter Module For XP6-C (Notifier SYNC-1)	177.21	34.38
28 46 13 31-1452	EA		Six Circuit Supervised Control Module (Notifier XP6-C)	898.40	34.38
28 46 13 31-1453	EA		Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA).....	1,088.39	34.38
28 46 13 31-1454	EA		Six Relay Control Module (Notifier XP6-R)	863.57	34.38
28 46 13 31-1455	EA		Ten Input Monitor Module (Notifier XP10-M)	1,040.89	34.38
28 46 13 31-1456			LCD Display Annunciators (28 46 13 31-1147)		
28 46 13 31-1457	EA		80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80).....	1,148.34	103.14
28 46 13 31-1458	EA		80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80).....	1,615.41	103.14
28 46 13 31-1459	EA		640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160).....	1,672.41	103.14
28 46 13 31-1460	EA		8 To 16 Switch Smoke Control Expander (Notifier SCE-8).....	942.89	34.38
28 46 13 31-1461	EA		8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L).....	502.39	34.38
28 46 13 31-1462	EA		Eight Switch Smoke Control Master Module (Notifier SCS-8).....	1,219.77	34.38
28 46 13 31-1463	EA		White, 80 Character Display, Remote LCD Annunciator (Notifier N-ANN-80-W).....	819.42	103.14
28 46 13 31-1464			ONYX ACM And AEM Series LED Annunciators (28 46 13 31-1147)		
28 46 13 31-1465	EA		Remote, Eight Form C Relay Module (Notifier ACM-8R).....	542.44	34.38
28 46 13 31-1466	EA		16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT).....	1,191.31	34.38
28 46 13 31-1467	EA		16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT).....	911.06	34.38
28 46 13 31-1468	EA		24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT).....	1,191.31	34.38
28 46 13 31-1469	EA		24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT).....	911.06	34.38
28 46 13 31-1470	EA		32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A).....	911.06	34.38
28 46 13 31-1471	EA		32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A).....	816.07	34.38
28 46 13 31-1472	EA		48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A).....	911.06	34.38
28 46 13 31-1473	EA		48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A).....	816.07	34.38
28 46 13 31-1474			Graphic Annunciator - Lamp Driver Modules (28 46 13 31-1147)		
28 46 13 31-1475	EA		Single Annunciator Flush Mounted Back Box (Notifier ABF-1B).....	368.69	68.76
28 46 13 31-1476	EA		Single Annunciator Flush Mounted Back Box With Glass Door And Key Lock (Notifier ABF-1DB)	401.94	68.76
28 46 13 31-1477	EA		Two Annunciator Flush Mounted Back Box (Notifier ABF-2B).....	461.64	85.96
28 46 13 31-1478	EA		Two Annunciator Flush Mounted Back Box With Glass Door And Key Lock (Notifier ABF-2DB)	504.39	85.96
28 46 13 31-1479	EA		Four Annunciator Flush Mounted Back Box (Notifier ABF-4B)	813.82	120.33
28 46 13 31-1480	EA		Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1)	144.96	20.63
28 46 13 31-1481	EA		Single Annunciator Surface Mounted Back Box (Notifier ABS-1B).....	233.32	68.76
28 46 13 31-1482	EA		Single Annunciator Surface Mounted Back Box With Trim (Notifier ABS-1TB).....	167.29	17.19
28 46 13 31-1483	EA		Two Annunciator Surface Mounted Back Box (Notifier ABS-2B)	294.27	68.76
28 46 13 31-1484	EA		12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Back Box (Notifier ABS-2D)	526.55	85.96
28 46 13 31-1485	EA		Red, Surface (Or Semi-Flush) Mounted Back Box For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR).....	307.53	17.19
28 46 13 31-1486	EA		Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Back Box (Notifier ABS-4D).....	856.57	120.33
28 46 13 31-1487	EA		Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Back Box (Notifier ABS-4DR)	515.61	20.63
28 46 13 31-1488	EA		Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Back Box (Notifier ABS-8RB).....	205.00	27.50
28 46 13 31-1489	EA		Annunciator Key Switch (Notifier AKS-1B).....	118.17	10.31
28 46 13 31-1490	EA		Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D)	136.05	34.38
28 46 13 31-1491	EA		32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32)	816.07	34.38
28 46 13 31-1492	EA		24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24)	205.41	6.87
28 46 13 31-1493	EA		48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48)	256.89	6.87
28 46 13 31-1494	EA		32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32)	671.99	34.38
28 46 13 31-1495	EA		Lamp Driver Module (Notifier LDM-R32).....	1,001.24	34.38
28 46 13 31-1496	EA		Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L)	929.16	34.38
28 46 13 31-1497	EA		48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48)	263.76	6.87
28 46 13 31-1498	EA		Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D).....	239.77	20.63



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1499	EA		Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D)	125.40	20.63
28 46 13 31-1500	EA		Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR)	125.40	20.63
28 46 13 31-1501	EA		Graphic Annunciator Dress Plate (Notifier DP-GDIS1)	229.47	20.63
28 46 13 31-1502	EA		Graphic Annunciator Dress Plate (Notifier DP-GDIS2)	229.47	20.63
28 46 13 31-1503	EA		Input/Output Module For Driving Graphic Annunciators Or Relays (Notifier N-ANN-RLED)	609.39	34.38
28 46 13 31-1504 Network Gateways (28 46 13 31-1147)					
28 46 13 31-1505	EA		Common Alerting Protocol Gateway (Notifier CAP-GW)	4,727.32	34.38
28 46 13 31-1506	EA		Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF)	3,513.09	34.38
28 46 13 31-1507	EA		Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF)	3,960.91	34.38
28 46 13 31-1508	EA		Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF)	4,366.65	34.38
28 46 13 31-1509	EA		Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W)	3,544.64	34.38
28 46 13 31-1510	EA		Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS-NCM-WMF)	3,448.47	34.38
28 46 13 31-1511	EA		Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-WSF)	3,885.77	34.38
28 46 13 31-1512	EA		Modbus Gateway (Notifier MODBUS-GW)	3,870.74	34.38
28 46 13 31-1513	EA		22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW)	4,478.83	22.69
28 46 13 31-1514	EA		Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS)	6,672.86	22.69
28 46 13 31-1515	EA		1920x1080P Wide Screen (Notifier MON-42LCDW)	21,204.55	22.69
28 46 13 31-1516	EA		Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORZ-SD)	639.68	51.57
28 46 13 31-1517	EA		Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD)	1,157.92	51.57
28 46 13 31-1518	EA		Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD)	1,682.26	51.57
28 46 13 31-1519	EA		Mass Notification Voice Paging (Notifier NOTIFY-IP)	1,779.27	
28 46 13 31-1520	EA		Embedded NFN Gateway (Notifier NFN-GW-EM)	3,456.98	34.38
28 46 13 31-1521	EA		NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F)	3,456.98	34.38
28 46 13 31-1522	EA		High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW-PC-HNMF)	5,373.50	34.38
28 46 13 31-1523	EA		High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW-PC-HNSF)	6,260.13	34.38
28 46 13 31-1524	EA		High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW)	5,373.50	34.38
28 46 13 31-1525	EA		NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W)	3,456.98	34.38
28 46 13 31-1526	EA		Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER)	1,463.28	
28 46 13 31-1527	EA		ONYXWorks Workstation (Notifier ONYXWORKS-WS)	39,096.37	825.16
28 46 13 31-1528	EA		Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW)	5,849.46	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.					
28 46 13 31-1529	EA		Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF)	5,849.46	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.					
28 46 13 31-1530	EA		Fiber Optics, Standard Network Repeater Board (Notifier RPT-F)	1,631.63	34.38
28 46 13 31-1531	EA		Wire, Standard Network Repeater Board (Notifier RPT-W)	1,326.57	34.38
28 46 13 31-1532	EA		Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF)	1,580.54	34.38
28 46 13 31-1533	EA		Signaling Line Circuit Integration Module (Notifier SLC-IM)	1,765.38	34.38
28 46 13 31-1534	EA		VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GW)	3,690.41	34.38
28 46 13 31-1535	EA		Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GW To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS)	2,214.90	34.38
28 46 13 31-1536	EA		Windows Hard Drive Upgrade (Notifier WIN7-JG-US-3)	2,438.80	
28 46 13 31-1537	EA		Intuitive Color 10" Touch Screen Providing Color Coded Information Of Detailed System Status (Notifier NCD)	2,263.76	22.69
28 46 13 31-1538	EA		SWIFT Wireless Gateway With Flashscan (Notifier FWSG)	525.38	34.38
28 46 13 31-1539 NOTI-FIRE-NET Network Components (28 46 13 31-1147)					
28 46 13 31-1540	EA		Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3)	3,456.98	34.38
28 46 13 31-1541	EA		Fiber Optic Network Communications Module (Notifier NCM-F)	1,536.46	34.38
28 46 13 31-1542	EA		NOTI-FIRE-NET Web Server (Notifier NWS)	3,456.98	34.38
28 46 13 31-1543	EA		Wired Network Communications Module (Notifier NCM-W)	1,463.63	34.38
28 46 13 31-1544	EA		Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit)	145.08	17.19
28 46 13 31-1545 FireWarden Addressable Fire Panels (28 46 13 31-1147)					
28 46 13 31-1546	EA		50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50)	2,887.30	687.63
28 46 13 31-1547	EA		Black, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100)	3,449.37	687.63
28 46 13 31-1548	EA		Black, One DC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C)	3,938.98	343.82
28 46 13 31-1549	EA		Black, One SLC Loop, 240 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E)	3,938.98	343.82
28 46 13 31-1550	EA		Red, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R)	3,920.95	343.82
28 46 13 31-1551	EA		Black, Built In Digital Alarm Communicator/Transmitter (DACT) With Modem For Remote Upload/Download, Built In Annunciator, 50 Point Addressable Fire Alarm Control Panel (Notifier NFW-50C)	4,537.08	343.82
28 46 13 31-1552	EA		Red, Built In Digital Alarm Communicator/Transmitter (DACT) With Modem For Remote Upload/Download, 50 Point Addressable Fire Alarm Control Panel (NFW-50R)	3,190.60	343.82
28 46 13 31-1553 FireWarden Accessories (28 46 13 31-1147)					
28 46 13 31-1554	EA		Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100)	238.15	51.57
28 46 13 31-1555	EA		Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T)	226.71	51.57

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1556 FireWarden Devices (28 46 13 31-1147)				
28 46 13 31-1557	EA	SLC Loop Powered Fault Isolator Module (Notifier N100-ISO).....	195.42	34.38
28 46 13 31-1558	EA	Intelligent Addressable Control Module (Notifier NC-100).....	233.42	34.38
28 46 13 31-1559	EA	Intelligent Addressable Relay Module (Notifier NC-100R).....	223.92	34.38
28 46 13 31-1560	EA	Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100).....	512.03	51.57
28 46 13 31-1561	EA	Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R).....	619.16	51.57
28 46 13 31-1562	EA	Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100).....	223.92	34.38
28 46 13 31-1563	EA	Intelligent Addressable Thermal Detector With Base (Notifier NH-100).....	226.64	51.57
28 46 13 31-1564	EA	Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H).....	226.64	51.57
28 46 13 31-1565	EA	Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R).....	226.64	51.57
28 46 13 31-1566	EA	Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100).....	308.97	51.57
28 46 13 31-1567	EA	Intelligent Addressable Monitor Module (Notifier NMM-100).....	192.26	34.38
28 46 13 31-1568	EA	Intelligent Addressable Mini Monitor Module (Notifier NMM-100P).....	174.05	34.38
28 46 13 31-1569	EA	Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX).....	262.71	34.38
28 46 13 31-1570	EA	Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100).....	237.72	51.57
28 46 13 31-1571	EA	Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100).....	295.17	34.38
28 46 13 31-1572	EA	Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6).....	1,063.06	34.38
28 46 13 31-1573 SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories (28 46 13 31-1147)				
28 46 13 31-1574	EA	120 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402).....	1,891.85	550.10
28 46 13 31-1575	EA	120 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404).....	2,096.09	550.10
28 46 13 31-1576	EA	240 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402E).....	1,610.32	171.90
28 46 13 31-1577	EA	240 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404E).....	1,849.26	171.90
28 46 13 31-1578	EA	Class A Converter Module (Notifier CAC-4).....	449.76	34.38
28 46 13 31-1579	EA	Internal Dress Plate, Required For FM And ULC (Notifier DP-4X).....	165.11	20.63
28 46 13 31-1580	EA	Remote Zone Annunciator (Notifier RZA-4X).....	243.87	51.57
28 46 13 31-1581	EA	Red, Dress Panel (Notifier DP-51050).....	198.58	20.63
28 46 13 31-1582	EA	Black, Dress Panel (Notifier DP-51050B).....	200.87	20.63
28 46 13 31-1583 SFP-5UD 5 Zone Control Panels And Accessories (28 46 13 31-1147)				
28 46 13 31-1584	EA	120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD).....	2,950.63	687.63
28 46 13 31-1585	EA	120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC).....	4,181.17	515.72
28 46 13 31-1586	EA	240 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE).....	2,761.90	343.82
28 46 13 31-1587	EA	Red, 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR).....	2,761.90	343.82
28 46 13 31-1588	EA	Class A Converter Module (Notifier N-CAC-5X).....	465.78	34.38
28 46 13 31-1589	EA	Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE).....	178.56	20.63
28 46 13 31-1590	EA	Five Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply, ULC/UL Listed (Notifier SFP-5UDC).....	4,829.48	515.72
Note: Includes internal dress panel with built-in annunciator module				
28 46 13 31-1591	EA	240 Volt AC, Five Zone Conventional Fire Control Panel With DACT And 3 Amperes Power Supply (Notifier SFP-5UDE).....	3,196.62	343.82
28 46 13 31-1592	EA	Red, 120 Volt AC, Five Zone Conventional Fire Control Panel With DACT And 3 Amperes Power Supply (Notifier SFP-5UDR).....	3,165.06	343.82
28 46 13 31-1593 SFP-10UD 10 Zone Control Panels And Accessories (28 46 13 31-1147)				
28 46 13 31-1594	EA	120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC).....	5,140.55	687.63
28 46 13 31-1595	EA	240 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE).....	3,845.31	515.72
28 46 13 31-1596	EA	120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD).....	3,393.95	687.63
28 46 13 31-1597	EA	Red, 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR).....	4,532.94	687.63
28 46 13 31-1598	EA	Four Channel, Dual Line, Stand-Alone Fire Alarm Communicator (Fire-Lite 411UDAC).....	883.93	103.14
28 46 13 31-1599	EA	10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply, ULC/UL Listed (Notifier SFP-10UDC).....	5,879.28	687.63
Note: Includes internal dress panel with built-in annunciator module				
28 46 13 31-1600	EA	240 Volt AC, 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply (Notifier SFP-10UDE).....	4,383.16	515.72
28 46 13 31-1601	EA	Red, 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply (Notifier SFP-10UDR).....	5,033.22	687.63
28 46 13 31-1602 Smoke Detectors (28 46 13 31-1147)				
28 46 13 31-1603	EA	Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851).....	331.13	51.57
28 46 13 31-1604	EA	Intelligent Addressable Laser Smoke Detector (Notifier FSL-751).....	562.29	51.57
28 46 13 31-1605	EA	Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D).....	1,531.56	51.57
28 46 13 31-1606	EA	Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R).....	214.12	51.57
Note: For use with DNR(W) duct detector housing.				
28 46 13 31-1607	EA	Filters For Harsh Detector (Notifier RF-FTX).....	26.16	
28 46 13 31-1608	EA	Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY).....	199.78	34.38
28 46 13 31-1609	EA	Addressable Beam Detector With Reflector, UL Listed (Notifier FS-OSI-RI).....	2,576.68	51.57
28 46 13 31-1610	EA	Intelligent Addressable Photo Detector With Flashscan, White (Notifier FSP-951).....	222.42	51.57
28 46 13 31-1611	EA	Intelligent Addressable Photo Detector With Flashscan And Clip, Ivory (Notifier FSP-951-IV).....	241.30	51.57
28 46 13 31-1612	EA	Remote Test Capable Intelligent Photo Detector With Flashscan, White (Notifier FSP-951R).....	231.86	51.57
28 46 13 31-1613	EA	Remote Test Capable Intelligent Photo Detector With Flashscan And Clip, Ivory (Notifier FSP-951R-IV).....	249.02	51.57
28 46 13 31-1614	EA	Intelligent Addressable Photo/Thermal Detector With Flashscan, White (Notifier FSP-951T).....	233.00	51.57



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28 46 13 31-1615 EA Intelligent Addressable Photo/Thermal Detector With Flashscan, Ivory (Notifier FSP-951T-IV)	250.16	51.57
28 46 13 31-1616 EA Intelligent Addressable 135 Degree Thermal Detector With Flashscan, White (Notifier FST-951)	192.38	51.57
28 46 13 31-1617 EA Intelligent Addressable High Temperature 190 Degree Heat Detector With Flashscan (Notifier FST-951H)	192.38	51.57
28 46 13 31-1618 EA Intelligent Addressable High Temperature 190 Degree Heat Detector With Flashscan And Clip, Ivory (Notifier FST-951H-IV)	208.40	51.57
28 46 13 31-1619 EA Intelligent Addressable 135 Degree Thermal Detector With Flashscan And Clip, Ivory (Notifier FST-951-IV)	208.40	51.57
28 46 13 31-1620 EA Intelligent Addressable Rate-of-Rise Thermal Detector With Flashscan, White (Notifier FST-951R)	192.38	51.57
28 46 13 31-1621 EA Intelligent Addressable Rate-of-Rise Thermal Detector With Flashscan And Clip, Ivory (Notifier FST-951R-IV)	208.40	51.57
28 46 13 31-1622 EA Low Profile Intelligent Addressable High Sensitivity Detector With Flashscan, White (Notifier FSV-951R)	489.86	51.57
28 46 13 31-1623 EA Low Profile Intelligent Addressable High Sensitivity Detector With Flashscan, Ivory (Notifier FSV-951R-IV)	524.19	51.57
28 46 13 31-1624 EA Wireless Photo-Heat Detector, Acclimate, With Flashscan (Notifier FWD-200ACCLIMATE)	488.72	51.57
Note: Requires B210W base, ordered separately		
28 46 13 31-1625 EA Wireless Photo Detector With Flashscan (Notifier FWD-200P)	450.96	51.57
Note: Requires B210W base, ordered separately		
28 46 13 31-1626 EA Wireless Fixed Temp Heat Detector, 135 Degree, With Flashscan (Notifier FWH-200FIX135)	410.92	51.57
Note: Requires B210W base, ordered separately		
28 46 13 31-1627 EA Wireless ROR Heat Detector, 135 Degree, With Flashscan (Notifier FWH-200ROR135)	410.92	51.57
Note: Requires B210W base, ordered separately		
28 46 13 31-1628 EA Intelligent Addressable Carbon Monoxide Detector With Flashscan (Notifier FPC-951)	303.37	51.57
28 46 13 31-1629 EA Built In Circular Display, 3 Alarm Levels, Smoke Detector (Notifier VLF-250)	3,975.75	51.57
Note: Use for areas up to 2,500 square feet. Adjustable sensitivity range is 0.008 - 6% ro 6.4 /Ft. Obs.		
28 46 13 31-1630 EA Built In Circular Display, 3 Alarm Levels, Smoke Detector (Notifier VLF-500)	4,877.56	51.57
Note: Use for areas up to 2,500 square feet. Adjustable sensitivity range is 0.008 - 6% ro 6.4 /Ft. Obs.		
28 46 13 31-1631 Pull Stations (28 46 13 31-1147)		
28 46 13 31-1632 EA Trim Ring For NBG12 Series Pull Station (Notifier BG12TR)	37.56	6.87
28 46 13 31-1633 EA One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Back Box (Notifier BG-2)	84.55	17.19
28 46 13 31-1634 EA Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Back Box (Notifier BG-2R)	81.98	17.19
28 46 13 31-1635 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1)	116.84	34.38
28 46 13 31-1636 EA DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F)	127.29	34.38
28 46 13 31-1637 EA Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1FTS)	168.40	34.38
28 46 13 31-1638 EA Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R)	116.84	34.38
28 46 13 31-1639 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS)	132.17	34.38
28 46 13 31-1640 EA Standard Local Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL)	132.17	34.38
28 46 13 31-1641 EA Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSR)	132.17	34.38
28 46 13 31-1642 EA Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1)	125.90	34.38
28 46 13 31-1643 EA Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R)	134.96	34.38
28 46 13 31-1644 EA Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL)	1,308.77	41.26
28 46 13 31-1645 EA Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S)	111.21	34.38
28 46 13 31-1646 EA Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12)	116.13	34.38
28 46 13 31-1647 EA Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L)	134.07	34.38
28 46 13 31-1648 EA Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB)	312.10	41.26
28 46 13 31-1649 EA Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS)	170.30	34.38
28 46 13 31-1650 EA Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR)	144.27	34.38
28 46 13 31-1651 EA Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX)	264.30	34.38
28 46 13 31-1652 EA Pull Station Trim Plate For New York City, For Use With All NBG Series Pull Stations (Notifier NY-PLATE)	59.75	6.87
28 46 13 31-1653 EA Dual Action, Wireless Pull Station (Notifier NBG-12WL)	477.25	41.26
28 46 13 31-1654 Rate Compensation Heat Detectors (28 46 13 31-1147)		
28 46 13 31-1655 EA 135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135)	242.47	51.57
28 46 13 31-1656 EA 194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194)	242.47	51.57
28 46 13 31-1657 FM Series Door Releases (28 46 13 31-1147)		
28 46 13 31-1658 EA 1/2" Door Holder Spacer (Notifier FM900-50)	39.63	10.31
28 46 13 31-1659 EA 3/4" Door Holder Spacer (Notifier FM900-75)	39.63	10.31
28 46 13 31-1660 EA 1" Door Holder Spacer (Notifier FM900-100)	39.63	10.31
28 46 13 31-1661 EA Door Holder Extension Kit (Notifier FM900)	42.00	10.31
28 46 13 31-1662 EA 90 Degree Door Holder Extension Kit (Notifier FM900-Z)	42.80	10.31
28 46 13 31-1663 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mounted, Door Holder (Notifier FM980)	270.77	51.57
28 46 13 31-1664 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mounted, Door Holder (Notifier FM996)	236.14	51.57
28 46 13 31-1665 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mounted, Concealed Wiring, Door Holder (Notifier FM998)	236.14	51.57
28 46 13 31-1666 Multicriteria Fire Detector (28 46 13 31-1147)		
28 46 13 31-1667 EA Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851)	360.57	51.57
28 46 13 31-1668 EA Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851)	359.43	51.57
Note: Detects fire, thermal, photo, CO and IR, with Flashscan.		
28 46 13 31-1669 EA Multi-Criteria Photo/Temp/Infrared Detector, White (Notifier FPTI-951)	238.15	51.57
28 46 13 31-1670 EA Multi-Criteria Photo/Temp/Infrared Detector, Ivory (Notifier FPTI-951-IV)	246.16	51.57
28 46 13 31-1671 EA Intelligent Addressable Combination Multi-Criteria Photoelectric And Carbon Monoxide Detector With Flashscan (Notifier FSCO-951)	360.57	51.57
28 46 13 31-1672 Modules (28 46 13 31-1147)		
28 46 13 31-1673 EA Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1)	424.59	34.38

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28 46 13 31-1674 EA Addressable Firephone Control Module (Notifier FTM-1)	265.55	34.38
28 46 13 31-1675 EA Wireless Monitor Module With Flashscan (Notifier FW-MM)	410.86	34.38
28 46 13 31-1676 EA Wireless Relay Module With Flashscan (Notifier FW-RM)	473.79	34.38
28 46 13 31-1677 EA Wireless Sync Module (Notifier W-SYNC)	614.26	34.38
28 46 13 31-1678 DH Series Door Releases (28 46 13 31-1147)		
28 46 13 31-1679 EA Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC)	226.42	51.57
28 46 13 31-1680 EA Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB)	240.44	51.57
28 46 13 31-1681 EA Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD)	253.60	51.57
28 46 13 31-1682 EA Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC)	250.16	51.57
28 46 13 31-1683 EA Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB)	261.60	51.57
28 46 13 31-1684 EA Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD)	271.33	51.57
28 46 13 31-1685 EA Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC)	226.42	51.57
28 46 13 31-1686 EA Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB)	238.72	51.57
28 46 13 31-1687 EA Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD)	253.60	51.57
28 46 13 31-1688 EA Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1)	285.06	51.57
28 46 13 31-1689 EA Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1)	303.37	51.57
28 46 13 31-1690 EA Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1)	324.53	51.57
28 46 13 31-1691 EA Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2)	329.68	51.57
28 46 13 31-1692 EA Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2)	351.42	51.57
28 46 13 31-1693 EA Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2)	377.74	51.57
28 46 13 31-1694 EA 0.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC)	26.29	6.87
28 46 13 31-1695 EA 0.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B)	26.29	6.87
28 46 13 31-1696 EA 0.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D)	28.63	6.87
28 46 13 31-1697 EA 1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC)	26.29	6.87
28 46 13 31-1698 EA 1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B)	26.29	6.87
28 46 13 31-1699 EA 1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D)	28.63	6.87
28 46 13 31-1700 EA 1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC)	27.49	6.87
28 46 13 31-1701 EA 1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC)	27.49	6.87
28 46 13 31-1702 EA 1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B)	28.63	6.87
28 46 13 31-1703 EA 1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D)	29.95	6.87
28 46 13 31-1704 EA 2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC)	29.95	6.87
28 46 13 31-1705 EA 2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC)	29.95	6.87
28 46 13 31-1706 EA 2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B)	31.15	6.87
28 46 13 31-1707 EA 2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D)	31.15	6.87
28 46 13 31-1708 EA 3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC)	31.15	6.87
28 46 13 31-1709 EA 3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B)	32.47	6.87
28 46 13 31-1710 EA 3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D)	32.47	6.87
28 46 13 31-1711 EA 4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC)	33.67	6.87
28 46 13 31-1712 EA 4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC)	33.67	6.87
28 46 13 31-1713 EA 4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB)	34.98	6.87
28 46 13 31-1714 EA 4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD)	38.70	6.87
28 46 13 31-1715 EA 5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC)	37.44	6.87
28 46 13 31-1716 EA 5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B)	36.19	6.87
28 46 13 31-1717 EA 5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D)	38.70	6.87
28 46 13 31-1718 EA Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCP)	36.82	10.31
28 46 13 31-1719 EA Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB)	38.02	10.31
28 46 13 31-1720 EA Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD)	41.85	10.31
28 46 13 31-1721 EA Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC)	66.74	10.31
28 46 13 31-1722 EA Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB)	70.40	10.31
28 46 13 31-1723 EA Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD)	74.06	10.31
28 46 13 31-1724 EA Surface Mounted Back Box, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBPC)	62.98	17.19
28 46 13 31-1725 EA Surface Mounted Back Box, Plated Brass For Electromagnetic Door Holder (Notifier DHBBB)	65.50	17.19
28 46 13 31-1726 EA Surface Mounted Back Box, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBBD)	70.54	17.19
28 46 13 31-1727 EA Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF)	353.54	
28 46 13 31-1728 First Command (28 46 13 31-1147)		
28 46 13 31-1729 EA Black, 120 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100)	8,352.19	859.54
28 46 13 31-1730 EA Black, 220-240 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E)	8,442.35	859.54
28 46 13 31-1731 EA Black, 120 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote Audio Amplifier (Notifier NFC-50DA)	2,467.59	68.76
28 46 13 31-1732 EA Black, 220-240 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote Audio Amplifier (Notifier NFC-50DAE)	2,535.21	68.76
28 46 13 31-1733 EA Black, 120 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA)	4,572.95	68.76
28 46 13 31-1734 EA Black, 220-240 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE)	4,723.23	68.76
28 46 13 31-1735 EA 50 Watt, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt)	708.94	34.38
28 46 13 31-1736 EA 50 Watt, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt)	708.94	34.38
28 46 13 31-1737 EA Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4)	531.00	34.38
28 46 13 31-1738 EA Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6)	953.89	34.38
28 46 13 31-1739 EA Standalone Firefighter Telephone System (Notifier NFC-FFT)	3,363.23	68.76
Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.		



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28 46 13 31-1740 EA Local Operator Console (Notifier NFC-LOC) Note: Includes built-in microphone, message and zone control switches, black.	3,291.10	68.76
28 46 13 31-1741 EA Black, Remote Microphone (Notifier NFC-RM)	975.53	
28 46 13 31-1742 EA Remote Page Unit (Notifier NFC-RPU)..... Note: Includes built-in microphone, message control switches, black.	2,772.65	68.76
28 46 13 31-1743 EA 70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V)	404.00	34.38
28 46 13 31-1744 EA Firefighters Phone Jack (Notifier N-FPJ)	183.67	10.31
28 46 13 31-1745 EA Thumbatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH)	52.21	10.31
28 46 13 31-1746 EA Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B)	166.26	20.63
28 46 13 31-1747 LED Displays (28 46 13 31-1147)		
28 46 13 31-1748 EA 2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215).....	2,655.25	41.26
28 46 13 31-1749 EA Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW).....	3,733.17	55.01
28 46 13 31-1750 EA 4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT)	3,776.75	55.01
28 46 13 31-1751 EA 8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8)	3,626.48	55.01
28 46 13 31-1752 EA 16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16)	5,084.16	55.01
28 46 13 31-1753 EA LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V).....	3,851.89	55.01
28 46 13 31-1754 Control Relays (28 46 13 31-1147)		
28 46 13 31-1755 EA Single SPDT Relay With LED With Metal Back Box And Red Plastic Cover (Notifier MR-101/CR).....	83.24	17.19
28 46 13 31-1756 EA Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T)	63.90	17.19
28 46 13 31-1757 EA Four Position SPDT Relay With LEDs With Metal Back Box And Red Plastic Cover (Notifier MR-104/CR).....	226.08	34.38
28 46 13 31-1758 EA Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T)	126.20	17.19
28 46 13 31-1759 EA Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T)	149.94	17.19
28 46 13 31-1760 EA 24 Volt DC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C).....	232.37	34.38
28 46 13 31-1761 EA 120 Volt AC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C).....	232.37	34.38
28 46 13 31-1762 EA Single DPDT Relay With LED With Metal Back Box And Red Plastic Cover (Notifier MR-201/CR)	121.39	34.38
28 46 13 31-1763 EA Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T)	68.93	17.19
28 46 13 31-1764 EA Four Position DPDT Relay With LEDs With Metal Back Box And Red Plastic Cover (Notifier MR-204/CR)	246.68	34.38
28 46 13 31-1765 EA 24 Volt DC / 24 Volt AC / 115 Volt AC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-1).....	89.58	34.38
28 46 13 31-1766 EA 12/24 Volt DC, 7 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-2).....	89.58	34.38
28 46 13 31-1767 EA 9 To 40 Volt DC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-4).....	89.58	34.38
28 46 13 31-1768 Gamewell-FCI Fire Control Instruments (28 46 13 31-1147)		
28 46 13 31-1769 7100 Series And NetSOLO® (28 46 13 31-1768)		
28 46 13 31-1770 7100 Compact Analog Addressable Fire Alarm Control Panels (28 46 13 31-1769)		
28 46 13 31-1771 EA Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M)	1,248.73	412.58
28 46 13 31-1772 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2)	5,347.48	687.63
28 46 13 31-1773 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D).....	5,840.49	687.63
28 46 13 31-1774 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2-E).....	5,347.48	687.63
28 46 13 31-1775 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2D-E).....	5,840.49	687.63
28 46 13 31-1776 EA Removal And Replacement Of Board For 7100-1D (Gamewell-FCI BSM-7100-1).....	1,656.47	
28 46 13 31-1777 EA Removal And Replacement Of Board For 7100-2 (Gamewell-FCI BSM-7100-1D).....	1,986.30	
28 46 13 31-1778 EA Analog Loop Unit (Gamewell-FCI ALU)	1,986.30	68.76
28 46 13 31-1779 NetSOLO® Intelligent Network (28 46 13 31-1769)		
28 46 13 31-1780 EA Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO)	2,203.29	68.76
Note: Mounted in 7100 panel.		
28 46 13 31-1781 EA Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP).....	1,750.21	68.76
Note: Mounted in 7100 panel.		
28 46 13 31-1782 Components And Accessories (28 46 13 31-1769)		
28 46 13 31-1783 EA Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100).....	1,085.68	51.57
28 46 13 31-1784 EA Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100)	824.96	68.76
28 46 13 31-1785 EA Fiber Optic Line Driver Module (Gamewell-FCI FLD-1)	1,514.12	68.76
28 46 13 31-1786 EA Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM)	609.70	68.76
28 46 13 31-1787 EA Enclosure Box (Gamewell-FCI EN-7100)	495.52	137.53
28 46 13 31-1788 EA Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2)	1,582.49	34.38
28 46 13 31-1789 E3 Series® Basic System (28 46 13 31-1768)		
28 46 13 31-1790 EA Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3).....	1,455.91	68.76
28 46 13 31-1791 EA Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3)	1,251.79	68.76
28 46 13 31-1792 EA Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3).....	1,455.91	68.76
28 46 13 31-1793 EA Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3).....	1,251.79	68.76
28 46 13 31-1794 EA LCD Keypad Display (Gamewell-FCI LCD-E3).....	925.70	68.76
28 46 13 31-1795 EA Power Supply Module (Gamewell-FCI PM-9)	1,212.53	68.76
28 46 13 31-1796 EA Transponder 9 Amperes Power Supply (Gamewell-FCI PM-9 INX)	1,020.70	68.76
28 46 13 31-1797 EA Power Supply And Charger, 120/220 Volt AC (Gamewell-FCI PM-9G 9A)	1,010.04	34.38
28 46 13 31-1798 EA Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3)	579.82	68.76
28 46 13 31-1799 EA Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO)	1,555.14	68.76

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1800 EA Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP)	1,302.79	68.76
28 46 13 31-1801 EA Local Operating Console (Gamewell-FCI 1100-0455)	869.59	51.57
28 46 13 31-1802 EA Network Graphic Annunciator (Gamewell-FCI 1100-0505)	2,804.60	51.57
28 46 13 31-1803 EA 70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70)	1,112.42	68.76
28 46 13 31-1804 EA INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326)	3,392.08	68.76
28 46 13 31-1805 EA 8-1/4" Wide x 10" High x 4-1/2" Deep Cabinet (Gamewell-FCI E3BB-BAA1)	782.20	137.53
28 46 13 31-1806 EA C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC)	575.40	137.53
28 46 13 31-1807 EA Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP)	126.20	34.38
28 46 13 31-1808 EA Programmable Switch Module (Gamewell-FCI ASM-16)	779.70	68.76
28 46 13 31-1809 EA LED Driver module (Gamewell-FCI ANU-48)	779.70	68.76
28 46 13 31-1810 EA Network Graphic Annunciator (Gamewell-FCI NGA)	2,351.45	51.57
28 46 13 31-1811 Addressable Devices, Module, Pulls And Accessories (28 46 13 31-1768)		
28 46 13 31-1812 Velociti® Series Sensors And Bases (28 46 13 31-1811)		
28 46 13 31-1813 EA Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F)	245.49	51.57
28 46 13 31-1814 EA Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F)	250.69	51.57
28 46 13 31-1815 EA Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F)	266.32	51.57
28 46 13 31-1816 EA Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F)	203.82	51.57
28 46 13 31-1817 EA Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F)	212.50	51.57
28 46 13 31-1818 EA Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F)	203.82	51.57
28 46 13 31-1819 EA Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F)	302.77	51.57
28 46 13 31-1820 EA Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS)	667.32	51.57
28 46 13 31-1821 EA Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPF)	562.48	85.96
28 46 13 31-1822 EA Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF)	631.92	85.96
28 46 13 31-1823 EA Removal And Replacement Of Duct Detector Board (Gamewell-FCI ADP-F-SB)	305.57	
28 46 13 31-1824 EA Flanged Mounting Base, For Use With Analog Sensor Or Velociti Sensors (Gamewell-FCI ADB-FLF)	62.15	17.19
28 46 13 31-1825 EA Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F)	719.40	51.57
28 46 13 31-1826 EA Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXF)	142.88	17.19
28 46 13 31-1827 EA Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F)	2,549.80	103.14
28 46 13 31-1828 Velociti® Series Modules And Pull Station (28 46 13 31-1811)		
28 46 13 31-1829 EA Style B, Class B Addressable Monitor Module (Gamewell-FCI AMM-2F)	178.99	34.38
28 46 13 31-1830 EA Dual Style B, Class B Addressable Monitor Module (Gamewell-FCI AMM-2IF)	289.22	34.38
28 46 13 31-1831 EA Style D, Class A Addressable Monitor Module (Gamewell-FCI AMM-4F)	196.35	34.38
28 46 13 31-1832 EA Subloop Style D, Class A Addressable Monitor Module (Gamewell-FCI AMM-4SF)	277.07	34.38
28 46 13 31-1833 EA Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF)	231.07	34.38
28 46 13 31-1834 EA Addressable Output Supervised Module (Gamewell-FCI AOM-2SF)	239.75	34.38
28 46 13 31-1835 EA Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF)	334.56	68.76
28 46 13 31-1836 EA Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF)	247.56	34.38
28 46 13 31-1837 EA Telephone Filters (Gamewell-FCI AOM-TEL-FL)	39.80	6.87
28 46 13 31-1838 Components And Accessories (28 46 13 31-1811)		
28 46 13 31-1839 EA Remote LED Annunciator Alarm (Gamewell-FCI RA400Z)	98.41	27.50
Note: Mounts on single gang box.		
28 46 13 31-1840 EA Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5)	49.20	13.76
28 46 13 31-1841 EA >2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3)	52.67	13.76
28 46 13 31-1842 EA >4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5)	63.02	17.19
28 46 13 31-1843 EA >8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10)	102.02	20.63
28 46 13 31-1844 EA Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451)	152.22	27.50
Note: Mounts on single gang box.		
28 46 13 31-1845 Fixed And Rate of Rise Heat Detectors (28 46 13 31-1811)		
28 46 13 31-1846 EA 135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P)	132.65	51.57
28 46 13 31-1847 EA 194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602)	132.65	51.57
28 46 13 31-1848 EA 135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603)	130.26	51.57
28 46 13 31-1849 EA 194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604)	130.26	51.57
28 46 13 31-1850 NAC Expander/Power Supply (28 46 13 31-1811)		
28 46 13 31-1851 EA FireForce 8 NAC Expander/Power Supply, 12/24 Volt DC, 8 Amperes, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8)	2,350.08	550.10
28 46 13 31-1852 EA 6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6)	2,020.25	550.10
28 46 13 31-1853 EA 9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9)	2,185.17	550.10
28 46 13 31-1854 Batteries And Accessories (28 46 13 31-1768)		
28 46 13 31-1855 EA B-17R, 12 Volt DC, 17 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A)	367.34	34.38
28 46 13 31-1856 EA B-55R, 12 Volt DC, 55 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A)	933.25	34.38
28 46 13 31-1857 EA B-7R, 12 Volt DC, 7 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A)	193.75	34.38
28 46 13 31-1858 EA BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653)	451.73	68.76
28 46 13 31-1859 EA BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654)	451.73	68.76
28 46 13 31-1860 EA 12" High x 12" Wide x 24" Length Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970)	401.39	68.76



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1861		Electronic Door Holders (28 46 13 31-1768) Note: Rixson products.		
28 46 13 31-1862	EA	XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000).....	64.80	6.87
28 46 13 31-1863	EA	FM-980, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Door Holder(Gamewell-FCI 140-90000)	519.76	51.57
28 46 13 31-1864	EA	FM-981, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Holder For Double Doors (Gamewell-FCI 140-90001)	708.98	51.57
28 46 13 31-1865	EA	FM-990, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Low Profile Mount Door Holder (Gamewell-FCI 140-90002)	331.24	51.57
28 46 13 31-1866	EA	FM-996, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mount Door Holder (Gamewell-FCI 140-90003)	315.62	51.57
28 46 13 31-1867	EA	FM-997, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder (Gamewell-FCI 140-90004)	331.24	51.57
28 46 13 31-1868	EA	FM-998, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder With Concealed Wiring (Gamewell-FCI 140-90005)	330.55	51.57
28 46 13 31-1869		Fire Alarm Programming (28 46 13 31-1768) Note: For device replacement projects only. Tasks not to be used on projects where a fire alarm panel is replaced.		
28 46 13 31-1870	EA	Program And Test Up To 5 Total Fire Alarm Devices	500.00	
28 46 13 31-1871	EA	Program And Test >5 To 20 Total Fire Alarm Devices	1,000.00	
28 46 13 31-1872	EA	Program And Test >20 To 50 Total Fire Alarm Devices	2,000.00	
28 46 13 31-1873		Fire-Lite Fire Alarm (28 46 13 31-1146)		
28 46 13 31-1874		Intelligent Addressable Fire Alarm Control Panel (28 46 13 31-1873)		
28 46 13 31-1875	EA	50 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-50X)	1,299.81	275.06
28 46 13 31-1876	EA	198 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-200X)	1,656.97	309.43
28 46 13 31-1877	EA	954 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-1000X)	2,429.07	343.82
28 46 13 31-1878	EA	Loop Expander Module (Fire-Lite SLC-3LS)	702.82	51.57
28 46 13 31-1879	EA	Optional Cabinet For 1 Or 2 Modules (Fire-Lite BB-2F)	203.35	34.38
28 46 13 31-1880	EA	Optional Cabinet For Up To 6 Modules Mounted On CHS-6 (Fire-Lite BB-6F)	282.24	34.38
28 46 13 31-1881	EA	Battery Back Box (Fire-Lite BB-26)	173.24	20.63
28 46 13 31-1882	EA	Battery Box (Fire-Lite BB-55F)	313.27	20.63
28 46 13 31-1883	EA	Chassis, Mounts Up To 6 Multi-Modules In A BB-6F Cabinet (Fire-Lite CHS-6)	89.02	13.76
28 46 13 31-1884	EA	Chassis, Mounts Up To Six Multi-Modules In A BB-6F Cabine (Fire-Lite CHG-75)	729.62	34.38
28 46 13 31-1885	EA	Battery Charger For Lead-Acid Batteries With A Rating Of 25 To 75 AH (Fire-Lite CHG-120F)	1,553.51	68.76
28 46 13 31-1886	EA	6 AMP, NAC Expander Power Supply (Fire-Lite FL-PS6)	844.04	34.38
28 46 13 31-1887	EA	10 AMP, NAC Expander Power Supply (Fire-Lite FL-PS10)	871.71	34.38
28 46 13 31-1888	EA	Remote, Red LCD Annunciator Mimics The Information Displayed On The Face LCD Display (Fire-Lite ANN-80)	348.95	34.38
28 46 13 31-1889	EA	Led Driver Module Provides Connections To A User Supplied Graphic Annunciator (Fire-Lite ANN-I/O)	424.24	34.38
28 46 13 31-1890	EA	Annunciator Module Provides Three Leds For Each Zone: Alarm, Trouble, And Supervisory. Ships With Red Enclosure (Fire-Lite ANN-LED)	372.61	34.38
28 46 13 31-1891	EA	Provides Alarm (Red) Indicators For Up To 30 Input Zones Or Addressable Points (Fire-Lite ANN-RLED)	372.61	34.38
28 46 13 31-1892	EA	Relay Module Provides 10 Programmable Form-C Relays (Fire-Lite ANN-RLY)	302.10	34.38
28 46 13 31-1893	EA	Serial/Parallel Printer Gateway Module (Fire-Lite ANN-S/PG)	295.71	34.38
28 46 13 31-1894	EA	Addressable Low-Profile Photoelectric Smoke Detector (Fire-Lite SD365 A)	165.31	51.57
28 46 13 31-1895	EA	Addressable Low-Profile Photoelectric Smoke Detector With Thermal Sensor (Fire-Lite SD365T A)	182.72	51.57
28 46 13 31-1896	EA	Remote Test Capable Addressable Photoelectric Smoke Detector For Use With DNR (W) Duct Detector Housing (Fire-Lite SD365R A)	187.71	51.57
28 46 13 31-1897	EA	Addressable, Low-Profile Device That Provides Fire, Heat, And Carbon Monoxide (CO) Detection (Fire-Lite SD365CO)	319.38	51.57
28 46 13 31-1898	EA	Low-Profile 135°F Fixed Thermal Sensor (Fire-Lite H365 A)	159.08	51.57
28 46 13 31-1899	EA	Low-Profile, Intelligent, Rate-Of-Rise Thermal Sensor (Fire-Lite H365R A)	176.42	51.57
28 46 13 31-1900	EA	Low-Profile Intelligent 190°F/88°C Fixed Thermal Sensor (Fire-Lite H365HT A)	204.70	51.57
28 46 13 31-1901	EA	Low-Flow Non-Relay Duct-Detector Housing (Fire-Lite D365PL)	600.27	51.57
28 46 13 31-1902	EA	Addressable Low-Profile Ionization Smoke Detector (Fire-Lite CP355 A)	235.49	51.57
28 46 13 31-1903	EA	Addressable Low-Profile Photoelectric Smoke Detector (Fire-Lite SD355 A)	165.31	51.57
28 46 13 31-1904	EA	Addressable Low-Profile Photoelectric Smoke Detector With Thermal Sensor (Fire-Lite SD355T A)	207.34	51.57
28 46 13 31-1905	EA	Remote Test Capable Addressable Photoelectric Smoke Detector For Use With DNR (W) Duct Detector Housing (Fire-Lite SD355R A)	229.61	51.57
28 46 13 31-1906	EA	Addressable, Low-Profile Device That Provides Fire, Heat, And Carbon Monoxide (Co) Detection (Fire-Lite SD355CO)	174.63	51.57
28 46 13 31-1907	EA	Fast-Response, Low-Profile Heat Detector (Fire-Lite H355 A)	206.76	51.57
28 46 13 31-1908	EA	Fast-Response, Low-Profile Heat Detector With Rate-Of-Rise Option (Fire-Lite H355R A)	200.79	51.57
28 46 13 31-1909	EA	Fast-Response, Low-Profile Heat Detector That Activates At 190°F/88°C (Fire-Lite H355HT A)	231.57	51.57
28 46 13 31-1910	EA	Low-Profile, Intelligent, 'Adapt' Multi-Sensor Detector (B350LP Base Included) (Fire-Lite AD355 A)	226.67	51.57
28 46 13 31-1911	EA	Programmable, Addressable Sounder Base (Fire-Lite B200S(A)-WH)	144.69	34.38
28 46 13 31-1912	EA	Addressable Sounder Base (Fire-Lite B200SR(A)-WH)	164.91	34.38
28 46 13 31-1913	EA	Programmable, Addressable Sounder Base, Low-Frequency (Fire-Lite B200S-LF-WH)	186.69	34.38
28 46 13 31-1914	EA	Addressable Sounder Base, Low-Frequency (Fire-Lite B200SR-LF-WH)	190.36	34.38
28 46 13 31-1915	EA	Intelligent Beam Smoke Detector (Fire-Lite BEAM355)	1,608.05	51.57
28 46 13 31-1916	EA	Intelligent Beam Smoke Detector With Integral Sensitivity Test (Fire-Lite BEAM355S)	1,837.47	51.57
28 46 13 31-1917	EA	Innovairflex Low-Flow Non-Relay Duct-Detector Housing (Includes SD355R) (Fire-Lite D355PL A)	270.52	34.38
28 46 13 31-1918	EA	Innovairflex Low-Flow Non-Relay Duct-Detector Housing (Fire-Lite DNR A)	169.69	34.38
28 46 13 31-1919	EA	Innovairflex Low-Flow Non-Relay Duct-Detector Housing, With NEMA-4 Rating, Watertight (Fire-Lite DNRW)	253.52	34.38
28 46 13 31-1920	EA	Addressable Control Module For One Class B Or A Zone Of Supervised Polarized Notification Appliances (Fire-Lite CMF-300)	109.83	20.63
28 46 13 31-1921	EA	Six-Circuit Supervised Control Module (Fire-Lite CMF-300-6)	540.41	34.38
28 46 13 31-1922	EA	Addressable Relay Module Containing Two Isolated Sets Of Form-C Contacts, Which Operate As A Dpdt Switch (Fire-Lite CRF-300)	166.89	34.38
28 46 13 31-1923	EA	Six-Relay Control Module (Form-C Relays) (Fire-Lite CRF-300-6)	453.59	34.38
28 46 13 31-1924	EA	Module Isolates The SLC (DCL) Loop From Short Circuit Conditions (Fire-Lite I300)	89.97	17.19
28 46 13 31-1925	EA	Six-Fault Isolator Module (Fire-Lite ISO-6)	407.77	34.38

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1926 EA Dual Monitor Module (Fire-Lite MDF-300)	200.11	34.38
28 46 13 31-1927 EA Addressable Monitor Module For One Zone Of Normally-Open Dry-Contact Initiating Devices (Fire-Lite MMF-300)	89.73	17.19
28 46 13 31-1928 EA Ten-Input Monitor Module (Fire-Lite MMF-300-10)	583.80	34.38
28 46 13 31-1929 EA Miniature Version Of MMF-300 (Fire-Lite MMF-301)	120.89	27.50
28 46 13 31-1930 EA Addressable Monitor Module For One Zone Of Conventional Two-Wire Detectors (Fire-Lite MMF-302)	170.29	34.38
28 46 13 31-1931 EA Six-Zone Interface Module (Fire-Lite MMF-302-6)	577.55	34.38
28 46 13 31-1932 EA Mount For Modules (Fire-Lite SMB500)	18.09	3.44
28 46 13 31-1933 Addressable Control Panels (28 46 13 31-1873)		
28 46 13 31-1934 EA 25 Point Intelligent Control (Fire Lite MS-25)	2,429.77	687.63
28 46 13 31-1935 EA 50 Point Intelligent Control (Fire Lite MS-9050UD)	2,686.34	687.63
28 46 13 31-1936 EA 198-Point Intelligent Control (Fire Lite MS-9200UDLS)	3,769.40	687.63
28 46 13 31-1937 EA 636-Point Intelligent Control (Fire Lite MS-9600LS)	5,582.15	687.63
28 46 13 31-1938 EA 636-Point Intelligent Control (Fire Lite MS-9600UDLS)	5,466.70	687.63
28 46 13 31-1939 EA IP And 4G Cellur Fire Alarm Communicator For Fire Alarm Control Panel (Fire-Lite IPGSM-4G)	714.42	
28 46 13 31-1940 Silent Knight Fire Alarm (28 46 13 31-1146)		
28 46 13 31-1941 Addressable Fire Alarm Control Panel (28 46 13 31-1940)		
28 46 13 31-1942 EA Addressable Fire Alarm Control Panel (Silent Knight 6820)	2,498.67	343.82
28 46 13 31-1943 Intelligent Addressable Fire Alarm Control Panel with Emergency Voice System (28 46 13 31-1940)		
28 46 13 31-1944 EA Intelligent Fire Alarm Control Panel with Emergency Voice System (Silent Knight 6820EVS)	4,721.42	343.82
28 46 13 31-1945 Compatable EVS Equipment (28 46 13 31-1940)		
28 46 13 31-1946 EA 50 Watt Amplifier (Silent Knight EVS-50W)	863.78	68.76
28 46 13 31-1947 EA 125 Watt Amplifier (Silent Knight EVS-125W)	1,493.09	68.76
28 46 13 31-1948 EA 50/100 Watt Amplifier (Silent Knight EVS-100W)	1,849.10	68.76
28 46 13 31-1949 EA External Backup Amplifier (Silent Knight EVS-100WBU)	668.15	68.76
28 46 13 31-1950 EA 50 Watt Internal Amplifier (Silent Knight EVS-INT50W)	629.97	68.76
28 46 13 31-1951 EA 4 Additional Audio Circuits (Silent Knight EVS-CE4)	226.07	17.19
28 46 13 31-1952 EA Remote Voice Module (Silent Knight EVS-RVM)	987.74	27.50
28 46 13 31-1953 EA 24 Switch Expander (Silent Knight EVS-SW24)	401.49	34.38
28 46 13 31-1954 EA Network Voice Control Module (Silent Knight EVS-VCN)	1,179.99	27.50
28 46 13 31-1955 EA Local Operator Console (Silent Knight EVS-LOC)	1,601.81	68.76
28 46 13 31-1956 Compatable SBUS Devices (28 46 13 31-1940)		
28 46 13 31-1957 EA 4x40 LCD Remote Fire Annunciator With Four Programmable Buttons, Red (Silent Knight 6860)	970.87	68.76
28 46 13 31-1958 EA 4x20 LCD Remote Fire Annunciator, Gray (Silent Knight 5860)	451.36	68.76
28 46 13 31-1959 EA 4x20 LCD Remote Fire Annunciator, Red (Silent Knight 5860R)	532.05	68.76
28 46 13 31-1960 EA 4x20 LCD Remote Fire Annunciator, Red (Silent Knight 6855)	359.88	68.76
28 46 13 31-1961 EA LED Annunciators- Display Up To 30 LEDs (15 Red/15 Yellow) (Silent Knight 5865-3)	454.39	68.76
28 46 13 31-1962 EA LED Annunciators- Display Up To 30 LEDs (15 Red/15 Yellow) With Key Switches For Silence And Reset, And A System Trouble Led (Silent Knight 5865-4)	478.65	68.76
28 46 13 31-1963 EA LED I/O Module With 40 Programmable LED Outputs And Eight Supervised Dry Contact Inputs (Silent Knight 5880)	373.01	51.57
28 46 13 31-1964 EA Relay Interface. Provides 10 Form C Relays (Silent Knight 5883)	227.56	34.38
28 46 13 31-1965 EA Serial/Parallel Printer Interface Module For Printer Connection (Silent Knight 5824)	303.03	34.38
28 46 13 31-1966 SK Compatible Addressable Device (28 46 13 31-1940)		
28 46 13 31-1967 EA Multi Criteria Photoelectric Smoke Detector With Thermal 135°F Fixed Temperature (Silent Knight SK-ACCLIMATE)	172.13	51.57
28 46 13 31-1968 EA Reflected Beam Smoke Detector Without Test Feature (Silent Knight SK-BEAM)	883.50	51.57
28 46 13 31-1969 EA Reflected Beam Smoke Detector With Test Feature (Silent Knight SK-BEAM-T)	998.84	51.57
28 46 13 31-1970 EA Reflected Beam Smoke Detector, SK Protocol (Silent Knight OSI-RI-SK)	1,123.93	51.57
28 46 13 31-1971 EA Supervised Control Module (Silent Knight SK-CONTROL)	170.61	51.57
28 46 13 31-1972 EA Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6)	477.65	68.76
28 46 13 31-1973 EA Photoelectric Duct Smoke Detector With Extended Air Speed Range (Silent Knight SK-DUCT)	264.17	51.57
28 46 13 31-1974 EA Four Criteria Fire And Carbon Monoxide Detector (Silent Knight SK-FIRE-CO)	240.39	51.57
28 46 13 31-1975 EA Four Criteria Fire And Carbon Monoxide Detector, White (Silent Knight SK-FIRE-CO-W)	266.08	51.57
28 46 13 31-1976 EA Fixed Thermal Detector (135°F) (Silent Knight SK-HEAT)	158.35	51.57
28 46 13 31-1977 EA Fixed Thermal Detector (135°F), White (Silent Knight SK-HEAT-W)	162.26	51.57
28 46 13 31-1978 EA Fixed Rate Of Rise Detector (Silent Knight SK-HEAT-ROR)	159.89	51.57
28 46 13 31-1979 EA Fixed Rate Of Rise Detector, White (Silent Knight SK-HEAT-ROR-W)	162.26	51.57
28 46 13 31-1980 EA Fixed High Temperature Heat Detector (190°F) (Silent Knight SK-HEAT-HT)	158.35	51.57
28 46 13 31-1981 EA Fixed High Temperature Heat Detector (190°F), White (Silent Knight SK-HEAT-HT-W)	162.26	51.57
28 46 13 31-1982 EA Fault Isolator Module (Silent Knight SK-ISO)	158.35	51.57
28 46 13 31-1983 EA Mini Monitor Module (Silent Knight SK-MINIMON)	147.60	51.57
28 46 13 31-1984 EA Monitor Module (Silent Knight SK-MONITOR)	155.55	51.57
28 46 13 31-1985 EA Dual Input Monitor Module (Silent Knight SK-MONITOR-2)	195.16	51.57
28 46 13 31-1986 EA 10 Input Monitor Module (Silent Knight SK-MON-10)	535.32	68.76
28 46 13 31-1987 EA Photoelectric Smoke Detector (Silent Knight SK-PHOTO)	161.42	51.57
28 46 13 31-1988 EA Photoelectric Smoke Detector, White (Silent Knight SK-PHOTO-W)	169.46	51.57



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1989 EA Photoelectric Detector With Remote Test Capability (Silent Knight SK-PHOTO-R)	163.71	51.57
28 46 13 31-1990 EA Photoelectric Detector With Remote Test Capability, White (Silent Knight SK-PHOTO-R-W)	171.87	51.57
28 46 13 31-1991 EA Photoelectric Smoke Detector With Fixed Thermal Heat (135°F) (Silent Knight SK-PHOTO-T)	167.55	51.57
28 46 13 31-1992 EA Photoelectric Smoke Detector With Fixed Thermal Heat (135°F), White (Silent Knight SK-PHOTO-T-W)	175.69	51.57
28 46 13 31-1993 EA Multi Criteria Photoelectric Smoke Detector With Thermal 135°F Fixed Temperature, White (Silent Knight SK-PTIR-W)	185.30	51.57
28 46 13 31-1994 EA Addressable Single Action Pull Station (Silent Knight SK-PULL-SA)	146.31	34.38
28 46 13 31-1995 EA Addressable Dual Action Pull Station (Silent Knight SK-PULL-DA)	146.31	34.38
28 46 13 31-1996 EA Addressable Relay Module (Silent Knight SK-RELAY)	136.23	34.38
28 46 13 31-1997 EA Addressable Six Relay Control Module (Silent Knight SK-RELAY-6)	465.82	68.76
28 46 13 31-1998 EA Addressable Dual Relay/Monitor Module (Silent Knight SK-RELAYMON-2)	294.83	51.57
28 46 13 31-1999 EA Addressable Zone Interface Module (Silent Knight SK-ZONE)	182.89	51.57
28 46 13 31-2000 EA Six Zone Interface Module (Silent Knight SK-ZONE-6)	556.03	68.76
28 46 13 31-2001 SK Bases (28 46 13 31-1940)		
28 46 13 31-2002 EA 6" Mounting Base (Silent Knight B210LP)	47.03	17.19
28 46 13 31-2003 EA 4" Flangeless Mounting Base (Silent Knight B501)	49.59	17.19
28 46 13 31-2004 EA Intelligent Sounder Base (Silent Knight B200S)	89.58	17.19
28 46 13 31-2005 EA Low-Frequency Intelligent Sounder Base (Silent Knight B200-LF)	121.80	17.19
28 46 13 31-2006 EA Relay Base (Silent Knight B224RB)	74.88	17.19
28 46 13 31-2007 EA Isolator Base (Silent Knight B224BI)	74.09	17.19
28 46 13 31-2008 SD Compatible Addressable Device (28 46 13 31-1940)		
28 46 13 31-2009 EA Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB)	45.42	17.19
28 46 13 31-2010 EA Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB)	58.89	17.19
28 46 13 31-2011 EA 6" Addressable Relay Base (Silent Knight SD505-6RB)	149.05	17.19
28 46 13 31-2012 EA 6" Addressable Sounder Base (Silent Knight SD505-6SB)	154.10	17.19
28 46 13 31-2013 EA Addressable Input Module (Silent Knight SD500-AIM)	257.63	51.57
28 46 13 31-2014 EA Addressable Notification Module (Silent Knight SD500-ANM)	247.31	51.57
28 46 13 31-2015 EA Addressable Relay Module (Silent Knight SD500-ARM)	265.16	51.57
28 46 13 31-2016 System Expanders (28 46 13 31-1940)		
28 46 13 31-2017 EA SLC Expander For IDP Or SK Devices (Silent Knight 6815)	530.62	68.76
28 46 13 31-2018 EA SLC Expander For SD Devices (Silent Knight 5815XL)	471.06	68.76
28 46 13 31-2019 EA 6A Power Supply With 6 Flexput Circuits And 2 Form C Relays (Silent Knight RPS-1000)	802.25	34.38
28 46 13 31-2020 EA 6 AMP NAC Power Expander With 4 Power-Limited Output Ckts (Silent Knight 5496)	592.90	103.14
28 46 13 31-2021 Miscellaneous Accessories (28 46 13 31-1940)		
28 46 13 31-2022 EA Remote Battery Box Accessory Cabinet (Silent Knight RBB)	146.97	34.38
28 46 13 31-2023 Silent Knight Fire Alarm (28 46 13 31-1146)		
28 46 13 31-2024 EA Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL-EVS)	5,814.70	343.82
28 46 13 31-2025 EA Supervised Remote Command Unit (Silent Knight EVS-RCU)	2,406.96	206.29
28 46 13 31-2026 EA Voice Evacuation System (Silent Knight SKE-450)	2,885.62	137.53
28 46 13 31-2027 EA Fire Fighters Telephone (Silent Knight SK-FFT)	2,391.73	137.53
28 46 13 31-2028 EA Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL)	2,543.71	206.29
28 46 13 31-2029 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808)	1,817.87	137.53
28 46 13 31-2030 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700)	1,386.44	137.53
28 46 13 31-2031 EA Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600)	1,193.67	137.53
28 46 13 31-2032 EA Ionization Smoke Detector (Silent Knight SK-ION)	227.44	51.57
28 46 13 31-2033 EA Sounder Base (Silent Knight B200SR)	129.18	17.19
28 46 13 31-2034 EA Intelligent Sounder Base (Silent Knight B200S)	136.87	17.19
28 46 13 31-2035 EA Isolator Base (Silent Knight B224BI)	107.43	17.19
28 46 13 31-2036 EA Relay Base (Silent Knight B224RB)	108.69	17.19
28 46 13 31-2037 EA Analog Ionization Smoke Detector (Silent Knight SD505-AIS)	222.53	51.57
28 46 13 31-2038 EA Addressable Heat Sensor (Silent Knight SD505-AHS)	189.52	51.57
28 46 13 31-2039 EA Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS)	208.19	51.57
28 46 13 31-2040 EA 6" Isolator Base (Silent Knight SD505-6IB)	135.61	17.19
28 46 13 31-2041 EA SLC Annunciator Driver Module (Silent Knight SD500-LED)	898.82	103.14
28 46 13 31-2042 EA Loop Isolation Module (Silent Knight SD500-LIM)	215.89	51.57
28 46 13 31-2043 EA Addressable Mini Input Module (Silent Knight SD500-MIM)	169.99	34.38
28 46 13 31-2044 EA Single Action Addressable Pull Station (Silent Knight SD500-PS)	219.29	34.38
28 46 13 31-2045 EA Dual Action Addressable Pull Station (Silent Knight SD500-PSDA)	209.42	34.38
28 46 13 31-2046 EA Back Box (Silent Knight SK-PSSMBB)	96.33	27.50
28 46 13 31-2047 EA Smoke Detector Module (Silent Knight SD500-SDM)	241.32	51.57
28 46 13 31-2048 EA Addressable Duct Housing (Silent Knight SD505-DUCT)	315.00	51.57
28 46 13 31-2049 EA Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR)	510.16	51.57
28 46 13 31-2050 EA Addressable Duct Detector Test Switch (Silent Knight SD505-DTS)	213.33	51.57
28 46 13 31-2051 EA Intelligent Power Module (Silent Knight 5895XL)	1,296.00	137.53
28 46 13 31-2052 EA Addressable Pull Station (Silent Knight SK-Pull-DA/SA)	209.42	34.38
28 46 13 31-2053 EA Digital Fire Communicator with Cabinet (Silent Knight SK-5104)	729.83	103.14
28 46 13 31-2054 EA Communicator (Silent Knight IPGSM-4G)	1,080.11	68.76
28 46 13 31-2055 EA Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208)	1,707.34	137.53
28 46 13 31-2056 EA 10 Zone Expander (Silent Knight SK-5217)	478.20	34.38

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2057 EA Remote Annunciator (Silent Knight SK-5235).....	479.52	68.76
28 46 13 31-2058 EA Status Display Module (Silent Knight 5280).....	139.25	34.38
28 46 13 31-2059 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4).....	972.35	137.53
28 46 13 31-2060 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E).....	991.38	137.53
28 46 13 31-2061 EA Dress Panel (Silent Knight SK-DP2/4).....	184.07	34.38
28 46 13 31-2062 EA Class A Converter (Silent Knight SK-CAC4).....	478.85	51.57
28 46 13 31-2063 EA Transmitter Module (Silent Knight SK-4XTM).....	253.67	51.57
28 46 13 31-2064 EA LED Interface Module (Silent Knight SK-4XLM).....	233.92	51.57
28 46 13 31-2065 EA 110 Volt AC, 3-6 Amperes, Transformer (Silent Knight SK-XRM24).....	239.02	34.38
28 46 13 31-2066 EA Remote Annunciator (Silent Knight SK-RZA4).....	233.92	51.57
28 46 13 31-2067 EA Zone Relay Module (Silent Knight SK-4XZM).....	251.19	51.57
28 46 13 31-2068 EA Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2).....	841.44	137.53
28 46 13 31-2069 EA Manual Pull Station (single action) (Silent Knight PS-SATK).....	116.54	34.38
28 46 13 31-2070 EA Manual Pull Station (dual action) (Silent Knight PS-DATK).....	126.07	34.38
28 46 13 31-2071 EA Manual Pull Station (dual action) (Silent Knight PS-DA).....	123.40	34.38
28 46 13 31-2072 EA Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH).....	110.32	34.38
28 46 13 31-2073 EA Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB).....	245.39	41.26
28 46 13 31-2074 EA 6 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5495).....	848.84	103.14
28 46 13 31-2075 EA 9 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5499).....	953.55	103.14
28 46 13 31-2076 EA Detector (Silent Knight IDP-PhotoR).....	293.05	51.57
28 46 13 31-2077 EA Monitoring Module (Silent Knight IDP).....	303.05	51.57
28 46 13 31-2078 EA I/O Input-Output Module (Silent Knight SK-2880).....	768.44	34.38
28 46 13 31-2079 EA Remote Annunciator (Silent Knight RA-2000).....	2,205.39	103.14
28 46 13 31-2080 EA Power Supply (Silent Knight 5195/96).....	1,368.18	34.38
28 46 13 31-2081 EA 8 Zone Expander (Silent Knight SK-5210).....	1,068.31	34.38
28 46 13 31-2082 EA LCD Remote Annunciator (Silent Knight SK-5230).....	455.43	68.76
28 46 13 31-2083 EA Ionization Smoke Detector (Silent Knight SK-ION).....	227.44	51.57
28 46 13 31-2084 EA Addressable Relay Module (Silent Knight IDP-Relay).....	253.07	51.57
28 46 13 31-2085 EA Telephone Line Monitor (Silent Knight SK-7150).....	158.72	34.38
28 46 13 31-2086 EA Serial Driver Board (Silent Knight SK-2884).....	290.66	34.38
28 46 13 31-2087 EA Smoke Detector Base (Silent Knight IDP-6AB).....	84.36	17.19
28 46 13 31-2088 EA Mini Input Module (Silent Knight IDP-MINIMON).....	218.69	34.38
28 46 13 31-2089 EA Status Display Module (Silent Knight SK-4180).....	788.44	34.38
28 46 13 31-2090 EA 8-Channel Digital Communicator (Silent Knight SK-1420).....	468.58	34.38
28 46 13 31-2091 EA Serial Parallel Module (Silent Knight SK-4824).....	428.60	34.38
28 46 13 31-2092 EA Power Supply (Silent Knight SK-5197 / SK-5198).....	1,568.08	34.38
28 46 13 31-2093 EA 4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204).....	2,673.98	137.53
28 46 13 31-2094 EA Intelligent Ionization Smoke Detector (Silent Knight IDP-ION).....	303.05	51.57
28 46 13 31-2095 EA Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo).....	253.07	51.57
28 46 13 31-2096 Alerton Fire Alarm (28 46 13 31)		
28 46 13 31-2097 EA UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100).....	617.88	10.31
28 46 13 31-2098 Cooper Fire Alarm (28 46 13 31)		
28 46 13 31-2099 EA Single Circuit Class A / Multiple B, 12 Or 24 Volt DC, Sync Module (Cooper DSM-12/24-R).....	209.49	34.38
28 46 13 31-2100 EA Red Lens, 21 Joules, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001).....	4,821.01	58.44
28 46 13 31-2101 EA Red, 100 dB, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002).....	6,358.85	58.44
28 46 13 31-2102 EA Red Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001).....	2,319.57	68.76
28 46 13 31-2103 EA Clear Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002).....	2,333.24	68.76
28 46 13 31-2104 EA Amber Lens, 5 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007).....	2,333.24	68.76
28 46 13 31-2105 EA Red Lens, 10 Joules, 24 Volt DC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001).....	1,728.35	68.76
28 46 13 31-2106 EA Amber Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003).....	1,728.35	68.76
28 46 13 31-2107 EA Red Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004).....	1,728.35	68.76
28 46 13 31-2108 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005).....	2,333.24	68.76
28 46 13 31-2109 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006).....	2,333.24	68.76
28 46 13 31-2110 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007).....	2,333.24	68.76
28 46 13 31-2111 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008).....	2,333.24	68.76
28 46 13 31-2112 EA Red Lens, 15 Joules, 24 Volt DC, Wire Guard, Blackstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002).....	2,333.24	68.76
28 46 13 31-2113 EA Red Lens, 21 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001).....	2,686.94	68.76
28 46 13 31-2114 EA Red Lens, 21 Joules, 24 Volt DC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003).....	2,495.56	68.76
28 46 13 31-2115 EA Amber Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005).....	2,495.56	68.76
28 46 13 31-2116 EA Red Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006).....	2,495.56	68.76
28 46 13 31-2117 Light Engineered Displays Message Boards (28 46 13 31)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2118 EA Two Message Sign, Announcement And Evacuate (LED SP-2/MNS).....	996.15	41.26
28 46 13 31-2119 EA Four Message Sign, Fire, Weather, Announcement, E Voltuate (LED SP-4)	878.56	41.26
28 46 13 31-2120 Safety Technology International Fire Alarm (28 46 13 31)		
28 46 13 31-2121 Enclosures (28 46 13 31-2120)		
28 46 13 31-2122 EA 6" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF060604-O)	139.13	20.63
28 46 13 31-2123 EA 6" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF060604-W)	178.46	20.63
28 46 13 31-2124 EA 8" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF080604-O)	141.76	20.63
28 46 13 31-2125 EA 8" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF080604-W)	179.33	20.63
28 46 13 31-2126 EA 8" Height x 8" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF080804-O)	145.25	20.63
28 46 13 31-2127 EA 8" Height x 8" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF080804-W)	205.55	20.63
28 46 13 31-2128 EA 10" Height x 8" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF100806-O)	151.37	20.63
28 46 13 31-2129 EA 10" Height x 8" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF100806-W)	204.68	20.63
28 46 13 31-2130 EA 12" Height x 10" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF121006-O)	161.86	20.63
28 46 13 31-2131 EA 12" Height x 10" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF121006-W)	221.28	20.63
28 46 13 31-2132 EA 14" Height x 12" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF141206-O)	190.69	20.63
28 46 13 31-2133 EA 14" Height x 12" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF141206-W)	284.20	20.63
28 46 13 31-2134 EA 14" Height x 12" Width x 8" Depth, Opaque, Fiberglass Enclosure (STI EF141208-O)	204.68	20.63
28 46 13 31-2135 EA 14" Height x 12" Width x 8" Depth, Opaque, Fiberglass Enclosure With Window (STI EF141208-W)	355.86	20.63
28 46 13 31-2136 EA 16" Height x 14" Width x 8" Depth, Opaque, Fiberglass Enclosure (STI EF161408-O)	216.91	20.63
28 46 13 31-2137 EA 16" Height x 14" Width x 8" Depth, Opaque, Fiberglass Enclosure With Window (STI EF161408-W)	366.34	20.63
28 46 13 31-2138 EA 18" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure (STI EF181610-O)	256.23	20.63
28 46 13 31-2139 EA 18" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure With Window (STI EF181610-W)	375.96	20.63
28 46 13 31-2140 EA 20" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure (STI EF201610-O)	366.34	20.63
28 46 13 31-2141 EA 20" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure With Window (STI EF201610-W)	539.37	20.63
28 46 13 31-2142 EA 6" Height x 6" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP060605-O)	105.93	20.63
28 46 13 31-2143 EA 6" Height x 6" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP060605-T)	114.67	20.63
28 46 13 31-2144 EA 8" Height x 6" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP080605-O)	109.86	20.63
28 46 13 31-2145 EA 8" Height x 6" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP080605-T)	117.29	20.63
28 46 13 31-2146 EA 8" Height x 8" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP080805-O)	113.36	20.63
28 46 13 31-2147 EA 8" Height x 8" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP080805-T)	122.09	20.63
28 46 13 31-2148 EA 10" Height x 8" Width x 6" Depth, Opaque, Polycarbonate Enclosure (STI EP100806-O)	114.67	20.63
28 46 13 31-2149 EA 10" Height x 8" Width x 6" Depth, Tinted, Polycarbonate Enclosure (STI EP100806-T)	132.58	20.63
28 46 13 31-2150 EA 10" Height x 8" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP100807-O)	119.91	20.63
28 46 13 31-2151 EA 10" Height x 8" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP100807-T)	136.08	20.63
28 46 13 31-2152 EA 10" Height x 10" Width x 6" Depth, Opaque, Polycarbonate Enclosure (STI EP101006-O)	124.72	20.63
28 46 13 31-2153 EA 10" Height x 10" Width x 6" Depth, Tinted, Polycarbonate Enclosure (STI EP101006-T)	138.26	20.63
28 46 13 31-2154 EA 12" Height x 10" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP121007-O)	126.03	20.63
28 46 13 31-2155 EA 12" Height x 10" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP121007-T)	142.63	20.63
28 46 13 31-2156 EA 14" Height x 12" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP141207-O)	146.13	20.63
28 46 13 31-2157 EA 14" Height x 12" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP141207-T)	179.33	20.63
28 46 13 31-2158 EA 16" Height x 14" Width x 9" Depth, Opaque, Polycarbonate Enclosure (STI EP161409-O)	160.11	20.63
28 46 13 31-2159 EA 16" Height x 14" Width x 9" Depth, Tinted, Polycarbonate Enclosure (STI EP161409-T)	212.54	20.63
28 46 13 31-2160 EA 18" Height x 16" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP181604-O)	176.71	20.63
28 46 13 31-2161 EA 18" Height x 16" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP181604-T)	227.40	20.63
28 46 13 31-2162 EA 18" Height x 16" Width x 11" Depth, Opaque, Polycarbonate Enclosure (STI EP181611-O)	199.43	20.63
28 46 13 31-2163 EA 18" Height x 16" Width x 11" Depth, Tinted, Polycarbonate Enclosure (STI EP181611-T)	264.97	20.63
28 46 13 31-2164 EA 20" Height x 16" Width x 9" Depth, Opaque, Polycarbonate Enclosure (STI EP201608-O)	312.16	20.63
28 46 13 31-2165 EA 20" Height x 16" Width x 9" Depth, Tinted, Polycarbonate Enclosure (STI EP201608-T)	326.14	20.63
28 46 13 31-2166 EA 24" Height x 24" Width x 10" Depth, Opaque, Polycarbonate Enclosure (STI EP242410-O)	465.97	20.63
28 46 13 31-2167 EA 24" Height x 24" Width x 10" Depth, Tinted, Polycarbonate Enclosure (STI EP242410-T)	538.50	20.63
28 46 13 31-2168 STI® Fire Alarm Devices (28 46 13 31-2120)		
28 46 13 31-2169 EA Pull Station Polycarbonate Cover, Semi-Flush With Horn (STI-1100)	164.91	20.63
Note: Includes 9 Volt DC self contained battery.		
28 46 13 31-2170 EA Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130)	179.33	20.63
28 46 13 31-2171 EA Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200)	108.77	20.63
28 46 13 31-2172 EA Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D)	109.64	20.63
Note: For surface mounted horn strobes.		
28 46 13 31-2173 EA Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E)	98.28	20.63
28 46 13 31-2174 EA Strobe Damage Stopper And Open Back Box With Conduit Knockout (STI-1221D)	109.64	20.63
Note: For surface mounted strobe.		
28 46 13 31-2175 EA Strobe Damage Stopper And Open Back Box, Semi-Flush (STI-1221E)	89.76	20.63
28 46 13 31-2176 EA NEMA 4X Rated Polycarbonate Dome Cover (STI-1229)	201.18	20.63
28 46 13 31-2177 EA Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230)	136.51	20.63
Note: For surface mounted pull stations.		
28 46 13 31-2178 EA Backplate For Polycarbonate Cover (STI-1280)	68.87	20.63
28 46 13 31-2179 EA Conduit Gasket For Polycarbonate Cover (STI-3003)	51.75	20.63
28 46 13 31-2180 EA Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100)	69.84	20.63
28 46 13 31-2181 EA Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150)	151.81	20.63
28 46 13 31-2182 EA 8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-7511A)	126.90	20.63
28 46 13 31-2183 EA Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100)	95.44	20.63
28 46 13 31-2184 EA Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601)	90.63	20.63
28 46 13 31-2185 EA Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602)	87.79	20.63
28 46 13 31-2186 EA Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604)	90.63	20.63
28 46 13 31-2187 EA Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605)	87.79	20.63
28 46 13 31-2188 EA Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609)	90.63	20.63
28 46 13 31-2189 EA Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610)	87.79	20.63

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28 46 13 31-2190 EA Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625).....	165.79	20.63
28 46 13 31-2191 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705).....	82.07	20.63
28 46 13 31-2192 EA Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R)	114.74	20.63
28 46 13 31-2193 EA Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706).....	121.22	20.63
28 46 13 31-2194 EA Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707).....	121.22	20.63
28 46 13 31-2195 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708)	89.76	20.63
28 46 13 31-2196 EA Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R).....	89.76	20.63
28 46 13 31-2197 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711).....	82.07	20.63
28 46 13 31-2198 EA Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713).....	89.76	20.63
28 46 13 31-2199 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714)	89.76	20.63
28 46 13 31-2200 EA Yellow, High Threat, Push Button Station (STI SS-2201)	138.10	10.31
28 46 13 31-2201 EA Gasket Kit For STI Covers (STI SUB-121).....	57.83	
28 46 13 31-2202 EA Stopper II® With Horn Flush Mount, Custom Label (STI STI-1100CR).....	204.13	34.38
28 46 13 31-2203 EA Smoke Detector Guard, Stainless Steel, Surface Mounting, Open Back, 9-1/4" Width, 5" Depth (STI STI-8230-SS)	238.24	20.63
28 46 13 31-2204 EA Universal Cover With Horn, Flush Mount, Momentary Button, Exit Label, Green Stopper Station (STI SS-2144XT)	212.54	20.63
28 46 13 31-2205 EA No Cover, Push And Turn-To-Reset Button, Evacuation Label, Yellow Stopper Station (STI SS-2201EV).....	119.47	20.63
28 46 13 31-2206 EA No Cover, Push And Key-To-Rest Button, Emergency Label, Blue Stopper Station (STI SS-2400EM).....	119.47	20.63
28 46 13 31-2207 EA Universal Cover With Horn, Flush Mount, Push And Key-To-Reset Button, Emergency Label, Blue Stopper Station (STI SS-2440EM)	212.54	20.63
28 46 13 31-2208 EA Flush Mounted, Weather Stopper II (STI-1250).....	127.99	20.63
28 46 13 31-2209 EA Flush Mounted, Clear, Universal Stopper (STI-13000NC).....	87.79	20.63
28 46 13 31-2210 EA Flush Mounted, Universal, Fire Label, Red, Stopper With Horn (STI-13020FR).....	144.81	20.63
28 46 13 31-2211 EA Surface Mounted, Clear, Universal Stopper (STI-13200NC)	104.18	20.63
28 46 13 31-2212 EA Surface Mounted, Fire Label, Red, Universal Stopper (STI-13210FR).....	112.92	20.63
28 46 13 31-2213 EA Surface Mounted, No Label, White, Universal Stopper (STI-13210NW).....	122.09	20.63
28 46 13 31-2214 EA Surface Mounted, No Label, Yellow, Universal Stopper (STI-13210NY).....	122.09	20.63
28 46 13 31-2215 EA Surface Mounted, Fire Label, Red, Universal Stopper With Horn (STI-13220FR)	160.98	20.63
28 46 13 31-2216 EA Surface Mounted, No Label, Yellow, Universal Stopper With Horn (STI-13220NY)	169.72	20.63
28 46 13 31-2217 EA Surface Mounted, Fire Label, Red, Universal Stopper With Horn And Relay (STI-13230FR).....	200.31	20.63
28 46 13 31-2218 EA Stopper II, Weather Gasket (STI-3002)	50.83	20.63
28 46 13 31-2219 EA Large, Break Glass Stopper (STI-4100).....	121.22	20.63
28 46 13 31-2220 EA Stopper "G" Standard Break Glass Cover (STI-6100)	117.29	20.63
28 46 13 31-2221 EA Clear, Polycarbonate Enclosure With Deep Back Box And Exterior Key Lock (STI-7510A).....	113.57	20.63
28 46 13 31-2222 EA Polycarbonate Multi-Purpose Enclosure With Backplate And Key Lock (STI-7530)	289.44	20.63
28 46 13 31-2223 EA Heated, Metal, Protective Cabinet (STI-7560AH)	3,938.76	20.63
28 46 13 31-2224 EA Stainless Steel Guard (STI-9604SS)	84.08	20.63
28 46 13 31-2225 EA 5-3/4" Width x 4-1/2" Depth, Motion Detector Guard (STI-9621)	76.43	20.63
28 46 13 31-2226 System Sensor Fire Alarm (28 46 13 31)		
28 46 13 31-2227 Smoke Detectors (28 46 13 31-2226)		
28 46 13 31-2228 EA Beam Detector Heater Kit (System Sensor BEAMHK)	64.67	6.87
28 46 13 31-2229 EA Reflectors, Beam Detector Heater Kit (System Sensor BEAMHCR).....	268.91	6.87
Note: Four used with long range kit.		
28 46 13 31-2230 EA Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK)	336.61	68.76
28 46 13 31-2231 EA Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK)	249.08	68.76
28 46 13 31-2232 EA Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK).....	204.46	68.76
28 46 13 31-2233 EA Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B).....	206.05	51.57
28 46 13 31-2234 EA Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B)	186.38	51.57
28 46 13 31-2235 EA Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B).....	217.14	51.57
28 46 13 31-2236 EA Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B).....	209.62	51.57
28 46 13 31-2237 EA Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 Volt DC (System Sensor 4WT-B).....	197.82	51.57
28 46 13 31-2238 EA Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B)	222.68	51.57
28 46 13 31-2239 EA Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B).....	287.68	51.57
28 46 13 31-2240 EA Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151).....	167.87	34.38
28 46 13 31-2241 EA Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T).....	191.79	34.38
Note: Requires B100 series base.		
28 46 13 31-2242 EA Heavy-Duty Multi-Mount Kit (System Sensor 6500-MMK)	311.26	17.19
28 46 13 31-2243 EA Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy-Duty Multi-Mount Kit (System Sensor 6500-SMK)	107.89	17.19
28 46 13 31-2244 EA Four Wire, Low Profile, Plug In Detector (System Sensor 2D51).....	210.96	51.57
28 46 13 31-2245 Duct Smoke Detectors (28 46 13 31-2226)		
28 46 13 31-2246 EA Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2).....	402.91	51.57
28 46 13 31-2247 EA Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120).....	399.47	51.57
28 46 13 31-2248 EA Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W)	523.07	58.44
28 46 13 31-2249 EA Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S).....	263.27	34.38
28 46 13 31-2250 EA Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL).....	71.54	10.31
28 46 13 31-2251 EA Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR)	225.49	27.50
28 46 13 31-2252 EA Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW).....	365.09	34.38
28 46 13 31-2253 EA 1' Steel Sampling Tube (System Sensor DST1)	42.26	13.76
28 46 13 31-2254 EA 1.5' Steel Sampling Tube (System Sensor DST1.5)	46.15	13.76
28 46 13 31-2255 EA 3' Steel Sampling Tube (System Sensor DST3)	52.04	13.76
28 46 13 31-2256 EA 5' Steel Sampling Tube (System Sensor DST5)	66.84	17.19
28 46 13 31-2257 EA 10' Steel Sampling Tube (System Sensor DST10).....	98.35	20.63
28 46 13 31-2258 EA 1' Steel, Exhaust Tube Duct (System Sensor ETX).....	47.75	13.76
28 46 13 31-2259 EA Remote Test Station For Duct Smoke Detector (System Sensor RTS151)	107.61	17.19
28 46 13 31-2260 EA Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2).....	229.40	



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28 46 13 31-2261	EA	Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B).....	246.56	
28 46 13 31-2262 Heat Detectors (28 46 13 31-2226)				
28 46 13 31-2263	EA	Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P).....	136.39	51.57
28 46 13 31-2264	EA	Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602).....	130.26	51.57
28 46 13 31-2265	EA	Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621).....	150.62	51.57
28 46 13 31-2266	EA	Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622).....	150.62	51.57
28 46 13 31-2267	EA	Dual Circuit, 135 Degree F, Fixed Temperature Heat Detector (System Sensor 5623).....	164.43	51.57
28 46 13 31-2268	EA	Dual Circuit, 194 Degree F, Fixed Temperature Heat Detector (System Sensor 5624).....	164.43	51.57
28 46 13 31-2269 Horns (28 46 13 31-2226)				
28 46 13 31-2270	EA	Red, Mini Horn (System Sensor MHR).....	139.47	51.57
28 46 13 31-2271	EA	White, Mini Horn (System Sensor MHW).....	139.47	51.57
28 46 13 31-2272	EA	White, 12/24 Volt DC, Wall Mounted Horn Only (System Sensor HWL).....	141.24	51.57
28 46 13 31-2273	EA	Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R).....	176.74	58.44
28 46 13 31-2274	EA	Red, Indoor, Wall Mounted, Horn (System Sensor HRL).....	141.24	51.57
28 46 13 31-2275	EA	Red, Outdoor, Wall Mounted, Horn (System Sensor HRK).....	206.05	51.57
28 46 13 31-2276	EA	White, Indoor, Wall Mounted, Compact Horn (System Sensor HGRL).....	141.81	51.57
28 46 13 31-2277	EA	Red, Indoor, Wall Mounted, Compact Horn (System Sensor HGWL).....	141.81	51.57
28 46 13 31-2278 Wall Mounted Horns/Strobes (28 46 13 31-2226)				
28 46 13 31-2279	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL).....	188.95	51.57
28 46 13 31-2280	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH).....	243.26	51.57
28 46 13 31-2281	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK).....	277.08	58.44
28 46 13 31-2282	EA	Plain, Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P).....	270.79	58.44
28 46 13 31-2283	EA	Outdoor Back Box, Red, 120 Volt AC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120).....	283.09	58.44
28 46 13 31-2284	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK).....	276.22	58.44
28 46 13 31-2285	EA	Plain, Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P).....	262.78	58.44
28 46 13 31-2286	EA	Outdoor, Red, , Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R).....	228.71	51.57
28 46 13 31-2287	EA	Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL-P).....	184.95	51.57
28 46 13 31-2288	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL).....	188.95	51.57
28 46 13 31-2289	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH).....	244.96	51.57
28 46 13 31-2290	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK).....	268.50	58.44
28 46 13 31-2291	EA	Plain, Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P).....	270.79	58.44
28 46 13 31-2292	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-P).....	243.26	51.57
28 46 13 31-2293	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK).....	284.80	58.44
28 46 13 31-2294	EA	Plain, Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P).....	262.78	58.44
28 46 13 31-2295	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL-P).....	184.09	51.57
28 46 13 31-2296	EA	Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RL).....	224.99	51.57
28 46 13 31-2297	EA	Red, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH).....	263.05	51.57
28 46 13 31-2298	EA	Outdoor Back Box, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK).....	303.73	58.44
28 46 13 31-2299	EA	Outdoor, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R).....	257.06	58.44
28 46 13 31-2300	EA	White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WL).....	224.99	51.57
28 46 13 31-2301	EA	Outdoor Back Box, White, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor PC4WHK).....	308.28	58.44
28 46 13 31-2302	EA	Outdoor Back Box, White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK).....	271.36	58.44
28 46 13 31-2303	EA	Red, 24 Volt DC, Low-frequency, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Horn/Strobe (System Sensor P2RL-LF).....	274.76	51.57
28 46 13 31-2304	EA	White, 24 Volt DC, Low-frequency, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Horn/Strobe (System Sensor P2WL-LF).....	274.76	51.57
28 46 13 31-2305	EA	Red, 12/24 Volt DC, Two Wire, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Compact Horn Strobe (System Sensor P2GRL).....	188.38	51.57
28 46 13 31-2306	EA	White, 12/24 Volt DC, Two Wire, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Compact Horn Strobe (System Sensor P2GWL).....	188.38	51.57
28 46 13 31-2307 Ceiling Mounted Horns/Strobes (28 46 13 31-2226)				

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28 46 13 31-2308	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RL)	191.81	51.57
28 46 13 31-2309	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH)	246.67	51.57
28 46 13 31-2310	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK)	268.50	58.44
28 46 13 31-2311	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK)	261.06	58.44
28 46 13 31-2312	EA	Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P)	234.71	51.57
28 46 13 31-2313	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WL)	191.81	51.57
28 46 13 31-2314	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH)	246.67	51.57
28 46 13 31-2315	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK)	268.50	58.44
28 46 13 31-2316	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P)	246.67	51.57
28 46 13 31-2317	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK)	261.06	58.44
28 46 13 31-2318	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P)	233.00	51.57
28 46 13 31-2319	EA	Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4RL)	226.42	51.57
28 46 13 31-2320	EA	Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH)	263.05	51.57
28 46 13 31-2321	EA	White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4WL)	226.42	51.57
28 46 13 31-2322 Wall Mounted Strobes (28 46 13 31-2226)				
28 46 13 31-2323	EA	White Strobe Expander Plate Back Box Skirt (System Sensor SEP-BBSW)	85.75	17.19
28 46 13 31-2324	EA	White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW)	162.81	17.19
28 46 13 31-2325	EA	Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL)	171.50	51.57
28 46 13 31-2326	EA	Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH)	221.89	51.57
28 46 13 31-2327	EA	Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK)	270.48	58.44
28 46 13 31-2328	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK)	267.31	58.44
28 46 13 31-2329	EA	Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P)	242.18	58.44
28 46 13 31-2330	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R)	214.15	58.44
28 46 13 31-2331	EA	Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL-P)	170.07	51.57
28 46 13 31-2332	EA	White, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL)	170.93	51.57
28 46 13 31-2333	EA	White, Amber Lens, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-ALERT)	184.37	51.57
28 46 13 31-2334	EA	White, Clear Lens, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-CLR-ALERT)	221.04	51.57
28 46 13 31-2335	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH)	231.29	51.57
28 46 13 31-2336	EA	White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT)	229.59	51.57
28 46 13 31-2337	EA	White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P)	229.59	51.57
28 46 13 31-2338	EA	Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P)	245.62	58.44
28 46 13 31-2339	EA	White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK)	243.04	58.44
28 46 13 31-2340	EA	White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P)	245.04	58.44
28 46 13 31-2341	EA	Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R)	248.47	58.44
28 46 13 31-2342	EA	White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK)	240.75	58.44
28 46 13 31-2343	EA	White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P)	241.90	58.44
28 46 13 31-2344	EA	White, Plain, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-P)	169.79	51.57
28 46 13 31-2345	EA	Amber, Wall Strobe Lens Attachment (System Sensor LENS-A)	29.49	6.87
28 46 13 31-2346	EA	Blue, Wall Strobe Lens Attachment (System Sensor LENS-B)	29.49	6.87
28 46 13 31-2347	EA	Green, Wall Strobe Lens Attachment (System Sensor LENS-G)	29.49	6.87
28 46 13 31-2348	EA	Red, Wall Strobe Lens Attachment (System Sensor LENS-R)	29.49	6.87
28 46 13 31-2349	EA	Red, 12/24 Volt DC, Wall Mounted, L-Series Compact Strobe (System Sensor SGRL)	173.79	51.57
28 46 13 31-2350	EA	White, 12/24 Volt DC, Wall Mounted, L-Series Compact Strobe (System Sensor SGWL)	170.64	51.57
28 46 13 31-2351	EA	L-Series, Amber, Wall Strobe Lens Attachment (System Sensor LENS-A2, AC2)	29.49	6.87
28 46 13 31-2352	EA	L-Series, Blue, Wall Strobe Lens Attachment (System Sensor LENS-B2, BC2)	29.49	6.87
28 46 13 31-2353	EA	L-Series, Green, Wall Strobe Lens Attachment (System Sensor LENS-G2, GC2)	29.49	6.87
28 46 13 31-2354	EA	L-Series, Red, Wall Strobe Lens Attachment (System Sensor LENS-R2, RC2)	29.49	6.87
28 46 13 31-2355	EA	Red, 8 Multi-tone, 12 VDC, 1575CD, Wall Mounted Strobe (Wheelock MT-121575W-FR)	249.65	51.57



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28 46 13 31-2356	EA		White, 8 Multi-tone, 12 VDC, 1575CD, No Lettering, Wall Mounted Strobe (Wheelock MT-121575W-NW).....	249.65	51.57
28 46 13 31-2357 Ceiling Mounted Strobes (28 46 13 31-2226)					
28 46 13 31-2358	EA		Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRL).....	174.65	51.57
28 46 13 31-2359	EA		Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH).....	225.05	51.57
28 46 13 31-2360	EA		Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK).....	270.48	58.44
28 46 13 31-2361	EA		Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK).....	270.48	58.44
28 46 13 31-2362	EA		White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWL).....	174.65	51.57
28 46 13 31-2363	EA		Clear Lens, White, Two Wire, 12/24 Volt DC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCWL-CLR-ALERT).....	186.09	51.57
28 46 13 31-2364	EA		White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH).....	234.71	51.57
28 46 13 31-2365	EA		Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWHK).....	243.04	58.44
28 46 13 31-2366	EA		Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK).....	240.75	58.44
28 46 13 31-2367	EA		Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P).....	209.08	51.57
28 46 13 31-2368	EA		Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC).....	29.49	6.87
28 46 13 31-2369	EA		Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC).....	29.49	6.87
28 46 13 31-2370	EA		Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC).....	29.49	6.87
28 46 13 31-2371	EA		Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC).....	29.49	6.87
28 46 13 31-2372 Wall Mounted Speakers (28 46 13 31-2226)					
28 46 13 31-2373	EA		24 Volt DC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V).....	436.09	51.57
28 46 13 31-2374	EA		Red, Wall Mounted Speaker (System Sensor SPRL).....	148.33	51.57
28 46 13 31-2375	EA		Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK).....	231.86	51.57
28 46 13 31-2376	EA		Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R).....	195.85	58.44
28 46 13 31-2377	EA		Red, High dB, Wall Mounted Speaker (System Sensor SPRV).....	182.30	51.57
28 46 13 31-2378	EA		White, Wall Mounted Speaker (System Sensor SPWL).....	148.33	51.57
28 46 13 31-2379	EA		White, Outdoor, Wall Mounted Speaker (System Sensor SPWK).....	244.47	58.44
28 46 13 31-2380	EA		White, High dB, Wall Mounted Speaker (System Sensor SPWK).....	165.95	51.57
28 46 13 31-2381 Ceiling Mounted Speakers (28 46 13 31-2226)					
28 46 13 31-2382	EA		Red, Ceiling Mounted Speaker (System Sensor SPCRL).....	145.19	51.57
28 46 13 31-2383	EA		Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK).....	246.43	51.57
28 46 13 31-2384	EA		Red, High dB, Ceiling Mounted Speaker (System Sensor SPCR).....	182.30	51.57
28 46 13 31-2385	EA		White, Ceiling Mounted Speaker (System Sensor SPCWL).....	147.76	51.57
28 46 13 31-2386	EA		White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV).....	188.58	51.57
28 46 13 31-2387	EA		White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK).....	245.62	58.44
28 46 13 31-2388 Wall Mounted Speakers/Strobes (28 46 13 31-2226)					
28 46 13 31-2389	EA		White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSWL).....	160.81	17.19
28 46 13 31-2390	EA		White Speaker Strobe Expander Plate Back Box Skirt (System Sensor SPSEP-BBSWL).....	82.32	17.19
28 46 13 31-2391	EA		Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL).....	234.72	51.57
28 46 13 31-2392	EA		Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH).....	282.05	51.57
28 46 13 31-2393	EA		Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK).....	376.56	58.44
28 46 13 31-2394	EA		Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P).....	333.72	58.44
28 46 13 31-2395	EA		Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R).....	286.23	58.44
28 46 13 31-2396	EA		Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL-P).....	232.14	51.57
28 46 13 31-2397	EA		Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV).....	272.55	51.57
28 46 13 31-2398	EA		White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-ALERT).....	235.86	51.57
28 46 13 31-2399	EA		White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT).....	337.72	58.44
28 46 13 31-2400	EA		White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL).....	234.72	51.57
28 46 13 31-2401	EA		White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH).....	296.23	51.57
28 46 13 31-2402	EA		White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P).....	296.23	51.57
28 46 13 31-2403	EA		White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK).....	349.16	58.44
28 46 13 31-2404	EA		White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P).....	332.57	58.44

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28 46 13 31-2405	EA	White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-P).....	231.00	51.57
28 46 13 31-2406	EA	White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV).....	285.97	51.57
28 46 13 31-2407	EA	White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P).....	285.97	51.57
28 46 13 31-2408	EA	L-Series, White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-CLR-ALERT).....	246.76	58.44
28 46 13 31-2409 Ceiling Mounted Speakers/Strobes (28 46 13 31-2226)				
28 46 13 31-2410	EA	Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRL).....	219.27	51.57
28 46 13 31-2411	EA	Red, Selectable Candela (135, 150, 177, 185) Candela, High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRH).....	285.22	51.57
28 46 13 31-2412	EA	Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRV).....	272.55	51.57
28 46 13 31-2413	EA	White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL).....	219.27	51.57
28 46 13 31-2414	EA	White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-CLR-ALERT).....	233.57	51.57
28 46 13 31-2415	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH).....	296.23	51.57
28 46 13 31-2416	EA	White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWHK).....	350.88	58.44
28 46 13 31-2417	EA	White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH-P).....	296.23	51.57
28 46 13 31-2418	EA	White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK-CLR-ALERT).....	338.29	58.44
28 46 13 31-2419	EA	White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK).....	349.16	58.44
28 46 13 31-2420	EA	White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-P).....	219.27	51.57
28 46 13 31-2421	EA	White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV).....	285.97	51.57
28 46 13 31-2422	EA	White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWVH).....	296.23	51.57
28 46 13 31-2423	EA	White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV-P).....	285.97	51.57
28 46 13 31-2424	EA	High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRVH).....	295.98	51.57
28 46 13 31-2425 Electric Alarm Bells (28 46 13 31-2226)				
28 46 13 31-2426	EA	6" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-6).....	181.80	51.57
28 46 13 31-2427	EA	8" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-8).....	195.82	51.57
28 46 13 31-2428	EA	10" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-10).....	211.26	51.57
28 46 13 31-2429	EA	6" 120 Volt AC Alarm Bell (System Sensor SSV120-6).....	200.54	52.26
28 46 13 31-2430	EA	8" 120 Volt AC Alarm Bell (System Sensor SSV120-8).....	202.79	52.26
28 46 13 31-2431	EA	10" 120 Volt AC Alarm Bell (System Sensor SSV120-10).....	217.03	52.26
28 46 13 31-2432 Device Bases (28 46 13 31-2226)				
28 46 13 31-2433	EA	High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S).....	137.64	17.19
28 46 13 31-2434	EA	Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR).....	133.35	17.19
28 46 13 31-2435	EA	Intelligent Isolator Base (System Sensor B224BI).....	110.18	17.19
28 46 13 31-2436	EA	Intelligent Relay Base (System Sensor B224RB).....	111.32	17.19
28 46 13 31-2437	EA	Flangeless, Intelligent Detector Base (System Sensor B501).....	70.08	17.19
28 46 13 31-2438	EA	High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base, Ivory (System Sensor B200S-IV).....	137.64	17.19
28 46 13 31-2439	EA	Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, Ivory (System Sensor B200SR-IV).....	133.35	17.19
28 46 13 31-2440	EA	Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR-LF).....	197.99	17.19
28 46 13 31-2441	EA	Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, Ivory (System Sensor B200SR-LF-IV).....	197.99	17.19
28 46 13 31-2442	EA	Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, White (System Sensor B200SR-LF-WH).....	191.70	17.19
28 46 13 31-2443	EA	Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, White (System Sensor B200SR-WH).....	153.64	17.19
28 46 13 31-2444	EA	High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base, White (System Sensor B200S-WH).....	130.77	17.19
28 46 13 31-2445	EA	Intelligent Isolator Base, Ivory (System Sensor B224BI-IV).....	110.18	17.19
28 46 13 31-2446	EA	Intelligent Isolator Base, White (System Sensor B224BI-WH).....	103.32	17.19
28 46 13 31-2447	EA	Intelligent Relay Base, Ivory (System Sensor B224RB-IV).....	111.32	17.19
28 46 13 31-2448	EA	Intelligent Relay Base, White (System Sensor B224RB-WH).....	104.75	17.19
28 46 13 31-2449	EA	Flangeless, Intelligent Detector Base, Black (System Sensor B501-BL).....	70.08	17.19
28 46 13 31-2450	EA	Flangeless, Intelligent Detector Base, Ivory (System Sensor B501-IV).....	70.08	17.19
28 46 13 31-2451	EA	Flangeless, Intelligent Detector Base, White (System Sensor B501-WHITE).....	62.64	17.19
28 46 13 31-2452	EA	Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base (System Sensor B200S-LF).....	201.43	17.19
28 46 13 31-2453	EA	Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base, Ivory (System Sensor B200S-LF-IV).....	201.43	17.19
28 46 13 31-2454	EA	Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base, White (System Sensor B200S-LF-WH).....	193.99	17.19
28 46 13 31-2455	EA	6" Intelligent Flanged Mounting Base (System Sensor B300-6).....	55.83	17.19



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28 46 13 31-2456 EA 6" Intelligent Flanged Mounting Base, Ivory (System Sensor B300-6-IV).....	62.98	17.19
28 46 13 31-2457 EA Two Wire, Flanged, 12/24 Volt DC, Low-Profile, Adapter Base (System Sensor B110LP).....	62.57	17.19
28 46 13 31-2458 EA Four Wire, Form A And C, 24 Volt DC Low-Profile, Adapter Base (System Sensor B112LP).....	124.13	20.63
28 46 13 31-2459 Boxes, Plates And Decals (28 46 13 31-2226)		
28 46 13 31-2460 EA 120 Volt AC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K).....	63.21	17.19
28 46 13 31-2461 EA Red, Wall Mounted, Metal, Weatherproof Back Box (System Sensor MWBB).....	94.22	17.19
28 46 13 31-2462 EA White, Ceiling Mounted, Metal, Weatherproof Back Box (System Sensor MWBBWCW).....	102.46	17.19
28 46 13 31-2463 EA White, Wall Mounted, Metal, Weatherproof Back Box (System Sensor MWBBW).....	94.22	17.19
28 46 13 31-2464 EA Red Retrofit Plate (System Sensor RFP).....	43.74	10.31
28 46 13 31-2465 EA White Retrofit Plate (System Sensor RFPW).....	43.40	10.31
28 46 13 31-2466 EA Red, Wall Mounted, Weatherproof Back Box (System Sensor SA-WBB).....	79.92	17.19
28 46 13 31-2467 EA Red, Ceiling Mounted, Weatherproof Back Box (System Sensor SA-WBBC).....	89.76	17.19
28 46 13 31-2468 EA Red, Ceiling Mounted, Surface Mounted, Back Box (System Sensor SBBCL).....	63.90	17.19
28 46 13 31-2469 EA White, Ceiling Mounted, Surface Mounted, Back Box (System Sensor SBBCLW).....	63.90	17.19
28 46 13 31-2470 EA Red, Wall Mounted, Surface Mounted, Back Box (System Sensor SBBCL).....	55.55	17.19
28 46 13 31-2471 EA Red, Wall Mounted, Surface Mounted, Back Box For Speaker (System Sensor SBBSPRL).....	61.84	17.19
28 46 13 31-2472 EA White, Wall Mounted, Surface Mounted, Back Box For Speaker (System Sensor SBBSPWL).....	61.84	17.19
28 46 13 31-2473 EA White, Wall Mounted, Surface Mounted, Back Box (System Sensor SBBWL).....	55.55	17.19
28 46 13 31-2474 EA Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500).....	61.72	17.19
28 46 13 31-2475 EA Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600).....	55.83	17.19
28 46 13 31-2476 EA Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS).....	20.30	6.87
28 46 13 31-2477 EA Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R).....	29.72	
28 46 13 31-2478 EA Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC).....	41.22	
28 46 13 31-2479 EA White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W).....	29.72	
28 46 13 31-2480 EA White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC).....	41.22	
28 46 13 31-2481 EA Red, Wall Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TR-2).....	22.39	6.87
28 46 13 31-2482 EA White, Wall Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TR-2W).....	22.39	6.87
28 46 13 31-2483 EA Red, Ceiling Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TRC-2).....	22.39	6.87
28 46 13 31-2484 EA White, Ceiling Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TRC-2W).....	22.39	6.87
28 46 13 31-2485 EA Red, Wall/Surface Mounted, L-Series Compact Back Box (System Sensor SBBGRL).....	55.55	17.19
28 46 13 31-2486 EA White, Wall/Surface Mounted, L-Series Compact Back Box (System Sensor SBBGWL).....	55.55	17.19
28 46 13 31-2487 EA Red, AGENT Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-AG).....	26.92	6.87
28 46 13 31-2488 EA Red, ALERT Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-AL).....	26.92	6.87
28 46 13 31-2489 EA Red, EVAC Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-EV).....	26.92	6.87
28 46 13 31-2490 EA Red, FIRE Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-F).....	26.92	6.87
28 46 13 31-2491 EA White, AGENT Lettering, L-Series Wall Mounted Bezel (System Sensor BZGW-AG).....	26.92	6.87
28 46 13 31-2492 EA White, ALERT Lettering, L-Series Wall Mounted Bezel (System Sensor BZGW-AL).....	26.92	6.87
28 46 13 31-2493 EA White, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZGW-EV).....	26.92	6.87
28 46 13 31-2494 EA White, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZGW-F).....	26.92	6.87
28 46 13 31-2495 EA Red, Plain, L-Series Wall Mounted Bezel (System Sensor BZGR-P).....	26.92	6.87
28 46 13 31-2496 EA White, Plain, L-Series Wall Mounted Bezel (System Sensor BZGW-P).....	26.92	6.87
28 46 13 31-2497 EA Red, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AG).....	26.92	6.87
28 46 13 31-2498 EA Red, ALERT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AL).....	26.92	6.87
28 46 13 31-2499 EA Red, AGENT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-AG).....	29.32	6.87
28 46 13 31-2500 EA Red, ALERT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-AL).....	29.32	6.87
28 46 13 31-2501 EA Red, EVAC Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-EV).....	29.32	6.87
28 46 13 31-2502 EA Red, FIRE Marking, L-Series Ceiling Mounted Bezel, Pack Of 5 (System Sensor BZRC-F).....	29.32	6.87
28 46 13 31-2503 EA Red, PLAIN Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-P).....	29.32	6.87
28 46 13 31-2504 EA Red, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZR-EV).....	26.92	6.87
28 46 13 31-2505 EA Red, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZR-F).....	26.92	6.87
28 46 13 31-2506 EA Red, PLAIN Marking, L-Series Wall Mounted Bezel (System Sensor BZR-P).....	26.92	6.87
28 46 13 31-2507 EA Red, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AG).....	26.92	6.87
28 46 13 31-2508 EA White, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-AG).....	26.92	6.87
28 46 13 31-2509 EA White, ALERT Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-AL).....	26.92	6.87
28 46 13 31-2510 EA White, AGENT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-AG).....	29.32	6.87
28 46 13 31-2511 EA White, ALERT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-AL).....	29.32	6.87
28 46 13 31-2512 EA White, EVAC Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-EV).....	29.32	6.87
28 46 13 31-2513 EA White, FIRE Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-F).....	29.32	6.87
28 46 13 31-2514 EA White, PLAIN Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-P).....	29.32	6.87
28 46 13 31-2515 EA White, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-EV).....	26.92	6.87
28 46 13 31-2516 EA White, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-F).....	26.92	6.87
28 46 13 31-2517 EA Replacement Dust Cover For Low Profile Detectors (System Sensor C58-227-01).....	5.09	
28 46 13 31-2518 EA Control Module Barrier (System Sensor CB500).....	40.31	10.31
28 46 13 31-2519 EA White Detector Conversion Kit For SSD Intelligent Low Profile Photo, Ion, And Laser Detectors (System Sensor CK300).....	37.22	10.31
28 46 13 31-2520 EA Black Detector Conversion Kit For SSD Intelligent Low Profile Photo, Ion, And Laser Detectors (System Sensor CK300-BL).....	44.60	10.31
28 46 13 31-2521 EA PTIR Color Kit, White (System Sensor CK-300-IR).....	162.50	10.31
Note: Includes cover and trim ring		
28 46 13 31-2522 EA PTIR Color Kit, Black (System Sensor CK-300-IR-BL).....	235.16	10.31
Note: Includes cover and trim ring		
28 46 13 31-2523 EA PTIR Color Kit, Ivory (System Sensor CK-300-IR-IV).....	235.16	10.31
Note: Includes cover and trim ring		
28 46 13 31-2524 EA Accessory Flange Ring For B210LP Base (System Sensor F210).....	30.76	10.31
Note: Includes cover and trim ring		
28 46 13 31-2525 EA Black Faceplate (System Sensor FP-BLACK-BP).....	29.93	10.31
28 46 13 31-2526 EA White Faceplate, 2 In/2 Out (System Sensor FP-WHITE-2-BP).....	30.36	10.31
28 46 13 31-2527 EA White Faceplate (System Sensor FP-WHITE-BP).....	28.95	10.31
28 46 13 31-2528 EA White, Back Box (System Sensor SMB500-WH).....	52.86	17.19

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28 46 13 31-2529 EA Accessory Flange Ring For B210LP Base, White (System Sensor TR300)	20.91	6.87
28 46 13 31-2530 EA Accessory Flange Ring For B210LP Base, Ivory (System Sensor TR300-IV)	29.26	6.87
28 46 13 31-2531 EA White Faceplate Swift (System Sensor FP-WHITE-SWIFT-BP)	31.70	10.31
28 46 13 31-2532 EA Red, ALERT Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-AL)	26.92	6.87
28 46 13 31-2533 EA Red, AGENT Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-AG)	29.32	6.87
28 46 13 31-2534 EA Red, ALERT Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-AL)	29.32	6.87
28 46 13 31-2535 EA Red, EVAC Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-EV)	29.32	6.87
28 46 13 31-2536 EA Red, FIRE Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-F)	29.32	6.87
28 46 13 31-2537 EA Red, Plain, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-P)	29.32	6.87
28 46 13 31-2538 EA Red, EVAC Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-EV)	26.92	6.87
28 46 13 31-2539 EA Red, FIRE Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-F)	26.92	6.87
28 46 13 31-2540 EA Red, Plain, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-P)	26.92	6.87
28 46 13 31-2541 EA L Series, 120 VAC Adapter Mounting Plate (System Sensor MP120KL)	80.37	17.19
28 46 13 31-2542 EA White, Amber Lens, Universal Expander Plate (System Sensor SEP-SPSWL-P)	155.95	17.19
28 46 13 31-2543 Chimes (28 46 13 31-2226)		
28 46 13 31-2544 EA Red, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHRL)	198.57	51.57
28 46 13 31-2545 EA White, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHWL)	175.79	51.57
28 46 13 31-2546 Chime/Strobes (28 46 13 31-2226)		
28 46 13 31-2547 EA Red, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSRL)	251.88	51.57
28 46 13 31-2548 EA White, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSWL)	251.88	51.57
28 46 13 31-2549 EA L-Series, Red, 15, 30, 75, 95, 115, 150, 177 Multi-Candela, 24 Volt DC, Ceiling Mounted Chime/Strobe (System Sensor CHSRL)	253.60	51.57
28 46 13 31-2550 EA L-Series, White, 15, 30, 75, 95, 115, 150, 177 Multi-Candela, 24 Volt DC, Ceiling Mounted Chime/Strobe (System Sensor CHSCL)	253.60	51.57
28 46 13 31-2551 Carbon Monoxide Detectors (28 46 13 31-2226)		
28 46 13 31-2552 EA Conventional Carbon Monoxide Detector (System Sensor CO1224)	337.81	68.76
28 46 13 31-2553 EA Round, Sounder And Trouble Relay With Test Function, 12/24 Volt DC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR)	249.59	51.57
28 46 13 31-2554 EA CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE)	20.67	6.87
28 46 13 31-2555 EA Intelliquad Plus Intelligent Addressable Combination Multi-Criteria Fire And Carbon Monoxide Detector With Flashscan (System Sensor FCO-951)	369.73	51.57
28 46 13 31-2556 EA 12/24 VDC, Conventional Carbon Monoxide Detector With Sounder And Trouble Relay With Test Function, UL2075 Listed (System Sensor CO1224T)	283.98	68.76
28 46 13 31-2557 EA Intelliquad Plus Intelligent Addressable Combination Multi-Criteria Fire And Carbon Monoxide Detector With Flashscan, Ivory (System Sensor FCO-951-IV)	382.31	51.57
28 46 13 31-2558 Switches (28 46 13 31-2226)		
28 46 13 31-2559 EA SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1)	224.34	27.50
28 46 13 31-2560 EA Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2)	250.09	27.50
28 46 13 31-2561 EA SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1)	224.34	27.50
28 46 13 31-2562 EA Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2)	250.09	27.50
28 46 13 31-2563 EA Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2)	233.50	27.50
28 46 13 31-2564 EA Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2)	218.62	27.50
28 46 13 31-2565 Low Frequency Sounders (28 46 13 31-2226)		
28 46 13 31-2566 EA Red, Low Frequency Sounder (System Sensor HR-LF)	236.42	51.57
28 46 13 31-2567 EA White, Low Frequency Sounder (System Sensor HW-LF)	236.42	51.57
28 46 13 31-2568 EA Red, Ceiling Mounted, Low-frequency Compact Sounder (System Sensor HCRL-LF)	207.54	51.57
28 46 13 31-2569 EA White, Ceiling Mounted, Low-frequency Compact Sounder (System Sensor HCWL-LF)	207.54	51.57
28 46 13 31-2570 EA Red, Wall Mounted, Low-frequency Compact Sounder (System Sensor HGRL-LF)	206.11	51.57
28 46 13 31-2571 EA White, Wall Mounted, Low-frequency Compact Sounder (HGWL-LF)	206.11	51.57
28 46 13 31-2572 Sync Modules (28 46 13 31-2226)		
28 46 13 31-2573 EA Red, 12/24 Volt DC, Sync Module (System Sensor MDL3R)	180.31	34.38
28 46 13 31-2574 EA White, 12/24 Volt DC, Sync Module (System Sensor MDL3W)	177.45	34.38
28 46 13 31-2575 Relays (28 46 13 31-2226)		
28 46 13 31-2576 EA Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E)	103.29	27.50
28 46 13 31-2577 EA SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T)	66.53	17.19
28 46 13 31-2578 EA 4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E)	188.84	17.19
28 46 13 31-2579 EA 4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T)	139.64	17.19
28 46 13 31-2580 EA Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E)	110.96	27.50



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28 46 13 31-2581	EA	DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T)	68.59	17.19
28 46 13 31-2582	EA	4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E).....	212.30	17.19
28 46 13 31-2583	EA	4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T)	159.38	17.19
28 46 13 31-2584	EA	18 To 35 Volt DC, 18 To 35 Volt AC, 120 Volt AC, SPDT Multivoltage Relay (System Sensor PR-1)	58.18	17.19
28 46 13 31-2585	EA	10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-2).....	58.18	17.19
28 46 13 31-2586	EA	Redundant Power Input, 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-3)	58.18	17.19
28 46 13 31-2587 Remote Annunciator (28 46 13 31-2226)				
28 46 13 31-2588	EA	Remote Annunciator (System Sensor RA100Z)	139.18	51.57
28 46 13 31-2589	EA	Remote LED Annunciator (System Sensor RA100ZA)	136.27	51.57
28 46 13 31-2590	EA	Remote Annunciator With Piezo Alarm (System Sensor APA151)	168.67	51.57
28 46 13 31-2591 Remote Test Station (28 46 13 31-2226)				
28 46 13 31-2592	EA	Remote Test Station With Key (System Sensor RTS151KEY)	213.55	51.57
28 46 13 31-2593 Fire Alarm Digital Cellular Communicator (28 46 13 31)				
28 46 13 31-2594	EA	Digital Cellular Communicator With Antenna And Red Enclosure (Telular Telguard TG-7FS)	807.85	68.76
28 46 13 31-2595 Wheelock Fire Alarm (28 46 13 31)				
28 46 13 31-2596 Ceiling Mounted Chimes/Strobes (28 46 13 31-2595)				
28 46 13 31-2597	EA	White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 Volt DC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW)	277.72	51.57
28 46 13 31-2598 Wall Mounted Chimes/Strobes (28 46 13 31-2595)				
28 46 13 31-2599	EA	Red, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FR)	277.72	51.57
28 46 13 31-2600	EA	White, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FW).....	277.72	51.57
28 46 13 31-2601 Ceiling Mounted Horns/Strobes (28 46 13 31-2595)				
28 46 13 31-2602	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSRC)	183.41	51.57
28 46 13 31-2603	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC)	207.83	51.57
28 46 13 31-2604 Wall Mounted Horns/Strobes (28 46 13 31-2595)				
28 46 13 31-2605	EA	Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR).....	187.14	51.57
28 46 13 31-2606	EA	Red, 24 Volt DC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4-241575 Watt-FR)	297.93	51.57
28 46 13 31-2607	EA	Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR)	247.88	51.57
28 46 13 31-2608	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW).....	247.88	51.57
28 46 13 31-2609	EA	Red, Flush, 24 Volt AC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt-FR)	282.56	51.57
28 46 13 31-2610	EA	Red, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR).....	208.42	51.57
28 46 13 31-2611	EA	Red, 115 Volt AC, Wall Mounted Horn/Strobe (Wheelock MT4-115-WH-VFR)	206.22	51.57
28 46 13 31-2612	EA	Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR)	227.88	58.44
28 46 13 31-2613	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR)	186.27	51.57
28 46 13 31-2614	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW)	186.27	51.57
28 46 13 31-2615	EA	White, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FW)	205.35	51.57
28 46 13 31-2616	EA	Red, 24 Volt DC, 15/30/75/110 Selectable Candela, Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR)	247.88	51.57
28 46 13 31-2617	EA	White, 24 Volt DC, 15/30/75/110 Selectable Candela, Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW)	247.88	51.57
28 46 13 31-2618 Ceiling Mounted Strobes (28 46 13 31-2595)				
28 46 13 31-2619	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR)	175.52	51.57
28 46 13 31-2620	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW)	175.52	51.57
28 46 13 31-2621	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC).....	188.95	51.57
28 46 13 31-2622	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC)	168.94	51.57
28 46 13 31-2623	EA	White, 24 Volt DC, Amber Lens, Multi- Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe, No Lettering (Wheelock RSSA-24MCC-NW)	186.92	51.57
28 46 13 31-2624	EA	White, 24 Volt DC, Amber Lens, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe, Red ALERT Lettering (Wheelock RSSA-24MCC-ALW)	188.46	51.57
28 46 13 31-2625	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe With Fire Lettering (Wheelock RSS-24MCC-FW)	189.12	51.57
28 46 13 31-2626	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Weatherproof Strobe With Fire Lettering (Wheelock RSSWP-2475C-FR).....	197.82	51.57
28 46 13 31-2627 Wall Mounted Strobes (28 46 13 31-2595)				
28 46 13 31-2628	EA	Red, Multi-Candela, 24 Volt DC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR).....	261.49	51.57
28 46 13 31-2629	EA	Red, Retrofit Plate, 12 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR)	211.93	51.57
28 46 13 31-2630	EA	Red, 24 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR)	238.13	51.57

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28 46 13 31-2631 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR).....	173.76	51.57
28 46 13 31-2632 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW).....	173.76	51.57
28 46 13 31-2633 EA Red, Retrofit Plate, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP-24MCW-FR).....	185.17	51.57
28 46 13 31-2634 EA Outdoor, Red, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR)..... Note: Requires WPSBB-R.	194.10	58.44
28 46 13 31-2635 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STR).....	170.03	51.57
28 46 13 31-2636 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STW).....	170.03	51.57
28 46 13 31-2637 EA Interior, White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Strobe, No Lettering (Wheelock RSS-24MCWH-NW).....	200.52	51.57
28 46 13 31-2638 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Wall Mounted Strobe, No Lettering (Wheelock RSS-24MCW-NW).....	175.74	51.57
28 46 13 31-2639 EA Weatherproof, White, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FW)..... Note: Requires WPSBB-R.	215.30	58.44
28 46 13 31-2640 EA Interior, White, 24 Volt DC, Multi-Candela 135/185, Weatherproof Wall Mounted Strobe (Wheelock RSSWP-24MCWH-FW).....	211.55	51.57
28 46 13 31-2641 Ceiling Mounted Speakers/Strobes (28 46 13 31-2595)		
28 46 13 31-2642 EA Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR).....	211.93	51.57
28 46 13 31-2643 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	211.93	51.57
28 46 13 31-2644 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW).....	211.93	51.57
28 46 13 31-2645 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	214.12	51.57
28 46 13 31-2646 EA White, 24 Volt DC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	226.40	51.57
28 46 13 31-2647 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW).....	243.51	51.57
28 46 13 31-2648 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FR).....	243.51	51.57
28 46 13 31-2649 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FR).....	215.87	51.57
28 46 13 31-2650 EA White, 2 Watts, 24 Volt DC, 15/30/75/95 Candela, Square, No Lettering, Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-NW).....	236.43	51.57
28 46 13 31-2651 EA Round, 2 Watt, 24 Volt DC, 15/30/75/95CD, No Lettering, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-NW).....	250.16	51.57
28 46 13 31-2652 EA White, 8 Watts, 24 Volt DC, 75 Candela, Weatherproof, Ceiling Mounted, Speaker/Strobe (Wheelock ET70WP-2475C-FW).....	263.89	51.57
28 46 13 31-2653 Wall Mounted Speakers/Strobes (28 46 13 31-2595)		
28 46 13 31-2654 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR).....	326.98	51.57
28 46 13 31-2655 EA White, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW).....	326.98	51.57
28 46 13 31-2656 EA Red, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FR).....	226.40	51.57
28 46 13 31-2657 EA White, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	226.40	51.57
28 46 13 31-2658 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR).....	211.93	51.57
28 46 13 31-2659 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW).....	208.42	51.57
28 46 13 31-2660 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR).....	226.40	51.57
28 46 13 31-2661 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW).....	226.40	51.57
28 46 13 31-2662 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR).....	323.56	51.57
28 46 13 31-2663 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR).....	214.12	51.57
28 46 13 31-2664 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW).....	212.37	51.57
28 46 13 31-2665 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR).....	315.88	51.57
28 46 13 31-2666 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW).....	323.56	51.57
28 46 13 31-2667 EA Red, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR).....	243.51	51.57
28 46 13 31-2668 EA White, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW).....	243.51	51.57
28 46 13 31-2669 EA Weatherproof, Red, 24 Volt DC, 75 Candela, Wall Mounted Speaker Strobe (Wheelock ET70WP-2475 W-FR)..... Note: Requires weatherproof backbox (IOB).	351.85	58.44
28 46 13 31-2670 EA Interior, Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock RSS-24MCWH-FR).....	195.70	51.57
28 46 13 31-2671 EA Interior, White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock RSS-24MCWH-FW).....	189.12	51.57
28 46 13 31-2672 EA White, 2 Watts, 24 Volt DC, 15/30/75/95 Candela, Round, Wall Mounted Speaker/Strobe (Wheelock E60-24MCW-FW).....	250.16	51.57
28 46 13 31-2673 EA Red, 24 Volt DC, 135/185 Multi-Candela, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR).....	263.89	51.57
28 46 13 31-2674 EA White, 24 Volt DC, 135/185 Multi-Candela, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW).....	269.04	51.57
28 46 13 31-2675 EA White, 8 Watt, 24 VDC, 15/30/75/110 Candela, No Lettering, Wall Mounted, Speaker/Strobe (Wheelock ET70-24MCW-NW).....	277.62	51.57
28 46 13 31-2676 EA Red, 8 Watts, Weatherproof, 185 Candela, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-24185W-FR).....	283.92	51.57
28 46 13 31-2677 EA Red, 24 Volt DC, 75 Candela, Weatherproof, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-2475W-FR)..... Note: Requires IOB	279.91	51.57
28 46 13 31-2678 EA White, 8 Watts, 24 Volt DC, 75 Candela, Weatherproof, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-2475W-FW)..... Note: Requires IOB	277.62	51.57



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28 46 13 31-2679 Electric Alarm Bells (28 46 13 31-2595)		
28 46 13 31-2680 EA 6" Diameter, 24 Volt DC, Red, Vibrating Bell (Wheelock 43T-G6-24-R).....	206.66	51.57
28 46 13 31-2681 EA 6" Diameter, 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G6-115-R).....	199.64	51.57
28 46 13 31-2682 EA 10" Diameter, 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G10-115-R).....	246.58	51.57
28 46 13 31-2683 EA 10" Diameter, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CSX10-115-R).....	1,868.01	58.44
28 46 13 31-2684 EA 10" Diameter, Outdoor, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CSXG10-115-R).....	3,012.02	58.44
28 46 13 31-2685 EA 10" Diameter, Vibrating, Outdoor, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CVXG10-115-R).....	3,491.62	58.44
28 46 13 31-2686 EA 6", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G6-24-R).....	166.96	51.57
28 46 13 31-2687 EA 10", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G10-24-R).....	222.13	51.57
28 46 13 31-2688 EA 6", ADA, 12 Volt DC, Red, Motor Bell (Wheelock MB-G6-12-R).....	169.60	51.57
28 46 13 31-2689 EA 10", ADA, 12 Volt DC, Red, Indoor/Outdoor Motor Bell (Wheelock MB-G10-12-R).....	220.13	51.57
28 46 13 31-2690 Horns (28 46 13 31-2595)		
28 46 13 31-2691 EA Two Wire, 24 Volt DC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non-Sync Horn (Wheelock AH-24WP-R).....	171.49	51.57
28 46 13 31-2692 EA Red, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNR).....	142.27	51.57
28 46 13 31-2693 EA White, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNW).....	142.27	51.57
28 46 13 31-2694 EA Red, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNRC).....	143.23	51.57
28 46 13 31-2695 EA White, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNCW).....	143.23	51.57
28 46 13 31-2696 EA Red, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R).....	127.00	51.57
28 46 13 31-2697 EA White, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W).....	127.00	51.57
28 46 13 31-2698 EA Red, Flush, 12/24 Volt AC, Horn (Wheelock MT-12/24-R).....	143.23	51.57
28 46 13 31-2699 EA Red, 24 Volt DC, Four Wire, Wall Mounted Horn (Wheelock HS-24-R).....	168.36	51.57
28 46 13 31-2700 Speakers (28 46 13 31-2595)		
28 46 13 31-2701 EA Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-R).....	146.04	51.57
28 46 13 31-2702 EA White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-W).....	146.04	51.57
28 46 13 31-2703 EA Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-R).....	146.04	51.57
28 46 13 31-2704 EA White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-W).....	144.11	51.57
28 46 13 31-2705 EA Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-R).....	146.04	51.57
28 46 13 31-2706 EA White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-W).....	146.04	51.57
28 46 13 31-2707 EA Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-R).....	146.04	51.57
28 46 13 31-2708 EA White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-W).....	146.04	51.57
28 46 13 31-2709 EA Red, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-R).....	167.18	51.57
28 46 13 31-2710 EA White, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-W).....	167.18	51.57
28 46 13 31-2711 EA White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watt Ceiling Mounted Speaker (Wheelock ET90-W).....	168.94	51.57
28 46 13 31-2712 EA Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R).....	221.56	51.57
28 46 13 31-2713 EA Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R).....	201.54	51.57
28 46 13 31-2714 EA Grey, 1 To 15 Watt, 25/70/100 Volt Transformer, Loud Speaker (Wheelock STH-15S).....	304.92	51.57
28 46 13 31-2715 EA Red, 1 To 15 Watt, 25/70/100 Volt Transformer, Loud Speaker (Wheelock STH-15SR).....	304.92	51.57
28 46 13 31-2716 EA Red, 1/8 To 8 Watts, Square, Surface Mounted, Vandal Resistant Speaker (Wheelock ET-1010-R).....	221.56	51.57
28 46 13 31-2717 EA White, 8 Watts, Wall/Ceiling Mounted, Vandal Resistant Speaker (Wheelock ET-1010-W).....	223.85	51.57
28 46 13 31-2718 EA Red, 1/8 To 8 Watts, Square, Flush Mounted, Vandal Resistant Speaker (Wheelock ET-1080-R).....	201.54	51.57
28 46 13 31-2719 EA White, 8", 25/70 Volt, 15/30/75/95 Candela, Round, Ceiling Mounted, Speaker (Wheelock S8-24MCC-FW).....	292.50	51.57
28 46 13 31-2720 EA White, 8", 25/70 Volt, Round, Ceiling Mounted, Speaker (Wheelock S8-70/25).....	215.27	51.57
28 46 13 31-2721 Sync Modules (28 46 13 31-2595)		
28 46 13 31-2722 EA 12 Or 24 Volt DC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R).....	202.04	34.38
28 46 13 31-2723 Boxes, Plates And Rings (28 46 13 31-2595)		
28 46 13 31-2724 EA 4" Square, Red, Surface Back Box (Wheelock BB-R).....	43.99	17.19
28 46 13 31-2725 EA Standard 4" Square Box (Wheelock BB-STD).....	43.30	17.19
28 46 13 31-2726 EA Black, Back Box For UZC-256 (Wheelock BB-UZC).....	253.54	34.38
28 46 13 31-2727 EA Red, Back Box For UZC-256 (Wheelock BB-UZC-R).....	253.54	34.38
28 46 13 31-2728 EA 9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP).....	195.74	27.50
28 46 13 31-2729 EA Red, Extender Ring For E60 Series (Wheelock E60EXT-R).....	22.36	6.87
28 46 13 31-2730 EA White, Extender Ring For E60 Series (Wheelock E60EXT-W).....	22.36	6.87
28 46 13 31-2731 EA Red, Surface Mounted Back Box For E50 Speakers (Wheelock E50SB-R).....	54.38	17.19
28 46 13 31-2732 EA White, Surface Mounted Back Box For E50 Speakers (Wheelock E50SB-W).....	51.58	17.19
28 46 13 31-2733 EA Red, Surface Mounted Back Box For E50 Speaker Strobe (Wheelock E50SSB-R).....	54.38	17.19
28 46 13 31-2734 EA White, Surface Mounted Back Box For E50 Speaker Strobe (Wheelock E50SSB-W).....	54.38	17.19
28 46 13 31-2735 EA 4" Square Back Box (Wheelock DBB-R).....	45.78	17.19
28 46 13 31-2736 EA Red, Surface Back Box (Wheelock IOB-R).....	52.54	17.19
28 46 13 31-2737 EA White, Surface, Back Box (Wheelock IOB-W).....	52.54	17.19
28 46 13 31-2738 EA White, Indoor, Surface Extender (Wheelock ISP2-W).....	21.44	6.87
28 46 13 31-2739 EA Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R).....	28.28	6.87
28 46 13 31-2740 EA White, RS/RSS Strobe Trim Plate (Wheelock NATP-W).....	28.28	6.87
28 46 13 31-2741 EA Red Retrofit Plate (Wheelock RP-R).....	25.16	6.87
28 46 13 31-2742 EA 4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4).....	42.71	6.87
28 46 13 31-2743 EA Red, Surface Mounted, Back Box For Chimes, Speakers (Wheelock SBB-R).....	54.82	17.19
28 46 13 31-2744 EA White, Surface Mounted, Back Box For Chimes, Speaker (Wheelock SBB-W).....	55.44	17.19
28 46 13 31-2745 EA Red, Surface Mounted, Back Box For With RSSP (Wheelock SBL2-R).....	58.68	17.19
28 46 13 31-2746 EA Red, Semi-Flush Plate (Wheelock SFB-R).....	29.57	6.87

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28 46 13 31-2747 EA White, Semi-Flush Plate (Wheelock SFB-W).....	29.57	6.87
28 46 13 31-2748 EA Red, Shallow Surface Mounted, Back Box (Wheelock SHBB-R).....	48.72	17.19
28 46 13 31-2749 EA White, Shallow Surface Mounted, Back Box (Wheelock SHBB-W).....	48.72	17.19
28 46 13 31-2750 EA Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R).....	30.96	6.87
28 46 13 31-2751 EA Red, Weather Resistant Back Box (Wheelock WBB-R).....	54.03	17.19
28 46 13 31-2752 EA Silver, Weather Resistant Back Box (Wheelock WBB-S).....	54.03	17.19
28 46 13 31-2753 EA White, Weather Resistant Back Box (Wheelock WBB-W).....	54.03	17.19
28 46 13 31-2754 EA Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R).....	37.62	6.87
28 46 13 31-2755 EA White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W).....	37.62	6.87
28 46 13 31-2756 EA Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFP-A-R).....	37.62	6.87
28 46 13 31-2757 EA White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFP-A-W).....	37.62	6.87
28 46 13 31-2758 EA Gasket Kit For Rear Wiring To Outdoor Back Box (Wheelock WP-KIT).....	26.29	6.87
28 46 13 31-2759 EA Weather Resistant Back Box For ASWP (Wheelock WPBB-R).....	65.50	17.19
28 46 13 31-2760 EA Weather Resistant Back Box For RSSWP (Wheelock WPSBB-R).....	60.47	17.19
28 46 13 31-2761 EA Red Plate For RSS (Wheelock RSSCP-R).....	21.44	6.87
28 46 13 31-2762 EA White Plate For RSS (Wheelock RSSCP-W).....	21.44	6.87
28 46 13 31-2763 EA Red Fire Plate For RSS (Wheelock RSSCPW-FR).....	22.36	6.87
28 46 13 31-2764 EA White Fire Plate For RSS (Wheelock RSSCPW-FW).....	22.36	6.87
28 46 13 31-2765 EA Red, Indoor, Surface Extender (Wheelock ISP2-R).....	21.83	6.87
28 46 13 31-2766 EA Red, 24 Volt DC, 135/185 Candela, Wall Mounted Strobe Plate (Wheelock RSSP-24MCHW-FR).....	151.06	6.87
28 46 13 31-2767 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, Ceiling Mounted Strobe Plate (Wheelock RSSPA-24MCC-ALW).....	135.61	6.87
28 46 13 31-2768 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, No Lettering, Ceiling Mounted Strobe Plate (Wheelock RSSPA-24MCC-NW).....	133.32	6.87
28 46 13 31-2769 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, ALERT Lettering, Wall Mounted Strobe Plate (Wheelock RSSPA-24MCW-ALW).....	135.61	6.87
28 46 13 31-2770 EA Red, Square Grill Plate For CH70, E70, ET70 (Wheelock ECHG70-R).....	24.46	6.87
28 46 13 31-2771 EA White, Square Grill Plate For CH70, E70, ET70 (Wheelock ECHG70-W).....	23.77	6.87
28 46 13 31-2772 EA Red, Round Grill Plate For CH70, E70, ET70 (Wheelock ECHG90-R).....	24.97	6.87
28 46 13 31-2773 EA White, Round Grill Plate For CH70, E70, ET70 (Wheelock ECHG90-W).....	24.97	6.87
28 46 13 31-2774 EA White, Fire Lettered, Grill Plate For E50 Speaker/Strobe (Wheelock ECHSG50-FW).....	23.77	6.87
28 46 13 31-2775 EA Red, Square, Fire Lettered, Grill Plate For CH70,E70,ET70 Speaker/Strobe (Wheelock ECHSG70W-FR).....	24.86	6.87
28 46 13 31-2776 EA White, Square, Fire Lettered, Grill Plate For CH70,E70,ET70 Speaker/Strobe (Wheelock ECHSG70W-FW).....	24.86	6.87
28 46 13 31-2777 EA Red, Round, Fire Lettered, Grill Plate For CH70, E70, ET70 Speaker Strobe (Wheelock ECHSG90-R).....	23.77	6.87
28 46 13 31-2778 EA White, Round, Fire Lettered, Grill Plate For CH70, E70, ET70 Speaker Strobe (Wheelock ECHSG90-W).....	23.77	6.87
28 46 13 31-2779 EA Red, Surface Mounted, Extender Ring (Wheelock SER-R).....	32.47	6.87
28 46 13 31-2780 EA White, Surface Mounted, Extender Ring (Wheelock SER-W).....	32.81	6.87
28 46 13 31-2781 EA Red, Semi-Flush, Plate (Wheelock SFP-R).....	26.29	6.87
28 46 13 31-2782 EA Silver, Semi-Flush, Plate (Wheelock SFP-S).....	24.97	6.87
28 46 13 31-2783 EA White, Semi-Flush, Plate (Wheelock SFP-W).....	26.29	6.87
28 46 13 31-2784 EA Red, Weather Resistant Back Box For ASWP (Wheelock WPBB-R).....	65.50	17.19
28 46 13 31-2785 EA Red, Weather Resistant Back Box For RSSWP (Wheelock WPSBB-R).....	60.47	17.19
28 46 13 31-2786 EA White, Weather Resistant Back Box For RSSWP Series (Wheelock WPSBB-W).....	60.47	17.19
28 46 13 31-2787 Manual Pull Station (28 46 13 31-2595)		
28 46 13 31-2788 EA SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100).....	148.07	34.38
28 46 13 31-2789 EA SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200).....	148.07	34.38
28 46 13 31-2790 EA Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X).....	1,266.40	34.38
28 46 13 31-2791 Potter Fire Alarm (28 46 13 31)		
28 46 13 31-2792 Electric Alarm Bells (28 46 13 31-2791)		
28 46 13 31-2793 EA 6" Alarm Bell, 12 Volt DC (Potter MBA-6-12).....	144.24	51.57
28 46 13 31-2794 EA 8" Alarm Bell, 12 Volt DC (Potter MBA-8-12).....	157.22	51.57
28 46 13 31-2795 EA 10" Alarm Bell, 12 Volt DC (Potter MBA-10-12).....	163.71	51.57
28 46 13 31-2796 EA 6" Alarm Bell, 24 Volt DC (Potter MBA-6-24).....	144.24	51.57
28 46 13 31-2797 EA 8" Alarm Bell, 24 Volt DC (Potter MBA-8-24).....	157.22	51.57
28 46 13 31-2798 EA 10" Alarm Bell, 24 Volt DC (Potter MBA-10-24).....	163.71	51.57
28 46 13 31-2799 EA 6" Alarm Bell, 24 Volt AC (Potter PBA246).....	155.26	51.57
28 46 13 31-2800 EA 8" Alarm Bell, 24 Volt AC (Potter PBA248).....	161.48	51.57
28 46 13 31-2801 EA 10" Alarm Bell, 24 Volt AC (Potter PBA2410).....	198.18	51.57
28 46 13 31-2802 EA 6" Alarm Bell, 120 Volt AC (Potter PBA1206).....	146.11	51.57
28 46 13 31-2803 EA 8" Alarm Bell, 120 Volt AC (Potter PBA1208).....	161.48	51.57
28 46 13 31-2804 EA 10" Alarm Bell, 120 Volt AC (Potter PBA12010).....	174.34	51.57
28 46 13 31-2805 Manual Pull Station (28 46 13 31-2791)		
28 46 13 31-2806 EA SPST, Single Action, Manual Pull Station (Potter P32-1T).....	105.55	34.38
28 46 13 31-2807 EA DPST, Single Action, Manual Pull Station (Potter RMS-2T).....	111.45	34.38
28 46 13 31-2808 EA DPST, Single Action, Manual Pull Station (Potter RMS-6T).....	177.78	34.38
28 46 13 31-2809 EA DPST, Single Action, Key Reset Manual Pull Station (Potter RMS-1T-KL).....	115.11	34.38
28 46 13 31-2810 EA SPST, Dual Action, Manual Pull Station (Potter P32-1T-LP).....	108.89	34.38
28 46 13 31-2811 EA SPST, Weather Proof, Manual Pull Station (Potter RMS-1T-WP).....	198.53	34.38
28 46 13 31-2812 EA SPST, Weather Proof Dual Action, Manual Pull Station (Potter RMS-1T-WP-LP).....	248.01	34.38
28 46 13 31-2813 Fire Alarm Terminal Cabinets (28 46 13 31)		
28 46 13 31-2814 EA 18 Point Lockable Fire Alarm Terminal Cabinet.....	276.24	68.86
28 46 13 31-2815 EA 32 Point Lockable Fire Alarm Terminal Cabinet.....	359.38	68.86



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28 46 13 31-2816	EA	64 Point Lockable Fire Alarm Terminal Cabinet		525.62	68.86
28 46 13 31-2817	EA	128 Point Lockable Fire Alarm Terminal Cabinet.....		691.82	68.86
28 46 13 31-2818		Bosch Fire Alarm Equipment (28 46 13 31)			
28 46 13 31-2819	EA	Fire (Red) Keypad (Bosch D1255RB).....		462.01	68.86
28 46 13 31-2820	EA	Fire Alarm Communication Alarm Panel (Bosch D7412GV4).....		1,084.81	275.45
28 46 13 31-2821	EA	Fire Alarm (Red) Enclosure (Bosch D8109)		273.62	51.64
28 46 13 31-2822	EA	Dual Phone Line Switcher (Bosch D928).....		212.32	27.54
28 46 13 31-2823	EA	Phone Cords (Bosch D161/D162)		26.88	6.88
28 46 13 31-2824	EA	Dual battery Harness (Bosch D122)		31.99	6.88
28 46 13 31-2825	EA	Battery Charging Module (Bosch D8132)		256.65	27.54
28 46 13 31-2826	EA	7 AH, 12 Volt Battery (Bosch D126)		86.03	17.22
28 46 13 31-2827	EA	Transformer (Bosch D1640)		36.38	6.88
28 46 13 31-2828	EA	Transformer Kit (Bosch D8004)		119.26	13.78
28 46 13 31-2829	EA	Phone Jack, Modular (Bosch D166/RJ31X)		26.88	6.88
28 46 13 31-2830		Test And Certification Of Fire Alarm System To Tie In To Existing Systems (28 46 13 31)			
28 46 13 31-2831	DAY	Test And Certification Of Fire Alarm System To Tie Into Existing Systems		1,094.07	
28 46 13 31-2832	HR	Test And Certification Of Fire Alarm System To Tie In To Existing Systems.....		341.90	
28 46 13 31-2833		Programming Of Existing Fire Alarm System (28 46 13 31)			
28 46 13 31-2834	HR	Fire Alarm Technician For Programming Of Existing Fire Alarm System		273.52	
28 46 13 31-2835		Removal And Reinstallation Of Smoke Detector (28 46 13 31) Note: Includes storage, cleaning and supply materials.			
28 46 13 31-2836	EA	Removal And Reinstallation Of Ceiling Mounted Smoke Detector.....		192.54	
28 46 13 31-2837	EA	Removal And Reinstallation Of Wall Mounted Smoke Detector		154.72	
28 46 13 31-2838		Kidde Fire Safety Equipment (28 46 13 31)			
28 46 13 31-2839		Smoke Detectors (28 46 13 31-2838)			
28 46 13 31-2840	EA	Combination Smoke And Carbon Monoxide Detector, Intelligent Sensor, 120 Volt Hardwired, With10 Year Sealed Battery Back-up (Kidde P4010ACS-CO)		175.73	51.57
28 46 13 31-2841	EA	Combination Smoke And Carbon Monoxide Detector, 120 Volt Wired, With 10 Year Sealed Battery Back-up (Kidde i12010SCO)		155.25	51.57
28 46 13 31-2842	EA	Combination Smoke And Carbon Monoxide Detector, With 10 Year Sealed Battery (Kidde P3010K-CO).....		142.87	51.57
28 46 31		Fire-Alarm Initiating Devices (28 46)			
28 46 31 11		Heat-Sensing Fire Detectors (28 46 31)			
28 46 31 11-0001		Protectowire Fire Alarm (28 46 31 11)			
28 46 31 11-0002		Linear Heat Detector Cable (28 46 31 11-0001)			
28 46 31 11-0003	LF	Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC).....		6.19	
28 46 31 11-0004	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC- EPC-M).....		6.71	
28 46 31 11-0005	LF	High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR).....		6.71	
28 46 31 11-0006	LF	High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M).....		7.22	
28 46 31 11-0007	LF	Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT)		7.90	
28 46 31 11-0008	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M)		8.42	
28 46 31 11-0009	EA	Flexible Lead Connector For Linear Heat Detector (Protectowire PFL).....		78.89	
28 46 31 11-0010	EA	Splicing Connector For Linear Heat Detector (Protectowire PWSC)		30.81	
28 46 31 11-0011	EA	Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W)		10.46	
28 46 31 11-0012	EA	Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2)		10.46	
28 46 31 11-0013	EA	Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO)		11.67	
28 46 31 11-0014	EA	Beam Clamp For Linear Heat Detector (Protectowire BC-2)		18.20	
28 46 31 11-0015	EA	Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P).....		18.89	
28 46 31 11-0016	EA	Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A)		1.75	
28 46 31 11-0017	EA	Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B).....		2.38	
28 46 31 11-0018	EA	Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C)		10.44	
28 46 41		Fire-Alarm Notification Appliances (28 46)			
28 46 41 11		Audible Fire-Alarm Notification Appliances (28 46 41) See CSI section 28 46 13 31-0000 for fire alarm speakers.			
28 46 41 31		Combination Fire-Alarm Notification Appliances (28 46 41) See CSI section 28 46 13 31-0000 for fire alarm horns and strobes.			
28 47		Mass Notification (28 40)			
28 47 15		Mass Notification Control Panels (28 47)			
28 47 15 00-0001		Central Station Controls (28 47 15)			

28 Electronic Safety and Security**28 40 Life Safety****28 47 Mass Notification**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 15 00-0002	EA		Desktop 18 Function Base Station Control/Encoder (Whelen E747).....	1,010.92	
28 47 15 00-0003	EA		Desktop 35 Function Base Station Control/Encoder (Whelen E969).....	1,642.84	
28 47 15 00-0004	EA		Desktop Central Station Control Encoder/Decoder (Whelen E2010).....	4,921.95	68.76
28 47 15 00-0005	EA		Siren Status Printer And Cable Option For E2010 (Whelen E2010P).....	1,504.08	34.38
28 47 15 00-0006	EA		Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R).....	5,742.96	137.53
28 47 15 00-0007	EA		Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK).....	837.68	34.38
28 47 15 00-0008	EA		Option To Convert Activation Controls To FSK Format (Whelen FSKCEO).....	898.40	34.38
28 47 17 Notification Devices and Methods (28 47)					
28 47 17 17 Notification Appliances and Methods Public Methods (28 47 17)					
28 47 17 17-0001 Voice Capable Omni-Directional Speakers (28 47 17 17)					
28 47 17 17-0002	EA		1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A).....	14,224.77	858.58
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0003	EA		2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A).....	17,359.24	895.91
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0004	EA		3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A).....	20,454.94	933.24
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0005	EA		4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A).....	23,550.63	970.57
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0006	EA		5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A).....	26,723.86	1,007.90
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0007	EA		6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A).....	32,029.34	1,045.22
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0008	EA		7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A).....	35,163.80	1,082.55
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0009	EA		8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A).....	38,931.47	1,119.88
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0010	EA		9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A).....	42,027.16	1,157.21
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0011	EA		10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A).....	45,161.63	1,194.54
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0012	EA		3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003).....	30,866.30	1,045.22
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0013	EA		4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004).....	32,876.48	1,082.55
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0014	EA		One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL).....	548.16	34.38
28 47 17 17-0015	EA		VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV).....	2,291.46	34.38
28 47 17 17-0016	EA		UHF Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NU).....	2,291.46	34.38
28 47 17 17-0017	EA		UHF Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WU).....	2,071.78	34.38
28 47 17 17-0018	EA		VHF High-Band Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WV).....	2,007.16	34.38
28 47 17 17-0019	EA		Two-Tone Sequential Option (Whelen WPSTT).....	506.97	34.38
28 47 17 17-0020	EA		Full Function Auxiliary/Status Board For Contact Closure Activation (Two Way) (Whelen AUXCS).....	647.70	34.38
28 47 17 17-0021	EA		Landline, 10 Digit DTMF (Whelen C2030LL).....	672.87	34.38
28 47 17 17-0022	EA		VHF High-Band Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NV).....	3,262.51	34.38
28 47 17 17-0023	EA		UHF Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NU).....	2,511.15	34.38
28 47 17 17-0024	EA		UHF Wide-Band, 10 Digit DTMF (Whelen C2030WU).....	2,511.15	34.38
28 47 17 17-0025	EA		VHF High-Wide Band, 10 Digit DTMF (Whelen C2030WV).....	2,511.15	34.38
28 47 17 17-0026	EA		Option To Convert WPS Activation Controls To FSK Format (Whelen FSKXMOD).....	898.40	34.38
28 47 17 17-0027	EA		Cabinet Window LED Status Indicator (Whelen STATUS).....	624.09	34.38
28 47 17 17-0028	EA		Paging Interface Whelen Tones With Existing In-Plant Systems (Whelen PGINT).....	417.73	34.38
28 47 17 17-0029	EA		Intrusion Alarm (Whelen INTRUWPS).....	318.18	34.38
28 47 17 17-0030	EA		Custom Pre-Recorded Messages (One Time Set-up Charge Per Message) (Whelen MSGPROG).....	218.53	
28 47 17 17-0031	EA		Whelen Library Messages (Whelen MSGPROGL).....	43.76	
28 47 17 17-0032	EA		Noise Cancelling Microphone Includes Local Microphone Input Harness (Whelen WPSNCMIC).....	174.59	34.38
28 47 17 17-0033	EA		One Pair Of Whelen Approved Batteries (Whelen WPSBATT).....	1,178.31	51.57
28 47 17 17-0034	EA		WPS And OA Series, Rooftop Mounted (Whelen RTM).....	11,154.92	821.25
28 47 17 17-0035	EA		Two 80 Watt Panels, Solar Power System (Whelen SBC280).....	4,638.30	206.29
			Note: Includes mounting bracket and regulator.		
28 47 17 17-0036	EA		Amber, 6 LED Lights For The Base Of WPS Series (Whelen VALERTA).....	2,351.69	51.57
28 47 17 17-0037	EA		Blue, 6 LED Lights For The Base Of WPS Series (Whelen VALERTB).....	2,351.69	51.57
28 47 17 17-0038	EA		Clear, 6 LED Lights For The Base Of WPS Series (Whelen VALERTC).....	2,351.69	51.57
28 47 17 17-0039	EA		Green, 6 LED Lights For The Base Of WPS Series (Whelen VALERTG).....	2,351.69	51.57
28 47 17 17-0040	EA		Red, 6 LED Lights For The Base Of WPS Series Products (Whelen VALERTR).....	2,351.69	51.57
28 47 17 17-0041	EA		Amber, 24 Volt DC, LED, Beacon (Whelen L31HAF4).....	821.67	51.57
28 47 17 17-0042	EA		Blue, 24 Volt DC, LED, Beacon (Whelen L31HBF4).....	821.67	51.57
28 47 17 17-0043	EA		Red, 24 Volt DC, LED, Beacon (Whelen L31HRF4).....	821.67	51.57
28 47 17 17-0044	EA		Amber, 24 Volt DC, Strobe (Whelen ISB24A).....	644.32	51.57
28 47 17 17-0045	EA		Blue, 24 Volt DC, Strobe (Whelen ISB24B).....	644.32	51.57
28 47 17 17-0046	EA		Clear, 24 Volt DC, Strobe (Whelen ISB24C).....	644.32	51.57
28 47 17 17-0047	EA		Green, 24 Volt DC, Strobe (Whelen ISB24G).....	644.32	51.57
28 47 17 17-0048	EA		Red, 24 Volt DC, Strobe (Whelen ISB24R).....	644.32	51.57
28 47 17 17-0049	EA		Strobe/LED Controller With Mounting Plate, Hardware And Harnessing For ISB24 (Whelen SCWPS).....	912.61	34.38
28 47 17 17-0050	EA		Strobe Controller (Whelen STCTRL).....	678.59	34.38
28 47 17 17-0051	EA		LED Controller (Whelen LEDCTRL).....	678.59	34.38
28 47 17 17-0052	EA		Speaker Driver Handle/Plate Assembly Only (Less Speaker Driver) (Whelen EZ-PULL).....	444.88	51.57
28 47 17 17-0053	EA		Siren Diagnostic and Programming Software In CD Format (Whelen SDPTS).....	586.27	
28 47 17 17-0054	EA		400 Watt Speaker Driver (Whelen SPKDRV).....	939.46	34.38
28 47 17 17-0055	EA		Cabinet Window LED Status Indicator (Whelen STATUS).....	473.79	34.38
28 47 17 17-0056	EA		Noise Cancelling Microphone Option For Encoder (Whelen WPSMIC).....	174.59	34.38
28 47 17 17-0057	EA		Notifier/Whelen Interface Board (Whelen NAUXCS).....	929.16	34.38



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0058 Tone Only, Omni-Alert Sirens (28 47 17 17)		
28 47 17 17-0059 EA One Cell, Tone Only, Omni-Alert Siren (Whelen OA1) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	11,503.84	821.25
28 47 17 17-0060 EA Two Cell, Tone Only, Omni-Alert Siren (Whelen OA2) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	14,354.00	858.58
28 47 17 17-0061 EA Three Cell, Tone Only, Omni-Alert Siren (Whelen OA3) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	17,178.32	895.91
28 47 17 17-0062 EA Four Cell, Tone Only, Omni-Alert Siren (Whelen OA4) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	20,067.26	933.24
28 47 17 17-0063 EA One Way Controls, Auxiliary Board For Contact Closure Activation (Whelen OAUXXIN).....	329.80	34.38
28 47 17 17-0064 EA One Way Landline Activation, 10 Digit DTMF (Whelen OD2030LL).....	548.16	34.38
28 47 17 17-0065 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OD230NV).....	2,291.46	34.38
28 47 17 17-0066 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OD230NU).....	2,291.46	34.38
28 47 17 17-0067 EA UHF Wide-Band, 10 Digit DTMF (Whelen OD230WU).....	2,071.78	34.38
28 47 17 17-0068 EA VHF High-Wide Band, 10 Digit DTMF (Whelen OD230WV).....	2,007.16	34.38
28 47 17 17-0069 EA One-Way Control Two-Tone Sequential Option (Whelen OTT).....	442.90	34.38
28 47 17 17-0070 EA Two Way Controls, Contact Closure Activation Board (Whelen OAUXXCS).....	722.65	34.38
28 47 17 17-0071 EA Two Way Landline Activation (Whelen OC2030LL).....	751.08	34.38
28 47 17 17-0072 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OC230NV).....	2,511.15	34.38
28 47 17 17-0073 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OC230NU).....	2,511.15	34.38
28 47 17 17-0074 EA UHF, 10 Digit DTMF (Whelen OC230WU).....	2,511.15	34.38
28 47 17 17-0075 EA VHF High Band, 10 Digit DTMF (Whelen OC230WV).....	2,511.15	34.38
28 47 17 17-0076 EA Converts The Omni-Alert Siren Activation Controls To FSK Format (Whelen OFSKXMOD).....	898.40	34.38
28 47 17 17-0077 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen OPGINT).....	417.73	34.38
28 47 17 17-0078 EA Cabinet Window LED Status Indicator (Whelen OSTATUS).....	473.79	34.38
28 47 17 17-0079 EA Intrusion Alarm (Whelen OINTRU).....	256.40	34.38
28 47 17 17-0080 EA 80 Watt Solar Power Option (Whelen OSBC280).....	4,638.30	206.29
28 47 17 17-0081 EA One Pair Of Whelen Approved Batteries For Omnialet (Whelen BSETO).....	958.96	51.57
28 47 17 17-0082 Tone-Only Rotating Directional Speakers (28 47 17 17)		
28 47 17 17-0083 EA 3 Cells, 127 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR3) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	23,809.08	970.57
28 47 17 17-0084 EA 4 Cells, 129 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR4) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	25,250.67	1,007.90
28 47 17 17-0085 EA Limited Function Auxiliary Board For Contact Closure Activation (Whelen VAUXIN).....	299.88	34.38
28 47 17 17-0086 EA Landline, 10 Digit DTMF (Whelen VD2030LL).....	610.22	34.38
28 47 17 17-0087 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VD230NV).....	2,291.46	34.38
28 47 17 17-0088 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VD230NU).....	2,291.46	34.38
28 47 17 17-0089 EA UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU).....	2,071.78	34.38
28 47 17 17-0090 EA VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV).....	2,007.16	34.38
28 47 17 17-0091 EA Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020LI, VD2020H, VD2020U) (Whelen VORTT).....	442.90	34.38
28 47 17 17-0092 EA Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS).....	708.43	34.38
28 47 17 17-0093 EA Landline, 10 Digit DTMF (Whelen VC2030LL).....	751.08	34.38
28 47 17 17-0094 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV).....	2,511.15	34.38
28 47 17 17-0095 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU).....	2,511.15	34.38
28 47 17 17-0096 EA UHF, 10 Digit DTMF (Whelen VC230WU).....	2,511.15	34.38
28 47 17 17-0097 EA VHF High Band, 10 Digit DTMF (Whelen VC230WV).....	2,511.15	34.38
28 47 17 17-0098 EA Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFSKXMOD).....	898.40	34.38
28 47 17 17-0099 EA Cabinet Window LED Status Indicator (Whelen VSTATUS).....	526.22	34.38
28 47 17 17-0100 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT).....	417.73	34.38
28 47 17 17-0101 EA Vortex Intrusion Alarm (Whelen VINTRU).....	256.40	34.38
28 47 17 17-0102 EA Speaker Pole Top Bracket (Whelen VPTB).....	722.65	34.38
28 47 17 17-0103 EA 80 Watt Solar Power Option (Whelen VSBC280).....	4,638.30	206.29
28 47 17 17-0104 EA One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR).....	958.96	51.57
28 47 17 17-0105 EA Program Charge For Custom VROM Message (Whelen VPROG).....	3,808.74	
28 47 17 17-0106 Uni-Directional Rotating Speakers (28 47 17 17)		
28 47 17 17-0107 EA 118 dB, Uni-Directional Rotating Speaker (Whelen HORNET).....	15,206.90	858.58
28 47 17 17-0108 EA One Way Contact Closure Activation Control Board (Whelen HAUXXIN).....	299.88	34.38
28 47 17 17-0109 EA Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL).....	610.22	34.38
28 47 17 17-0110 EA VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV).....	2,291.46	34.38
28 47 17 17-0111 EA UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU).....	2,291.46	34.38
28 47 17 17-0112 EA UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU).....	2,071.78	34.38
28 47 17 17-0113 EA VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV).....	2,007.16	34.38
28 47 17 17-0114 EA Two-Tone Sequential Option For Hornet (Whelen HORTT).....	491.33	34.38
28 47 17 17-0115 EA Two Way Contact Closure Activation And Status Control Board (Whelen HAUXXCS).....	635.11	34.38
28 47 17 17-0116 EA Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL).....	672.87	34.38
28 47 17 17-0117 EA VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV).....	2,511.15	34.38
28 47 17 17-0118 EA UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU).....	2,511.15	34.38
28 47 17 17-0119 EA UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU).....	2,511.15	34.38
28 47 17 17-0120 EA VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV).....	2,511.15	34.38
28 47 17 17-0121 EA Converts Siren Activation Controls To FSK Format (Whelen HFSKXMOD).....	898.40	34.38
28 47 17 17-0122 EA LED Status Indicator (Whelen HSTATUS).....	473.79	34.38
28 47 17 17-0123 EA Option For Paging Interface (Whelen HPGINT).....	417.73	34.38
28 47 17 17-0124 EA Intrusion Alarm (Whelen HINTRU).....	256.40	34.38
28 47 17 17-0125 EA Solar Power Option (Whelen HSBC280).....	4,638.30	206.29

28 Electronic Safety and Security**28 40 Life Safety****28 47 Mass Notification**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0126	EA		Pole Top Bracket For Speaker (Whelen HPTB).....	669.44	34.38
28 47 17 17-0127	EA		One Pair Of Whelen Approved Batteries (Whelen BSETF).....	958.96	51.57
28 47 17 17-0128			All Hazard In-Plant Personnel Warning System (28 47 17 17)		
28 47 17 17-0129	EA		400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400).....	7,679.65	1,100.21
28 47 17 17-0130	EA		800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800).....	9,311.58	1,237.74
28 47 17 17-0131	EA		15 Watt, Wide Angle Speaker (Whelen WS15T).....	426.93	51.57
28 47 17 17-0132	EA		Recess Mounted, 15 Watt Speaker (Whelen WS15TR).....	408.63	51.57
28 47 17 17-0133	EA		With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN).....	774.76	51.57
28 47 17 17-0134	EA		30 Watt, Wide Angle Speaker (Whelen WS30T).....	531.05	51.57
28 47 17 17-0135	EA		60 Watt, Wide Angle Speaker (Whelen WS60T).....	1,066.51	51.57
28 47 17 17-0136	EA		Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXPL6T).....	1,835.62	58.44
28 47 17 17-0137	EA		100 Watt, Wide Angle Speaker (Whelen WS100).....	682.08	51.57
28 47 17 17-0138	EA		Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH).....	1,061.97	58.44
28 47 17 17-0139	EA		Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU).....	256.40	34.38
28 47 17 17-0140			Firehouse Siren (28 47 17 17)		
28 47 17 17-0141	EA		Auxiliary Board Contact Closure (Whelen FAUXIN).....	299.88	34.38
28 47 17 17-0142	EA		Two-Tone Sequential Option (Whelen FTT).....	442.90	34.38
28 47 17 17-0143	EA		Auxiliary/Status Control Board (Whelen FAUXCS).....	708.43	34.38
28 47 17 17-0144	EA		Landline, 10 Digit DTMF (Whelen FC2030LL).....	672.87	34.38
28 47 17 17-0145	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV).....	2,511.15	34.38
28 47 17 17-0146	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU).....	2,511.15	34.38
28 47 17 17-0147	EA		UHF, 10 Digit DTMF (Whelen FC230WU).....	2,511.15	34.38
28 47 17 17-0148	EA		VHF High Band, 10 Digit DTMF (Whelen FC230WV).....	2,511.15	34.38
28 47 17 17-0149	EA		Paging Interface Control Option (Whelen FPGINT).....	417.73	34.38
28 47 17 17-0150	EA		Intrusion Alarm Control Option (Whelen FINTRU).....	256.40	34.38
28 47 17 17-0151	EA		Solar Power Option (Whelen FSBC280).....	4,638.30	206.29
			Note: Two 80 watt panels, with brackets and solar regulator.		
28 47 17 17-0152			Alert Monitor And Message Display (28 47 17 17)		
28 47 17 17-0153	EA		Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H).....	2,097.62	34.38
28 47 17 17-0154	EA		Alert Monitor VHF High-Narrow Band (Whelen V2000NH).....	2,097.62	34.38
28 47 17 17-0155	EA		Alert Monitor UHF Narrow-Band (Whelen V2000NU).....	2,097.62	34.38
28 47 17 17-0156	EA		Alert Monitor With Radio Receiver UHF (Whelen V2000U).....	2,097.62	34.38
28 47 17 17-0157	EA		Internal Battery And Charger For VA2000 Series (Whelen VA2BATT).....	271.33	51.57
28 47 17 17-0158	EA		Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG).....	81.35	34.38
28 47 17 17-0159	EA		Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA).....	162.47	
28 47 17 17-0160	EA		Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB).....	255.15	
28 47 17 17-0161			Portable Test Set (28 47 17 17)		
28 47 17 17-0162	EA		VHF High Band, Portable Test Set (Whelen PT2010H).....	8,438.52	
28 47 17 17-0163	EA		VHF Low Band, Portable Test Set (Whelen PT2010L).....	8,438.52	
28 47 17 17-0164	EA		UHF, Portable Test Set (Whelen PT2010U).....	8,438.52	
28 47 17 17-0165			Replacement Warning Lights (28 47 17 17)		
28 47 17 17-0166	EA		Amber, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IA).....	421.23	55.01
28 47 17 17-0167	EA		Blue, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IB).....	421.23	55.01
28 47 17 17-0168	EA		Clear, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IC).....	421.23	55.01
28 47 17 17-0169	EA		Green, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IG).....	421.23	55.01
28 47 17 17-0170	EA		Red, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IR).....	421.23	55.01
28 47 17 17-0171	EA		Amber, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IA).....	452.12	55.01
28 47 17 17-0172	EA		Blue, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IB).....	297.66	55.01
28 47 17 17-0173	EA		Clear, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IC).....	447.54	55.01
28 47 17 17-0174	EA		Green, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IG).....	447.54	55.01
28 47 17 17-0175	EA		Red, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IR).....	447.54	55.01
28 47 17 17-0176	EA		Amber, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HA).....	421.23	55.01
28 47 17 17-0177	EA		Blue, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HB).....	421.23	55.01
28 47 17 17-0178	EA		Clear, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HC).....	421.23	55.01
28 47 17 17-0179	EA		Green, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HG).....	421.23	55.01
28 47 17 17-0180	EA		Red, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HR).....	421.23	55.01
28 47 17 17-0181	EA		Amber, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HA).....	470.43	55.01
28 47 17 17-0182	EA		Blue, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HB).....	470.43	55.01
28 47 17 17-0183	EA		Clear, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HC).....	309.10	55.01
28 47 17 17-0184	EA		Green, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HG).....	309.10	55.01
28 47 17 17-0185	EA		Red, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HR).....	309.10	55.01
28 47 17 17-0186			Antenna (28 47 17 17)		
28 47 17 17-0187	EA		50' Antenna Cable (Honeywell Ademco 7626-50HC).....	328.07	
28 47 17 17-0188	EA		External/Remote Weatherproof Antenna (Honeywell Ademco GSM-ANT3DB).....	298.37	
28 47 17 17-0189	EA		80GHz Millimeter Wave Radio (BridgeWave Flex4G-1000).....	15,964.06	

28 47 21 Mass Notification System Interfaces (28 47)



Electronic Safety and Security			28
Life Safety			28 40
Mass Notification			28 47

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 21 21			Notification Interfaces to Fire Detection and Alarm (28 47 21)		
28 47 21 21-0001			Emergency Command Center (Honeywell Fire-Lite) (28 47 21 21)		
28 47 21 21-0002	EA		Emergency Command Center Multipurpose Emergency Voice Evacuation Panels (Fire-Lite ECC-50/100 E).....	2,570.93	343.82
28 47 21 21-0003	EA		Circuit Expander Module (Fire-Lite ECC_CE6).....	487.36	27.50
28 47 21 21-0004	EA		25V, 50 Watt Audio Amplifier Module (Fire-Lite ECC_50W_25V).....	431.39	34.38
28 47 21 21-0005	EA		75V, 50 Watt Audio Amplifier Module (Fire-Lite ECC_50W_70V).....	444.48	34.38
28 47 21 21-0006	EA		70V Transformer Conversion Module (Fire-Lite ECC_XRM_70V).....	233.76	34.38
28 47 21 21-0007	EA		Local Operator Console (Fire-Lite ECC-LOC).....	1,343.36	68.76
28 47 21 21-0008	EA		Remote Page Unit Hand Held Microphone (Fire-Lite ECC-RPU).....	1,052.35	17.19
28 47 21 21-0009	EA		Distributed (Remote) Audio Amplifier, 50 Watts (Fire-Lite ECC-50DA).....	1,026.70	68.76
28 47 21 21-0010	EA		Distributed (Remote) Audio Amplifier, 125 Watts (Fire-Lite ECC-125DA).....	1,754.42	68.76
28 47 21 21-0011	EA		Distributed (Remote) Audio Amplifier With Backup, 50/100 Watts (Fire-Lite ECC50BDA).....	2,772.52	68.76
28 47 21 21-0012	EA		100 Watt Primary / 50 Watt Back-up Remote Amplifier Expander Card (Fire-Lite ECC-50WBU).....	1,358.97	34.38
28 47 21 21-0013	EA		Distributed Audio Speaker Circuit/Zone Expander Module (Fire-Lite ECC-CE4).....	426.61	34.38
28 47 21 21-0014	EA		Addressable Mini-Monitor Module (Fire-Lite MMF-301).....	107.86	34.38
28 47 21 21-0015	EA		Thumb Latch (Fire-Lite THUMBLTCH).....	58.23	13.76
28 47 21 21-0016	EA		25-120 Ampere-Hours (AH) Battery Charger (Fire-Lite CHG-120F).....	757.88	13.76
28 47 21 21-0017	EA		Replacement Microphone (Fire-Lite ECC-MICROPHONE).....	159.70	13.76
28 47 21 21-0018	EA		12 Volt, 7 Ampere-Hour (AH) Battery (Fire-Lite BAT-1270).....	299.13	34.38
28 47 21 21-0019	EA		12 Volt, 12 Ampere-Hour (AH) Battery (Fire-Lite BAT-12120).....	381.46	34.38
28 47 21 21-0020	EA		12 Volt, 18 Ampere-Hour (AH) Battery (Fire-Lite BAT-12180).....	285.77	34.38
28 49			Electronic Personal Protection Systems (28 49)		
28 49 11			Electronic Personal Safety Detection Systems (28 49)		
28 49 11 00-0001			Personnel Alarm Locating System (28 49 11)		
			Note: Includes a central computer, 17" VGA color monitor, keyboard and mouse, personal alarm locating software, a printer, interface cards and panels, eighty (80) personal alarm transmitters with lithium batteries, eighty (80) lapel readers, two hundred fifty (250) IR locators, twenty one (21) repeaters and receivers, back boxes, cables.		
28 49 11 00-0002	EA		Personnel Alarm Locating System.....	25,266.63	1,103.58
			Note: Includes Pentium III central computer, 17" VGA color monitor, keyboard and mouse, personal alarm locating software, a printer, interface cards and panels.		
28 49 11 00-0003	EA		Personnel Alarm Transmitters With Lithium Batteries.....	199.85	
28 49 11 00-0004	EA		Lapel Reader.....	76.86	
28 49 11 00-0005	EA		IR Locator.....	282.46	41.32
28 49 11 00-0006	EA		Repeaters And Receivers.....	690.52	137.73
28 49 17			Electronic Personal Safety Emergency Aid Devices (28 49)		
28 49 17 00-0001			Electronic Personal Safety Emergency Aid Devices (Edwards Signaling) (28 49 17)		
28 49 17 00-0002			Call For Assistance Kits, Emergency Aid Devices (Edwards Signaling) (28 49 17 00-0001)		
28 49 17 00-0003	EA		Pull Cord Call For Assistance Kit With Strobe/Buzzer, Emergency Aid Devices (Edwards Signaling 7008B-N5).....	368.69	82.64
			Note: Includes 1 high intensity strobe/buzzer (7007B-N5) and 1 emergency pull cord station (6537).		
28 49 17 00-0004	EA		Push Button Call For Assistance Kit With Strobe/Horn, Emergency Aid Devices (Edwards Signaling 7005-G5).....	437.40	96.41
			Note: Includes 1 high intensity strobe/horn (6536-G5), 1 emergency pull cord station (6537), and 1 transformer 592.		
28 49 17 00-0005	EA		Pull Cord Call For Assistance Kit With Strobe/Horn, Emergency Aid Devices (Edwards Signaling 6538-G5).....	440.62	96.41
			Note: Includes 1 high intensity strobe/horn (6536-G5), 1 wall mounted push button (620/147-10), and 1 transformer 592.		
28 49 17 00-0006			Audible/Visual Signaling Devices, Emergency Aid Devices (Edwards Signaling) (28 49 17 00-0001)		
28 49 17 00-0007	EA		High Intensity Strobe/Buzzer, Emergency Aid Devices (Edwards Signaling 7007B-N5).....	270.97	51.64
28 49 17 00-0008	EA		High Intensity Strobe/Horn, Emergency Aid Devices (Edwards Signaling 6536-G5).....	263.54	41.32
28 49 17 00-0009	EA		Transformer For High Intensity Strobe/Horns, Emergency Aid Devices (Edwards Signaling 592).....	123.22	41.32
28 49 17 00-0010	EA		1 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-1N5).....	213.72	41.32
28 49 17 00-0011	EA		2 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-2N5).....	246.07	41.32
28 49 17 00-0012	EA		4 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-4G5).....	279.65	41.32
28 49 17 00-0013	EA		2 Lamp, Dome Station/Buzzer, Emergency Aid Devices (Edwards Signaling 7633-2).....	387.59	41.32
28 49 17 00-0014	EA		4 Lamp, Dome Station/Buzzer, Emergency Aid Devices (Edwards Signaling 7633-4).....	434.03	41.32
28 49 17 00-0015			Call Activation Devices, Emergency Aid Devices (Edwards Signaling) (28 49 17 00-0001)		
28 49 17 00-0016	EA		Double Pole Single Throw Switch, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 6537).....	163.82	41.32
28 49 17 00-0017	EA		Pushbutton Wall Station/Indicator Lamp With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7603E).....	240.95	41.32
28 49 17 00-0018	EA		Pushbutton Wall Station/Indicator Lamp With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7613E).....	315.41	41.32
28 49 17 00-0019	EA		3 Maintained Contacts, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7302).....	336.82	13.78
28 49 17 00-0020	EA		Bedside Wall Station Receptacle, Emergency Aid Devices (Edwards Signaling 7930).....	247.84	41.32
28 49 17 00-0021	EA		Bedside Wall Station Receptacle With Lamp, Emergency Aid Devices (Edwards Signaling 7930L).....	292.37	41.32

28 Electronic Safety and Security**28 40 Life Safety****28 49 Electronic Personal Protection Systems**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
28 49 17 00-0022	EA	Locking Button, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7932L)		495.31		41.32
28 49 17 00-0023	EA	Pendant Push Button, Emergency Aid Devices (Edwards Signaling 7620)		235.59		41.32
28 49 17 00-0024	EA	Single 6' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7675)		284.78		13.78
28 49 17 00-0025	EA	Double 6' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7676)		440.21		13.78
28 49 17 00-0026	EA	Single 15' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7685)		449.77		13.78
28 49 17 00-0027	EA	Double 15' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7686)		592.49		13.78

END OF SECTION 28



		Earthwork	31	15
		Maintenance of Earthwork	31 01	
		Maintenance of Earth Moving	31 01 20	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 Earthwork

31 01 Maintenance of Earthwork⁽³¹⁾

31 01 20 Maintenance of Earth Moving^(31 01)

31 01 20 00-0001	Rip Settling Basins ^(31 01 20)	
Note: Rip through light soil and sand in settling basin. 8' on center (machine width).		
31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer	746.54
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper	1,176.83
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader	1,019.06

31 05 Common Work Results for Earthwork⁽³¹⁾

31 05 13 Soils for Earthwork^(31 05)

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.

31 05 13 00-0001	Fill Material (Loose, Purchased Material) ^(31 05 13)	
Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.		
31 05 13 00-0002	CY Bank Run/Fill Sand	34.31
	For Up To 8, Add	6.86
	For >8 To 16, Add	3.43
	For >48 To 64, Deduct	-2.57
	For >64 To 96, Deduct	-4.29
	For >96 To 168, Deduct	-6.00
	For >168 To 240, Deduct	-7.29
	For >240, Deduct	-8.57
31 05 13 00-0003	CY Screened/Washed Filter/Septic Sand	43.99
	For Up To 8, Add	8.80
	For >8 To 16, Add	4.40
	For >48 To 64, Deduct	-3.06
	For >64 To 96, Deduct	-5.26
	For >96 To 168, Deduct	-7.45
	For >168 To 240, Deduct	-8.98
	For >240, Deduct	-10.51
31 05 13 00-0004	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	56.66
	For Up To 8, Add	11.33
	For >8 To 16, Add	5.67
	For >48 To 64, Deduct	-3.69
	For >64 To 96, Deduct	-6.52
	For >96 To 168, Deduct	-9.36
	For >168 To 240, Deduct	-11.20
	For >240, Deduct	-13.04
31 05 13 00-0005	CY 3/16" Minus, Screened/Washed Concrete Sand	49.12
	For Up To 8, Add	9.82
	For >8 To 16, Add	4.91
	For >48 To 64, Deduct	-3.31
	For >64 To 96, Deduct	-5.77
	For >96 To 168, Deduct	-8.22
	For >168 To 240, Deduct	-9.88
	For >240, Deduct	-11.54
31 05 13 00-0006	CY 3/32" Minus, Screened/Washed Masonry/Mortar Sand	85.87
	For Up To 8, Add	17.17
	For >8 To 16, Add	8.59
	For >48 To 64, Deduct	-5.15
	For >64 To 96, Deduct	-9.44
	For >96 To 168, Deduct	-13.74
	For >168 To 240, Deduct	-16.31
	For >240, Deduct	-18.89
31 05 13 00-0007	CY Common Fill, Native Soil/Dirt	37.47
	For Up To 8, Add	7.49
	For >8 To 16, Add	3.75
	For >48 To 64, Deduct	-2.73
	For >64 To 96, Deduct	-4.60
	For >96 To 168, Deduct	-6.48
	For >168 To 240, Deduct	-7.84
	For >240, Deduct	-9.21
31 05 13 00-0008	CY Lime Rock Screening	38.28
	For Up To 8, Add	7.66
	For >8 To 16, Add	3.83
	For >48 To 64, Deduct	-2.77
	For >64 To 96, Deduct	-4.68
	For >96 To 168, Deduct	-6.60
	For >168 To 240, Deduct	-7.98
	For >240, Deduct	-9.37

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 13 Soils for Earthwork**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0009 CY Crushed Lime Rock Maximum 3-1/2"	38.28	
For Up To 8, Add	7.66	
For >8 To 16, Add	3.83	
For >48 To 64, Deduct	-2.77	
For >64 To 96, Deduct	-4.68	
For >96 To 168, Deduct	-6.60	
For >168 To 240, Deduct	-7.98	
For >240, Deduct	-9.37	
31 05 13 00-0010 CY Sand/Clay	35.81	
For Up To 8, Add	7.16	
For >8 To 16, Add	3.58	
For >48 To 64, Deduct	-2.65	
For >64 To 96, Deduct	-4.44	
For >96 To 168, Deduct	-6.23	
For >168 To 240, Deduct	-7.55	
For >240, Deduct	-8.87	
31 05 13 00-0011 CY Recycled Concrete Aggregate	34.60	
For Up To 8, Add	6.92	
For >8 To 16, Add	3.46	
For >48 To 64, Deduct	-2.59	
For >64 To 96, Deduct	-4.32	
For >96 To 168, Deduct	-6.05	
For >168 To 240, Deduct	-7.34	
For >240, Deduct	-8.63	
31 05 13 00-0012 CY Pit Run Clay	46.77	
For Up To 8, Add	9.35	
For >8 To 16, Add	4.68	
For >48 To 64, Deduct	-3.19	
For >64 To 96, Deduct	-5.53	
For >96 To 168, Deduct	-7.87	
For >168 To 240, Deduct	-9.47	
For >240, Deduct	-11.07	
31 05 13 00-0013 CY Light Clay / Loam	43.23	
For Up To 8, Add	8.65	
For >8 To 16, Add	4.32	
For >48 To 64, Deduct	-3.02	
For >64 To 96, Deduct	-5.18	
For >96 To 168, Deduct	-7.34	
For >168 To 240, Deduct	-8.85	
For >240, Deduct	-10.36	
31 05 13 00-0014 CY Heavy Clay	52.00	
For Up To 8, Add	10.40	
For >8 To 16, Add	5.20	
For >48 To 64, Deduct	-3.46	
For >64 To 96, Deduct	-6.06	
For >96 To 168, Deduct	-8.66	
For >168 To 240, Deduct	-10.38	
For >240, Deduct	-12.11	

31 05 16 Aggregates for Earthwork (31 05)

See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.

31 05 16 00-0001	Aggregate (Loose, Purchased Material) (31 05 16)	
	Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.	
31 05 16 00-0002	CY #2 (1-1/2" To 2-1/2" Clean) Stone Aggregate Fill	50.31
	For Up To 8, Add	10.06
	For >8 To 16, Add	5.03
	For >48 To 64, Deduct	-3.37
	For >64 To 96, Deduct	-5.89
	For >96 To 168, Deduct	-8.40
	For >168 To 240, Deduct	-10.09
	For >240, Deduct	-11.77
31 05 16 00-0003	CY #3 (1" To 2" Clean) Stone Aggregate Fill	52.26
	For Up To 8, Add	10.45
	For >8 To 16, Add	5.23
	For >48 To 64, Deduct	-3.47
	For >64 To 96, Deduct	-6.08
	For >96 To 168, Deduct	-8.70
	For >168 To 240, Deduct	-10.43
	For >240, Deduct	-12.16
31 05 16 00-0004	CY #4 (3/4" To 1-1/2" Clean) Stone Aggregate Fill	50.31
	For Up To 8, Add	10.06
	For >8 To 16, Add	5.03
	For >48 To 64, Deduct	-3.37
	For >64 To 96, Deduct	-5.89
	For >96 To 168, Deduct	-8.40
	For >168 To 240, Deduct	-10.09
	For >240, Deduct	-11.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0005 CY #5 (1/2" To 1" Clean) Stone Aggregate Fill	53.67	
For Up To 8, Add	10.73	
For >8 To 16, Add	5.37	
For >48 To 64, Deduct	-3.54	
For >64 To 96, Deduct	-6.22	
For >96 To 168, Deduct	-8.91	
For >168 To 240, Deduct	-10.68	
For >240, Deduct	-12.45	
31 05 16 00-0006 CY #6 (3/8" To 3/4" Clean) Stone Aggregate Fill	55.65	
For Up To 8, Add	11.13	
For >8 To 16, Add	5.57	
For >48 To 64, Deduct	-3.64	
For >64 To 96, Deduct	-6.42	
For >96 To 168, Deduct	-9.20	
For >168 To 240, Deduct	-11.02	
For >240, Deduct	-12.84	
31 05 16 00-0007 CY #56 (3/8" To 1") Stone Aggregate Fill	53.97	
For Up To 8, Add	10.79	
For >8 To 16, Add	5.40	
For >48 To 64, Deduct	-3.55	
For >64 To 96, Deduct	-6.25	
For >96 To 168, Deduct	-8.95	
For >168 To 240, Deduct	-10.73	
For >240, Deduct	-12.51	
31 05 16 00-0008 CY #57 (3/8" To 1") Stone Aggregate Fill	57.42	
For Up To 8, Add	11.48	
For >8 To 16, Add	5.74	
For >48 To 64, Deduct	-3.73	
For >64 To 96, Deduct	-6.60	
For >96 To 168, Deduct	-9.47	
For >168 To 240, Deduct	-11.33	
For >240, Deduct	-13.20	
31 05 16 00-0009 CY #67 Or #68 (3/16" To 3/4") Stone Aggregate Fill	52.15	
For Up To 8, Add	10.43	
For >8 To 16, Add	5.22	
For >48 To 64, Deduct	-3.46	
For >64 To 96, Deduct	-6.07	
For >96 To 168, Deduct	-8.68	
For >168 To 240, Deduct	-10.41	
For >240, Deduct	-12.14	
31 05 16 00-0010 CY #71 (3/8" To 1/2") Stone Aggregate Fill	53.11	
For Up To 8, Add	10.62	
For >8 To 16, Add	5.31	
For >48 To 64, Deduct	-3.51	
For >64 To 96, Deduct	-6.17	
For >96 To 168, Deduct	-8.82	
For >168 To 240, Deduct	-10.58	
For >240, Deduct	-12.33	
31 05 16 00-0011 CY #78 (3/32" To 1/2") Stone Aggregate Fill	53.52	
For Up To 8, Add	10.70	
For >8 To 16, Add	5.35	
For >48 To 64, Deduct	-3.53	
For >64 To 96, Deduct	-6.21	
For >96 To 168, Deduct	-8.88	
For >168 To 240, Deduct	-10.65	
For >240, Deduct	-12.42	
31 05 16 00-0012 CY #8 (3/32" To 3/8") Stone Aggregate Fill	55.65	
For Up To 8, Add	11.13	
For >8 To 16, Add	5.57	
For >48 To 64, Deduct	-3.64	
For >64 To 96, Deduct	-6.42	
For >96 To 168, Deduct	-9.20	
For >168 To 240, Deduct	-11.02	
For >240, Deduct	-12.84	
31 05 16 00-0013 CY #89 (1/16" To 3/8") Stone Aggregate Fill	56.24	
For Up To 8, Add	11.25	
For >8 To 16, Add	5.62	
For >48 To 64, Deduct	-3.67	
For >64 To 96, Deduct	-6.48	
For >96 To 168, Deduct	-9.29	
For >168 To 240, Deduct	-11.13	
For >240, Deduct	-12.96	
31 05 16 00-0014 CY #9 (3/32" To 3/16") Stone Aggregate Fill	55.65	
For Up To 8, Add	11.13	
For >8 To 16, Add	5.57	
For >48 To 64, Deduct	-3.64	
For >64 To 96, Deduct	-6.42	
For >96 To 168, Deduct	-9.20	
For >168 To 240, Deduct	-11.02	
For >240, Deduct	-12.84	

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 16 Aggregates for Earthwork**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0015	CY		#10 (1/16" To 3/16") Stone Aggregate Fill	56.87	
			For Up To 8, Add	11.37	
			For >8 To 16, Add	5.69	
			For >48 To 64, Deduct	-3.70	
			For >64 To 96, Deduct	-6.54	
			For >96 To 168, Deduct	-9.39	
			For >168 To 240, Deduct	-11.24	
			For >240, Deduct	-13.09	
31 05 16 00-0016	CY		#610 (1/16" To 3/4") Modified Stone Aggregate Fill	56.24	
			For Up To 8, Add	11.25	
			For >8 To 16, Add	5.62	
			For >48 To 64, Deduct	-3.67	
			For >64 To 96, Deduct	-6.48	
			For >96 To 168, Deduct	-9.29	
			For >168 To 240, Deduct	-11.13	
			For >240, Deduct	-12.96	
31 05 16 00-0017	CY		3/16" Max Screenings Stone Aggregate Fill	47.58	
			For Up To 8, Add	9.52	
			For >8 To 16, Add	4.76	
			For >48 To 64, Deduct	-3.24	
			For >64 To 96, Deduct	-5.61	
			For >96 To 168, Deduct	-7.99	
			For >168 To 240, Deduct	-9.61	
			For >240, Deduct	-11.23	
31 05 16 00-0018	CY		Over 6" To 12" Stone Aggregate Fill, Random Size	51.50	
			For Up To 8, Add	10.30	
			For >8 To 16, Add	5.15	
			For >48 To 64, Deduct	-3.43	
			For >64 To 96, Deduct	-6.01	
			For >96 To 168, Deduct	-8.58	
			For >168 To 240, Deduct	-10.30	
			For >240, Deduct	-12.01	
31 05 16 00-0019	CY		Over 6" To 12" Graded Stone Aggregate Fill	51.50	
			For Up To 8, Add	10.30	
			For >8 To 16, Add	5.15	
			For >48 To 64, Deduct	-3.43	
			For >64 To 96, Deduct	-6.01	
			For >96 To 168, Deduct	-8.58	
			For >168 To 240, Deduct	-10.30	
			For >240, Deduct	-12.01	
31 05 16 00-0020	CY		3" To 7" Surge Stone Aggregate Fill, Random Size	55.41	
			For Up To 8, Add	11.08	
			For >8 To 16, Add	5.54	
			For >48 To 64, Deduct	-3.63	
			For >64 To 96, Deduct	-6.40	
			For >96 To 168, Deduct	-9.17	
			For >168 To 240, Deduct	-10.98	
			For >240, Deduct	-12.79	
31 05 16 00-0021	CY		3" To 7" Surge Stone Graded Aggregate Fill	58.19	
			For Up To 8, Add	11.64	
			For >8 To 16, Add	5.82	
			For >48 To 64, Deduct	-3.77	
			For >64 To 96, Deduct	-6.68	
			For >96 To 168, Deduct	-9.58	
			For >168 To 240, Deduct	-11.47	
			For >240, Deduct	-13.35	
31 05 16 00-0022	CY		2-1/2" Minus Crusher Run Aggregate Fill	33.96	
			For Up To 8, Add	6.79	
			For >8 To 16, Add	3.40	
			For >48 To 64, Deduct	-2.55	
			For >64 To 96, Deduct	-4.25	
			For >96 To 168, Deduct	-5.95	
			For >168 To 240, Deduct	-7.23	
			For >240, Deduct	-8.50	
31 05 16 00-0023	CY		1-1/2" Minus Crusher Run Aggregate Fill	37.03	
			For Up To 8, Add	7.41	
			For >8 To 16, Add	3.70	
			For >48 To 64, Deduct	-2.71	
			For >64 To 96, Deduct	-4.56	
			For >96 To 168, Deduct	-6.41	
			For >168 To 240, Deduct	-7.76	
			For >240, Deduct	-9.12	
31 05 16 00-0024	CY		3/4" Minus Crusher Run Aggregate Fill	35.04	
			For Up To 8, Add	7.01	
			For >8 To 16, Add	3.50	
			For >48 To 64, Deduct	-2.61	
			For >64 To 96, Deduct	-4.36	
			For >96 To 168, Deduct	-6.11	
			For >168 To 240, Deduct	-7.42	
			For >240, Deduct	-8.72	



		Earthwork	31
		Common Work Results for Earthwork	31 05
		Aggregates for Earthwork	31 05 16

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0025 CY Miscellaneous Crushed Base, Processed Concrete, Paving.....	67.60	
For Up To 8, Add	13.52	
For >8 To 16, Add	6.76	
For >16 To 64, Deduct	-4.24	
For >64 To 96, Deduct	-7.62	
For >96 To 168, Deduct	-11.00	
For >168 To 240, Deduct	-13.11	
For >240, Deduct	-15.23	

31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization⁽³¹⁾

⁽⁰⁵⁾
See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing⁽³¹⁾

31 11 Clearing and Grubbing^(31 10)

31 11 00 00-0001 Clear And Grub Roots And Stumps^(31 11)

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002 ACR Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip	8,428.70
Note: Includes grub and removal of stump	
31 11 00 00-0003 ACR Clear And Grub Light Stumps Only Up To 6" Diameter	2,306.56
31 11 00 00-0004 ACR Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip	11,238.28
Note: Includes grub and removal of stump	
31 11 00 00-0005 ACR Clear And Grub Medium Stumps Only Up To 10" Diameter	3,844.26
31 11 00 00-0006 ACR Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip	15,452.63
Note: Includes grub and removal of stump	
31 11 00 00-0007 ACR Clear And Grub Heavy Stumps Only Up To 16" Diameter	5,766.39
31 11 00 00-0008 ACR Clear And Grub Heavy Trees Up To 24" Diameter, Cut And Chip	22,476.55
Note: Includes grub and removal of stump	
31 11 00 00-0009 ACR Clear And Grub Heavy Stumps Only Up To 24" Diameter	8,072.95
31 11 00 00-0010 ACR Clearing By Machine - Light Brush Without Grub	378.86
31 11 00 00-0011 ACR Clearing By Machine - Medium Brush Without Grub	776.68
31 11 00 00-0012 ACR Clearing By Machine - Heavy Brush Without Grub	1,100.67
31 11 00 00-0013 ACR Chipping - Light Brush	2,997.41
31 11 00 00-0014 ACR Chipping - Medium Brush	3,854.00
31 11 00 00-0015 ACR Chipping - Heavy Brush	5,396.10

31 11 00 00-0016 Loading Of Cleared And Grubbed Material^(31 11)

See CSI section 01 74 19 00-0041 for hauling.

31 11 00 00-0017 CY Machine Loading Of Cleared And Grubbed Material	13.00
31 11 00 00-0018 CY Chute Loading Of Cleared And Grubbed Material	15.61
31 11 00 00-0019 CY Hand Loading Of Cleared And Grubbed Material	47.55
31 11 00 00-0020 CY Wheel And Ramp Loading Of Cleared And Grubbed Material	37.36

31 13 Selective Tree and Shrub Removal and Trimming^(31 10)

31 13 13 Selective Tree and Shrub Removal^(31 13)

31 13 13 00-0001 Individual Tree Removal^(31 13 13)

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002 EA Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal	702.39
Note: Includes cutting up tree, chipping and loading.	
For >4 To 10, Deduct	-42.14
For >25, Deduct	-131.70
31 13 13 00-0003 EA >6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal	1,053.59
Note: Includes cutting up tree, chipping and loading.	
For >4 To 10, Deduct	-63.22
For >25, Deduct	-197.55
31 13 13 00-0004 EA >12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	1,404.78
Note: Includes cutting up tree, chipping and loading.	
For >4 To 10, Deduct	-84.29
For >25, Deduct	-263.40
31 13 13 00-0005 EA >24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal	2,107.18
Note: Includes cutting up tree, chipping and loading.	
For >4 To 10, Deduct	-126.43
For >25, Deduct	-395.10
31 13 13 00-0006 EA >36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal	2,809.57
Note: Includes cutting up tree, chipping and loading.	
For >4 To 10, Deduct	-168.57
For >25, Deduct	-526.79
31 13 13 00-0007 EA >48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal	3,511.96
Note: Includes cutting up tree, chipping and loading.	
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-877.99
For >4 To 10, Deduct	-210.72
For >10 To 25, Deduct	-439.00
For >25, Deduct	-658.49

31 Earthwork**31 10 Site Clearing****31 13 Selective Tree and Shrub Removal and Trimming**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0008	EA	>60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >4 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	4,214.35 -1,053.59 -252.86 -526.79 -790.19	
31 13 13 00-0009	EA	>72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >4 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	5,619.13 -1,404.78 -337.15 -702.39 -1,053.59	
31 13 13 00-0010		Stump Removal (31 13 13) Note: Measured by diameter of stump.		
31 13 13 00-0011		Stump Removal By Machine (31 13 13 00-0010)		
31 13 13 00-0012	EA	Up To 6" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. <i>For >10, Deduct</i>	115.32 -17.30	
31 13 13 00-0013	EA	>6" To 12" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. <i>For >10, Deduct</i>	221.04 -33.16	
31 13 13 00-0014	EA	>12" To 24" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. <i>For >10, Deduct</i>	288.32 -43.25	
31 13 13 00-0015	EA	>24" To 36" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. <i>For >10, Deduct</i>	432.49 -64.87	
31 13 13 00-0016	EA	>36" To 48" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. <i>For >10, Deduct</i>	509.40 -76.41	
31 13 13 00-0017	EA	>48" To 60" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. <i>For >10, Deduct</i>	599.70 -89.96	
31 13 13 00-0018	EA	>60" To 72" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. <i>For >10, Deduct</i>	711.19 -106.68	
31 13 13 00-0019	EA	>72" To 84" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. <i>For >10, Deduct</i>	836.13 -125.42	
31 13 13 00-0020		Stump Removal By Hand (31 13 13 00-0010)		
31 13 13 00-0021	EA	Up To 6" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	729.35	
31 13 13 00-0022	EA	>6" To 12" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	911.69	
31 13 13 00-0023	EA	>12" To 24" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,337.14	
31 13 13 00-0024	EA	>24" To 36" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,823.37	
31 13 13 00-0025	EA	>36" To 48" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,431.15	
31 13 13 00-0026	EA	>48" To 60" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,038.95	
31 13 13 00-0027	EA	>60" To 72" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,646.74	
31 13 13 00-0028	EA	>72" To 84" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	4,254.52	
31 13 13 00-0029		Stump Grinding (31 13 13) Note: Measured by diameter of stump.		
31 13 13 00-0030		Stump Grinding, 18" Deep Below Surface Of Soil (31 13 13 00-0029) Note: Level soil to match existing surface area.		
31 13 13 00-0031	EA	Stump Grinding Up To 6" Tree <i>For 24" Depth, Add</i> <i>For >10, Deduct</i>	140.83 28.17 -17.60	
31 13 13 00-0032	EA	Stump Grinding >6" To 12" Tree <i>For 24" Depth, Add</i> <i>For >10, Deduct</i>	176.04 35.21 -22.01	
31 13 13 00-0033	EA	Stump Grinding >12" To 15" Tree <i>For 24" Depth, Add</i> <i>For >10, Deduct</i>	211.25 42.25 -26.41	



Earthwork		31	15
Site Clearing		31 10	
Selective Tree and Shrub Removal and Trimming		31 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0034	EA		Stump Grinding >15" To 18" Tree.....	234.72	
			For 24" Depth, Add	46.94	
			For >10, Deduct	-29.34	
31 13 13 00-0035	EA		Stump Grinding >18" To 21" Tree.....	252.33	
			For 24" Depth, Add	50.47	
			For >10, Deduct	-31.54	
31 13 13 00-0036	EA		Stump Grinding >21" To 24" Tree.....	269.93	
			For 24" Depth, Add	53.99	
			For >10, Deduct	-33.74	
31 13 13 00-0037	EA		Stump Grinding >24" To 27" Tree.....	293.40	
			For 24" Depth, Add	58.68	
			For >10, Deduct	-36.68	
31 13 13 00-0038	EA		Stump Grinding >27" To 30" Tree.....	319.78	
			For 24" Depth, Add	63.96	
			For >10, Deduct	-39.97	
31 13 13 00-0039	EA		Stump Grinding >30" To 33" Tree.....	355.31	
			For 24" Depth, Add	71.06	
			For >10, Deduct	-44.41	
31 13 13 00-0040	EA		Stump Grinding >33" To 36" Tree.....	390.83	
			For 24" Depth, Add	78.17	
			For >10, Deduct	-48.85	
31 13 13 00-0041	EA		Stump Grinding >36" To 42" Tree.....	426.37	
			For 24" Depth, Add	85.27	
			For >10, Deduct	-53.30	
31 13 13 00-0042	EA		Stump Grinding >42" To 48" Tree.....	473.74	
			For 24" Depth, Add	94.75	
			For >10, Deduct	-59.22	
31 13 13 00-0043	EA		Stump Grinding >48" To 60" Tree.....	592.18	
			For 24" Depth, Add	118.44	
			For >10, Deduct	-74.02	
31 13 13 00-0044	EA		Stump Grinding >60" To 72" Tree.....	740.22	
			For 24" Depth, Add	148.04	
			For >10, Deduct	-92.53	
31 13 13 00-0045	EA		Stump Grinding >72" To 84" Tree.....	947.48	
			For 24" Depth, Add	189.50	
			For >10, Deduct	-118.44	

31 13 13 00-0046 Shrub Removal (31 13 13)

31 13 13 00-0047	EA		Removal Of 18" To 24" Shrub, Broadleaf Evergreen.....	54.31	
			For >4 To 10, Deduct	-3.26	
			For >10 To 25, Deduct	-6.79	
31 13 13 00-0048	EA		Removal Of 2' To 3' Shrub, Broadleaf Evergreen.....	85.16	
			For >4 To 10, Deduct	-5.11	
			For >10 To 25, Deduct	-10.65	
31 13 13 00-0049	EA		Removal Of 3' To 4' Shrub, Broadleaf Evergreen.....	98.75	
			For >4 To 10, Deduct	-5.93	
			For >10 To 25, Deduct	-12.34	
31 13 13 00-0050	EA		Removal Of 4' To 5' Shrub, Broadleaf Evergreen.....	148.11	
			For >4 To 10, Deduct	-8.89	
			For >10 To 25, Deduct	-18.51	
31 13 13 00-0051	EA		Removal Of 12" To 15" Shrub, Deciduous.....	27.15	
			For >4 To 10, Deduct	-1.63	
			For >10 To 25, Deduct	-3.39	
31 13 13 00-0052	EA		Removal Of 18" To 24" Shrub, Deciduous.....	41.96	
			For >4 To 10, Deduct	-2.52	
			For >10 To 25, Deduct	-5.25	
31 13 13 00-0053	EA		Removal Of 2' To 3' Shrub, Deciduous.....	54.31	
			For >4 To 10, Deduct	-3.26	
			For >10 To 25, Deduct	-6.79	
31 13 13 00-0054	EA		Removal Of 3' To 4' Shrub, Deciduous.....	59.25	
			For >4 To 10, Deduct	-3.56	
			For >10 To 25, Deduct	-7.41	
31 13 13 00-0055	EA		Removal Of 18" To 24" Shrub, Evergreen.....	54.31	
			For >4 To 10, Deduct	-3.26	
			For >10 To 25, Deduct	-6.79	
31 13 13 00-0056	EA		Removal Of 24" To 30" Shrub, Evergreen.....	59.25	
			For >4 To 10, Deduct	-3.56	
			For >10 To 25, Deduct	-7.41	
31 13 13 00-0057	EA		Removal Of 30" To 36" Shrub, Evergreen.....	85.16	
			For >4 To 10, Deduct	-5.11	
			For >10 To 25, Deduct	-10.65	
31 13 13 00-0058	EA		Removal Of 36" To 42" Shrub, Evergreen.....	148.11	
			For >4 To 10, Deduct	-8.89	
			For >10 To 25, Deduct	-18.51	

31 13 13 00-0059 Fallen Tree Removal (31 13 13)

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding. Excludes removing tree from ground.

31 Earthwork**31 10 Site Clearing****31 13 Selective Tree and Shrub Removal and Trimming**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0060	EA	Up To 6" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >4 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	561.91 -140.48 -33.71 -70.24 -105.36	
31 13 13 00-0061	EA	>6" To 12" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >4 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	842.87 -210.72 -50.57 -105.36 -158.04	
31 13 13 00-0062	EA	>12" To 24" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >4 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	1,123.83 -280.96 -67.43 -140.48 -210.72	
31 13 13 00-0063	EA	>24" To 36" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >4 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	1,685.74 -421.44 -101.14 -210.72 -316.08	
31 13 13 00-0064	EA	>36" To 48" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >4 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	2,247.65 -561.91 -134.86 -280.96 -421.43	
31 13 13 00-0065	EA	>48" To 60" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >4 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	2,809.57 -702.39 -168.57 -351.20 -526.79	

31 13 16 Selective Tree and Shrub Trimming (31 13)

See CSI section 32 01 90 23-0000 for tree pruning.

31 13 16 00-0001		Tree Trimming For Pole Line Construction And Maintenance (31 13 16) Note: Area to be vertical cleared (including overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.		
31 13 16 00-0002	LF	Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction	2.32	
31 13 16 00-0003	LF	Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction	3.47	
31 13 16 00-0004	LF	Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction	4.08	
31 13 16 00-0005		Tree Branch Trimming And Removal For Maintenance Along Building Or Structure (31 13 16) Note: Includes pick-up and placement of cut branches into chipper for removal. Excludes transportation from site or disposal fee. See CSI section 01 22 23 00-0105 for bucket truck where required for additional height.		
31 13 16 00-0006	EA	Minimum Charge For Trim Tree Branch	863.40	
31 13 16 00-0007	EA	Up To 1" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	21.58	
31 13 16 00-0008	EA	>1" To 2" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	24.28	
31 13 16 00-0009	EA	>2" To 3" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	29.68	
31 13 16 00-0010	EA	Up To 1" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	26.98	
31 13 16 00-0011	EA	>1" To 2" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	30.36	
31 13 16 00-0012	EA	>2" To 3" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	37.10	

31 20 Earth Moving (31)

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

31 22 Grading (31 20)



	Earthwork	31	15
	Earth Moving	31 20	
	Grading	31 22	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 22 13		Rough Grading (31 22) See CSI section 31 23 16 00-0000 for rough grading.		
31 22 16		Fine Grading (31 22)		
31 22 16 13		Roadway Subgrade Reshaping (31 22 16) See CSI section 31 23 16 00-0000 for bulk shaping and grading, 31 24 13 00-0000 for roadway shaping and grading.		
31 22 19		Finish Grading (31 22)		
31 22 19 13		Spreading and Grading Topsoil (31 22 19)		
31 22 19 13-0001		Site Grading For Areas Outside Of Structures And Slabs (31 22 19 13) Note: Use of bobcat type equipment or hand for finish grading for positive drainage.		
31 22 19 13-0002		Hand Digging And Grading (31 22 19 13-0001)		
31 22 19 13-0003	SF	Trim And Shape Machine Excavated Area By Hand Finish Grade	1.30	
31 22 19 13-0004	SF	Trim And Shape Area On Grade By Hand, Finish Grade	1.19	
31 22 19 13-0005	SF	Fine Grade Gravel Bedding By Hand Finish Grade	1.24	
31 22 19 13-0006	SF	Fine Grade Gravel By Hand Finish Grade	1.04	
31 22 19 13-0007		Machine Operations (31 22 19 13-0001)		
31 22 19 13-0008		Machine Operations With Grader (31 22 19 13-0007)		
31 22 19 13-0009	CSY	Semi-Grade, 2 Passes With Grader	475.91	
31 22 19 13-0010	CSY	Fine Grade, 3 Passes With Grader	660.99	
31 23		Excavation and Fill (31 20)		
31 23 16		Excavation (31 23)		
31 23 16 13		Trenching (31 23 16) Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.		
31 23 16 13-0001		Excavation For Trenching By Machine (31 23 16 13) Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 13-0002	CY	12" Wide or Less, Excavation for Trenching by Machine in Soil	12.63	
		For Excavation In Light Material (Class A), Deduct	-1.58	
		For Excavation In Heavy/Wet Material (Class C), Add	5.05	
		For Up To 20, Add	12.63	
		For >20 To 50, Add	9.47	
		For >50 To 250, Add	5.05	
		For >250 To 500, Add	1.89	
		For >1,000, Deduct	-1.89	
31 23 16 13-0003	CY	Over 12" Wide, Excavation for Trenching by Machine in Soil	8.04	
		For Excavation In Light Material (Class A), Deduct	-1.01	
		For Excavation In Heavy/Wet Material (Class C), Add	3.22	
		For Up To 20, Add	8.04	
		For >20 To 50, Add	6.03	
		For >50 To 250, Add	3.22	
		For >250 To 500, Add	1.21	
		For >1,000, Deduct	-1.21	
31 23 16 13-0004	CY	12" Wide or Less, Excavation for Trenching by Machine in Loose Rock	20.91	
		Note: Includes compacted aggregate		
		For Up To 20, Add	20.91	
		For >20 To 50, Add	15.68	
		For >50 To 250, Add	8.36	
		For >250 To 500, Add	3.14	
		For >1,000, Deduct	-3.14	
31 23 16 13-0005	CY	Over 12" Wide, Excavation for Trenching by Machine in Loose Rock	14.29	
		Note: Includes compacted aggregate		
		For Up To 20, Add	14.29	
		For >20 To 50, Add	10.72	
		For >50 To 250, Add	5.72	
		For >250 To 500, Add	2.14	
		For >1,000, Deduct	-2.14	
31 23 16 13-0006		Excavation For Trenching By Hand (31 23 16 13)		
31 23 16 13-0007	CY	Excavation For Trenching By Hand In Soil	156.92	
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 13-0008	CY	Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate	269.18	
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 13-0009	SF	Trim Bottom Of Excavation Hand Labor	1.22	
		Note: For use with machine excavation.		
31 23 16 13-0010	SF	Trim Slopes/Sides Of Excavation Hand Labor	1.40	
		Note: For use with machine excavation.		
31 23 16 13-0011		Backfilling Or Placing Subbase For Trenches (31 23 16 13) Note: With imported or stockpiled materials.		

31 Earthwork**31 20 Earth Moving****31 23 Excavation and Fill**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
31 23 16 13-0012	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine.....	4.58		
		For Up To 20, Add	4.58		
		For >20 To 50, Add	3.44		
		For >50 To 250, Add	1.83		
		For >250 To 500, Add	0.69		
		For >1,000, Deduct	-0.69		
31 23 16 13-0013	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand.....	43.59		
31 23 16 13-0014 Compaction Of Fill Or Subbase For Trenches (31 23 16 13)					
Note: Includes restoration of final grade.					
31 23 16 13-0015	CY	Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, etc.	9.07		
		For Up To 20, Add	9.07		
		For >20 To 50, Add	6.80		
		For >50 To 250, Add	3.63		
		For >250 To 500, Add	1.36		
		For >1,000, Deduct	-1.36		
31 23 16 13-0016	CY	Compaction of Fill or Subbase for Trenches by Hand	49.17		
31 23 16 13-0017 Loading Excess Material For Removal From Excavation For Trenches (31 23 16 13)					
Note: Includes handwork by laborer for cleanup. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0041 for hauling.					
31 23 16 13-0018	CY	Load Excess Material by Machine for Removal from Excavation for Trenching	7.96		
		For Up To 20, Add	7.96		
		For >20 To 50, Add	5.97		
		For >50 To 250, Add	3.18		
		For >250 To 500, Add	1.19		
		For >1,000, Deduct	-1.19		
31 23 16 13-0019	CY	Load Excess Material by Hand for Removal from Excavation for Trenching	115.07		
31 23 16 13-0020 Spread Excess Or Imported Material For Trenches (31 23 16 13)					
Note: Includes hand work by laborer for cleanup.					
31 23 16 13-0021	CY	Spread Excess Or Imported Material On Site With Machine	3.74		
		For Up To 20, Add	3.74		
		For >20 To 50, Add	2.81		
		For >50 To 250, Add	1.50		
		For >250 To 500, Add	0.56		
		For >1,000, Deduct	-0.56		
31 23 16 13-0022 Direct Burial (Plowed-in) Cable Or Piping By Machine (31 23 16 13)					
Note: Includes trench, backfill, compaction and restoration of final grade.					
31 23 16 13-0023	LF	Direct Burial of Cable or Piping up to 12" Deep	2.69		
31 23 16 13-0024	LF	Direct Burial of Cable or Piping >12" to 24" Deep.....	2.97		
31 23 16 13-0025	LF	Direct Burial of Cable or Piping >24" to 36" Deep.....	4.22		
31 23 16 13-0026	LF	Direct Burial of Cable or Piping >36" to 48" Deep.....	4.76		
31 23 16 13-0027 Utility Chain Trencher (31 23 16 13)					
31 23 16 13-0028 Utility Trench, Chain Trencher (31 23 16 13-0027)					
Note: Earth left adjacent to trench.					
31 23 16 13-0029	LF	4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.54		
		For >100 To 250, Deduct	-0.11		
		For >250 To 500, Deduct	-0.23		
		For >500, Deduct	-0.46		
31 23 16 13-0030	LF	4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.69		
		For >100 To 250, Deduct	-0.12		
		For >250 To 500, Deduct	-0.25		
		For >500, Deduct	-0.51		
31 23 16 13-0031	LF	4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.76		
		For >100 To 250, Deduct	-0.12		
		For >250 To 500, Deduct	-0.26		
		For >500, Deduct	-0.53		
31 23 16 13-0032	LF	6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.85		
		For >100 To 250, Deduct	-0.13		
		For >250 To 500, Deduct	-0.28		
		For >500, Deduct	-0.56		
31 23 16 13-0033	LF	6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	2.03		
		For >100 To 250, Deduct	-0.14		
		For >250 To 500, Deduct	-0.30		
		For >500, Deduct	-0.61		
31 23 16 13-0034	LF	6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	2.32		
		For >100 To 250, Deduct	-0.16		
		For >250 To 500, Deduct	-0.35		
		For >500, Deduct	-0.70		
31 23 16 13-0035	LF	6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	2.79		
		For >100 To 250, Deduct	-0.20		
		For >250 To 500, Deduct	-0.42		
		For >500, Deduct	-0.84		



		Earthwork	31	15
		Earth Moving	31 20	
		Excavation and Fill	31 23	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
31 23 16 13-0036	LF 8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	2.63		
	For >100 To 250, Deduct	-0.18		
	For >250 To 500, Deduct	-0.39		
	For >500, Deduct	-0.79		
31 23 16 13-0037	LF 8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	3.10		
	For >100 To 250, Deduct	-0.22		
	For >250 To 500, Deduct	-0.47		
	For >500, Deduct	-0.93		
31 23 16 13-0038	LF 8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	3.52		
	For >100 To 250, Deduct	-0.25		
	For >250 To 500, Deduct	-0.53		
	For >500, Deduct	-1.06		
31 23 16 13-0039	LF 8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	4.17		
	For >100 To 250, Deduct	-0.29		
	For >250 To 500, Deduct	-0.63		
	For >500, Deduct	-1.25		
31 23 16 13-0040 Backfill Trenches With Compaction (31 23 16 13-0027)				
31 23 16 13-0041	LF Backfill 4" Wide, 12" Deep Trench, With Compaction	0.24		
	For >100 To 250, Deduct	-0.02		
	For >250 To 500, Deduct	-0.04		
	For >500, Deduct	-0.07		
31 23 16 13-0042	LF Backfill 4" Wide, 18" Deep Trench, With Compaction	0.38		
	For >100 To 250, Deduct	-0.03		
	For >250 To 500, Deduct	-0.06		
	For >500, Deduct	-0.11		
31 23 16 13-0043	LF Backfill 4" Wide, 24" Deep Trench, With Compaction	0.50		
	For >100 To 250, Deduct	-0.04		
	For >250 To 500, Deduct	-0.08		
	For >500, Deduct	-0.15		
31 23 16 13-0044	LF Backfill 6" Wide, 12" Deep Trench, With Compaction	0.38		
	For >100 To 250, Deduct	-0.03		
	For >250 To 500, Deduct	-0.06		
	For >500, Deduct	-0.11		
31 23 16 13-0045	LF Backfill 6" Wide, 18" Deep Trench, With Compaction	0.50		
	For >100 To 250, Deduct	-0.04		
	For >250 To 500, Deduct	-0.08		
	For >500, Deduct	-0.15		
31 23 16 13-0046	LF Backfill 6" Wide, 24" Deep Trench, With Compaction	0.75		
	For >100 To 250, Deduct	-0.05		
	For >250 To 500, Deduct	-0.11		
	For >500, Deduct	-0.23		
31 23 16 13-0047	LF Backfill 6" Wide, 36" Deep Trench, With Compaction	1.08		
	For >100 To 250, Deduct	-0.08		
	For >250 To 500, Deduct	-0.16		
	For >500, Deduct	-0.32		
31 23 16 13-0048	LF Backfill 8" Wide, 12" Deep Trench, With Compaction	0.50		
	For >100 To 250, Deduct	-0.04		
	For >250 To 500, Deduct	-0.08		
	For >500, Deduct	-0.15		
31 23 16 13-0049	LF Backfill 8" Wide, 18" Deep Trench, With Compaction	0.75		
	For >100 To 250, Deduct	-0.05		
	For >250 To 500, Deduct	-0.11		
	For >500, Deduct	-0.23		
31 23 16 13-0050	LF Backfill 8" Wide, 24" Deep Trench, With Compaction	1.01		
	For >100 To 250, Deduct	-0.07		
	For >250 To 500, Deduct	-0.15		
	For >500, Deduct	-0.30		
31 23 16 13-0051	LF Backfill 8" Wide, 36" Deep Trench, With Compaction	1.51		
	For >100 To 250, Deduct	-0.11		
	For >250 To 500, Deduct	-0.23		
	For >500, Deduct	-0.45		
31 23 16 16 Structural Excavation for Minor Structures (31 23 16)				
31 23 16 16-0001	Post Holes (31 23 16 16)			
	Note: Excludes spreading of excess material on site or loading and removal of excavated material from site.			
31 23 16 16-0002	Drilling Post Hole In Soil (31 23 16 16-0001)			
	Note: Auger by machine unless otherwise notified by owner.			
31 23 16 16-0003	VLF Up To 2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil	11.05		
31 23 16 16-0004	VLF 2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil	12.43		
31 23 16 16-0005	VLF 3" Diameter Hole, Auger By Machine Post Hole In Soil	14.73		
31 23 16 16-0006	VLF 4" Diameter Hole, Auger By Machine Post Hole In Soil	16.57		
31 23 16 16-0007	VLF 6" Diameter Hole, Auger By Machine Post Hole In Soil	18.08		
31 23 16 16-0008	VLF 8" Diameter Hole, Auger By Machine Post Hole In Soil	19.89		
31 23 16 16-0009	VLF 10" Diameter Hole, Auger By Machine Post Hole In Soil	22.10		
31 23 16 16-0010	VLF 12" Diameter Hole, Auger By Machine Post Hole In Soil	24.86		
31 23 16 16-0011	VLF 18" Diameter Hole, Auger By Machine Post Hole In Soil	28.41		
31 23 16 16-0012	VLF 24" Diameter Hole, Auger By Machine Post Hole In Soil	33.14		
31 23 16 16-0013	VLF 30" Diameter Hole, Auger By Machine Post Hole In Soil	39.77		
31 23 16 16-0014	VLF 36" Diameter Hole, Auger By Machine Post Hole In Soil	49.71		

31	Earthwork
31 20	Earth Moving
31 23	Excavation and Fill



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 16-0015		Drilling Post Hole In Rock (31 23 16 16-0001)		
31 23 16 16-0016	CF	Jackhammer Post Hole, Rock.....	86.04	
31 23 16 16-0017	CF	Rock Drill Post Hole, Rock.....	22.44	
31 23 16 16-0018		Post Hole Fill (31 23 16 16-0001)		
31 23 16 16-0019		Concrete Fill (31 23 16 16-0018)		
31 23 16 16-0020	VLF	Concrete Fill, Up To 2-1/2" Diameter Hole.....	6.33	
31 23 16 16-0021	VLF	Concrete Fill, 2-1/2" Diameter Hole.....	8.15	
31 23 16 16-0022	VLF	Concrete Fill, 3" Diameter Hole.....	8.90	
31 23 16 16-0023	VLF	Concrete Fill, 4" Diameter Hole.....	10.06	
31 23 16 16-0024	VLF	Concrete Fill, 6" Diameter Hole.....	14.08	
31 23 16 16-0025	VLF	Concrete Fill, 8" Diameter Hole.....	18.80	
31 23 16 16-0026	VLF	Concrete Fill, 10" Diameter Hole.....	22.93	
31 23 16 16-0027	VLF	Concrete Fill, 12" Diameter Hole.....	26.63	
31 23 16 16-0028	VLF	Concrete Fill, 18" Diameter Hole.....	35.78	
31 23 16 16-0029	VLF	Concrete Fill, 24" Diameter Hole.....	43.90	
31 23 16 16-0030	VLF	Concrete Fill, 30" Diameter Hole.....	51.77	
31 23 16 16-0031	VLF	Concrete Fill, 36" Diameter Hole.....	59.86	
31 23 16 16-0032		Grout Fill (31 23 16 16-0018)		
31 23 16 16-0033	VLF	Grout Fill, Up To 2-1/2" Diameter Hole.....	7.66	
31 23 16 16-0034	VLF	Grout Fill, 2-1/2" Diameter Hole.....	9.87	
31 23 16 16-0035	VLF	Grout Fill, 3" Diameter Hole.....	10.67	
31 23 16 16-0036	VLF	Grout Fill, 4" Diameter Hole.....	11.82	
31 23 16 16-0037	VLF	Grout Fill, 6" Diameter Hole.....	16.41	
31 23 16 16-0038	VLF	Grout Fill, 8" Diameter Hole.....	21.89	
31 23 16 16-0039	VLF	Grout Fill, 10" Diameter Hole.....	26.61	
31 23 16 16-0040	VLF	Grout Fill, 12" Diameter Hole.....	30.77	
31 23 16 16-0041	VLF	Grout Fill, 18" Diameter Hole.....	40.61	
31 23 16 16-0042	VLF	Grout Fill, 24" Diameter Hole.....	49.05	
31 23 16 16-0043	VLF	Grout Fill, 30" Diameter Hole.....	57.18	
31 23 16 16-0044	VLF	Grout Fill, 36" Diameter Hole.....	65.41	
31 23 16 16-0045		Earth Fill, Compacted (31 23 16 16-0018)		
31 23 16 16-0046	VLF	Earth Fill, Up To 2-1/2" Diameter Hole.....	5.82	
31 23 16 16-0047	VLF	Earth Fill, 2-1/2" Diameter Hole.....	7.58	
31 23 16 16-0048	VLF	Earth Fill, 3" Diameter Hole.....	7.92	
31 23 16 16-0049	VLF	Earth Fill, 4" Diameter Hole.....	8.15	
31 23 16 16-0050	VLF	Earth Fill, 6" Diameter Hole.....	10.90	
31 23 16 16-0051	VLF	Earth Fill, 8" Diameter Hole.....	14.53	
31 23 16 16-0052	VLF	Earth Fill, 10" Diameter Hole.....	17.43	
31 23 16 16-0053	VLF	Earth Fill, 12" Diameter Hole.....	19.76	
31 23 16 16-0054	VLF	Earth Fill, 18" Diameter Hole.....	24.09	
31 23 16 16-0055	VLF	Earth Fill, 24" Diameter Hole.....	27.03	
31 23 16 16-0056	VLF	Earth Fill, 30" Diameter Hole.....	29.64	
31 23 16 16-0057	VLF	Earth Fill, 36" Diameter Hole.....	31.97	
31 23 16 26		Rock Removal (31 23 16)		
31 23 16 26-0001		Rock Breaking By Machine (31 23 16 26)		
		Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002	CY	Rock Breaking By Machine, Soft Sedimentary (Shale, Sandstone, Limestone) Rocks.....	29.66	
31 23 16 26-0003	CY	Rock Breaking By Machine, Medium Metamorphic (Slate) Rock.....	31.63	
31 23 16 26-0004	CY	Rock Breaking By Machine, Hard Igneous (Granite, Basalt) Rock.....	37.56	
31 23 16 33		Bulk Excavation (31 23 16)		
		Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for less than 500 CY excavation.		
31 23 16 33-0001		Excavation (31 23 16 33)		
		Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002	CY	Bulk Excavation by Dozer in Soil.....	11.70	
		For Excavation In Light Material (Class A), Deduct.....	-1.46	
		For Excavation In Heavy/Wet Material (Class C), Add.....	4.68	
		For >1,000, Deduct.....	-1.76	
31 23 16 33-0003	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil.....	6.49	
		For Excavation In Light Material (Class A), Deduct.....	-0.81	
		For Excavation In Heavy/Wet Material (Class C), Add.....	2.60	
		For >1,000, Deduct.....	-0.97	
31 23 16 33-0004	CY	Bulk Excavation by Dozer in Loose Rock.....	14.40	
		Note: Includes compacted aggregate		
		For >1,000, Deduct.....	-2.16	
31 23 16 33-0005	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock.....	7.99	
		Note: Includes compacted aggregate		
		For >1,000, Deduct.....	-1.20	



		Earthwork	31	13
		Earth Moving	31 20	
		Excavation and Fill	31 23	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0006		Spreading, Shaping And Rough Grading (31 23 16 33) Note: Imported or stockpiled material for bulk excavation.		
31 23 16 33-0007	CY	Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine..... For >1,000, Deduct	7.22 -1.08	
31 23 16 33-0008		Cutting, Shaping and Rough Grading Of Existing Elevations (31 23 16 33)		
31 23 16 33-0009	CY	Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine..... For >1,000, Deduct	8.02 -1.20	
31 23 16 33-0010		Relocating On Site Excavated Material From Excavation (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0011	CY	Relocating On Site Excavated Material From Bulk Excavation >100' to 300' For >1,000, Deduct	6.41 -0.96	
31 23 16 33-0012	CY	Relocating On Site Excavated Material From Bulk Excavation >300' to 500' For >1,000, Deduct	9.63 -1.44	
31 23 16 33-0013	CY	Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000' For >1,000, Deduct	14.44 -2.17	
31 23 16 33-0014	CY	Relocating On Site Excavated Material From Bulk Excavation >1,000' For >1,000, Deduct	19.25 -2.89	
31 23 16 33-0015		Finish Grading For Bulk Excavation (31 23 16 33)		
31 23 16 33-0016	SY	Finish Grading for Bulk Excavation by Machine.....	0.80	
31 23 16 33-0017		Compaction Of Fill Or Subbase, Per Lift (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0018	SY	Compaction of Fill or Subbase for Bulk Excavation by Machine Note: Per Lift	0.82	
31 23 16 33-0019		Loading Excess Material For Removal From Excavation (31 23 16 33) Note: For bulk excavation. Includes handwork by laborer for cleanup. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0041 for hauling.		
31 23 16 33-0020	CY	Loading Excess Material For Removal From Bulk Excavation For >1,000, Deduct	6.43 -0.96	
31 23 16 36		Excavation for Building Foundations and Other Structures (31 23 16) Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
31 23 16 36-0001		Excavation (31 23 16 36) Note: For building foundations and other structures by machine. Includes stockpiling of excess materials on ground in reach of excavated area.		
31 23 16 36-0002		Excavation For Building Foundations And Other Structures By Skid-Steer Loader (31 23 16 36-0001)		
31 23 16 36-0003	CY	Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	10.70 -1.34 4.28 10.70 8.03 4.28 1.61	
31 23 16 36-0004	CY	Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock Note: Includes compacted aggregate For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	13.28 13.28 9.96 5.31 1.99	
31 23 16 36-0005		Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader (31 23 16 36-0001)		
31 23 16 36-0006	CY	Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	7.80 -0.98 3.12 7.80 5.85 3.12 1.17	
31 23 16 36-0007	CY	Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock Note: Includes compacted aggregate For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	9.28 9.28 6.96 3.71 1.39	

31 Earthwork**31 20 Earth Moving****31 23 Excavation and Fill**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0008		Excavation For Building Foundations And Other Structures By Hand (31 23 16 36-0001)			
		Note: For areas not accessible by machine and only with owner's approval.			
31 23 16 36-0009	CY	Excavation For Building Foundations And Other Structures By Hand in Soil.....		156.92	
		For Excavation In Light Material (Class A), Deduct.....		-19.62	
		For Excavation In Heavy/Wet Material (Class C), Add.....		62.77	
31 23 16 36-0010	CY	Excavation For Building Foundations And Other Structures By Hand in Loose Rock.....		269.18	
		Note: Includes compacted aggregate			
31 23 16 36-0011		Relocating On Site Excavated Stockpiled Material From Excavation (31 23 16 36)			
		Note: For building foundations and other structures.			
31 23 16 36-0012	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >100' to 300'.....		6.41	
		For Up To 20, Add.....		6.41	
		For >20 To 50, Add.....		4.81	
		For >50 To 250, Add.....		2.56	
		For >250 To 500, Add.....		0.96	
31 23 16 36-0013	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >300' to 500'.....		9.63	
		For Up To 20, Add.....		9.63	
		For >20 To 50, Add.....		7.22	
		For >50 To 250, Add.....		3.85	
		For >250 To 500, Add.....		1.44	
31 23 16 36-0014	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >500' to 1,000'.....		14.44	
		For Up To 20, Add.....		14.44	
		For >20 To 50, Add.....		10.83	
		For >50 To 250, Add.....		5.78	
		For >250 To 500, Add.....		2.17	
31 23 16 36-0015	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >1,000'.....		19.25	
		For Up To 20, Add.....		19.25	
		For >20 To 50, Add.....		14.44	
		For >50 To 250, Add.....		7.70	
		For >250 To 500, Add.....		2.89	
31 23 16 36-0016		Backfilling (31 23 16 36)			
		Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading each backfill lift.			
31 23 16 36-0017	CY	Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader.....		5.27	
		For Up To 20, Add.....		5.27	
		For >20 To 50, Add.....		3.95	
		For >50 To 250, Add.....		2.11	
		For >250 To 500, Add.....		0.79	
31 23 16 36-0018	CY	Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader.....		6.04	
		For Up To 20, Add.....		6.04	
		For >20 To 50, Add.....		4.53	
		For >50 To 250, Add.....		2.42	
		For >250 To 500, Add.....		0.91	
31 23 16 36-0019	CY	Backfilling Around Building Foundations And Other Structures By Hand.....		74.73	
31 23 16 36-0020		Compaction Of Fill Or Subbase (31 23 16 36)			
		Note: For building foundations and other structures.			
31 23 16 36-0021	CY	Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, etc.....		14.37	
		For Up To 20, Add.....		14.37	
		For >20 To 50, Add.....		10.78	
		For >50 To 250, Add.....		5.75	
		For >250 To 500, Add.....		2.16	
31 23 16 36-0022	CY	Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand.....		49.17	
31 23 16 36-0023		Grading For Building Foundations And Other Structures (31 23 16 36)			
31 23 16 36-0024	SY	Rough Grading For Building Foundations And Other Structures by Machine.....		1.38	
31 23 16 36-0025	SY	Finish Grading For Building Foundations And Other Structures by Machine.....		2.23	
31 23 16 36-0026	SY	Finish Grading For Building Foundations And Other Structures by Hand.....		14.53	
31 23 16 36-0027		Loading Excess Material For Removal From Excavation (31 23 16 36)			
		Note: For building foundations and other structures. Includes handwork by laborer for cleanup. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0041 for hauling.			
31 23 16 36-0028	CY	Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine.....		6.70	
		For Up To 20, Add.....		6.70	
		For >20 To 50, Add.....		5.03	
		For >50 To 250, Add.....		2.68	
		For >250 To 500, Add.....		1.01	
31 23 16 36-0029	CY	Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand.....		115.07	



		Earthwork	31
		Earth Moving	31 20
		Excavation and Fill	31 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0030 Spread Excess Or Imported Material And Grade On Site (31 23 16 36) Note: For building foundations and other structures.		
31 23 16 36-0031 CY Spread Excess Or Imported Material And Rough Grade On Site By Machine For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	3.74 3.74 2.81 1.50 0.56	
31 23 16 36-0032 CY Spread Excess Or Imported Material And Rough Grade On Site By Hand	63.50	
31 23 16 46 Excavation Operations to Expose Underground Pipes and Structures (31 23 16) Note: Includes work above, beside and under pipe. Pipes up to 82" in diameter. Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine. See CSI section 31 23 16 13-0017 for loading excess material, 31 23 16 13-0020 for spreading excess material.		
31 23 16 46-0001 Excavation To Expose Underground Pipe Or Structures (31 23 16 46) Note: Includes stockpiling excess materials and trimming sides and bottom of trench. Excludes rock breaking.		
31 23 16 46-0002 Excavation By Machine To Expose Underground Pipe Or Structure (31 23 16 46-0001)		
31 23 16 46-0003 CY Excavation By Hydraulic Excavator, Backhoe, Loader in Soil/Common Excavation To Expose Underground Pipes And Structures.....	15.59	
31 23 16 46-0004 CY Excavation By Hydraulic Excavator, Backhoe, Loader in Loose Rock To Expose Underground Pipes And Structures.....	18.52	
31 23 16 46-0005 Excavation By Hand To Expose Underground Pipe Or Structure (31 23 16 46-0001)		
31 23 16 46-0006 CY Excavation By Hand In Soil To Expose Underground Pipes And Structures.....	196.15	
31 23 16 46-0007 CY Excavation By Hand In Loose Rock To Expose Underground Pipes And Structures.....	292.92	
31 23 16 46-0008 Backfilling Or Placing Subbase At Exposed Underground Pipe Or Structures (31 23 16 46) Note: With imported or stockpiled materials		
31 23 16 46-0009 CY Backfilling By Hydraulic Excavator, Backhoe, Loader At Exposed Underground Pipes And Structures.....	11.69	
31 23 16 46-0010 CY Backfilling by Hand At Exposed Underground Pipes And Structures.....	88.92	
31 23 16 46-0011 Compaction Of Fill Or Subbase At Exposed Underground Pipe Or Structures (31 23 16 46) Note: With imported or stockpiled materials		
31 23 16 46-0012 CY Compaction of Fill or Subbase by Mechanical Means At Exposed Underground Pipe Or Structures.....	18.10	
31 23 16 46-0013 CY Compaction of Fill or Subbase by Hand At Exposed Underground Pipe Or Structures.....	59.01	
31 23 16 46-0014 Loading Excess Material For Removal From Excavation At Exposed Underground Pipe Or Structures (31 23 16 46) Note: Includes hand work by laborer for cleanup. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0041 for hauling.		
31 23 16 46-0015 CY Load Excess Material by Machine for Removal from Excavation At Exposed Underground Pipe Or Structures..... For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add For >1,000, Deduct	7.96 7.96 5.97 3.18 1.19 -1.19	
31 23 16 46-0016 CY Load Excess Material by Hand for Removal from Excavation At Exposed Underground Pipe Or Structures.....	115.07	
31 23 16 46-0017 Spread Excess Or Imported Material And Grade At Exposed Underground Pipe Or Structures (31 23 16 46) Note: Includes hand work by laborer for cleanup.		
31 23 16 46-0018 CY Spread Excess Or Imported Material And Grade On Site By Machine At Exposed Underground Pipe Or Structures..... For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add For >1,000, Deduct	3.74 3.74 2.81 1.50 0.56 -0.56	
31 23 16 46-0019 CY Spread Excess Or Imported Material And Grade On Site By Hand At Exposed Underground Pipe Or Structures	63.50	
31 23 19 Dewatering (31 23)		
31 23 19 00-0001 Well Point Dewatering System (31 23 19)		
31 23 19 00-0002 Delivery, Installation And Removal Cost (31 23 19 00-0001) Note: Priced by linear foot of header used.		
31 23 19 00-0003 LF Up To 100' In Length Well Point System Delivery, Installation And Removal.....	154.28	
31 23 19 00-0004 LF >100' To 250' In Length Well Point System Delivery, Installation And Removal.....	84.85	
31 23 19 00-0005 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal.....	77.14	
31 23 19 00-0006 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal.....	69.43	

31	Earthwork
31 20	Earth Moving
31 23	Excavation and Fill



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 19 00-0007	LF	>500' To 1,000' In Length Well Point System Delivery, Installation And Removal	61.71	
31 23 19 00-0008	LF	>1,000' In Length Well Point System Delivery, Installation And Removal	54.00	
31 23 19 00-0009		Well Point Dewatering System Rental (31 23 19 00-0001)		
		Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200' of header for four days - quantity should be 200'x4 or 800'). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.		
31 23 19 00-0010	LFD	Up To 100' In Length Well Point System Rental (LF x Days = Quantity)	2.29	
		For >5 Days And <1 Month, Deduct	-0.50	
		For >1 Month, Deduct	-0.64	
31 23 19 00-0011	LFD	>100' To 250' In Length Well Point System Rental (LF x Days = Quantity)	1.34	
		For >5 Days And <1 Month, Deduct	-0.29	
		For >1 Month, Deduct	-0.38	
31 23 19 00-0012	LFD	>250' To 500' In Length Well Point System Rental (LF x Days = Quantity)	0.96	
		For >5 Days And <1 Month, Deduct	-0.21	
		For >1 Month, Deduct	-0.27	
31 23 19 00-0013	LFD	>500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.70	
		For >5 Days And <1 Month, Deduct	-0.15	
		For >1 Month, Deduct	-0.20	
31 23 19 00-0014	LFD	>1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.64	
		For >5 Days And <1 Month, Deduct	-0.14	
		For >1 Month, Deduct	-0.18	
31 23 19 00-0015		Well Point Dewatering System Operation Costs (31 23 19 00-0001)		
		Note: The quantity for operation shall be the total number of hours the well point system is operational.		
31 23 19 00-0016	HR	Operation Costs	122.13	
31 23 23		Fill (31 23)		
31 23 23 23		Compaction (31 23 23)		
31 23 23 23-0001		Compaction Water, Water Truck And Operator (31 23 23 23)		
31 23 23 23-0002	MGL	Compaction Water, Water Truck And Operator	306.86	
		Note: Use this task in situations where earth fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per each 1,000 gallons of water)		
31 23 23 33		Flowable Fill (31 23 23)		
31 23 23 33-0001		Flowable Fill (Fly Ash) Cement Backfill For Trenches (31 23 23 33)		
		Note: Includes compaction and restoration of final grade.		
31 23 23 33-0002	CY	Flowable Fill (Fly Ash) Cement Backfill for Trenches	150.67	
		For Up To 20, Add	62.84	
		For >20 To 50, Add	40.72	
		For >50 To 250, Add	20.36	
		For >500 To 1,000, Deduct	-11.06	
		For >1,000, Deduct	-22.12	
31 23 23 43		Geofoam (31 23 23)		
31 23 23 43-0001		Expanded Polystyrene (EPS) Geofoam Earthwork Void Fill (31 23 23 43)		
		Note: Excludes earthwork or backfill.		
31 23 23 43-0002	CY	1.15 To 1.25 Lb./CF Density, Expanded Polystyrene (EPS19) Geofoam Earthwork Void Fill	165.55	
		Note: 3' x 4' x 8' length geofoam blocks		
		For Cutting To Shape, Add	10.22	
31 23 23 43-0003	CY	1.35 To 1.50 Lb./CF Density, Expanded Polystyrene (EPS22) Geofoam Earthwork Void Fill	188.16	
		Note: 3' x 4' x 8' length geofoam blocks		
		For Cutting To Shape, Add	12.26	
31 23 23 43-0004	CY	1.80 To 2.00 Lb./CF Density, Expanded Polystyrene (EPS29) Geofoam Earthwork Void Fill	261.91	
		Note: 3' x 4' x 8' length geofoam blocks		
		For Cutting To Shape, Add	16.34	
31 23 23 43-0005	CY	2.40 To 2.50 Lb./CF Density, Expanded Polystyrene (EPS39) Geofoam Earthwork Void Fill	316.95	
		Note: 3' x 4' x 8' length geofoam blocks		
		For Cutting To Shape, Add	20.43	
31 23 23 43-0006	CY	2.75 To 2.85 Lb./CF Density, Expanded Polystyrene (EPS46) Geofoam Earthwork Void Fill	368.41	
		Note: 3' x 4' x 8' length geofoam blocks		
		For Cutting To Shape, Add	23.29	
31 24		Embankments (31 20)		
31 24 13		Roadway Embankments (31 24)		
31 24 13 00-0001		Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations (31 24 13)		
		Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY.		



		Earthwork	31	15
		Earth Moving	31 20	
		Embankments	31 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0002 Cutting, Shaping And Rough Grading (31 24 13 00-0001) Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.		
31 24 13 00-0003 Cutting, Shaping, And Rough Grading (31 24 13 00-0002)		
31 24 13 00-0004 CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil	8.02	
For Up To 20, Add	8.02	
For >20 To 50, Add	6.02	
For >50 To 250, Add	3.21	
For >250 To 500, Add	1.20	
For >1,000, Deduct	-1.20	
31 24 13 00-0005 CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock..... Note: Includes compacted aggregate	9.95	
For Up To 20, Add	9.95	
For >20 To 50, Add	7.46	
For >50 To 250, Add	3.98	
For >250 To 500, Add	1.49	
For >1,000, Deduct	-1.49	
31 24 13 00-0006 Cutting, Shaping, And Rough Grading By Hand (31 24 13 00-0002)		
31 24 13 00-0007 SY Shape Embankment/Slope By Hand Up To 1 On 4 Slope	8.04	
31 24 13 00-0008 SY Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope	10.46	
31 24 13 00-0009 Scarify Soil (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0010 CSF Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine	7.43	
For Up To 20, Add	3.72	
For >20 To 50, Add	1.86	
For >250 To 500, Deduct	-0.74	
For >500, Deduct	-1.49	
31 24 13 00-0011 Relocating On Site Excavated Material (31 24 13 00-0001)		
31 24 13 00-0012 CY >500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	14.44	
For Up To 20, Add	14.44	
For >20 To 50, Add	10.83	
For >50 To 250, Add	5.78	
For >250 To 500, Add	2.17	
For >1,000, Deduct	-2.17	
31 24 13 00-0013 CY >1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine.....	19.25	
For Up To 20, Add	19.25	
For >20 To 50, Add	14.44	
For >50 To 250, Add	7.70	
For >250 To 500, Add	2.89	
For >1,000, Deduct	-2.89	
31 24 13 00-0014 Spread And Shape Imported Or Stockpiled Material (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.		
31 24 13 00-0015 CY Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine	8.82	
For Up To 20, Add	8.82	
For >20 To 50, Add	6.62	
For >50 To 250, Add	3.53	
For >250 To 500, Add	1.32	
For >1,000, Deduct	-1.32	
31 24 13 00-0016 Grading (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0017 SY Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine.....	0.90	
31 24 13 00-0018 SY Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine.....	1.21	
31 24 13 00-0019 LF Finish Grade For Curb	1.36	
31 24 13 00-0020 LF Finish Grade For Curb And Gutter.....	1.65	
31 24 13 00-0021 Compaction Of Fill Or Subbase (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments by machine, per lift.		
31 24 13 00-0022 SY Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.82	
For Up To 250, Add	0.82	
For >250 To 500, Add	0.62	
For >500 To 1,000, Add	0.33	
For >5,000, Deduct	-0.12	

31	Earthwork
31 20	Earth Moving
31 24	Embankments



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0023		Loading Excess Material For Removal From Excavation (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments by machine. Includes handwork by laborer for cleanup.		
31 24 13 00-0024	CY	Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine	6.43	
		For Up To 20, Add	6.43	
		For >20 To 50, Add	4.82	
		For >50 To 250, Add	2.57	
		For >250 To 500, Add	0.96	
		For >1,000, Deduct	-0.96	
31 25		Erosion and Sedimentation Controls (31 20)		
31 25 14		Stabilization Measures for Erosion and Sedimentation Control (31 25)		
31 25 14 13		Hydraulically-Applied Erosion Control (31 25 14)		
31 25 14 13-0001		Bonded Fiber Matrix (31 25 14 13)		
31 25 14 13-0002	MSF	Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied	67.80	
31 25 14 13-0003	MSF	>25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied	62.16	
31 25 14 13-0004	MSF	>50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied	57.39	
31 25 14 13-0005	MSF	>100,000 Bonded Fiber Matrix, Hydraulically Applied	54.65	
31 25 14 16		Rolled Erosion Control Mats and Blankets (31 25 14)		
		Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.		
31 25 14 16-0001		Erosion Control Blankets And Turf Reinforcement Mats (31 25 14 16)		
31 25 14 16-0002		Erosion Control Blankets, Short Term, Light Duty (31 25 14 16-0001)		
31 25 14 16-0003	SY	S75 Single Net Erosion Control Blanket	3.44	
		Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0004	SY	S75BN Single Net Erosion Control Blanket	4.42	
		Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.		
31 25 14 16-0005	SY	Curlex 1, Single Net Erosion Control Blanket	3.27	
		Note: As manufactured by American Excelsior		
31 25 14 16-0006	SY	Curlex 1, Single Net Erosion Control Blanket	3.44	
		Note: As manufactured by American Green.		
31 25 14 16-0007	SY	Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting	3.06	
31 25 14 16-0008		Erosion Control Blankets, Intermediate Duration (31 25 14 16-0001)		
31 25 14 16-0009	SY	S150 Double Net Erosion Control Blanket	4.43	
		Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0010	SY	S150 BN Double Net Erosion Control Blanket	5.96	
		Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.		
31 25 14 16-0011	SY	Curlex II, Double Net Erosion Control Blanket, Natural	3.71	
		Note: As manufactured by American Excelsior.		
31 25 14 16-0012	SY	Curlex II, Double Net Erosion Control Blanket, Green	3.88	
		Note: As manufactured by American Excelsior.		
31 25 14 16-0013	SY	Enforcer Double Net Erosion Control Blanket	4.14	
		Note: As manufactured by American Excelsior.		
31 25 14 16-0014		Turf Reinforcement Mats (TRM) (31 25 14 16-0001)		
		Note: Permanent, UV stabilized.		
31 25 14 16-0015	SY	P300 Permanent Polypropylene Turf Reinforcement Mat	15.83	
		Note: 100% synthetic, UV stabilized, two layer netting.		
31 25 14 16-0016	SY	C350 Permanent Turf Reinforcement Mat	14.59	
		Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.		
31 25 14 16-0017	SY	Recyclex TRM, Permanent Turf Reinforcement Mat	18.24	
		Note: As manufactured by American Excelsior, 100% recycled		
31 25 14 16-0018		Jute Mesh Erosion Control Blankets (31 25 14 16-0001)		
31 25 14 16-0019	SY	Jute Mesh, Open Uniform Weave	4.96	
31 25 14 16-0020		Revegetation Mat (31 25 14 16-0001)		
31 25 14 16-0021	SY	3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber	12.11	
		Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.		
31 25 14 16-0022	SY	Webbed Revegetation Mat, Polypropylene Fiber	17.31	
		Note: Polypropylene fibers positioned between two high strength biaxial oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.		
31 25 14 23		Stabilization Measures for Erosion Control (31 25 14)		
		See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.		



		Earthwork	31	15
		Earth Moving	31 20	
		Erosion and Sedimentation Controls	31 25	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
31 25 14 23-0001	Sand Bags (31 25 14 23) Note: Bags filled on site with delivered material. Includes material and placement of bags.			
31 25 14 23-0002	BAG 50 Lb. Capacity Sand Bag With Sand.....	7.68		3.31
	For >2,500 To 5,000, Deduct	-0.66		
	For >5,000, Deduct	-1.43		
31 25 14 23-0003	BAG 75 Lb. Capacity Sand Bag With Sand.....	9.85		4.11
	For >2,500 To 5,000, Deduct	-0.82		
	For >5,000, Deduct	-1.81		
31 25 14 23-0004	BAG 100 Lb. Capacity Sand Bag With Sand.....	12.37		4.91
	For >2,500 To 5,000, Deduct	-0.98		
	For >5,000, Deduct	-2.22		
31 25 14 23-0005	BAG 125 Lb. Capacity Sand Bag With Sand.....	15.24		6.14
	For >2,500 To 5,000, Deduct	-1.23		
	For >5,000, Deduct	-2.75		
31 25 14 23-0006	BAG 150 Lb. Capacity Sand Bag With Sand.....	18.54		7.36
	For >2,500 To 5,000, Deduct	-1.47		
	For >5,000, Deduct	-3.33		
31 25 14 23-0007	BAG 175 Lb. Capacity Sand Bag With Sand.....	21.59		8.37
	For >2,500 To 5,000, Deduct	-1.67		
	For >5,000, Deduct	-3.83		
31 25 14 23-0008	BAG 2,000 Lb. Capacity Sand Bag With Sand.....	164.10		56.65
	For >2,500 To 5,000, Deduct	-10.10		
	For >5,000, Deduct	-26.51		
31 25 14 23-0009	BAG 3,000 Lb. Capacity Sand Bag With Sand.....	210.09		62.31
	For >2,500 To 5,000, Deduct	-11.11		
	For >5,000, Deduct	-32.12		
31 25 14 23-0010	Gravel Bags (31 25 14 23) Note: Bags filled on site with delivered material. Includes material and placement of bags.			
31 25 14 23-0011	BAG 30 Lb. Capacity Gravel Bag With Gravel.....	7.01		2.20
	For >2,500 To 5,000, Deduct	-0.44		
	For >5,000, Deduct	-1.14		
31 25 14 23-0012	BAG 50 Lb. Capacity Gravel Bag With Gravel.....	12.56		3.31
	For >2,500 To 5,000, Deduct	-0.66		
	For >5,000, Deduct	-1.92		
31 25 14 23-0013	Floating Turbidity Curtain (31 25 14 23) Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6" x 6", 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft. buoyancy in saltwater.			
31 25 14 23-0014	LF 3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	29.70		
	For Type 1, Deduct	-4.55		
	For 13 Oz PVC Fabric, Type 2, Deduct	-2.77		
	For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	3.36		
31 25 14 23-0015	LF 4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	32.18		
	For Type 1, Deduct	-5.00		
	For 13 Oz PVC Fabric, Type 2, Deduct	-3.05		
	For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	3.70		
31 25 14 23-0016	LF 5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	35.60		
	For Type 1, Deduct	-5.67		
	For 13 Oz PVC Fabric, Type 2, Deduct	-3.45		
	For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	4.19		
31 25 14 23-0017	LF 6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	38.50		
	For Type 1, Deduct	-6.21		
	For 13 Oz PVC Fabric, Type 2, Deduct	-3.78		
	For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	4.59		
31 25 14 23-0018	LF 7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	40.41		
	For Type 1, Deduct	-6.52		
	For 13 Oz PVC Fabric, Type 2, Deduct	-3.97		
	For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	4.82		
31 25 14 23-0019	LF 8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	42.32		
	For Type 1, Deduct	-6.82		
	For 13 Oz PVC Fabric, Type 2, Deduct	-4.15		
	For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	5.04		
31 25 14 23-0020	LF 9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	44.55		
	For Type 1, Deduct	-7.19		
	For 13 Oz PVC Fabric, Type 2, Deduct	-4.37		
	For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	5.31		
31 25 14 23-0021	LF 10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	47.57		
	For Type 1, Deduct	-7.73		
	For 13 Oz PVC Fabric, Type 2, Deduct	-4.71		
	For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	5.71		
31 25 14 23-0022	LF 12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	49.99		
	For Type 1, Deduct	-8.13		
	For 13 Oz PVC Fabric, Type 2, Deduct	-4.95		
	For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	6.01		
31 25 14 23-0023	LF 13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	53.22		
	For Type 1, Deduct	-8.70		
	For 13 Oz PVC Fabric, Type 2, Deduct	-5.30		
	For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	6.43		
31 25 14 23-0024	LF 14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	56.24		
	For Type 1, Deduct	-9.22		
	For 13 Oz PVC Fabric, Type 2, Deduct	-5.61		
	For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	6.81		

31 Earthwork**31 20 Earth Moving****31 25 Erosion and Sedimentation Controls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0025	LF	15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	59.16	
		<i>For Type 1, Deduct</i>	-9.70	
		<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-5.91	
		<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	7.17	
31 25 14 23-0026	LF	16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	64.36	
		<i>For Type 1, Deduct</i>	-10.70	
		<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-6.51	
		<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	7.91	
31 25 14 23-0027	LF	17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	67.48	
		<i>For Type 1, Deduct</i>	-11.22	
		<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-6.83	
		<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	8.29	
31 25 14 23-0028	LF	18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	70.54	
		<i>For Type 1, Deduct</i>	-11.70	
		<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-7.12	
		<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	8.65	
31 25 14 23-0029	LF	19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	73.76	
		<i>For Type 1, Deduct</i>	-12.22	
		<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-7.44	
		<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	9.03	
31 25 14 23-0030	LF	20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	76.90	
		<i>For Type 1, Deduct</i>	-12.70	
		<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-7.73	
		<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	9.39	
31 25 14 23-0031		Turbidity Curtain Anchors (31 25 14 23)		
31 25 14 23-0032	EA	14 Lb., Turbidity Curtain Anchor System	791.15	
		Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0033	EA	25 Lb., Turbidity Curtain Anchor System	1,083.81	
		Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0034	EA	40 Lb., Turbidity Curtain Anchor System	1,377.71	
		Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0035	EA	65 Lb., Turbidity Curtain Anchor System	1,800.99	
		Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0036		Filter Bags (31 25 14 23)		
31 25 14 23-0037		Non-Woven Filter Bags (31 25 14 23-0036)		
31 25 14 23-0038	EA	6' x 15' Non-Woven Filter Bag	266.47	
31 25 14 23-0039	EA	13' x 15' Non-Woven Filter Bag	385.32	
31 25 14 23-0040	EA	15' x 15' Non-Woven Filter Bag	443.31	
31 25 14 23-0041		Monofilament Filter Bags (31 25 14 23-0036)		
31 25 14 23-0042	EA	5' x 15' Monofilament Filter Bag	276.96	
31 25 14 23-0043	EA	10' x 15' Monofilament Filter Bag.....	383.15	
31 25 14 23-0044		Cable Articulating Concrete Block (31 25 14 23)		
		Note: 4000 PSI Compressive strength, 12 Lbs./CF maximum absorption. Interlocking block with longitudinal revetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 25 14 23-0045	SF	4.75" Open Cell Articulated Concrete Block With Earth Backfill.....	41.89	
		<i>For Up To 500, Add</i>	9.71	
		<i>For >500 To 1,000, Add</i>	5.52	
31 25 14 23-0046	SF	6" Open Cell Articulated Concrete Block With Earth Backfill	47.35	
		<i>For Up To 500, Add</i>	10.92	
		<i>For >500 To 1,000, Add</i>	6.19	
31 25 14 23-0047	SF	7.5" Open Cell Articulated Concrete Block With Earth Backfill.....	53.66	
		<i>For Up To 500, Add</i>	12.33	
		<i>For >500 To 1,000, Add</i>	6.97	
31 25 14 23-0048	SF	9" Open Cell Articulated Concrete Block With Earth Backfill	60.30	
		<i>For Up To 500, Add</i>	13.84	
		<i>For >500 To 1,000, Add</i>	7.81	
31 25 14 23-0049	SF	4.75" Closed Cell Articulated Concrete Block	44.18	
		<i>For Up To 500, Add</i>	10.17	
		<i>For >500 To 1,000, Add</i>	5.75	
31 25 14 23-0050	SF	6" Closed Cell Articulated Concrete Block	50.09	
		<i>For Up To 500, Add</i>	11.47	
		<i>For >500 To 1,000, Add</i>	6.46	
31 25 14 23-0051	SF	7.5" Closed Cell Articulated Concrete Block	56.91	
		<i>For Up To 500, Add</i>	12.98	
		<i>For >500 To 1,000, Add</i>	7.29	
31 25 14 23-0052	SF	9" Closed Cell Articulated Concrete Block	64.02	
		<i>For Up To 500, Add</i>	14.58	
		<i>For >500 To 1,000, Add</i>	8.18	
31 25 14 26		Stabilization Measures for Sedimentation Control (31 25 14)		
31 25 14 26-0001		Silt Fences And Dike Barriers (31 25 14 26)		
		Note: Includes stakes and embedding.		



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		Erosion and Sedimentation Controls	31 25

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 26-0002		Silt Fences 2' High (31 25 14 26-0001) See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0003	LF	2' High Silt Fence with Stakes at 4' On Center	5.59	
31 25 14 26-0004	LF	2' High Silt Fence with Stakes at 6' On Center	4.30	
31 25 14 26-0005	LF	2' High Silt Fence with Stakes at 8' On Center	3.01	
31 25 14 26-0006	LF	2' High Silt Fence with Stakes at 10' On Center	2.54	
31 25 14 26-0007		Silt Fences 3' High (31 25 14 26-0001) See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0008	LF	3' High Silt Fence with Stakes at 4' On Center	6.64	
31 25 14 26-0009	LF	3' High Silt Fence with Stakes at 6' On Center	5.12	
31 25 14 26-0010	LF	3' High Silt Fence with Stakes at 8' On Center	3.55	
31 25 14 26-0011	LF	3' High Silt Fence with Stakes at 10' On Center	2.88	
31 25 14 26-0012		Silt Dike Barrier (31 25 14 26-0001)		
31 25 14 26-0013	LF	Silt Dike Barrier With Stakes.....	4.21	
31 25 14 26-0014		Silt Fences Removal (31 25 14 26-0001)		
31 25 14 26-0015	LF	Removal Of Silt Fence And Stakes.....	1.04	
31 25 14 26-0016		Hay And Straw Bales (31 25 14 26) Note: Includes trench for placement, and stakes.		
31 25 14 26-0017	LF	Place Sterilized Straw Bales.....	5.59	
31 25 14 26-0018	LF	Place Hay Bales	5.22	
31 25 14 26-0019	LF	Removal Of Hay Or Straw Bales	1.87	
31 25 14 26-0020		Sediment Logs (Degradable) (31 25 14 26)		
31 25 14 26-0021		Sediment Logs (Degradable) (31 25 14 26-0020) Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0022	LF	9" Sediment Fiber Roll Log.....	6.55	
31 25 14 26-0023	LF	12" Sediment Fiber Roll Log.....	7.49	
31 25 14 26-0024	LF	20" Sediment Fiber Roll Log.....	11.19	
31 25 14 26-0025		Wattles (Degradable) With UV Stabilized Synthetic Netting (31 25 14 26-0020) Note: Includes trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0026	EA	Wattles (Sterile Straw Filled Rolls), 8" x 25'.....	131.84	
31 25 14 26-0027	EA	Wattles (Sterile Straw Filled Rolls), 9" x 25'.....	136.89	
31 25 14 26-0028	EA	Wattles (Sterile Straw Filled Rolls), 12" x 20'.....	141.14	
31 25 14 26-0029	EA	Wattles (Sterile Straw Filled Rolls), 20" x 10'.....	141.04	
31 25 14 26-0030		Fiber Roll (CALTRANS Type 1) (31 25 14 26) Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0031	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	7.18	
		For >1,000 To 10,000, Deduct	-0.90	
		For >10,000, Deduct	-1.52	
31 25 14 26-0032	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	7.43	
		For >1,000 To 10,000, Deduct	-0.92	
		For >10,000, Deduct	-1.54	
31 25 14 26-0033	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	9.48	
		For >1,000 To 10,000, Deduct	-1.09	
		For >10,000, Deduct	-1.84	
31 25 14 26-0034		Fiber Roll (CALTRANS Type 2) (31 25 14 26) Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0035	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	5.60	
		For >1,000 To 10,000, Deduct	-0.67	
		For >10,000, Deduct	-1.12	
31 25 14 26-0036	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	6.06	
		For >1,000 To 10,000, Deduct	-0.71	
		For >10,000, Deduct	-1.20	
31 25 14 26-0037	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	7.38	
		For >1,000 To 10,000, Deduct	-0.78	
		For >10,000, Deduct	-1.32	
31 25 14 26-0038		Inlet Protection Sediment Bags (31 25 14 26) Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0039	EA	2' x 2' x 3' Inlet Protection Sediment Bag.....	72.60	
31 25 14 26-0040	EA	2' x 3' x 3' Inlet Protection Sediment Bag.....	84.18	
31 25 14 26-0041	EA	2' x 4' x 3' Inlet Protection Sediment Bag.....	92.38	

31	Earthwork
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MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 25 14 26-0042	Clean Sediment Logs/Wattles (31 25 14 26)	
	Note: Includes removal, cleaning, and replacement per each location.	
31 25 14 26-0043	EA Clean Sediment Logs/Wattles.....	104.62

31 30 Earthwork Methods (31)

31 31 Soil Treatment (31 30)

31 31 16 Termite Control (31 31)

31 31 16 13 Chemical Termite Control (31 31 16)

31 31 16 13-0001 Commercial Use (31 31 16 13)

31 31 16 13-0002	SF Termite Pretreatment, Commercial Soil Poisoning Under Slab	0.90
31 31 16 13-0003	SF Termite Pretreatment, Commercial Slab And Walls.....	1.27

31 31 16 13-0004 Residential Use (31 31 16 13)

31 31 16 13-0005	SF Termite Pretreatment, Residential General Spraying Walls And Slab	1.29
31 31 16 13-0006	SF Termite Treatment, Existing Residential Structure.....	1.40

31 31 19 Vegetation Control (31 31)

31 31 19 13 Chemical Vegetation Control (31 31 19)

31 31 19 13-0001 Soil Sterilants (31 31 19 13)

31 31 19 13-0002	MSF Soil Sterilant.....	35.34
	Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.	
	For >45 To 90, Deduct	-0.54
	For >90 To 225, Deduct	-2.85
	For >225, Deduct	-3.93

31 32 Soil Stabilization (31 30)

31 32 13 Soil Mixing Stabilization (31 32)

31 32 13 16 Cement Soil Stabilization (31 32 13)

31 32 13 16-0001 Cementitious Soil Binder (31 32 13 16)

31 32 13 16-0002	CY Cementitious Soil Binder, 4% Cement Mix By Volume	40.66
31 32 13 16-0003	CY Cementitious Soil Binder, 6% Cement Mix By Volume	45.71
31 32 13 16-0004	CY Cementitious Soil Binder, 9% Cement Mix By Volume	54.02
31 32 13 16-0005	CY Cementitious Soil Binder, 12% Cement Mix By Volume	62.20

31 32 13 19 Lime Soil Stabilization (31 32 13)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.

31 32 13 19-0001 Lime Slurry (31 32 13 19)

31 32 13 19-0002	LCY Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume.....	38.57
31 32 13 19-0003	TON Cement Stabilized Base Material.....	111.81
31 32 13 19-0004	CWT Lime For Soil Stabilization	17.52
	Note: Excludes the cost for spreading or backfilling	
31 32 13 19-0005	LCY Roller, Grader - Lime Stabilization	19.20
31 32 13 19-0006	LCY Roller, Grader - Cement Stabilization	4.58

31 32 13 19-0007 Lime Stabilized Subgrade (31 32 13 19)

Note: Based on soil weight of 110 Lbs./CF using lime weight of 5.5 Lbs./CF (5%).

31 32 13 19-0008	SY 6" Thick Lime Stabilized Subgrade, 25 Lb.	12.07
	For 4% Lime Instead Of 5%, Deduct	-0.31
	For 6% Lime Instead Of 5%, Add	0.31
31 32 13 19-0009	SY 7" Thick Lime Stabilized Subgrade, 29 Lb.	14.01
	For 4% Lime Instead Of 5%, Deduct	-0.36
	For 6% Lime Instead Of 5%, Add	0.36
31 32 13 19-0010	SY 8" Thick Lime Stabilized Subgrade, 33 Lb.	15.98
	For 4% Lime Instead Of 5%, Deduct	-0.41
	For 6% Lime Instead Of 5%, Add	0.41

31 32 13 29 Liquid Soil Stabilization (31 32 13)

31 32 13 29-0001	GAL Polyacrylamide And Calcium Solution	2.49
31 32 13 29-0002	GAL Synthetic, Liquid Dust Suppression Fluid With GTL Technology (Soil Works Durasoil)	10.98
	Note: GTL (Gas-to-Liquid)	
31 32 13 29-0003	GAL Biodegradable, Liquid Copolymer Dust Suppression Fluid (Soil Works Gorilla-Snot)	5.27



	Earthwork	31	
	Earthwork Methods	31 30	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 16 Chemical Treatment Soil Stabilization (31 32)

31 32 16 13 Polymer Emulsion Soil Stabilization (31 32 16)

31 32 16 13-0001 Blended Co-Polymer Paving Systems (TechniSoil) (31 32 16 13)

31 32 16 13-0002	SF	3" Thick, Blended Co-Polymer Paving System Premixed With Decomposed Granite (TechniSoil)	9.47
31 32 16 13-0003	SF	Blended Co-Polymer Topical Spray (TechniSoil)	3.33

31 32 19 Geosynthetic Soil Stabilization and Layer Separation (31 32)

31 32 19 13 Geogrid Soil Stabilization (31 32 19)

31 32 19 13-0001 Geogrid Fabrics (31 32 19 13)

Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications. Includes stakes.

31 32 19 13-0002	SY	5.3 Ounce/SY, 1,700 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150)	5.48
		For Up To 50, Add	1.23
		For >50 To 150, Add	0.91
		For >150 To 250, Add	0.59
		For >250 To 500, Add	0.30
31 32 19 13-0003	SY	6.9 Ounce/SY, 3,100 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300)	6.25
		For Up To 50, Add	1.39
		For >50 To 150, Add	1.03
		For >150 To 250, Add	0.67
		For >250 To 500, Add	0.34
31 32 19 13-0004	SY	8.7 Ounce/SY, 4,280 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500)	6.82
		For Up To 50, Add	1.51
		For >50 To 150, Add	1.12
		For >150 To 250, Add	0.73
		For >250 To 500, Add	0.36
31 32 19 13-0005	SY	12.6 Ounce/SY, 7,315 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800)	9.80
		For Up To 50, Add	2.11
		For >50 To 150, Add	1.57
		For >150 To 250, Add	1.03
		For >250 To 500, Add	0.51
31 32 19 13-0006	SY	14.1 Ounce/SY, 9,790 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000)	11.21
		For Up To 50, Add	2.40
		For >50 To 150, Add	1.78
		For >150 To 250, Add	1.17
		For >250 To 500, Add	0.59
31 32 19 13-0007	SY	4.3 Ounce/SY, 1,658 Lb./FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20)	5.57
		For Up To 50, Add	1.24
		For >50 To 150, Add	0.92
		For >150 To 250, Add	0.60
		For >250 To 500, Add	0.30
31 32 19 13-0008	SY	5.9 Ounce/SY, 2,192 Lb./FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30)	8.19
		For Up To 50, Add	1.77
		For >50 To 150, Add	1.32
		For >150 To 250, Add	0.86
		For >250 To 500, Add	0.43

31 32 19 16 Geotextile Soil Stabilization (31 32 19)

31 32 19 16-0001 Nonwoven Polypropylene Geotextiles (31 32 19 16)

Note: For drainage, filtration and separation. Includes stakes.

31 32 19 16-0002	SY	3.0 Ounce/SY, 40 Mil, 80 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS)	1.71
		For Up To 50, Add	0.39
		For >50 To 150, Add	0.29
		For >150 To 250, Add	0.19
		For >250 To 500, Add	0.09
31 32 19 16-0003	SY	3.5 Ounce/SY, 50 Mil, 95 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS)	1.83
		For Up To 50, Add	0.42
		For >50 To 150, Add	0.31
		For >150 To 250, Add	0.20
		For >250 To 500, Add	0.10
31 32 19 16-0004	SY	4.0 Ounce/SY, 60 Mil, 115 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS)	1.98
		For Up To 50, Add	0.45
		For >50 To 150, Add	0.33
		For >150 To 250, Add	0.22
		For >250 To 500, Add	0.11

31 Earthwork**31 30 Earthwork Methods****31 32 Soil Stabilization**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
31 32 19 16-0005	SY	4.5 Ounce/SY, 55 Mil, 120 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS)	2.13		
		For Up To 50, Add	0.48		
		For >50 To 150, Add	0.35		
		For >150 To 250, Add	0.23		
		For >250 To 500, Add	0.12		
31 32 19 16-0006	SY	6.0 Ounce/SY, 70 Mil, 160 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS)	2.53		
		For Up To 50, Add	0.56		
		For >50 To 150, Add	0.41		
		For >150 To 250, Add	0.27		
		For >250 To 500, Add	0.14		
31 32 19 16-0007	SY	7.0 Ounce/SY, 85 Mil, 180 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS)	2.96		
		For Up To 50, Add	0.66		
		For >50 To 150, Add	0.49		
		For >150 To 250, Add	0.32		
		For >250 To 500, Add	0.16		
31 32 19 16-0008	SY	8.0 Ounce/SY, 85 Mil, 205 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS)	3.26		
		For Up To 50, Add	0.72		
		For >50 To 150, Add	0.53		
		For >150 To 250, Add	0.35		
		For >250 To 500, Add	0.17		
31 32 19 16-0009	SY	10 Ounce/SY, 115 Mil, 250 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS)	4.02		
		For Up To 50, Add	0.87		
		For >50 To 150, Add	0.65		
		For >150 To 250, Add	0.42		
		For >250 To 500, Add	0.21		
31 32 19 16-0010	SY	16 Ounce/SY, 175 Mil, 425 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric	7.24		
		For Up To 50, Add	1.51		
		For >50 To 150, Add	1.13		
		For >150 To 250, Add	0.75		
		For >250 To 500, Add	0.37		
31 32 19 16-0011 Woven Geotextiles Fabric (31 32 19 16)					
Note: Includes stakes.					
31 32 19 16-0012	SY	200 Lb. Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55)	2.47		
		For Up To 50, Add	0.55		
		For >50 To 150, Add	0.40		
		For >150 To 250, Add	0.26		
		For >250 To 500, Add	0.13		
31 32 19 16-0013	SY	315 Lb. Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66)	3.46		
		For Up To 50, Add	0.74		
		For >50 To 150, Add	0.55		
		For >150 To 250, Add	0.36		
		For >250 To 500, Add	0.18		
31 32 19 16-0014	SY	4 To 6% Open Area, 370 x 250 Lb. Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%)	6.10		
		For Up To 50, Add	1.28		
		For >50 To 150, Add	0.96		
		For >150 To 250, Add	0.63		
		For >250 To 500, Add	0.32		
31 32 19 16-0015	SY	11 To 15% Open Area, 370 x 220 Lb. Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%)	5.95		
		For Up To 50, Add	1.25		
		For >50 To 150, Add	0.93		
		For >150 To 250, Add	0.62		
		For >250 To 500, Add	0.31		
31 32 19 16-0016	SY	6.9 Oz./SY, 250 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF)	5.20		
		For Up To 50, Add	1.10		
		For >50 To 150, Add	0.82		
		For >150 To 250, Add	0.54		
		For >250 To 500, Add	0.27		
31 32 19 16-0017	SY	9.1 Oz./SY, 333 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF)	5.56		
		For Up To 50, Add	1.18		
		For >50 To 150, Add	0.88		
		For >150 To 250, Add	0.58		
		For >250 To 500, Add	0.29		
31 32 19 16-0018	SY	12.1 Oz./SY, 400 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF)	7.10		
		For Up To 50, Add	1.48		
		For >50 To 150, Add	1.11		
		For >150 To 250, Add	0.73		
		For >250 To 500, Add	0.37		
31 32 19 16-0019	SY	12.1 Oz./SY, 400 Lb./IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF)	10.12		
		For Up To 50, Add	2.09		
		For >50 To 150, Add	1.56		
		For >150 To 250, Add	1.03		
		For >250 To 500, Add	0.52		



		Earthwork	31	31
		Earthwork Methods	31 30	
		Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0020	Geomembranes (31 32 19 16) Note: Includes stakes.		
31 32 19 16-0021	Polyvinyl Chloride (PVC) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0022	SF 20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.55	
31 32 19 16-0023	SF 30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.80	
31 32 19 16-0024	SF 40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.17	
31 32 19 16-0025	SF 50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.60	
31 32 19 16-0026	SF 60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.97	
31 32 19 16-0027	SF 70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.25	
31 32 19 16-0028	SF 80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.52	
31 32 19 16-0029	SF 90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.89	
31 32 19 16-0030	SF 100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	4.25	
31 32 19 16-0031	High-Density Polyethylene (HDPE) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0032	SF 20 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.08	
31 32 19 16-0033	SF 30 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.30	
31 32 19 16-0034	SF 40 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.52	
31 32 19 16-0035	SF 50 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	2.48	
31 32 19 16-0036	SF 60 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.93	
31 32 19 16-0037	SF 80 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	2.37	
31 32 19 16-0038	SF 100 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	2.81	
31 32 19 16-0039	SF 120 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	5.06	
31 32 19 16-0040	SF 140 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	5.25	
31 32 19 26	Geoweb Cellular Confinement System (31 32 19) Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0001	Geoweb Cellular Confinement System (31 32 19 26) Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0002	SF 4" Geoweb Cellular Confinement System (Presto Geosystems)	8.15	
	For >20,000, Deduct	-0.19	
	For >2:1 Slope, Add	1.43	
31 32 19 26-0003	SF 6" Geoweb Cellular Confinement System (Presto Geosystems)	9.87	
	For >20,000, Deduct	-0.28	
	For >2:1 Slope, Add	1.43	
31 32 19 26-0004	SF 8" Geoweb Cellular Confinement System (Presto Geosystems)	11.92	
	For >20,000, Deduct	-0.38	
	For >2:1 Slope, Add	1.43	
31 32 36	Soil Nailing (31 32)		
31 32 36 11	Soil Nailing Stabilization (31 32 36)		
31 32 36 11-0001	Landslide and Slip-Out Stabilization (31 32 36 11) Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.		
31 32 36 11-0002	BioWall® (31 32 36 11-0001) Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ¼(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0003	SF BioWall® Construction	25.00	
31 32 36 11-0004	Green Terra Mesh (31 32 36 11-0001) Note: Furnish and install the Green Terra Mesh. Furnish equipment and incidentals necessary to complete the work. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0005	EA Green Terra Mesh	635.25	

31 Earthwork**31 30 Earthwork Methods****31 32 Soil Stabilization**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 32 36 11-0006

GeoSynthetically Confined Soil™ (GCS®) Components (31 32 36 11-0001)

Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 – Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2,400 lb./ft. (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr. (10 miles/hr.). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or 3/4 in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front o See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0007	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Construction 23.75
		Note: Installation sold per square face foot (excludes materials)
31 32 36 11-0008	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10" x 120") 108.50
31 32 36 11-0009	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8" x 8" x 16") 6.50
31 32 36 11-0010	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile 0.75

31 32 36 11-0011

Turf (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0012

Permanent Turf Reinforcing Mat (TRM) (31 32 36 11-0011)

Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxial oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.

31 32 36 11-0013	SF	Permanent Turf Reinforcement Mat..... 1.50
		Note: sold per square face foot

31 32 36 11-0014

Biodegradable Turf Reinforcing Mat (TRM) (31 32 36 11-0011)

Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.

31 32 36 11-0015	SF	Biodegradable Turf Reinforcement Mat 0.75
		Note: sold per square face foot

31 32 36 11-0016

Shotcrete or Gunit (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).



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	Earthwork Methods	31 30	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0017		Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying		
31 32 36 11-0018	SFI	Wet-Mix Reinforced Shotcrete Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).	5.50	

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 32 36 11-0019		Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M80, Class B for quality Fiber Reinforcement ASTM C116-00 Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplastisizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C6	
31 32 36 11-0020	SFI	Dry-Mix Reinforced Gunite.....	8.50
		Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).	
31 32 36 11-0021		Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016)	
31 32 36 11-0022	SFI	Steel Fiber Reinforcement.....	1.25
		Note: sold per inch thickness over one square face foot of area	
31 32 36 11-0023		Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 11-0024		Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 11-0023) Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.	
31 32 36 11-0025	SF	High Capacity Diamond Mesh	11.00
		Note: sold per square face foot	
31 32 36 11-0026	SF	Double Twist Wire Mesh	13.75
		Note: sold per square face foot	
31 32 36 11-0027		Steel Plates (31 32 36 11-0023)	
31 32 36 11-0028	EA	8x8 Galvanized Steel Plates.....	35.00
31 32 36 11-0029	EA	10x10 Galvanized Steel Plates.....	54.75
31 32 36 11-0030	EA	12x12 Galvanized Steel Plates.....	78.75
31 32 36 11-0031	EA	8x8 Epoxy Coated Steel Plates.....	76.00
31 32 36 11-0032	EA	10x10 Epoxy Coated Steel Plates.....	89.25
31 32 36 11-0033	EA	12x12 Epoxy Coated Steel Plates.....	105.25



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Earthwork Methods		31 30	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 11-0034**Drilled Horizontal Drains** (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0035	LF	Drilled PVC Horizontal Drains (up to 2" Diameter).....	26.00
31 32 36 11-0036	LF	Stripdrain - 6" Wide.....	3.25
31 32 36 11-0037	LF	Stripdrain - 12" Wide.....	4.00
31 32 36 11-0038	LF	PVC Drain Collector Pipe System.....	26.75

31 32 36 11-0039**Rockfall Stabilization** (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0040	SF	Scaling.....	3.75
31 32 36 11-0041	SF	Trim Blasting.....	155.00
31 32 36 11-0042	SY	Slope Drape - Double Twist Wire Mesh.....	45.00
31 32 36 11-0043	SY	Slope Drape - Cable Net.....	135.00
31 32 36 11-0044	SY	Slope Drape - Tecco Mesh (4mm).....	135.00
31 32 36 11-0045	LF	Temporary Rockfall Barrier.....	500.00
31 32 36 11-0046	LF	Low Reach Drilling (<25 feet).....	25.00
31 32 36 11-0047	LF	High Reach Drilling (>25 feet).....	45.00
31 32 36 11-0048	LF	Limited Access Drilling.....	100.00
31 32 36 11-0049	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized).....	18.50
31 32 36 11-0050	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Epoxy Coated).....	15.25
31 32 36 11-0051	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Galvanized).....	23.25
31 32 36 11-0052	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Epoxy Coated).....	17.25
31 32 36 11-0053	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Galvanized).....	23.50
31 32 36 11-0054	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Epoxy Coated).....	18.75
31 32 36 11-0055	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Galvanized).....	26.50
31 32 36 11-0056	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0057	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized).....	29.25
31 32 36 11-0058	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0059	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized).....	34.50
31 32 36 11-0060	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Epoxy Coated).....	31.75
31 32 36 11-0061	EA	Rock Anchor Testing	825.00

31 32 36 11-0062**Mobilization / Demobilization** (31 32 36 11-0001)

31 32 36 11-0063	EA	Mobilization - In State	10,000.00
31 32 36 11-0064	EA	Mobilization - Out Of State.....	25,000.00
31 32 36 11-0065	EA	Mobilization - Specialty Equipment Adder	9,800.00

31 32 36 11-0066**Daily Crew Rates (DCR)** (31 32 36 11-0001)

31 32 36 11-0067	DAY	Soils Stabilization Crew - DCR , Per Workday.....	13,150.00
31 32 36 11-0068	DAY	Rockfall Stabilization Crew - DCR, Per Workday.....	15,200.00
31 32 36 11-0069	DAY	Compaction Grouting Crew - DCR, Per Workday.....	12,925.00
31 32 36 11-0070	DAY	Additional Crew Member/Crew - DCR, Per Workday.....	2,050.00
31 32 36 11-0071	EA	Out of State Crew Rotation	4,950.00
31 32 36 11-0072	EA	Spider Excavation.....	5,500.00

31 32 36 13**Driven Soil Nailing** (31 32 36)**31 32 36 13-0001****Large Diameter Micropiles** (31 32 36 13)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 13-0002	LF	5" Micropiles (with up to 5.5" steel casing).....	94.50
31 32 36 13-0003	LF	7" Micropiles (with up to 7.625" steel casing).....	130.25
31 32 36 13-0004	LF	10" Micropiles (with up to 9.625" steel casing).....	166.50
31 32 36 13-0005	LF	12" Micropiles (with up to 11.875" steel casing).....	213.25

31 32 36 16**Grouted Soil Nailing** (31 32 36)**31 32 36 16-0001****Grouting** (31 32 36 16)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31	31	Earthwork
	31 30	Earthwork Methods
	31 32	Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 16-0002

Compaction Grouting (31 32 36 16-0001)

Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.

31 32 36 16-0003	LF	Compaction Grouting Casing Installation.....	52.75
31 32 36 16-0004	CF	Compaction Grout Injection for Soils Densification	55.50
31 32 36 16-0005	CF	Compaction Grout For Void Fill.....	39.00

31 32 36 16-0006

Polyurethane Grouting (31 32 36 16-0001)

Note: The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - Lbs./CF D 1622 3.0 Lbs./CF 6.0 Lbs./CF Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3' below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.

31 32 36 16-0007	LB	Polyurethane Grouting For Void Fill and Re-Leveling.....	11.50

31 32 36 19 Corrosion-Protected Soil Nailing (31 32 36)

31 32 36 19-0001

Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 19)

Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering B7X or Ischebeck Titan bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 19-0002

Self-Drilling SuperNails® (31 32 36 19-0001)

31 32 36 19-0003	EA	Self Drilling SuperNails® Up To 10 Ft. Length.....	559.00
31 32 36 19-0004	EA	Self Drilling SuperNails® Up To 20 Ft. Length.....	939.25
31 32 36 19-0005	EA	Self Drilling SuperNails® Up To 30 Ft. Length.....	1,305.75
31 32 36 19-0006	EA	Self Drilling SuperNails® Up To 40 Ft. Length.....	1,735.75
31 32 36 19-0007	EA	Self Drilling SuperNails® Up To 50 Ft. Length.....	2,119.75
31 32 36 19-0008	EA	Self Drilling SuperNails® Up To 60 Ft. Length.....	2,459.25
31 32 36 19-0009	EA	Self Drilling SuperNails® Up To 70 Ft. Length.....	2,879.25
31 32 36 19-0010	EA	Self Drilling SuperNails® Up To 80 Ft. Length.....	3,253.50
31 32 36 19-0011	EA	Additional Cost for 10' High Capacity X-51 Bar.....	129.50

31 32 36 19-0012

SuperNail® Testing (31 32 36 19)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).



		Earthwork	31	31
		Earthwork Methods	31 30	
		Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 19-0013	EA	SuperNail® Proof Testing.....	769.00	
31 32 36 19-0014	EA	SuperNail® Verification Testing.....	2,339.75	

31 32 36 26 Launched Soil Nailing (31 32 36)

31 32 36 26-0001 Launched SuperDrain™ (Horizontal Drains) (31 32 36 26)

Note: Furnish Launched SuperDrain™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Drainage perforations consist of 0.5-inch diameter holes drilled or torch-cut at 6 inch spacing along the distal 5 feet of nail. Every other hole is rotated 90° about the longitudinal axis of the nail. Furnish equipment and incidentals necessary to complete the work. Insert Launched SuperDrain™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 26-0002	EA	GalvaDized™ SuperDrain™ - Up To 20'.....	605.00	
		Note: perforated GalvaDized™ steel tube up to 20 ft. length.		
31 32 36 26-0003	EA	Fiberglass SuperNail® - Up To 20'.....	621.50	
		Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.		
31 32 36 26-0004	EA	GalvaDized™ SuperNail® - Up To 20'.....	478.50	
		Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.		
31 32 36 26-0005	EA	Temporary Launched Soil Nail.....	379.50	
		Note: bare steel tube up to 20 ft. length.		
31 32 36 26-0006	EA	Fiberglass SuperDrain™.....	495.00	
		Note: perforated fiberglass tube up to 20 ft. length.		
31 32 36 26-0007	EA	GalvaDized™ SuperDrain™.....	379.50	
		Note: perforated GalvaDized™ steel tube up to 20 ft. length.		

31 32 36 29 Drilled Soil Nailing (31 32 36)

31 32 36 29-0001 Drilled SuperNails® (Permanently Cased Soil Nails) (31 32 36 29)

Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 thread bar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner thread bar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 29-0002	EA	Drilled GalvaDized™ SuperNail® Up To 10 Ft. Length.....	602.25	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0003	EA	Drilled GalvaDized™ SuperNail® Up To 20 Ft. Length.....	693.50	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0004	EA	Drilled GalvaDized™ SuperNail® Up To 30 Ft. Length.....	921.50	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0005	EA	Drilled GalvaDized™ SuperNail® Up To 40 Ft. Length.....	1,056.00	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0006	EA	Drilled GalvaDized™ SuperNail® Up To 50 Ft. Length.....	1,171.50	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0007	EA	Drilled GalvaDized™ SuperNail® Up To 60 Ft. Length.....	1,376.50	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0008	EA	Drilled GalvaDized™ SuperNail® Up To 70 Ft. Length.....	1,624.75	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0009	EA	Drilled GalvaDized™ SuperNail® Up To 80 Ft. Length.....	1,872.75	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		

31 32 36 33 Drilled / Launched Soil Nailing (31 32 36)

31 32 36 33-0001 Drilled / Launched SuperMicropiles™ (31 32 36 33)

Note: Furnish SuperMicropiles™ that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 thread bar as the inner bar. SuperMicropiles™ may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperMicropile™ outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner thread bar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.

31 32 36 33-0002	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 20 Ft. Length.....	695.00	
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.		
31 32 36 33-0003	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 30 Ft. Length.....	1,020.00	
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.		
31 32 36 33-0004	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 40 Ft. Length.....	1,280.00	
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.		
31 32 36 33-0005	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 50 Ft. Length.....	1,540.00	
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.		

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 35 Slope Protection ^(31 30)

31 35 19 Geosynthetic Slope Protection ^(31 35)

31 35 19 19 Slope Protection with Mulch Control Netting ^(31 35 19)

Note: Includes stakes.

31 35 19 19-0001	Erosion Control Fabric ^(31 35 19 19)	
31 35 19 19-0002	SY 26.6 Oz./SY Erosion Control Fabric (Belton Industries Geocoir 900)	5.73

31 36 Gabions ^(31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.

31 36 13 Gabion Boxes ^(31 36)

31 36 13 00-0001	Stone Filled Gabion Slope Protection ^(31 36 13)	
	Note: Machine placed by SY of total top face area for depth indicated.	
31 36 13 00-0002	SY 6" Deep Stone Filled Gabion Slope Protection	80.15
31 36 13 00-0003	SY 9" Deep Stone Filled Gabion Slope Protection	94.40
31 36 13 00-0004	SY 12" Deep Stone Filled Gabion Slope Protection	113.39
31 36 13 00-0005	SY 15" Deep Stone Filled Gabion Slope Protection	134.13
31 36 13 00-0006	SY 18" Deep Stone Filled Gabion Slope Protection	157.58
31 36 13 00-0007	SY 24" Deep Stone Filled Gabion Slope Protection	215.51
31 36 13 00-0008	SY 36" Deep Stone Filled Gabion Slope Protection	272.25

31 37 Riprap ^(31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0041 for hauling section for greater than 15 miles.

31 37 13 Machined Riprap ^(31 37)

31 37 13 00-0001	Random - Filter Stone ^(31 37 13)	
31 37 13 00-0002	CY 10 To 50 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	83.97
	For Chinking Material, Add	14.28
31 37 13 00-0003	CY >50 To 100 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	98.16
	For Chinking Material, Add	14.28
31 37 13 00-0004	CY >100 To 200 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	104.84
	For Chinking Material, Add	14.28
31 37 13 00-0005	CY >200 To 300 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	112.45
	For Chinking Material, Add	14.28
31 37 13 00-0006	CY >300 To 600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	118.58
	For Chinking Material, Add	14.28
31 37 13 00-0007	CY >600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	128.61
31 37 13 00-0008	CY 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	149.12
31 37 13 00-0009	TON 10 To 50 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	55.28
31 37 13 00-0010	TON >50 To 100 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	64.29
31 37 13 00-0011	TON >100 To 200 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	68.53
31 37 13 00-0012	TON >200 To 300 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	73.36
31 37 13 00-0013	TON >300 To 600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	77.26
31 37 13 00-0014	TON >600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	83.70
31 37 13 00-0015	TON 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	100.17
31 37 13 00-0016	TON Spread Of Rip Rap By Machine	18.29
	Note: Excludes material	
31 37 13 00-0017	TON Key Rip Rap	137.23
	Note: Excludes material.	
31 37 13 00-0018	CY Grout For Rip Rap	198.26
31 37 13 00-0019	TON Additional Cost For Placement Of Rip-Rap By Barge Instead Of Truck	155.07

31 37 16 Non-Machined Riprap ^(31 37)

31 37 16 13 Rubble-Stone Riprap ^(31 37 16)

31 37 16 13-0001	Rock Slope Protection ^(31 37 16 13)	
31 37 16 13-0002	TON 1 Lb. Average Pieces Random, Dumped From Truck, Rock Slope Protection	49.98
31 37 16 13-0003	TON 5 Lb. Average Pieces Random, Dumped From Truck, Rock Slope Protection	53.16
31 37 16 13-0004	TON 25 Lb. Average Pieces Random, Dumped From Truck, Rock Slope Protection	55.28
31 37 16 13-0005	TON 75 Lb. Average Pieces Random, Dumped From Truck, Rock Slope Protection	64.29
31 37 16 13-0006	TON 200 Lb. Average Pieces Random, Dumped From Truck, Rock Slope Protection	68.53
31 37 16 13-0007	TON 1/4 Ton Average Pieces Random, Dumped From Truck, Rock Slope Protection	77.26
31 37 16 13-0008	TON 1 Ton Average Pieces Random, Dumped From Truck, Rock Slope Protection	83.70
31 37 16 13-0009	TON 2 Ton Average Pieces Random, Dumped From Truck, Rock Slope Protection	90.79
31 37 16 13-0010	TON 4 Ton Average Pieces Random, Dumped From Truck, Rock Slope Protection	101.42

31 40 Shoring and Underpinning ⁽³¹⁾



Earthwork			31
Shoring and Underpinning			31 40
Shoring			31 41

15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 41 Shoring (31 40)**31 41 13 Timber Shoring** (31 41)

31 41 13 00-0001 Wood Sheet Piling (31 41 13)

31 41 13 00-0002 Pull And Salvage (31 41 13 00-0001)

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-back (rock bolting) where required and excavation.

31 41 13 00-0003	SF	8' Deep Excavation, Wood Shoring, Pull And Salvage	15.42
		For Wood Sheeting Left In Place	-1.48
31 41 13 00-0004	SF	10' Deep Excavation, Wood Shoring, Pull And Salvage	16.70
		For Wood Sheeting Left In Place	-1.73
31 41 13 00-0005	SF	12' Deep Excavation, Wood Shoring, Pull And Salvage	18.09
		For Wood Sheeting Left In Place	-1.99
31 41 13 00-0006	SF	14' Deep Excavation, Wood Shoring, Pull And Salvage	19.59
		For Wood Sheeting Left In Place	-2.30
31 41 13 00-0007	SF	16' Deep Excavation, Wood Shoring, Pull And Salvage	21.24
		For Wood Sheeting Left In Place	-2.62
31 41 13 00-0008	SF	18' Deep Excavation, Wood Shoring, Pull And Salvage	23.01
		For Wood Sheeting Left In Place	-3.00
31 41 13 00-0009	SF	20' Deep Excavation, Wood Shoring, Pull And Salvage	24.96
		For Wood Sheeting Left In Place	-3.40

31 41 16 Sheet Piling (31 41)**31 41 16 13 Steel Sheet Piling** (31 41 16)

31 41 16 13-0001 Standard Carbon Grade Steel Sheeting - Pull And Salvage (31 41 16 13)

Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-back (rock bolting) where required and excavation.

31 41 16 13-0002	TON	Driven Steel Sheet Piling, 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage	2,173.70
		For Standard Sheeting Left In Place, Add	1,350.91
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,303.11
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	107.55
		For High Strength Sheeting 55,000 PSI Grade, Add	119.50
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	370.44
		For Each Additional Month >3 Months, Add	59.75
31 41 16 13-0003	TON	Driven Steel Sheet Piling, 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage	2,258.62
		For Standard Sheeting Left In Place, Add	1,308.45
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,260.65
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	107.55
		For High Strength Sheeting 55,000 PSI Grade, Add	119.50
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	370.44
		For Each Additional Month >3 Months, Add	59.75
31 41 16 13-0004	TON	Driven Steel Sheet Piling, 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,653.42
		For Standard Sheeting Left In Place, Add	1,111.05
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,063.25
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	107.55
		For High Strength Sheeting 55,000 PSI Grade, Add	119.50
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	370.44
		For Each Additional Month >3 Months, Add	59.75
31 41 16 13-0005	TON	Driven Steel Sheet Piling, 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	3,033.31
		For Standard Sheeting Left In Place, Add	921.10
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	873.31
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	107.55
		For High Strength Sheeting 55,000 PSI Grade, Add	119.50
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	370.44
		For Each Additional Month >3 Months, Add	59.75
31 41 16 13-0006	TON	Driven Steel Sheet Piling, 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	3,256.79
		For Standard Sheeting Left In Place, Add	809.36
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	761.57
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	107.55
		For High Strength Sheeting 55,000 PSI Grade, Add	119.50
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	370.44
		For Each Additional Month >3 Months, Add	59.75
31 41 16 13-0007	TON	Driven Steel Sheet Piling, 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	3,484.72
		For Standard Sheeting Left In Place, Add	695.40
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	647.60
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	107.55
		For High Strength Sheeting 55,000 PSI Grade, Add	119.50
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	370.44
		For Each Additional Month >3 Months, Add	59.75

31 43 Concrete Raising (31 40)**31 43 13 Pressure Grouting** (31 43)**31 43 13 16 Polyurethane Pressure Grouting** (31 43 13)

31 43 13 16-0001 PolyLift™ Concrete Injection For Lifting And Leveling (31 43 13 16)

31 43 13 16-0002 EA Minimum Charge For Mobilization PolyLift™ Concrete Lifting And Leveling 3,641.05

31	Earthwork
31 40	Shoring and Underpinning
31 43	Concrete Raising



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 43 13 16-0003	LB	Up To 1,000 Lb. PolyLift™ Concrete Injection For Lifting And Leveling..... Note: Per pound of material.	32.96	
31 43 13 16-0004	LB	>1,000 Lb. PolyLift™ Concrete Injection For Lifting And Leveling Note: Per pound of material.	27.62	

31 45 Vibroflotation and Densification ^(31 40)

31 45 13 Vibroflotation ^(31 45)

31 45 13 00-0001	LCY	Soil Stabilization, Vibroflotation.....	18.49	

31 50 Excavation Support and Protection ⁽³¹⁾

31 52 Cofferdams ^(31 50)

31 52 21 Portable Cofferdams ^(31 52)

31 52 21 00-0001		Portable Cofferdams ^(31 52 21) Note: Excludes dewatering and pumps.		
31 52 21 00-0002		Portable Cofferdam Rental ^(31 52 21 00-0001) Note: Excludes delivery and installation.		
31 52 21 00-0003	LF	3' High x 7' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	53.00	
31 52 21 00-0004	LF	4' High x 9' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	67.84	
31 52 21 00-0005	LF	5' High x 11' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	95.40	
31 52 21 00-0006	LF	6' High x 13' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	122.97	
31 52 21 00-0007	LF	8' High x 17' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	159.01	
31 52 21 00-0008	LF	10' High x 21' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	318.02	
31 52 21 00-0009	LF	12' High x 25' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	445.22	
31 52 21 00-0010	LF	16' High x 33' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	629.67	
31 52 21 00-0011		Delivery And Set-up For Portable Cofferdam ^(31 52 21 00-0001) Note: Excludes crane usage where required. See CSI section 01 22 23 00-1038 for crane lifting equipment.		
31 52 21 00-0012	LF	Delivery And Set-up For Up To 5' High, Portable Cofferdam, In Dynamic (Rivers Or Streams) Water.....	13.08	
31 52 21 00-0013	LF	Delivery And Set-up For 6' To 8' High, Portable Cofferdam, In Dynamic (Rivers Or Streams) Water.....	20.92	
31 52 21 00-0014	LF	Delivery And Set-up For 10' To 12' High, Portable Cofferdam, In Dynamic (Rivers Or Streams) Water.....	31.38	
31 52 21 00-0015	LF	Delivery And Set-up For 16' High, Portable Cofferdam, In Dynamic (Rivers Or Streams) Water.....	41.85	
31 52 21 00-0016	LF	Delivery And Set-up For Up To 5' High, Portable Cofferdam, In Static (Lakes Or Ponds) Water.....	7.84	
31 52 21 00-0017	LF	Delivery And Set-up For 6' To 8' High, Portable Cofferdam, In Static (Lakes Or Ponds) Water.....	13.08	
31 52 21 00-0018	LF	Delivery And Set-up For 10' To 12' High, Portable Cofferdam, In Static (Lakes Or Ponds) Water.....	20.92	
31 52 21 00-0019	LF	Delivery And Set-up For 16' High, Portable Cofferdam, In Static (Lakes Or Ponds) Water.....	28.78	
31 52 21 00-0020		Portable Cofferdam Repositioning ^(31 52 21 00-0001)		
31 52 21 00-0021	LF	Up To 5' High, Portable Cofferdam, Repositioning	6.54	
31 52 21 00-0022	LF	6' To 8' High, Portable Cofferdam, Repositioning	10.46	
31 52 21 00-0023	LF	10' To 12' High, Portable Cofferdam, Repositioning	15.70	
31 52 21 00-0024	LF	16' High, Portable Cofferdam, Repositioning	20.92	

31 60 Special Foundations and Load-bearing Elements ⁽³¹⁾

31 62 Driven Piles ^(31 60)

31 62 13 Concrete Piles ^(31 62)

31 62 13 23 Prestressed Concrete Piles ^(31 62 13)

31 62 13 23-0001		Square Prestressed Driven Concrete Piles ^(31 62 13 23)		
31 62 13 23-0002	VLF	10" Square Prestressed Driven Concrete Pile	35.46	
		For Piles Driven In Water, Add	16.34	
31 62 13 23-0003	VLF	12" Square Prestressed Driven Concrete Pile	44.76	
		For Piles Driven In Water, Add	18.46	
31 62 13 23-0004	VLF	14" Square Prestressed Driven Concrete Pile	54.52	
		For Piles Driven In Water, Add	20.37	
31 62 13 23-0005	VLF	16" Square Prestressed Driven Concrete Pile	67.10	
		For Piles Driven In Water, Add	22.69	
31 62 13 23-0006	VLF	18" Square Prestressed Driven Concrete Pile	81.75	
		For Piles Driven In Water, Add	25.39	
31 62 13 23-0007	VLF	20" Square Prestressed Driven Concrete Pile	94.73	
		For Piles Driven In Water, Add	28.12	
31 62 13 23-0008	VLF	24" Square Prestressed Driven Concrete Pile	121.28	
		For Piles Driven In Water, Add	32.47	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Driven Piles	31 62

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 13 23-0009		Octagonal Prestressed Driven Concrete Piles (31 62 13 23)		
31 62 13 23-0010	VLF	12" Octagonal Prestressed Driven Concrete Pile	39.99	
		<i>For Piles Driven In Water, Add</i>	17.16	
31 62 13 23-0011	VLF	14" Octagonal Prestressed Driven Concrete Pile	49.36	
		<i>For Piles Driven In Water, Add</i>	18.92	
31 62 13 23-0012	VLF	16" Octagonal Prestressed Driven Concrete Pile	58.85	
		<i>For Piles Driven In Water, Add</i>	20.80	
31 62 13 23-0013	VLF	18" Octagonal Prestressed Driven Concrete Pile	70.61	
		<i>For Piles Driven In Water, Add</i>	23.05	
31 62 13 23-0014	VLF	20" Octagonal Prestressed Driven Concrete Pile	75.14	
		<i>For Piles Driven In Water, Add</i>	24.73	
31 62 13 23-0015	VLF	24" Octagonal Prestressed Driven Concrete Pile	79.91	
		<i>For Piles Driven In Water, Add</i>	26.64	
31 62 13 23-0016		Straight Cylinder Prestressed Driven Concrete Piles (31 62 13 23)		
31 62 13 23-0017	VLF	12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile	58.26	
		<i>For Piles Driven In Water, Add</i>	18.26	
31 62 13 23-0018	VLF	14" Diameter, 2-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile	69.21	
		<i>For Piles Driven In Water, Add</i>	20.08	
31 62 13 23-0019	VLF	16" Diameter, 3" Wall, Straight Cylinder Prestressed Driven Concrete Pile	82.20	
		<i>For Piles Driven In Water, Add</i>	22.21	
31 62 13 23-0020	VLF	18" Diameter, 3-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile	93.11	
		<i>For Piles Driven In Water, Add</i>	24.22	
31 62 13 23-0021	VLF	20" Diameter, 4" Wall, Straight Cylinder Prestressed Driven Concrete Pile	117.34	
		<i>For Piles Driven In Water, Add</i>	27.72	
31 62 13 23-0022	VLF	24" Diameter, 5" Wall, Straight Cylinder Prestressed Driven Concrete Pile	145.32	
		<i>For Piles Driven In Water, Add</i>	31.75	
31 62 16		Steel Piles (31 62)		
31 62 16 16		Steel H Piles (31 62 16)		
31 62 16 16-0001		Rolled, Driven Steel H Piles (31 62 16 16)		
31 62 16 16-0002	VLF	8" x 8" x 36 Lb./FT, Rolled, Driven Steel H Pile	35.39	
		<i>For Piles Driven In Water, Add</i>	17.53	
31 62 16 16-0003	VLF	10" x 10" x 42 Lb./FT, Rolled, Driven Steel H Pile	39.47	
		<i>For Piles Driven In Water, Add</i>	18.63	
31 62 16 16-0004	VLF	10" x 10" x 57 Lb./FT, Rolled, Driven Steel H Pile	47.74	
		<i>For Piles Driven In Water, Add</i>	19.45	
31 62 16 16-0005	VLF	12" x 12" x 53 Lb./FT, Rolled, Driven Steel H Pile	46.03	
		<i>For Piles Driven In Water, Add</i>	19.72	
31 62 16 16-0006	VLF	12" x 12" x 63 Lb./FT, Rolled, Driven Steel H Pile	51.54	
		<i>For Piles Driven In Water, Add</i>	20.27	
31 62 16 16-0007	VLF	12" x 12" x 74 Lb./FT, Rolled, Driven Steel H Pile	59.01	
		<i>For Piles Driven In Water, Add</i>	22.28	
31 62 16 16-0008	VLF	12" x 12" x 84 Lb./FT, Rolled, Driven Steel H Pile	64.52	
		<i>For Piles Driven In Water, Add</i>	22.83	
31 62 16 16-0009	VLF	14" x 14" x 73 Lb./FT, Rolled, Driven Steel H Pile	58.90	
		<i>For Piles Driven In Water, Add</i>	22.67	
31 62 16 16-0010	VLF	14" x 14" x 89 Lb./FT, Rolled, Driven Steel H Pile	68.27	
		<i>For Piles Driven In Water, Add</i>	23.60	
31 62 16 16-0011	VLF	14" x 14" x 102 Lb./FT, Rolled, Driven Steel H Pile	76.45	
		<i>For Piles Driven In Water, Add</i>	25.83	
31 62 16 16-0012	VLF	14" x 14" x 117 Lb./FT, Rolled, Driven Steel H Pile	85.27	
		<i>For Piles Driven In Water, Add</i>	26.71	
31 62 16 16-0013		Splices, Caps, And Points For H-Piles (31 62 16 16)		
31 62 16 16-0014		Rolled Steel H Pile Splices (31 62 16 16-0013)		
31 62 16 16-0015	EA	8" Rolled Steel H Pile Splice	328.00	
31 62 16 16-0016	EA	10" Rolled Steel H Pile Splice	367.17	
31 62 16 16-0017	EA	12" Rolled Steel H Pile Splice	503.79	
31 62 16 16-0018	EA	14" Rolled Steel H Pile Splice	523.37	
31 62 16 16-0019		Rolled Steel H Driving Caps (31 62 16 16-0013)		
31 62 16 16-0020	EA	8" Rolled Steel H Driving Cap	3,258.48	
31 62 16 16-0021	EA	10" Rolled Steel H Driving Cap	3,258.48	
31 62 16 16-0022	EA	12" Rolled Steel H Driving Cap	3,319.91	
31 62 16 16-0023	EA	14" Rolled Steel H Driving Cap	4,984.67	
31 62 16 16-0024		Rolled Steel H Standard Pile Points (31 62 16 16-0013)		
31 62 16 16-0025	EA	8" Rolled Steel H Standard Pile Point	347.59	
31 62 16 16-0026	EA	10" Rolled Steel H Standard Pile Point	367.17	
31 62 16 16-0027	EA	12" Rolled Steel H Standard Pile Point	503.79	
31 62 16 16-0028	EA	14" Rolled Steel H Standard Pile Point	562.54	
31 62 16 16-0029	EA	10" Rolled Steel H Standard Pile Point	503.79	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 16-0030	EA	14" Rolled Steel H Standard Pile Point	600.48	
31 62 16 19 Unfilled Tubular Steel Piles (31 62 16 19)				
31 62 16 19-0001		Unfilled Tubular Driven Steel Piles (31 62 16 19)		
31 62 16 19-0002	VLF	8" Diameter x 29 Lb./FT, Unfilled Tubular Driven Steel Pile.....	52.91	
		<i>For Piles Driven In Water, Add</i>	23.19	
31 62 16 19-0003	VLF	8" Diameter x 36 Lb./FT, Unfilled Tubular Driven Steel Pile.....	61.17	
		<i>For Piles Driven In Water, Add</i>	24.02	
31 62 16 19-0004	VLF	8" Diameter x 43 Lb./FT, Unfilled Tubular Driven Steel Pile.....	70.08	
		<i>For Piles Driven In Water, Add</i>	24.91	
31 62 16 19-0005	VLF	10" Diameter x 34 Lb./FT, Unfilled Tubular Driven Steel Pile	61.17	
		<i>For Piles Driven In Water, Add</i>	24.02	
31 62 16 19-0006	VLF	10" Diameter x 41 Lb./FT, Unfilled Tubular Driven Steel Pile	69.01	
		<i>For Piles Driven In Water, Add</i>	24.80	
31 62 16 19-0007	VLF	10" Diameter x 55 Lb./FT, Unfilled Tubular Driven Steel Pile	86.35	
		<i>For Piles Driven In Water, Add</i>	26.54	
31 62 16 19-0008	VLF	12" Diameter x 42 Lb./FT, Unfilled Tubular Driven Steel Pile	71.93	
		<i>For Piles Driven In Water, Add</i>	26.03	
31 62 16 19-0009	VLF	12" Diameter x 50 Lb./FT, Unfilled Tubular Driven Steel Pile	81.11	
		<i>For Piles Driven In Water, Add</i>	26.95	
31 62 16 19-0010	VLF	12" Diameter x 54 Lb./FT, Unfilled Tubular Driven Steel Pile	86.21	
		<i>For Piles Driven In Water, Add</i>	27.46	
31 62 16 19-0011	VLF	12" Diameter x 65 Lb./FT, Unfilled Tubular Driven Steel Pile	100.49	
		<i>For Piles Driven In Water, Add</i>	28.89	
31 62 16 19-0012	VLF	14" Diameter x 46 Lb./FT, Unfilled Tubular Driven Steel Pile	77.80	
		<i>For Piles Driven In Water, Add</i>	28.60	
31 62 16 19-0013	VLF	14" Diameter x 55 Lb./FT, Unfilled Tubular Driven Steel Pile	88.19	
		<i>For Piles Driven In Water, Add</i>	29.64	
31 62 16 19-0014	VLF	14" Diameter x 64 Lb./FT, Unfilled Tubular Driven Steel Pile	98.58	
		<i>For Piles Driven In Water, Add</i>	30.68	
31 62 16 19-0015	VLF	14" Diameter x 72 Lb./FT, Unfilled Tubular Driven Steel Pile	108.96	
		<i>For Piles Driven In Water, Add</i>	31.71	
31 62 16 19-0016	VLF	16" Diameter x 52 Lb./FT, Unfilled Tubular Driven Steel Pile	86.57	
		<i>For Piles Driven In Water, Add</i>	31.91	
31 62 16 19-0017	VLF	16" Diameter x 63 Lb./FT, Unfilled Tubular Driven Steel Pile	98.71	
		<i>For Piles Driven In Water, Add</i>	33.13	
31 62 16 19-0018	VLF	16" Diameter x 83 Lb./FT, Unfilled Tubular Driven Steel Pile	122.39	
		<i>For Piles Driven In Water, Add</i>	35.50	
31 62 16 19-0019	VLF	18" Diameter x 59 Lb./FT, Unfilled Tubular Driven Steel Pile	106.91	
		<i>For Piles Driven In Water, Add</i>	35.91	
31 62 16 19-0020	VLF	18" Diameter x 71 Lb./FT, Unfilled Tubular Driven Steel Pile	122.69	
		<i>For Piles Driven In Water, Add</i>	37.49	
31 62 16 19-0021	VLF	18" Diameter x 93 Lb./FT, Unfilled Tubular Driven Steel Pile	152.66	
		<i>For Piles Driven In Water, Add</i>	40.48	
31 62 16 19-0022		Splices And Points For Pipe Piles (31 62 16 19)		
31 62 16 19-0023		Steel Pipe Pile Splices (31 62 16 19-0022)		
31 62 16 19-0024	EA	8" Diameter, Steel Pipe Pile Splice	345.27	
31 62 16 19-0025	EA	10" Diameter, Steel Pipe Pile Splice	377.75	
31 62 16 19-0026	EA	12" Diameter, Steel Pipe Pile Splice	484.76	
31 62 16 19-0027	EA	14" Diameter, Steel Pipe Pile Splice	516.80	
31 62 16 19-0028	EA	16" Diameter, Steel Pipe Pile Splice	634.04	
31 62 16 19-0029	EA	18" Diameter, Steel Pipe Pile Splice	774.79	
31 62 16 19-0030		Steel Pipe Standard Pile Points (31 62 16 19-0022)		
31 62 16 19-0031	EA	8" Diameter, Steel Pipe Standard Pile Point	329.73	
31 62 16 19-0032	EA	10" Diameter, Steel Pipe Standard Pile Point	355.75	
31 62 16 19-0033	EA	12" Diameter, Steel Pipe Standard Pile Point	405.77	
31 62 16 19-0034	EA	14" Diameter, Steel Pipe Standard Pile Point	477.32	
31 62 16 19-0035	EA	16" Diameter, Steel Pipe Standard Pile Point	542.36	
31 62 16 19-0036	EA	18" Diameter, Steel Pipe Standard Pile Point	623.09	
31 62 16 19-0037		Steel Pipe Heavy-Duty Pile Points (31 62 16 19-0022)		
31 62 16 19-0038	EA	10" Diameter, Steel Pipe Heavy-Duty Pile Point	475.22	
31 62 16 19-0039	EA	12" Diameter, Steel Pipe Heavy-Duty Pile Point	507.74	
31 62 16 19-0040	EA	14" Diameter, Steel Pipe Heavy-Duty Pile Point	573.65	
31 62 16 19-0041	EA	16" Diameter, Steel Pipe Heavy-Duty Pile Point	703.74	
31 62 16 19-0042	EA	18" Diameter, Steel Pipe Heavy-Duty Pile Point	808.86	
31 62 19 Timber Piles (31 62)				
31 62 19 00-0001		Friction Or End Bearing, Driven Treated Wood Piles (31 62 19)		
		Note: 12 Lb. Penta-treated/CF.		



Earthwork			31
Special Foundations and Load-bearing Elements			31 60
Driven Piles			31 62

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 19 00-0002 LF Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	37.00	
For Piles Driven In Water, Add	16.14	
For Untreated Pile, Deduct	-8.58	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0003 LF >30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	38.98	
For Piles Driven In Water, Add	17.88	
For Untreated Pile, Deduct	-8.67	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0004 LF 39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	41.07	
For Piles Driven In Water, Add	19.02	
For Untreated Pile, Deduct	-9.07	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0005 LF >49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	44.24	
For Piles Driven In Water, Add	21.20	
For Untreated Pile, Deduct	-9.47	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0006 LF >59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	54.98	
For Piles Driven In Water, Add	24.15	
For Untreated Pile, Deduct	-12.68	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0007 LF >69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	68.67	
For Piles Driven In Water, Add	29.24	
For Untreated Pile, Deduct	-16.21	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	

31 62 23 Composite Piles (31 62)**31 62 23 13 Concrete-Filled Steel Piles** (31 62 23)**31 62 23 13-0001 Concrete-Filled Driven Steel Pipe Piles** (31 62 23 13)

Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.

31 62 23 13-0002 VLF 8" Diameter x 29 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	56.50	
For 5,000 PSI Concrete Grout Fill, Add	5.99	
For Piles Driven In Water, Add	25.11	
31 62 23 13-0003 VLF 8" Diameter x 36 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	64.76	
For 5,000 PSI Concrete Grout Fill, Add	6.81	
For Piles Driven In Water, Add	25.93	
31 62 23 13-0004 VLF 8" Diameter x 43 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	73.68	
For 5,000 PSI Concrete Grout Fill, Add	7.71	
For Piles Driven In Water, Add	26.83	
31 62 23 13-0005 VLF 10" Diameter x 34 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	66.34	
For 5,000 PSI Concrete Grout Fill, Add	8.33	
For Piles Driven In Water, Add	26.52	
31 62 23 13-0006 VLF 10" Diameter x 41 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	74.18	
For 5,000 PSI Concrete Grout Fill, Add	9.12	
For Piles Driven In Water, Add	27.31	
31 62 23 13-0007 VLF 10" Diameter x 55 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	91.52	
For 5,000 PSI Concrete Grout Fill, Add	10.85	
For Piles Driven In Water, Add	29.04	
31 62 23 13-0008 VLF 12" Diameter x 42 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	79.20	
For 5,000 PSI Concrete Grout Fill, Add	11.15	
For Piles Driven In Water, Add	29.49	
31 62 23 13-0009 VLF 12" Diameter x 50 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	88.38	
For 5,000 PSI Concrete Grout Fill, Add	12.07	
For Piles Driven In Water, Add	30.41	
31 62 23 13-0010 VLF 12" Diameter x 54 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	93.48	
For 5,000 PSI Concrete Grout Fill, Add	12.58	
For Piles Driven In Water, Add	30.92	
31 62 23 13-0011 VLF 12" Diameter x 65 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	107.76	
For 5,000 PSI Concrete Grout Fill, Add	14.01	
For Piles Driven In Water, Add	32.35	
31 62 23 13-0012 VLF 14" Diameter x 46 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	87.74	
For 5,000 PSI Concrete Grout Fill, Add	13.63	
For Piles Driven In Water, Add	33.99	
31 62 23 13-0013 VLF 14" Diameter x 55 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	98.12	
For 5,000 PSI Concrete Grout Fill, Add	14.67	
For Piles Driven In Water, Add	35.03	
31 62 23 13-0014 VLF 14" Diameter x 64 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	108.51	
For 5,000 PSI Concrete Grout Fill, Add	15.71	
For Piles Driven In Water, Add	36.07	
31 62 23 13-0015 VLF 14" Diameter x 72 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	118.90	
For 5,000 PSI Concrete Grout Fill, Add	16.75	
For Piles Driven In Water, Add	37.11	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0016	VLF	16" Diameter x 52 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	97.08 16.75 36.43	
31 62 23 13-0017	VLF	16" Diameter x 63 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	109.23 17.96 37.64	
31 62 23 13-0018	VLF	16" Diameter x 83 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	132.91 20.33 40.01	
31 62 23 13-0019	VLF	18" Diameter x 59 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	119.48 21.43 40.82	
31 62 23 13-0020	VLF	18" Diameter x 71 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	135.26 23.01 42.40	
31 62 23 13-0021	VLF	18" Diameter x 93 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	165.23 26.01 45.40	
31 62 23 13-0022		7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles (31 62 23 13) Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0023	VLF	12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	73.42 22.26	
31 62 23 13-0024	VLF	14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	89.15 24.90	
31 62 23 13-0025	VLF	16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	100.95 27.31	
31 62 23 13-0026	VLF	18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	109.81 29.63	
31 62 23 13-0027		Tapered Friction Concrete-Filled Driven Steel Piles (31 62 23 13) Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0028	VLF	12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	72.02 22.12	
31 62 23 13-0029	VLF	14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	73.91 23.38	
31 62 23 13-0030	VLF	16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	90.26 26.24	
31 62 23 13-0031	VLF	18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	104.16 29.06	
31 62 23 13-0032		Thin Wall Shell Straight Sided Driven Steel Piles (31 62 23 13)		
31 62 23 13-0033	VLF	8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	43.19 16.90 0.07	
31 62 23 13-0034	VLF	10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	47.69 18.76 0.08	
31 62 23 13-0035	VLF	12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	52.14 20.60 0.09	
31 62 23 13-0036	VLF	14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	56.61 22.44 0.09	
31 62 23 13-0037	VLF	16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	61.11 24.29 0.10	
31 63 Bored Piles				
31 63 36 Drilled Steel Piles				
31 63 36 00-0001		Drill Hole (31 63 36) Note: Excludes removal of excess material.		
31 63 36 00-0002		Drilling Mobilization (31 63 36 00-0001)		
31 63 36 00-0003	EA	>12" To 24" Diameter Hole, Drilling Mobilization	1,033.26	
31 63 36 00-0004	EA	>24" Diameter Hole, Drilling Mobilization	1,377.68	
31 63 36 00-0005		Drill Hole In Soil (31 63 36 00-0001)		
31 63 36 00-0006	LF	18" Diameter, Up To 24' Depth, Drilled/Augered Hole	59.46	
31 63 36 00-0007	LF	20" Diameter, Up To 24' Depth, Drilled/Augered Hole	69.14	
31 63 36 00-0008	LF	22" Diameter, Up To 24' Depth, Drilled/Augered Hole	81.24	
31 63 36 00-0009	LF	24" Diameter, Up To 24' Depth, Drilled/Augered Hole	95.76	
31 63 36 00-0010	LF	26" Diameter, Up To 24' Depth, Drilled/Augered Hole	103.51	
31 63 36 00-0011	LF	28" Diameter, Up To 24' Depth, Drilled/Augered Hole	113.88	
31 63 36 00-0012	LF	30" Diameter, Up To 24' Depth, Drilled/Augered Hole	124.74	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Bored Piles	31 63

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0013			Steel H Piles (31 63 36)		
31 63 36 00-0014			Placed In Drilled Hole, Rolled Steel H-Section Piles (31 63 36 00-0013)		
			Note: Includes guides, bracing and alignment.		
31 63 36 00-0015	VLF		8" x 8" x 36 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	33.54	
			For >2,400 To 3,600, Deduct	-1.18	
			For >3,600 To 4,800, Deduct	-2.36	
			For >4,800 To 6,000, Deduct	-4.04	
			For >6,000, Deduct	-5.72	
31 63 36 00-0016	VLF		10" x 10" x 42 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	37.53	
			For >2,400 To 3,600, Deduct	-1.30	
			For >3,600 To 4,800, Deduct	-2.60	
			For >4,800 To 6,000, Deduct	-4.47	
			For >6,000, Deduct	-6.35	
31 63 36 00-0017	VLF		10" x 10" x 57 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	45.80	
			For >2,400 To 3,600, Deduct	-1.50	
			For >3,600 To 4,800, Deduct	-3.01	
			For >4,800 To 6,000, Deduct	-5.30	
			For >6,000, Deduct	-7.59	
31 63 36 00-0018	VLF		12" x 12" x 53 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	44.02	
			For >2,400 To 3,600, Deduct	-1.47	
			For >3,600 To 4,800, Deduct	-2.94	
			For >4,800 To 6,000, Deduct	-5.14	
			For >6,000, Deduct	-7.34	
31 63 36 00-0019	VLF		12" x 12" x 63 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	49.53	
			For >2,400 To 3,600, Deduct	-1.61	
			For >3,600 To 4,800, Deduct	-3.22	
			For >4,800 To 6,000, Deduct	-5.69	
			For >6,000, Deduct	-8.17	
31 63 36 00-0020	VLF		12" x 12" x 74 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	56.84	
			For >2,400 To 3,600, Deduct	-1.82	
			For >3,600 To 4,800, Deduct	-3.64	
			For >4,800 To 6,000, Deduct	-6.49	
			For >6,000, Deduct	-9.33	
31 63 36 00-0021	VLF		12" x 12" x 84 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	62.35	
			For >2,400 To 3,600, Deduct	-1.96	
			For >3,600 To 4,800, Deduct	-3.92	
			For >4,800 To 6,000, Deduct	-7.04	
			For >6,000, Deduct	-10.15	
31 63 36 00-0022	VLF		14" x 14" x 73 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	56.68	
			For >2,400 To 3,600, Deduct	-1.83	
			For >3,600 To 4,800, Deduct	-3.66	
			For >4,800 To 6,000, Deduct	-6.49	
			For >6,000, Deduct	-9.32	
31 63 36 00-0023	VLF		14" x 14" x 89 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	66.05	
			For >2,400 To 3,600, Deduct	-2.06	
			For >3,600 To 4,800, Deduct	-4.12	
			For >4,800 To 6,000, Deduct	-7.43	
			For >6,000, Deduct	-10.73	
31 63 36 00-0024	VLF		14" x 14" x 102 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	74.05	
			For >2,400 To 3,600, Deduct	-2.30	
			For >3,600 To 4,800, Deduct	-4.59	
			For >4,800 To 6,000, Deduct	-8.30	
			For >6,000, Deduct	-12.00	
31 63 36 00-0025	VLF		14" x 14" x 117 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	82.87	
			For >2,400 To 3,600, Deduct	-2.52	
			For >3,600 To 4,800, Deduct	-5.03	
			For >4,800 To 6,000, Deduct	-9.18	
			For >6,000, Deduct	-13.32	
31 63 36 00-0026			Welded Steel Stud Pins (31 63 36 00-0013)		
			Note: Includes welding to steel piles.		
31 63 36 00-0027	EA		5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	13.85	
			For >50 To 150, Deduct	-0.63	
			For >150 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.62	
31 63 36 00-0028	EA		5/8" Diameter x 5" Long, Welded Steel Stud Pins	15.05	
			For >50 To 150, Deduct	-0.63	
			For >150 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-2.02	
			For >500, Deduct	-2.71	
31 63 36 00-0029	EA		5/8" Diameter x 7" Long, Welded Steel Stud Pins	16.21	
			For >50 To 150, Deduct	-0.63	
			For >150 To 250, Deduct	-1.36	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.80	
31 63 36 00-0030	EA		3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins	15.21	
			For >50 To 150, Deduct	-0.67	
			For >150 To 250, Deduct	-1.38	
			For >250 To 500, Deduct	-2.09	
			For >500, Deduct	-2.80	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 63 Bored Piles**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0031	EA	3/4" Diameter x 5" Long, Welded Steel Stud Pins	17.03	
		For >50 To 150, Deduct	-0.67	
		For >150 To 250, Deduct	-1.42	
		For >250 To 500, Deduct	-2.18	
		For >500, Deduct	-2.94	
31 63 36 00-0032	EA	3/4" Diameter x 7" Long, Welded Steel Stud Pins	18.31	
		For >50 To 150, Deduct	-0.67	
		For >150 To 250, Deduct	-1.46	
		For >250 To 500, Deduct	-2.25	
		For >500, Deduct	-3.04	
31 63 36 00-0033	EA	7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	16.83	
		For >50 To 150, Deduct	-0.69	
		For >150 To 250, Deduct	-1.46	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.99	
31 63 36 00-0034	EA	7/8" Diameter x 5" Long, Welded Steel Stud Pins	19.80	
		For >50 To 150, Deduct	-0.69	
		For >150 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-2.38	
		For >500, Deduct	-3.22	
31 63 36 00-0035	EA	7/8" Diameter x 7" Long, Welded Steel Stud Pins	21.25	
		For >50 To 150, Deduct	-0.69	
		For >150 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-3.33	

31 63 36 00-0036**Concrete Fill** (31 63 36)

See CSI section 03 37 16 00-0001 for pumping equipment.

31 63 36 00-0037	VLF	18" Diameter Hole Pumped Concrete Fill For Drilled Pile	41.38	
31 63 36 00-0038	VLF	20" Diameter Hole Pumped Concrete Fill For Drilled Pile	45.97	
31 63 36 00-0039	VLF	22" Diameter Hole Pumped Concrete Fill For Drilled Pile	50.57	
31 63 36 00-0040	VLF	24" Diameter Hole Pumped Concrete Fill For Drilled Pile	55.17	
31 63 36 00-0041	VLF	26" Diameter Hole Pumped Concrete Fill For Drilled Pile	59.76	
31 63 36 00-0042	VLF	28" Diameter Hole Pumped Concrete Fill For Drilled Pile	64.36	
31 63 36 00-0043	VLF	30" Diameter Hole Pumped Concrete Fill For Drilled Pile	77.01	

31 64 Caissons(31 60)**31 64 13****Box Caissons**(31 64)**31 64 13 00-0001****Caisson In Stable Ground No Casing Or Ground Water** (31 64 13)

Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.

31 64 13 00-0002**Caisson In Stable Ground** (31 64 13 00-0001)

Note: Includes 3000 PSI concrete and reinforcing.

31 64 13 00-0003	VLF	18" Diameter Caisson, No Casing Stable Ground, No Ground Water	59.44	
		Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	5.58	
		For >100' To 150' Deep, Add	14.86	
		For >150' To 200' Deep, Add	19.61	
		For Right Angle Drilling, Add	16.37	
31 64 13 00-0004	VLF	24" Diameter Caisson, No Casing Stable Ground, No Ground Water	72.97	
		Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	7.48	
		For >100' To 150' Deep, Add	18.24	
		For >150' To 200' Deep, Add	24.85	
		For Right Angle Drilling, Add	18.13	
31 64 13 00-0005	VLF	30" Diameter Caisson, No Casing Stable Ground, No Ground Water	102.08	
		Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	10.93	
		For >100' To 150' Deep, Add	25.52	
		For >150' To 200' Deep, Add	35.35	
		For Right Angle Drilling, Add	23.91	
31 64 13 00-0006	VLF	36" Diameter Caisson, No Casing Stable Ground, No Ground Water	133.81	
		Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	14.80	
		For >100' To 150' Deep, Add	33.45	
		For >150' To 200' Deep, Add	46.94	
		For Right Angle Drilling, Add	29.84	
31 64 13 00-0007	VLF	42" Diameter Caisson, No Casing Stable Ground, No Ground Water	169.73	
		Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	19.50	
		For >100' To 150' Deep, Add	42.43	
		For >150' To 200' Deep, Add	60.44	
		For Right Angle Drilling, Add	35.59	
31 64 13 00-0008	VLF	48" Diameter Caisson No Casing Stable Ground, No Ground Water	202.76	
		Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	23.74	
		For >100' To 150' Deep, Add	50.69	
		For >150' To 200' Deep, Add	72.76	
		For Right Angle Drilling, Add	41.13	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Caissons	31 64

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0009	VLF	54" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	242.51 29.33 60.63 88.20 46.26	
31 64 13 00-0010	VLF	60" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	282.78 35.00 70.70 103.85 51.45	
31 64 13 00-0011	VLF	66" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.88 CY Concrete per VLF, 113 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	328.49 41.40 82.12 121.55 57.46	
31 64 13 00-0012	VLF	72" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	380.95 48.80 95.24 141.95 64.16	
31 64 13 00-0013	VLF	78" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	432.73 56.27 108.18 162.29 70.27	
31 64 13 00-0014	VLF	84" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	487.83 64.28 121.96 184.01 76.59	
31 64 13 00-0015 For Bell Excavation And Concrete, Add (31 64 13 00-0001)				
31 64 13 00-0016	EA	Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	471.18 37.31 117.80 146.77	
31 64 13 00-0017	EA	Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	1,655.82 131.31 413.96 515.99	
31 64 13 00-0018	EA	Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	2,495.44 200.58 623.86 781.01	
31 64 13 00-0019	EA	Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	3,462.35 278.77 865.59 1,084.22	
31 64 13 00-0020	EA	Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	4,717.86 374.04 1,179.47 1,470.09	
31 64 13 00-0021	EA	Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	5,548.06 439.69 1,387.02 1,728.58	
31 64 13 00-0022	EA	Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	9,413.66 744.77 2,353.42 2,931.36	
31 64 13 00-0023	EA	Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	13,579.84 1,083.72 3,394.96 4,240.36	
31 64 13 00-0024		Caisson In Wet Ground, Casing Pulled (31 64 13) Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0025		Caisson In Wet Ground (31 64 13 00-0024) Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0026	VLF	18" Diameter Caisson Wet Ground, Casing Pulled Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	66.20 6.05 16.55 21.63 18.76	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0027	VLF	24" Diameter Caisson Wet Ground, Casing Pulled.....	110.54	
		Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	10.11	
		For >100' To 150' Deep, Add	27.64	
		For >150' To 200' Deep, Add	36.12	
		For Right Angle Drilling, Add	31.28	
31 64 13 00-0028	VLF	30" Diameter Caisson Wet Ground, Casing Pulled.....	144.38	
		Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	13.89	
		For >100' To 150' Deep, Add	36.10	
		For >150' To 200' Deep, Add	48.04	
		For Right Angle Drilling, Add	38.72	
31 64 13 00-0029	VLF	36" Diameter Caisson Wet Ground, Casing Pulled.....	197.44	
		Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	19.26	
		For >100' To 150' Deep, Add	49.36	
		For >150' To 200' Deep, Add	66.03	
		For Right Angle Drilling, Add	52.11	
31 64 13 00-0030	VLF	42" Diameter Caisson Wet Ground, Casing Pulled.....	248.27	
		Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	25.00	
		For >100' To 150' Deep, Add	62.07	
		For >150' To 200' Deep, Add	84.01	
		For Right Angle Drilling, Add	63.08	
31 64 13 00-0031	VLF	48" Diameter Caisson Wet Ground, Casing Pulled.....	295.91	
		Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	30.26	
		For >100' To 150' Deep, Add	73.98	
		For >150' To 200' Deep, Add	100.71	
		For Right Angle Drilling, Add	73.73	
31 64 13 00-0032	VLF	54" Diameter Caisson Wet Ground, Casing Pulled.....	382.07	
		Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	39.10	
		For >100' To 150' Deep, Add	95.52	
		For >150' To 200' Deep, Add	130.07	
		For Right Angle Drilling, Add	95.10	
31 64 13 00-0033	VLF	60" Diameter Caisson Wet Ground, Casing Pulled.....	467.55	
		Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	47.94	
		For >100' To 150' Deep, Add	116.89	
		For >150' To 200' Deep, Add	159.28	
		For Right Angle Drilling, Add	116.12	
31 64 13 00-0034	VLF	66" Diameter Caisson Wet Ground, Casing Pulled.....	530.60	
		Note: 0.87 CY Concrete per VLF, 113 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	55.54	
		For >100' To 150' Deep, Add	132.65	
		For >150' To 200' Deep, Add	182.18	
		For Right Angle Drilling, Add	128.20	
31 64 13 00-0035	VLF	72" Diameter Caisson Wet Ground, Casing Pulled.....	600.38	
		Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	64.16	
		For >100' To 150' Deep, Add	150.10	
		For >150' To 200' Deep, Add	207.78	
		For Right Angle Drilling, Add	140.96	
31 64 13 00-0036	VLF	78" Diameter Caisson Wet Ground, Casing Pulled.....	680.81	
		Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	73.64	
		For >100' To 150' Deep, Add	170.20	
		For >150' To 200' Deep, Add	236.72	
		For Right Angle Drilling, Add	157.10	
31 64 13 00-0037	VLF	84" Diameter Caisson Wet Ground, Casing Pulled.....	765.05	
		Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	83.68	
		For >100' To 150' Deep, Add	191.26	
		For >150' To 200' Deep, Add	267.18	
		For Right Angle Drilling, Add	173.61	
31 64 13 00-0038		For Bell Excavation And Concrete, Add (31 64 13 00-0024)		
31 64 13 00-0039	EA	Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY.....	544.57	
		For >50' To 100' Deep, Add	42.45	
		For >100' To 150' Deep, Add	136.14	
		For >150' To 200' Deep, Add	168.78	
31 64 13 00-0040	EA	Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY.....	1,896.11	
		For >50' To 100' Deep, Add	148.13	
		For >100' To 150' Deep, Add	474.03	
		For >150' To 200' Deep, Add	588.08	
31 64 13 00-0041	EA	Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY.....	2,645.30	
		For >50' To 100' Deep, Add	195.04	
		For >100' To 150' Deep, Add	661.33	
		For >150' To 200' Deep, Add	805.92	
31 64 13 00-0042	EA	Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY.....	4,156.63	
		For >50' To 100' Deep, Add	327.37	
		For >100' To 150' Deep, Add	1,039.16	
		For >150' To 200' Deep, Add	1,292.50	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Caissons	31 64

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
31 64 13 00-0043	EA Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY.....	5,402.69		
	For >50' To 100' Deep, Add	421.98		
	For >100' To 150' Deep, Add	1,350.67		
	For >150' To 200' Deep, Add	1,675.54		
31 64 13 00-0044	EA Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY.....	6,353.74		
	For >50' To 100' Deep, Add	496.09		
	For >100' To 150' Deep, Add	1,588.44		
	For >150' To 200' Deep, Add	1,970.28		
31 64 13 00-0045	EA Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY.....	10,783.32		
	For >50' To 100' Deep, Add	840.64		
	For >100' To 150' Deep, Add	2,695.83		
	For >150' To 200' Deep, Add	3,342.26		
31 64 13 00-0046	EA Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY.....	15,536.49		
	For >50' To 100' Deep, Add	1,220.68		
	For >100' To 150' Deep, Add	3,884.12		
	For >150' To 200' Deep, Add	4,827.36		
31 64 13 00-0047	Caisson In Soft Rock And Medium Hard Shale ^(31 64 13)			
	Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.			
31 64 13 00-0048	Caisson In Soft Rock ^(31 64 13 00-0047)			
	Note: Includes 3000 PSI concrete and reinforcing.			
31 64 13 00-0049	VLF 18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	266.68		
	Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF.			
	For >50' To 100' Deep, Add	20.08		
	For >100' To 150' Deep, Add	66.67		
	For >150' To 200' Deep, Add	81.77		
	For Right Angle Drilling, Add	88.93		
31 64 13 00-0050	VLF 24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	444.74		
	Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF.			
	For >50' To 100' Deep, Add	33.50		
	For >100' To 150' Deep, Add	111.19		
	For >150' To 200' Deep, Add	136.38		
	For Right Angle Drilling, Add	148.25		
31 64 13 00-0051	VLF 30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	669.86		
	Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF.			
	For >50' To 100' Deep, Add	50.67		
	For >100' To 150' Deep, Add	167.47		
	For >150' To 200' Deep, Add	205.69		
	For Right Angle Drilling, Add	222.63		
31 64 13 00-0052	VLF 36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	854.40		
	Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF.			
	For >50' To 100' Deep, Add	65.25		
	For >100' To 150' Deep, Add	213.60		
	For >150' To 200' Deep, Add	263.12		
	For Right Angle Drilling, Add	282.05		
31 64 13 00-0053	VLF 42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,096.66		
	Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF.			
	For >50' To 100' Deep, Add	84.39		
	For >100' To 150' Deep, Add	274.17		
	For >150' To 200' Deep, Add	338.52		
	For Right Angle Drilling, Add	360.02		
31 64 13 00-0054	VLF 48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,321.04		
	Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF.			
	For >50' To 100' Deep, Add	102.02		
	For >100' To 150' Deep, Add	330.26		
	For >150' To 200' Deep, Add	408.25		
	For Right Angle Drilling, Add	432.53		
31 64 13 00-0055	VLF 54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,614.12		
	Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF.			
	For >50' To 100' Deep, Add	125.35		
	For >100' To 150' Deep, Add	403.53		
	For >150' To 200' Deep, Add	499.68		
	For Right Angle Drilling, Add	526.32		
31 64 13 00-0056	VLF 60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,906.78		
	Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF.			
	For >50' To 100' Deep, Add	148.68		
	For >100' To 150' Deep, Add	476.70		
	For >150' To 200' Deep, Add	591.05		
	For Right Angle Drilling, Add	619.85		
31 64 13 00-0057	VLF 66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,090.25		
	Note: 0.88 CY Concrete per VLF, 113 Lb. rebar per VLF.			
	For >50' To 100' Deep, Add	164.72		
	For >100' To 150' Deep, Add	522.56		
	For >150' To 200' Deep, Add	650.08		
	For Right Angle Drilling, Add	674.08		
31 64 13 00-0058	VLF 72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,279.52		
	Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF.			
	For >50' To 100' Deep, Add	181.70		
	For >100' To 150' Deep, Add	569.88		
	For >150' To 200' Deep, Add	711.53		
	For Right Angle Drilling, Add	728.66		

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0059	VLF	78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	2,327.57 188.91 581.89 730.75 733.46	
31 64 13 00-0060	VLF	84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	2,781.53 224.84 695.38 872.12 879.38	
31 64 13 00-0061 For Bell Excavation And Concrete, Add (31 64 13 00-0047)				
31 64 13 00-0062	EA	Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	945.02 70.48 236.26 288.92	
31 64 13 00-0063	EA	Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	3,324.95 248.14 831.24 1,016.73	
31 64 13 00-0064	EA	Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	4,972.63 373.99 1,243.16 1,524.17	
31 64 13 00-0065	EA	Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	7,081.52 532.12 1,770.38 2,169.97	
31 64 13 00-0066	EA	Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	9,375.24 700.05 2,343.81 2,867.31	
31 64 13 00-0067	EA	Bell Excavation And Concrete, 10' Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	11,431.22 851.51 2,857.81 3,493.52	
31 64 13 00-0068	EA	Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	17,257.10 1,293.81 4,314.28 5,284.40	
31 64 13 00-0069	EA	Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	25,940.78 1,948.98 6,485.20 7,948.65	
31 64 13 00-0070 Set-up And Removal Of Caisson (31 64 13)				
Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.				
31 64 13 00-0071	EA	Erect, Set-up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete.....	3,913.21	
31 64 13 00-0072	EA	Erect, Set-up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete.....	5,462.47	
31 64 13 00-0073	EA	Dismantle, Relocate, Erect And Set-up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter.....	1,864.79	
31 64 13 00-0074	EA	Dismantle, Relocate, Erect And Set-up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter.....	2,486.38	
31 64 13 00-0075	EA	Relocate Caisson Equipment To Different Hole On-Site Without Dismantling.....	155.40	
31 66 Special Foundation (31 60)				
31 66 15 Helical Foundation Piles (31 66)				
31 66 15 00-0001 Helical Pier Restoration (Atlas) (31 66 15)				
31 66 15 00-0002	EA	Structural Steel Piers (Atlas Pier System Or Equal)..... Note: Includes heavy-duty bracket, pier platform, and 14' of 3.5" diameter pier sections, non-corrosive coating, hydraulic lifting, fasteners, and other related activities and materials. Excludes excavation and core drilling	3,588.76	
31 66 15 00-0003	EA	Pressure Injecting Grout For Slab Repairs, Per Location Note: Includes preparation, installing and removing grout injection pipes, and finishing. Excludes grout and core drilling.	482.01	
31 66 15 00-0004	CY	Pressure Injected Non-Shrink Grout.....	493.47	
31 68 Foundation Anchors (31 60)				
31 68 13 Rock Foundation Anchors (31 68)				
31 68 13 00-0001		Materials And Placement (31 68 13)		
31 68 13 00-0002		Hollow Core Prestressable Anchor, ASTM A615 (31 68 13 00-0001) Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		



Earthwork		31	31
Special Foundations and Load-bearing Elements		31 60	
Foundation Anchors		31 68	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0003		3/4" Diameter (31 68 13 00-0002)		
31 68 13 00-0004	EA	3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	253.66	
31 68 13 00-0005	EA	3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	369.83	
31 68 13 00-0006	EA	3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	458.13	
31 68 13 00-0007	EA	3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	596.17	
31 68 13 00-0008		1" Diameter (31 68 13 00-0002)		
31 68 13 00-0009	EA	1" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	329.13	
31 68 13 00-0010	EA	1" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	512.95	
31 68 13 00-0011	EA	1" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	672.91	
31 68 13 00-0012	EA	1" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	880.64	
31 68 13 00-0013		1-3/8" Diameter (31 68 13 00-0002)		
31 68 13 00-0014	EA	1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	561.85	
31 68 13 00-0015	EA	1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	879.11	
31 68 13 00-0016	EA	1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	1,172.55	
31 68 13 00-0017	EA	1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	1,513.69	
31 68 13 00-0018		2" Diameter (31 68 13 00-0002)		
31 68 13 00-0019	EA	2" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	1,269.59	
31 68 13 00-0020	EA	2" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	1,891.66	
31 68 13 00-0021	EA	2" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	2,489.77	
31 68 13 00-0022	EA	2" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	3,135.71	
31 68 13 00-0023		Super High-Tensile Anchors, ASTM A-108 (31 68 13 00-0001)		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.				
31 68 13 00-0024		3/4" Diameter (31 68 13 00-0023)		
31 68 13 00-0025	EA	3/4" Rock Bolt, 5' Super High-Tensile Anchor.....	177.29	
31 68 13 00-0026	EA	3/4" Rock Bolt, 10' Super High-Tensile Anchor.....	236.55	
31 68 13 00-0027	EA	3/4" Rock Bolt, 15' Super High-Tensile Anchor.....	271.81	
31 68 13 00-0028	EA	3/4" Rock Bolt, 20' Super High-Tensile Anchor.....	352.28	
31 68 13 00-0029		1" Diameter (31 68 13 00-0023)		
31 68 13 00-0030	EA	1" Rock Bolt, 5' Super High-Tensile Anchor.....	216.47	
31 68 13 00-0031	EA	1" Rock Bolt, 10' Super High-Tensile Anchor.....	302.55	
31 68 13 00-0032	EA	1" Rock Bolt, 15' Super High-Tensile Anchor.....	361.61	
31 68 13 00-0033	EA	1" Rock Bolt, 20' Super High-Tensile Anchor.....	468.41	
31 68 13 00-0034		1-1/4" Diameter (31 68 13 00-0023)		
31 68 13 00-0035	EA	1-1/4" Rock Bolt, 5' Super High-Tensile Anchor.....	331.52	
31 68 13 00-0036	EA	1-1/4" Rock Bolt, 10' Super High-Tensile Anchor.....	467.47	
31 68 13 00-0037	EA	1-1/4" Rock Bolt, 15' Super High-Tensile Anchor.....	578.82	
31 68 13 00-0038	EA	1-1/4" Rock Bolt, 20' Super High-Tensile Anchor.....	733.27	
31 68 13 00-0039		2" Diameter (31 68 13 00-0023)		
31 68 13 00-0040	EA	2" Rock Bolt, 5' Super High-Tensile Anchor.....	917.14	
31 68 13 00-0041	EA	2" Rock Bolt, 10' Super High-Tensile Anchor.....	1,306.27	
31 68 13 00-0042	EA	2" Rock Bolt, 15' Super High-Tensile Anchor.....	1,603.27	
31 68 13 00-0043	EA	2" Rock Bolt, 20' Super High-Tensile Anchor.....	1,966.00	
31 68 13 00-0044		Solid Rebar Anchors, ASTM A615 (31 68 13 00-0001)		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.				
31 68 13 00-0045		3/4" Diameter (31 68 13 00-0044)		
31 68 13 00-0046	EA	3/4" Rock Bolt, 5' Solid Rebar Anchor.....	164.72	
31 68 13 00-0047	EA	3/4" Rock Bolt, 10' Solid Rebar Anchor.....	209.95	
31 68 13 00-0048	EA	3/4" Rock Bolt, 15' Solid Rebar Anchor.....	231.28	
31 68 13 00-0049	EA	3/4" Rock Bolt, 20' Solid Rebar Anchor.....	300.39	
31 68 13 00-0050		1" Diameter (31 68 13 00-0044)		
31 68 13 00-0051	EA	1" Rock Bolt, 5' Solid Rebar Anchor.....	188.92	
31 68 13 00-0052	EA	1" Rock Bolt, 10' Solid Rebar Anchor.....	249.99	
31 68 13 00-0053	EA	1" Rock Bolt, 15' Solid Rebar Anchor.....	287.23	
31 68 13 00-0054	EA	1" Rock Bolt, 20' Solid Rebar Anchor.....	372.11	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0055		1-1/4" Diameter (31 68 13 00-0044)		
31 68 13 00-0056	EA	1-1/4" Rock Bolt, 5' Solid Rebar Anchor	285.76	
31 68 13 00-0057	EA	1-1/4" Rock Bolt, 10' Solid Rebar Anchor	367.74	
31 68 13 00-0058	EA	1-1/4" Rock Bolt, 15' Solid Rebar Anchor	425.99	
31 68 13 00-0059	EA	1-1/4" Rock Bolt, 20' Solid Rebar Anchor	531.93	
31 68 13 00-0060		Resin Anchoring With Grade 60 Rebar (31 68 13 00-0001)		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.				
31 68 13 00-0061		Rebar #6 (31 68 13 00-0060)		
31 68 13 00-0062	EA	#6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar	79.73	
31 68 13 00-0063	EA	#6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar	111.72	
31 68 13 00-0064	EA	#6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar	119.83	
31 68 13 00-0065	EA	#6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	159.46	
31 68 13 00-0066		Rebar #8 (31 68 13 00-0060)		
31 68 13 00-0067	EA	#8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	86.05	
31 68 13 00-0068	EA	#8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	124.34	
31 68 13 00-0069	EA	#8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	138.77	
31 68 13 00-0070	EA	#8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	200.94	
31 68 13 00-0071		Rebar #10 (31 68 13 00-0060)		
31 68 13 00-0072	EA	#10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	95.06	
31 68 13 00-0073	EA	#10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	142.38	
31 68 13 00-0074	EA	#10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	165.82	
31 68 13 00-0075	EA	#10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	237.00	
31 68 13 00-0076		Rebar #14 (31 68 13 00-0060)		
31 68 13 00-0077	EA	#14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	116.70	
31 68 13 00-0078	EA	#14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	185.65	
31 68 13 00-0079	EA	#14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	230.74	
31 68 13 00-0080	EA	#14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	323.56	
31 68 13 00-0081		Plastic Rebar Collars, Sizes #6-#14 (31 68 13 00-0060)		
31 68 13 00-0082	EA	Plastic Rebar Collars For Rebar #4 To #14	2.56	
31 68 13 00-0083		12" Long Resin Cartridges (31 68 13 00-0001)		
31 68 13 00-0084	EA	7/8" Resin Cartridge 12" Long	3.28	
31 68 13 00-0085	EA	1" Resin Cartridge 12" Long	4.50	
31 68 13 00-0086	EA	1-1/16" Resin Cartridge 12" Long	4.82	
31 68 13 00-0087	EA	1-1/4" Resin Cartridge 12" Long	5.21	
31 68 13 00-0088	EA	1-3/8" Resin Cartridge 12" Long	5.98	
31 68 13 00-0089	EA	1-9/16" Resin Cartridge 12" Long	7.49	
31 68 13 00-0090	EA	1-3/4" Resin Cartridge 12" Long	10.29	
31 68 13 00-0091		Head Assembly (31 68 13 00-0001)		
31 68 13 00-0092		3/4" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0093	EA	3/4" Rod Head Assembly 1-5/8" Short Cone and Shell	39.45	
31 68 13 00-0094	EA	3/4" Rod Head Assembly 1-3/4" Short Cone and Shell	33.23	
31 68 13 00-0095	EA	3/4" Rod Head Assembly 1-7/8" Short Cone and Shell	34.85	
31 68 13 00-0096	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	62.57	
31 68 13 00-0097	EA	3/4" Rod Head Assembly 1-7/8" Long Cone and Shell	62.57	
31 68 13 00-0098	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	59.28	
31 68 13 00-0099		1" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0100	EA	1" Rod Head Assembly 1-5/8" Short Cone and Shell	42.51	
31 68 13 00-0101	EA	1" Rod Head Assembly 1-3/4" Short Cone and Shell	36.38	
31 68 13 00-0102	EA	1" Rod Head Assembly 1-7/8" Short Cone and Shell	38.00	
31 68 13 00-0103	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell	65.82	
31 68 13 00-0104	EA	1" Rod Head Assembly 1-7/8" Long Cone and Shell	65.82	
31 68 13 00-0105	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell	62.75	
31 68 13 00-0106		1-1/4" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0107	EA	1-1/4" Rod Head Assembly 2" Short Cone and Shell	94.85	
31 68 13 00-0108	EA	1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell	110.81	
31 68 13 00-0109	EA	1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell	112.39	
31 68 13 00-0110	EA	1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell	99.68	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Foundation Anchors	31 68

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0111	EA	1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell.....	116.22	
31 68 13 00-0112		1-7/8" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0113	EA	1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/FI.....	373.33	
31 68 13 00-0114	EA	1-7/8" Rod Head Assembly 3" Long Cone and Shell.....	257.38	
31 68 13 00-0115		2" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0116	EA	2" Rod Head Assembly 3-1/2" Long Cone/Shell/FI.....	373.33	
31 68 13 00-0117	EA	2" Rod Head Assembly 3" Long Cone and Shell.....	257.38	
31 68 13 00-0118		Steel Plates With Standard Hole And Washers (31 68 13 00-0001)		
31 68 13 00-0119		Steel Plates (31 68 13 00-0118)		
31 68 13 00-0120	EA	1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer.....	3.42	
31 68 13 00-0121	EA	1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer.....	6.31	
31 68 13 00-0122	EA	3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer.....	8.79	
31 68 13 00-0123	EA	3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	15.41	
31 68 13 00-0124	EA	1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer.....	5.99	
31 68 13 00-0125	EA	1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	15.72	
31 68 13 00-0126	EA	3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer.....	26.09	
31 68 13 00-0127	EA	3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	36.97	
31 68 13 00-0128	EA	1" x 4" x 7" Steel Plate For Rock Bolt With Washer.....	22.19	
31 68 13 00-0129	EA	1" x 9" x 9" Steel Plate For Rock Bolt With Washer.....	62.77	
31 68 13 00-0130	EA	1" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	92.50	
31 68 13 00-0131	EA	1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer.....	40.61	
31 68 13 00-0132	EA	1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer.....	109.83	
31 68 13 00-0133	EA	1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer.....	54.92	
31 68 13 00-0134	EA	1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	132.10	
31 68 13 00-0135	EA	1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer.....	60.62	
31 68 13 00-0136	EA	1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	146.51	
31 68 13 00-0137		Hardened Washers (31 68 13 00-0118)		
31 68 13 00-0138	EA	Hardened Washer For 3/4" Diameter Rock Bolt.....	1.31	
31 68 13 00-0139	EA	Hardened Washer For 1" Diameter Rock Bolt.....	1.80	
31 68 13 00-0140	EA	Hardened Washer For 1-1/4" Diameter Rock Bolt.....	5.05	
31 68 13 00-0141	EA	Hardened Washer For 2" Diameter Rock Bolt.....	12.58	
31 68 13 00-0142		Beveled Washers (31 68 13 00-0118)		
31 68 13 00-0143	EA	Beveled Washer For 3/4" Diameter Rock Bolt.....	3.29	
31 68 13 00-0144	EA	Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt.....	3.25	
31 68 13 00-0145	EA	Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt.....	4.91	
31 68 13 00-0146	EA	Beveled Washer For 1-1/2" Diameter Rock Bolt.....	21.01	
31 68 13 00-0147	EA	Beveled Washer For 2" Diameter Rock Bolt.....	14.52	
31 68 13 00-0148		Hex Nuts (31 68 13 00-0118)		
31 68 13 00-0149	EA	Hex Nut For 3/4" Diameter Rock Bolt.....	2.57	
31 68 13 00-0150	EA	Hex Nut For 1" Diameter Rock Bolt.....	4.19	
31 68 13 00-0151	EA	Hex Nut For 1-1/4" Diameter Rock Bolt.....	17.18	
31 68 13 00-0152	EA	Hex Nut For 1-1/2" Diameter Rock Bolt.....	10.82	
31 68 13 00-0153	EA	Hex Nut For 2" Diameter Rock Bolt.....	69.02	
31 68 13 00-0154		Drilling Operation For Rock Bolts (31 68 13)		
31 68 13 00-0155		Drill Holes For Rock Bolts (31 68 13 00-0154)		
31 68 13 00-0156		3/4" Diameter Bolt, 1-3/4" Hole (31 68 13 00-0155)		
31 68 13 00-0157	EA	Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts.....	209.12	
31 68 13 00-0158	EA	Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts.....	395.00	
31 68 13 00-0159	EA	Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts.....	592.50	
31 68 13 00-0160	EA	Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts.....	710.99	
31 68 13 00-0161		1" Diameter Bolt, 2" Hole (31 68 13 00-0155)		
31 68 13 00-0162	EA	Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt.....	273.46	
31 68 13 00-0163	EA	Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt.....	507.86	
31 68 13 00-0164	EA	Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt.....	710.99	
31 68 13 00-0165	EA	Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt.....	888.74	
31 68 13 00-0166		1-1/4" Diameter Bolt, 2-1/4" Hole (31 68 13 00-0155)		
31 68 13 00-0167	EA	Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt.....	296.24	
31 68 13 00-0168	EA	Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt.....	592.50	
31 68 13 00-0169	EA	Drill 2-1/4" Diameter Hole x 15' Long For 1-1/4" Diameter Rock Bolt.....	888.74	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0170	EA	Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt	1,184.99	
31 68 13 00-0171		2" Diameter Bolt, 3-1/2" Hole (31 68 13 00-0155)		
31 68 13 00-0172	EA	Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt	355.49	
31 68 13 00-0173	EA	Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt	710.99	
31 68 13 00-0174	EA	Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts	1,184.99	
31 68 13 00-0175	EA	Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt	1,777.49	
31 68 13 00-0176		Tools (31 68 13)		
31 68 13 00-0177		Hydraulic Jacks, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0178	EA	1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke	773.17	
31 68 13 00-0179	EA	1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke	1,139.41	
31 68 13 00-0180	EA	1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	1,911.49	
31 68 13 00-0181	EA	1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	2,861.75	
31 68 13 00-0182	EA	1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke	4,277.79	
31 68 13 00-0183		Torque Wrenches And Ratchet Adapter, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0184		0-500 Foot Pounds (0-678J) (31 68 13 00-0183)		
31 68 13 00-0185	EA	1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental	270.56	
31 68 13 00-0186	EA	Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds	169.59	
31 68 13 00-0187	EA	Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental	440.48	
31 68 13 00-0188		0-600 Foot Pounds (0-814J) (31 68 13 00-0183)		
31 68 13 00-0189	EA	0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental	307.18	
31 68 13 00-0190		Up To 1,000 Foot Pounds (0-1356J) (31 68 13 00-0183)		
31 68 13 00-0191	EA	1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental	589.95	
31 68 13 00-0192	EA	Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental	145.51	
31 68 13 00-0193	EA	Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental	735.46	
31 68 13 00-0194		Torque Multiplier, 4:1 Multiplier (31 68 13 00-0176)		
31 68 13 00-0195	EA	Torque Multiplier, 4 To 1 Ratio	755.58	
31 68 13 00-0196		Pneumatic Drive Torque Wrench (31 68 13 00-0176)		
31 68 13 00-0197	EA	Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J)	1,616.75	
31 68 13 00-0198		Grouting (31 68 13)		
31 68 13 00-0199		Grouting With Pumps (31 68 13 00-0198)		
		Note: Grout material and labor only.		
31 68 13 00-0200	GAL	Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery	22.70	
31 68 13 00-0201	GAL	Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery	34.37	
31 68 13 00-0202	GAL	Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery	31.86	
31 68 13 00-0203		Grout Pumps, Monthly Rental (31 68 13 00-0198)		
31 68 13 00-0204	EA	Hand Grout Pump, Monthly Rental	163.34	
31 68 13 00-0205	EA	Air Powered Programmable Feed Grout Pump Monthly Rental	1,374.03	
31 68 13 00-0206	EA	Air Powered, Piston Drive Grout Pump Monthly Rental	2,398.94	
31 68 13 00-0207		Rock Bolt Testing (31 68 13)		
31 68 13 00-0208	EA	Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing	638.29	

END OF SECTION 31



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Paving Cleaning		32 01 11

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 Exterior Improvements

32 01 Operation and Maintenance of Exterior Improvements ⁽³²⁾

32 01 11 Paving Cleaning ^(32 01)

32 01 11 53 Paint Removal from Paving ^(32 01 11)

32 01 11 53-0001 Remove Painted Or Epoxy Pavement Markings ^(32 01 11 53)

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping	2.59
		For Up To 250, Add	1.30
		For >250 To 1,000, Add	0.65
		For >5,000 To 10,000, Deduct	-0.39
		For >10,000 To 25,000, Deduct	-0.65
		For >25,000 To 50,000, Deduct	-0.91
		For >50,000, Deduct	-1.04
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping	3.12
		For Up To 250, Add	1.56
		For >250 To 1,000, Add	0.78
		For >5,000 To 10,000, Deduct	-0.47
		For >10,000 To 25,000, Deduct	-0.78
		For >25,000 To 50,000, Deduct	-1.09
		For >50,000, Deduct	-1.25
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping	3.73
		For Up To 250, Add	1.87
		For >250 To 1,000, Add	0.93
		For >5,000 To 10,000, Deduct	-0.56
		For >10,000 To 25,000, Deduct	-0.93
		For >25,000 To 50,000, Deduct	-1.31
		For >50,000, Deduct	-1.49
32 01 11 53-0005	LF	Removal Of 10" Wide Painted Or Epoxy Pavement Striping	3.56
		For Up To 250, Add	1.78
		For >250 To 1,000, Add	0.89
		For >5,000 To 10,000, Deduct	-0.53
		For >10,000 To 25,000, Deduct	-0.89
		For >25,000 To 50,000, Deduct	-1.25
		For >50,000, Deduct	-1.42
32 01 11 53-0006	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping	4.47
		For Up To 250, Add	2.24
		For >250 To 1,000, Add	1.12
		For >5,000 To 10,000, Deduct	-0.67
		For >10,000 To 25,000, Deduct	-1.12
		For >25,000 To 50,000, Deduct	-1.56
		For >50,000, Deduct	-1.79
32 01 11 53-0007	LF	Remove Paint From Curb	8.31
32 01 11 53-0008	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols	4.47
		For Up To 250, Add	2.24
		For >250 To 1,000, Add	1.12
		For >5,000 To 10,000, Deduct	-0.67
		For >10,000 To 25,000, Deduct	-1.12
		For >25,000 To 50,000, Deduct	-1.56
		For >50,000, Deduct	-1.79

32 01 11 53-0009 Remove Thermoplastic Pavement Markings ^(32 01 11 53)

32 01 11 53-0010	LF	Removal Of 4" Wide Thermoplastic Pavement Striping	3.33
		For Up To 250, Add	1.67
		For >250 To 1,000, Add	0.83
		For >5,000 To 10,000, Deduct	-0.50
		For >10,000 To 25,000, Deduct	-0.83
		For >25,000 To 50,000, Deduct	-1.17
		For >50,000, Deduct	-1.33
32 01 11 53-0011	LF	Removal Of 6" Wide Thermoplastic Pavement Striping	3.94
		For Up To 250, Add	1.97
		For >250 To 1,000, Add	0.99
		For >5,000 To 10,000, Deduct	-0.59
		For >10,000 To 25,000, Deduct	-0.99
		For >25,000 To 50,000, Deduct	-1.38
		For >50,000, Deduct	-1.58
32 01 11 53-0012	LF	Removal Of 8" Wide Thermoplastic Pavement Striping	4.75
		For Up To 250, Add	2.38
		For >250 To 1,000, Add	1.19
		For >5,000 To 10,000, Deduct	-0.71
		For >10,000 To 25,000, Deduct	-1.19
		For >25,000 To 50,000, Deduct	-1.66
		For >50,000, Deduct	-1.90

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 11 Paving Cleaning**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 11 53-0013 LF Removal Of 10" Wide Thermoplastic Pavement Striping.....	4.54	
For Up To 250, Add	2.27	
For >250 To 1,000, Add	1.14	
For >5,000 To 10,000, Deduct	-0.68	
For >10,000 To 25,000, Deduct	-1.14	
For >25,000 To 50,000, Deduct	-1.59	
For >50,000, Deduct	-1.82	
32 01 11 53-0014 LF Removal Of 12" Wide Thermoplastic Pavement Striping.....	5.69	
For Up To 250, Add	2.85	
For >250 To 1,000, Add	1.42	
For >5,000 To 10,000, Deduct	-0.85	
For >10,000 To 25,000, Deduct	-1.42	
For >25,000 To 50,000, Deduct	-1.99	
For >50,000, Deduct	-2.28	
32 01 11 53-0015 SF Removal Of Thermoplastic Pavement Marking, Letters Or Symbols.....	5.69	
For Up To 250, Add	2.85	
For >250 To 1,000, Add	1.42	
For >5,000 To 10,000, Deduct	-0.85	
For >10,000 To 25,000, Deduct	-1.42	
For >25,000 To 50,000, Deduct	-1.99	
For >50,000, Deduct	-2.28	

32 01 13 Flexible Paving Surface Treatment (32 01)**32 01 13 61 Slurry Seal (Latex Modified)** (32 01 13)**32 01 13 61-0001 Asphalt Seal Coating, For Roads And Parking Lot** (32 01 13 61)

Note: Includes sweeping and cleaning of area.

32 01 13 61-0002 EA Minimum Charge For Asphalt Seal Coating.....	930.01	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
32 01 13 61-0003 SY Up To 500 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	3.52	
32 01 13 61-0004 SY >500 To 1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	3.25	
32 01 13 61-0005 SY >1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	3.05	
32 01 13 61-0006 SY Up To 500 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.69	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.47	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0007 SY >500 To 1,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.48	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.46	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0008 SY >1,000 To 5,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.32	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.45	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0009 SY >5,000 To 20,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.18	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.44	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0010 SY >20,000 To 50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.18	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.44	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0011 SY >50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	2.91	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.27	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.33	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.43	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0012 SY Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.99	
Note: 1/4" thick, 14 to 18 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.34	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.40	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.50	
For Each 0.5% Of Latex Addition, Add	0.49	
32 01 13 61-0013 SY >500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.66	
Note: 1/4" thick, 14 to 18 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.32	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.38	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.48	
For Each 0.5% Of Latex Addition, Add	0.49	



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Flexible Paving Surface Treatment		32 01 13

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0014 SY >1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.41	
Note: 1/4" thick, 14 to 18 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.47	
For Each 0.5% Of Latex Addition, Add	0.49	
32 01 13 61-0015 SY >5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.19	
Note: 1/4" thick, 14 to 18 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.46	
For Each 0.5% Of Latex Addition, Add	0.49	
32 01 13 61-0016 SY >20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	3.98	
Note: 1/4" thick, 14 to 18 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.44	
For Each 0.5% Of Latex Addition, Add	0.49	
32 01 13 61-0017 SY >50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	3.77	
Note: 1/4" thick, 14 to 18 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.27	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.33	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.43	
For Each 0.5% Of Latex Addition, Add	0.49	
32 01 13 61-0018 SY Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	6.31	
Note: 3/8" thick, 25 to 30 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.35	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.41	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.51	
For Each 0.5% Of Latex Addition, Add	0.80	
32 01 13 61-0019 SY >500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.96	
Note: 3/8" thick, 25 to 30 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.33	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.39	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.49	
For Each 0.5% Of Latex Addition, Add	0.80	
32 01 13 61-0020 SY >1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.69	
Note: 3/8" thick, 25 to 30 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.47	
For Each 0.5% Of Latex Addition, Add	0.80	
32 01 13 61-0021 SY >5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.45	
Note: 3/8" thick, 25 to 30 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.46	
For Each 0.5% Of Latex Addition, Add	0.80	
32 01 13 61-0022 SY >20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.21	
Note: 3/8" thick, 25 to 30 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.45	
For Each 0.5% Of Latex Addition, Add	0.80	
32 01 13 61-0023 SY >50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.00	
Note: 3/8" thick, 25 to 30 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.44	
For Each 0.5% Of Latex Addition, Add	0.80	

32 01 13 62 Asphalt Surface Treatment (32 01 13)

32 01 13 62-0001	Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing)	(32 01 13 62)
Note: Use a blend of emulsified quickset polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.		
32 01 13 62-0002 SY Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	11.36	
32 01 13 62-0003 SY Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	10.82	
32 01 13 62-0004 SY >500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	10.35	
32 01 13 62-0005 SY >1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	9.95	
32 01 13 62-0006 SY >5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	9.59	
32 01 13 62-0007 SY >10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	9.28	
32 01 13 62-0008 SY >20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	9.05	
32 01 13 62-0009 SY >50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	8.93	

32 01 16 Flexible Paving Rehabilitation (32 01)

See CSI section 33 01 30 86-0000 for raising manhole frame and cover.

32 01 16 71 Cold Milling Asphalt Pavement (32 01 16)

32 01 16 71-0001	Removal Of Asphalt Surface Course	(32 01 16 71)
Note: Includes direct loading into truck.		

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 16 Flexible Paving Rehabilitation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas (32 01 16 71-0001)		
Note: For removal of entire lanes of roads or parking areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0041 for hauling.		
32 01 16 71-0003 SY Up To 3" Depth, Production Cold Milling Of Asphalt.....	4.68	
For Up To 2,500, Add	3.51	
For >2,500 To 5,000, Add	1.17	
For >10,000 To 25,000, Deduct	-0.82	
For >25,000, Deduct	-1.17	
32 01 16 71-0004 SY >3" To 6" Depth, Production Cold Milling Of Asphalt.....	5.90	
For Up To 2,500, Add	4.43	
For >2,500 To 5,000, Add	1.48	
For >10,000 To 25,000, Deduct	-1.03	
For >25,000, Deduct	-1.48	
32 01 16 71-0005 SY >6" To 12" Depth, Production Cold Milling Of Asphalt.....	7.85	
For Up To 2,500, Add	5.89	
For >2,500 To 5,000, Add	1.96	
For >10,000 To 25,000, Deduct	-1.37	
For >25,000, Deduct	-1.96	
32 01 16 71-0006 Limited Production Cold Milling (32 01 16 71-0001)		
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0041 for hauling.		
32 01 16 71-0007 SY Up To 3" Depth, Limited Cold Milling Of Asphalt.....	31.10	
For >100 To 1,000, Deduct	-15.55	
For >1,000, Deduct	-23.33	
32 01 16 71-0008 SY >3" To 6" Depth, Limited Cold Milling Of Asphalt.....	41.19	
For >100 To 1,000, Deduct	-20.60	
For >1,000, Deduct	-30.89	
32 01 16 71-0009 SY >6" To 12" Depth, Limited Cold Milling Of Asphalt.....	54.85	
For >100 To 1,000, Deduct	-27.43	
For >1,000, Deduct	-41.14	
32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings (32 01 16 71)		
Note: For use as subbase material, includes spreading and rolling.		
32 01 16 71-0011 SY Grind, Leave In-Place As Subbase Course, 6-9" Depth.....	8.40	
32 01 16 71-0012 Wedge Grinding Cold Milling (32 01 16 71)		
Note: Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes water truck. Excludes mobilization, sweeping and cleaning, hauling and disposal. See CSI section 01 74 16 00-0001 for sweeping and cleaning.		
32 01 16 71-0013 LF 5' Wedge Grinding/Cold Milling Of Asphalt Up To 3" Depth.....	8.64	
32 01 16 71-0014 LF 10' Wedge Grinding/Cold Milling Of Asphalt Up To 3" Depth.....	17.28	
32 01 16 71-0015 Cutback Ramp (32 01 16 71)		
32 01 16 71-0016 LF 1" Differential, 5' Length, Cutback Ramp.....	14.32	
32 01 16 71-0017 LF 1-1/2" Differential, 5' Length, Cutback Ramp.....	17.45	
32 01 16 71-0018 LF 2" Differential, 5' Length, Cutback Ramp.....	20.31	
32 01 16 73 In Place Cold Reused Asphalt Paving (32 01 16)		
32 01 16 73-0001 Cold-In-Place-Partial Depth Recycling Process With Foam Asphalt (32 01 16 73)		
Note: Includes milling between 3"-6" of existing AC surface, computerized metered injection of liquid asphalt, cement, and water mix together as binder with milled material, spread and place with paver, follow by vibratory steel drum roller, Cat CB534D or equivalent, then follow by rubber tired roller, Hypac C560A or equivalent. The Contractor will provide all the necessary engineering, preconstruction soil analysis, stamped mix design, in-place compaction testing of recycled material and any other QC/QA during construction. The recycled material (from milled surface mixed with liquid asphalt, cement, and water) shall meet Class II AB (3/4" max.) gradation and shall compact at 96% relative compaction or higher. The Contractor's process shall be capable of producing between 450-500 tons per hour of recycled, in-place material. The Contractor shall warranty their work for a period of two years. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0002 SF Up To 30,000 SF Cold In Place Recycling Process With Foam Asphalt.....	4.95	
32 01 16 73-0003 SF >30,000 To 42,000 SF Cold In Place Recycling Process With Foam Asphalt.....	4.62	
32 01 16 73-0004 SF >42,000 To 71,000 SF Cold In Place Recycling Process With Foam Asphalt.....	3.86	
32 01 16 73-0005 SF >71,000 To 130,000 SF Cold In Place Recycling Process With Foam Asphalt.....	3.28	
32 01 16 73-0006 SF >130,000 To 250,000 SF Cold In Place Recycling Process With Foam Asphalt.....	2.94	
32 01 16 73-0007 SF >250,000 To 500,000 SF Cold In Place Recycling Process With Foam Asphalt.....	2.70	
32 01 16 73-0008 SF >500,000 SF Cold In Place Recycling Process With Foam Asphalt.....	2.53	
32 01 16 73-0009 Cold-In-Place-Full Depth Reclamation With Foam Asphalt (FDR-FA) (32 01 16 73)		
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0010 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	6.21	
32 01 16 73-0011 SF >30,000 To 42,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	5.83	
32 01 16 73-0012 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	5.00	



Exterior Improvements			32
Operation and Maintenance of Exterior Improvements			32 01
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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 73-0013	SF	>71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	4.37	
32 01 16 73-0014	SF	>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	3.98	
32 01 16 73-0015	SF	>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	3.72	
32 01 16 73-0016	SF	>500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	3.55	
32 01 16 73-0017		Cold-In-Place-Full Depth Reclamation Process With Cement (FDR-C) (32 01 16 73) Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0018	SF	Up To 30,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	5.43	
		For >12" To 18" Depth, Add	1.83	
32 01 16 73-0019	SF	>42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	4.22	
		For >12" To 18" Depth, Add	1.46	
32 01 16 73-0020	SF	>71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.59	
		For >12" To 18" Depth, Add	1.27	
32 01 16 73-0021	SF	>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.20	
		For >12" To 18" Depth, Add	1.16	
32 01 16 73-0022	SF	>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.94	
		For >12" To 18" Depth, Add	1.08	
32 01 16 73-0023	SF	>500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.77	
		For >12" To 18" Depth, Add	1.03	
32 01 16 73-0024		Supplemental Aggregate (32 01 16 73)		
32 01 16 73-0025	TON	Supplemental Aggregate.....	81.71	
32 01 16 74		In Place Hot Reused Asphalt Paving (32 01 16)		
32 01 16 74-0001		Rejuvenate And Respread Asphalt Pavement (32 01 16 74) Note: Includes direct loading into truck.		
32 01 16 74-0002	SY	Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep.....	11.62	
32 01 16 74-0003	SY	Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar.....	13.87	
32 01 16 74-0004	TON	Removal, Rejuvenation, And Respreading Of Asphalt Grindings.....	211.52	
32 01 16 74-0005		Reclamation, Pulverize And Blending With Existing (32 01 16 74) Note: Includes direct loading into truck.		
32 01 16 74-0006	SY	Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	16.76	
32 01 16 74-0007	SY	Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	8.37	
32 01 16 74-0008	SY	Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.19	
32 01 16 74-0009	SY	Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.97	
32 01 16 74-0010	SY	>2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.57	
32 01 16 74-0011	SY	>2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	18.28	
32 01 16 74-0012	SY	>2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	9.13	
32 01 16 74-0013	SY	>2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.31	
32 01 16 74-0014	SY	>3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	20.10	
32 01 16 74-0015	SY	>3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	10.05	
32 01 16 74-0016	SY	>3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.03	
32 01 16 74-0017	SY	>3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.64	
32 01 16 74-0018	SY	>4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	21.93	
32 01 16 74-0019	SY	>4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	10.97	
32 01 16 74-0020	SY	>4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.48	
32 01 16 74-0021	SY	>4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.11	
32 01 16 74-0022	EA	Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew.....	1,884.86	
32 01 17		Flexible Paving Repair (32 01) See CSI section 32 12 16 00-0000 for large area resurfacing.		
32 01 17 61		Sealing Cracks in Asphalt Paving (32 01 17) Note: Includes removing loose materials and cleaning.		
32 01 17 61-0001		Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair (32 01 17 61) Note: Includes removing loose materials and cleaning.		

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 17 Flexible Paving Repair**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0002	LF	Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.94	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.56	
		For 1" x 1/2" Fill, Add	1.07	
		For Backer Rod, Add	1.20	
32 01 17 61-0003	LF	>200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.59	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.47	
		For 1" x 1/2" Fill, Add	0.90	
		For Backer Rod, Add	1.09	
32 01 17 61-0004	LF	>500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.27	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.38	
		For 1" x 1/2" Fill, Add	0.73	
		For Backer Rod, Add	0.97	
32 01 17 61-0005	LF	>2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.10	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.34	
		For 1" x 1/2" Fill, Add	0.64	
		For Backer Rod, Add	0.91	
32 01 17 61-0006	LF	>5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.97	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.30	
		For 1" x 1/2" Fill, Add	0.57	
		For Backer Rod, Add	0.85	
32 01 17 61-0007	LF	>10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.90	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	0.27	
		For 1" x 1/2" Fill, Add	0.52	
		For Backer Rod, Add	0.81	
32 01 17 61-0008	LF	Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	3.69	
		For 3/8" x 1/4" Fill, Add	0.85	
		For 1/2" x 1/4" Fill, Add	1.57	
		For 1/2" x 1/2" Fill, Add	3.71	
32 01 17 61-0009	LF	>200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.97	
		For 3/8" x 1/4" Fill, Add	0.70	
		For 1/2" x 1/4" Fill, Add	1.29	
		For 1/2" x 1/2" Fill, Add	3.09	
32 01 17 61-0010	LF	>500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.30	
		For 3/8" x 1/4" Fill, Add	0.56	
		For 1/2" x 1/4" Fill, Add	1.03	
		For 1/2" x 1/2" Fill, Add	2.48	
32 01 17 61-0011	LF	>2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.01	
		For 3/8" x 1/4" Fill, Add	0.49	
		For 1/2" x 1/4" Fill, Add	0.90	
		For 1/2" x 1/2" Fill, Add	2.18	
32 01 17 61-0012	LF	>5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.82	
		For 3/8" x 1/4" Fill, Add	0.44	
		For 1/2" x 1/4" Fill, Add	0.81	
		For 1/2" x 1/2" Fill, Add	1.95	
32 01 17 61-0013	LF	>10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.69	
		For 3/8" x 1/4" Fill, Add	0.40	
		For 1/2" x 1/4" Fill, Add	0.75	
		For 1/2" x 1/2" Fill, Add	1.79	
32 01 17 61-0014	LF	For Routing And Cleaning Of Crack, Add Per 1/2" Depth.....	0.61	
32 01 17 61-0015	LF	Crack Fill Backer Material, Up To 1" Diameter, As Required	2.02	

32 01 17 63 Flexible Pavement Repair (32 01 17)**32 01 17 63-0001 Temporary Pot Hole Repair** (32 01 17 63)

Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.

32 01 17 63-0002	EA	Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons	1,878.30	
32 01 17 63-0003	TON	Temporary Pot Hole Repairs With Cold Mix Modified.....	566.47	
		Note: Use for each ton over 3 tons.		
32 01 17 63-0004	EA	Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,800.31	
32 01 17 63-0005	TON	Temporary Pot Hole Repairs With Cold Mix	540.47	
		Note: Use for each ton over 3 tons.		
32 01 17 63-0006	EA	Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,761.32	
32 01 17 63-0007	TON	Temporary Pot Hole Repairs With Hot Mix Modified.....	527.47	
		Note: Use for each ton over 3 tons.		
32 01 17 63-0008	EA	Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,722.32	
32 01 17 63-0009	TON	Temporary Pot Hole Repairs With Hot Mix	514.48	
		Note: Use for each ton over 3 tons.		

32 01 17 63-0010 Permanent Pot Hole Repair (32 01 17 63)

Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.

32 01 17 63-0011	EA	Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	2,021.51	
32 01 17 63-0012	TON	Permanent Pot Hole Repairs With Cold Mix	656.71	
		Note: Use for each ton over 3 tons.		



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Operation and Maintenance of Exterior Improvements			32 01
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,982.52	
32 01 17 63-0014 TON Permanent Pot Hole Repairs With Hot Mix Modified Note: Use for each ton over 3 tons.	643.71	
32 01 17 63-0015 EA Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,943.52	
32 01 17 63-0016 TON Permanent Pot Hole Repairs With Hot Mix Note: Use for each ton over 3 tons.	630.72	
32 01 17 63-0017 Asphalt Placement For Small Repairs (32 01 17 63) Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0059 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.		
32 01 17 63-0018 EA Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons..... Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,654.28	
32 01 17 63-0019 TON Asphalt Placement For Small Repair Areas, Cold Mix Modified Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	356.81	
32 01 17 63-0020 EA Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,576.29	
32 01 17 63-0021 TON Asphalt Placement For Small Repair Areas, Cold Mix..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	330.81	
32 01 17 63-0022 EA Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,537.30	
32 01 17 63-0023 TON Asphalt Placement For Small Repair Areas, Hot Mix Modified Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	317.81	
32 01 17 63-0024 EA Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,498.30	
32 01 17 63-0025 TON Asphalt Placement For Small Repair Areas, Hot Mix..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	304.82	
32 01 17 63-0026 Grind Asphalt (32 01 17 63)		
32 01 17 63-0027 SY Grinding Asphalt To Level Bump Or Raised Area.....	26.06	
32 01 26 Rigid Paving Rehabilitation (32 01)		
32 01 26 71 Grooving of Concrete Paving (32 01 26)		
32 01 26 71-0001 Roadway Grooving (32 01 26 71)		
32 01 26 71-0002 EA First 500 SY Of Pavement Grooving, Concrete, Longitudinal.....	4,297.47	
32 01 26 71-0003 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal	3.98	
32 01 26 71-0004 EA First 500 SY Of Pavement Grooving, Concrete, Traverse.....	4,787.54	
32 01 26 71-0005 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse	5.18	
32 01 26 71-0006 Rumble Strips (32 01 26 71)		
32 01 26 71-0007 EA First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	5,193.22	
32 01 26 71-0008 LF Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	0.95	
32 01 26 71-0009 EA First 2,000 LF Of MIARDS, Rumble Strips, Concrete	5,787.37	
32 01 26 71-0010 LF Each LF Over First 2,000 LF Of MIARDS, Rumble Strips, Concrete	1.06	
32 01 26 73 Milling Of Concrete Paving (32 01 26)		
32 01 26 73-0001 Removal Of Concrete (32 01 26 73) Note: Includes direct loading into truck.		
32 01 26 73-0002 Production Milling Of Roads And Parking Areas (32 01 26 73-0001) Note: For removal of entire lanes of roads or parking areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0041 for hauling.		
32 01 26 73-0003 SY Production Milling Of Concrete Per Inch.....	7.45	
32 01 26 73-0004 Limited Production Milling (32 01 26 73-0001) Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0041 for hauling.		
32 01 26 73-0005 SY Limited Production Milling Of Concrete Per Inch	46.75	

32 01 29 Rigid Paving Repair (32 01)

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 29 Rigid Paving Repair**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 29 61 Partial Depth Patching of Rigid Paving (32 01 29)

32 01 29 61-0001 Hot Applied Flexible Concrete Repair (32 01 29 61)	
Note: Excludes saw cutting (where required), flagmen.	
32 01 29 61-0002 EA	Minimum Charge For Hot Applied Flexible Concrete Repair 1,349.24
Note: For projects where the total Hot Applied Flexible Concrete Repair In Asphalt charge is less than the minimum charge, use task "Minimum Charge For Hot Applied Flexible Concrete Repair" exclusively. Task "Minimum Charge For Hot Applied Flexible Concrete Repair" should not be used in conjunction with any other tasks in this section.	
32 01 29 61-0003 SF	Up To 2" Depth, Hot Applied Flexible Concrete Repair 73.70
For >25 SF Quantity, Deduct	
32 01 29 61-0004 SF	>2" To 4" Depth, Hot Applied Flexible Concrete Repair 138.21
For >25 SF Quantity, Deduct	
32 01 29 61-0005 SF	>4" To 6" Depth, Hot Applied Flexible Concrete Repair 202.09
For >25 SF Quantity, Deduct	
32 01 29 61-0006 SF	>6" To 8" Depth, Hot Applied Flexible Concrete Repair 265.98
For >25 SF Quantity, Deduct	
32 01 29 61-0007 SF	>8" To 10" Depth, Hot Applied Flexible Concrete Repair 329.87
For >25 SF Quantity, Deduct	
32 01 29 61-0008 CF	>10" Depth, Hot Applied Flexible Concrete Repair 393.15

32 01 29 61-0009 Cold Applied Flexible Concrete Repair (32 01 29 61)

32 01 29 61-0010 SF	1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water) 7.35
32 01 29 61-0011 SF	1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water) 10.52
32 01 29 61-0012 SF	1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water) 13.82
32 01 29 61-0013 SF	3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water) 17.25
32 01 29 61-0014 SF	1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water) 24.58
32 01 29 61-0015 SF	1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R) 7.44
32 01 29 61-0016 SF	1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R) 10.62
32 01 29 61-0017 SF	1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R) 13.91
32 01 29 61-0018 SF	3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R) 17.34
32 01 29 61-0019 SF	1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R) 24.67
32 01 29 61-0020 SF	1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R) 7.39
32 01 29 61-0021 SF	1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R) 10.57
32 01 29 61-0022 SF	1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R) 13.87
32 01 29 61-0023 SF	3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R) 17.29
32 01 29 61-0024 SF	1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R) 24.62

32 01 90 Operation and Maintenance of Planting (32 01)

Note: These tasks are to be used as requested by the owner to maintain existing conditions.

32 01 90 13 Fertilizing (32 01 90)

32 01 90 13-0001 MSF	Fertilizer - 2 Lb. Of Nitrogen/MSF (Granular) 17.72
32 01 90 13-0002 MSF	Fertilizer - 2 Lb. Of Nitrogen/MSF (Liquid) 13.01
32 01 90 13-0003 MSF	Fertilizer - 0.5 Lb. Of Nitrogen/MSF (Granular) 14.21
32 01 90 13-0004 MSF	Fertilizer - 0.5 Lb. Of Nitrogen/MSF (Liquid) 11.68

32 01 90 19 Mowing (32 01 90)

32 01 90 19-0001 ACR	Vegetation Cutting By Bush Hog 229.39
Note: Includes normal debris removal, cutting, and trimming.	
For <1 Acre, Add	
32 01 90 19-0002 MSF	Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF 8.08
32 01 90 19-0003 MSF	Mowing Vegetation With Riding Mower, >45,000 SF 6.27
32 01 90 19-0004 MSF	Clear Vegetation With Weed Trimmer, Up To 1,000 SF 29.21
For Work On Slopes >2:1, Add	
For Clearing Light Brush, Add	
32 01 90 19-0005 MSF	Clear Vegetation With Weed Trimmer, >1,000 SF 24.54
For Work On Slopes >2:1, Add	
For Clearing Light Brush, Add	
32 01 90 19-0006 MSF	Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed 23.83

32 01 90 23 Pruning (32 01 90)

32 01 90 23-0001 Tree Pruning (32 01 90 23)	
Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.	
32 01 90 23-0002 Tree Pruning; Crown Cleaning (32 01 90 23-0001)	
Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.	
32 01 90 23-0003 EA	1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand 37.33
32 01 90 23-0004 EA	2" Caliper, Tree Pruning (Crown Cleaning), By Hand 42.66
32 01 90 23-0005 EA	2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand 47.99
32 01 90 23-0006 EA	3" Caliper, Tree Pruning (Crown Cleaning), By Hand 53.33
32 01 90 23-0007 EA	4" Caliper, Tree Pruning (Crown Cleaning), By Hand 81.04
32 01 90 23-0008 EA	4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment 130.12
32 01 90 23-0009 EA	6" Caliper, Tree Pruning (Crown Cleaning), By Hand 141.82
32 01 90 23-0010 EA	6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment 247.82
32 01 90 23-0011 EA	9" Caliper, Tree Pruning (Crown Cleaning), By Hand 227.10



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Operation and Maintenance of Planting		32 01 90

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0012 EA 9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	396.42	
32 01 90 23-0013 EA 12" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	262.43	
32 01 90 23-0014 EA 12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	458.44	
32 01 90 23-0015 EA 18" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	305.07	
32 01 90 23-0016 EA 18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	532.78	
32 01 90 23-0017 EA 24" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	371.35	
32 01 90 23-0018 EA 24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	644.40	
32 01 90 23-0019 EA 30" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	461.29	
32 01 90 23-0020 EA 30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	812.14	
32 01 90 23-0021 EA 36" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	631.82	
32 01 90 23-0022 EA 36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	1,100.71	
32 01 90 23-0023 EA 48" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	1,002.36	
32 01 90 23-0024 EA 48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	1,770.13	

32 01 90 23-0025

Tree Pruning; Crown Thinning (32 01 90 23-0001)

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026 EA 1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	45.75
32 01 90 23-0027 EA 2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	52.26
32 01 90 23-0028 EA 2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	58.76
32 01 90 23-0029 EA 3" Caliper, Tree Pruning (Crown Thinning), By Hand.....	65.37
32 01 90 23-0030 EA 4" Caliper, Tree Pruning (Crown Thinning), By Hand.....	99.29
32 01 90 23-0031 EA 4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	159.34
32 01 90 23-0032 EA 6" Caliper, Tree Pruning (Crown Thinning), By Hand.....	173.73
32 01 90 23-0033 EA 6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	303.58
32 01 90 23-0034 EA 9" Caliper, Tree Pruning (Crown Thinning), By Hand.....	278.25
32 01 90 23-0035 EA 9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	485.59
32 01 90 23-0036 EA 12" Caliper, Tree Pruning (Crown Thinning), By Hand.....	321.44
32 01 90 23-0037 EA 12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	561.55
32 01 90 23-0038 EA 18" Caliper, Tree Pruning (Crown Thinning), By Hand.....	373.70
32 01 90 23-0039 EA 18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	652.63
32 01 90 23-0040 EA 24" Caliper, Tree Pruning (Crown Thinning), By Hand.....	454.86
32 01 90 23-0041 EA 24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	789.42
32 01 90 23-0042 EA 30" Caliper, Tree Pruning (Crown Thinning), By Hand.....	565.03
32 01 90 23-0043 EA 30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	994.87
32 01 90 23-0044 EA 36" Caliper, Tree Pruning (Crown Thinning), By Hand.....	773.97
32 01 90 23-0045 EA 36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	1,348.38
32 01 90 23-0046 EA 48" Caliper, Tree Pruning (Crown Thinning), By Hand.....	1,227.87
32 01 90 23-0047 EA 48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	2,168.40

32 01 90 23-0048

Tree Pruning; Crown Raising (32 01 90 23-0001)

Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.

32 01 90 23-0049 EA 1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand.....	50.45
32 01 90 23-0050 EA 2" Caliper, Tree Pruning (Crown Raising), By Hand.....	57.59
32 01 90 23-0051 EA 2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand.....	64.84
32 01 90 23-0052 EA 3" Caliper, Tree Pruning (Crown Raising), By Hand.....	71.99
32 01 90 23-0053 EA 4" Caliper, Tree Pruning (Crown Raising), By Hand.....	109.42
32 01 90 23-0054 EA 4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	175.70
32 01 90 23-0055 EA 6" Caliper, Tree Pruning (Crown Raising), By Hand.....	191.44
32 01 90 23-0056 EA 6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	334.56
32 01 90 23-0057 EA 9" Caliper, Tree Pruning (Crown Raising), By Hand.....	306.62
32 01 90 23-0058 EA 9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	535.16
32 01 90 23-0059 EA 12" Caliper, Tree Pruning (Crown Raising), By Hand.....	354.30
32 01 90 23-0060 EA 12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	618.92
32 01 90 23-0061 EA 18" Caliper, Tree Pruning (Crown Raising), By Hand.....	411.88
32 01 90 23-0062 EA 18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	719.29
32 01 90 23-0063 EA 24" Caliper, Tree Pruning (Crown Raising), By Hand.....	501.36
32 01 90 23-0064 EA 24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	869.96
32 01 90 23-0065 EA 30" Caliper, Tree Pruning (Crown Raising), By Hand.....	622.74
32 01 90 23-0066 EA 30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	1,096.35
32 01 90 23-0067 EA 36" Caliper, Tree Pruning (Crown Raising), By Hand.....	852.99
32 01 90 23-0068 EA 36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	1,485.92
32 01 90 23-0069 EA 48" Caliper, Tree Pruning (Crown Raising), By Hand.....	1,353.18
32 01 90 23-0070 EA 48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	2,389.70

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 90 23-0071**Tree Pruning; Crown Reduction** (32 01 90 23-0001)

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA	1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	54.18
32 01 90 23-0073	EA	2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	61.86
32 01 90 23-0074	EA	2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	69.64
32 01 90 23-0075	EA	3" Caliper, Tree Pruning (Crown Reduction), By Hand.....	77.32
32 01 90 23-0076	EA	4" Caliper, Tree Pruning (Crown Reduction), By Hand.....	117.53
32 01 90 23-0077	EA	4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	188.71
32 01 90 23-0078	EA	6" Caliper, Tree Pruning (Crown Reduction), By Hand.....	205.62
32 01 90 23-0079	EA	6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	359.33
32 01 90 23-0080	EA	9" Caliper, Tree Pruning (Crown Reduction), By Hand.....	329.34
32 01 90 23-0081	EA	9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	574.82
32 01 90 23-0082	EA	12" Caliper, Tree Pruning (Crown Reduction), By Hand.....	380.53
32 01 90 23-0083	EA	12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	664.77
32 01 90 23-0084	EA	18" Caliper, Tree Pruning (Crown Reduction), By Hand.....	442.39
32 01 90 23-0085	EA	18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	772.57
32 01 90 23-0086	EA	24" Caliper, Tree Pruning (Crown Reduction), By Hand.....	538.48
32 01 90 23-0087	EA	24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	934.39
32 01 90 23-0088	EA	30" Caliper, Tree Pruning (Crown Reduction), By Hand.....	668.91
32 01 90 23-0089	EA	30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	1,177.63
32 01 90 23-0090	EA	36" Caliper, Tree Pruning (Crown Reduction), By Hand.....	916.13
32 01 90 23-0091	EA	36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	1,596.06
32 01 90 23-0092	EA	48" Caliper, Tree Pruning (Crown Reduction), By Hand.....	1,453.44
32 01 90 23-0093	EA	48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	2,566.64

32 01 90 23-0094**Tree Pruning; Crown Restoration** (32 01 90 23-0001)

Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years.

32 01 90 23-0095	EA	1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	62.17
32 01 90 23-0096	EA	2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	71.13
32 01 90 23-0097	EA	2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	79.99
32 01 90 23-0098	EA	3" Caliper, Tree Pruning (Crown Restoration), By Hand.....	88.84
32 01 90 23-0099	EA	4" Caliper, Tree Pruning (Crown Restoration), By Hand.....	135.02
32 01 90 23-0100	EA	4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	216.84
32 01 90 23-0101	EA	6" Caliper, Tree Pruning (Crown Restoration), By Hand.....	236.34
32 01 90 23-0102	EA	6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	412.99
32 01 90 23-0103	EA	9" Caliper, Tree Pruning (Crown Restoration), By Hand.....	378.51
32 01 90 23-0104	EA	9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	660.68
32 01 90 23-0105	EA	12" Caliper, Tree Pruning (Crown Restoration), By Hand.....	437.38
32 01 90 23-0106	EA	12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	764.02
32 01 90 23-0107	EA	18" Caliper, Tree Pruning (Crown Restoration), By Hand.....	508.41
32 01 90 23-0108	EA	18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	887.93
32 01 90 23-0109	EA	24" Caliper, Tree Pruning (Crown Restoration), By Hand.....	618.89
32 01 90 23-0110	EA	24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,074.04
32 01 90 23-0111	EA	30" Caliper, Tree Pruning (Crown Restoration), By Hand.....	768.84
32 01 90 23-0112	EA	30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,353.58
32 01 90 23-0113	EA	36" Caliper, Tree Pruning (Crown Restoration), By Hand.....	1,053.07
32 01 90 23-0114	EA	36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,834.59
32 01 90 23-0115	EA	48" Caliper, Tree Pruning (Crown Restoration), By Hand.....	1,670.57
32 01 90 23-0116	EA	48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	2,950.27

32 01 90 23-0117**Palm Tree Pruning** (32 01 90 23)

32 01 90 23-0118	EA	Trim Mexican Palm Tree.....	113.07
32 01 90 23-0119	EA	Trim Date Palm Tree.....	255.15
32 01 90 23-0120	LF	Skin Palm Tree.....	29.00
32 01 90 23-0121	EA	Trim And Skin Palm Tree, Up To 30' Height.....	105.32
32 01 90 23-0122	EA	Trim And Skin Palm Tree, >30' To 60' Height.....	130.11
32 01 90 23-0123	EA	Trim And Skin Palm Tree, >60' To 80' Height.....	145.59

32 01 90 23-0124**Shrub Pruning** (32 01 90 23)

32 01 90 23-0125	MSF	Shrub Pruning, Prune, Shrub Bed.....	121.53
32 01 90 23-0126	EA	Shrub Pruning, Prune, Shrub Under 3' Height.....	4.26
32 01 90 23-0127	EA	Shrub Pruning, Prune, Shrub 4' Height.....	9.60
32 01 90 23-0128	EA	Shrub Pruning, Prune, Shrub Over 6'.....	17.06
32 01 90 23-0129	EA	Shrub Pruning, Prune Trees From Ground.....	42.66
32 01 90 23-0130	EA	Shrub Pruning, Prune Trees From Ground, High Work.....	106.65



Exterior Improvements			32
Operation and Maintenance of Exterior Improvements			32 01
Operation and Maintenance of Planting			32 01 90

32

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0131		Root Pruning (32 01 90 23) Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.		
32 01 90 23-0132	EA	Root Pruning, One Side Of Up To 1-1/2" Caliper Tree	21.33	
32 01 90 23-0133	EA	Root Pruning, One Side Of 2" Caliper Tree	26.67	
32 01 90 23-0134	EA	Root Pruning, One Side Of 2-1/2" Caliper Tree	31.99	
32 01 90 23-0135	EA	Root Pruning, One Side Of 3" Caliper Tree	42.66	
32 01 90 23-0136	EA	Root Pruning, One Side Of 4" Caliper Tree	63.99	
32 01 90 23-0137	EA	Root Pruning, One Side Of >4" To 6" Caliper Tree.....	79.99	
32 01 90 23-0138	EA	Root Pruning, One Side Of >6" To 9" Caliper Tree.....	111.99	
32 01 90 23-0139	EA	Root Pruning, One Side Of >9" To 12" Caliper Tree.....	127.98	
32 01 90 23-0140	EA	Root Pruning, One Side Of >12" To 18" Caliper Tree.....	149.31	
32 01 90 23-0141	EA	Root Pruning, One Side Of >18" To 24" Caliper Tree	186.64	
32 01 90 23-0142	EA	Root Pruning, One Side Of >24" To 30" Caliper Tree.....	229.30	
32 01 90 23-0143	EA	Root Pruning, One Side Of >30" To 36" Caliper Tree.....	266.62	
32 01 90 23-0144	EA	Root Pruning, One Side Of >36" To 42" Caliper Tree.....	293.29	
32 01 90 23-0145	EA	Root Pruning, One Side Of >42" To 48" Caliper Tree.....	319.95	
32 01 90 26		Watering (32 01 90) Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.		
32 01 90 26-0001		Watering Lawns, Plants And Trees (32 01 90 26) Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for additional watering beyond initial watering at installation for extended watering period of lawns, plants and trees.		
32 01 90 26-0002	MSF	Watering Sod/Grass, Per Inch Of Water	50.07	
32 01 90 26-0003	CSF	Watering Groundcover.....	7.71	
32 01 90 26-0004	CSF	Watering Annuals And Perennials	13.62	
32 01 90 26-0005	EA	Watering Trees, 1-1/2" To 5" Diameter By Hand	26.24	
32 01 90 26-0006	EA	Watering Trees, 6" To 12" Diameter By Hand	34.50	
32 01 90 26-0007	EA	Watering Trees, 13" To 18" Diameter By Hand	42.76	
32 01 90 26-0008	EA	Watering Trees, >18" Diameter By Hand.....	52.64	
32 01 90 26-0009	EA	Watering Shrub Or Bush By Hand.....	13.19	
32 01 90 36		Weed and Brush Control (32 01 90)		
32 01 90 36-0001		Herbicide, Push Or Hand Spreader Applied (32 01 90 36)		
32 01 90 36-0002	MSF	Non-Selective Post Emergent Weed Herbicide (70.4 Oz./Acre or 1.62 Oz./MSF)	9.76	
		For >45 To 90, Deduct	-0.53	
		For >90 To 225, Deduct	-1.51	
		For >225 To 870, Deduct	-2.48	
		For >870, Deduct	-3.01	
32 01 90 36-0003	MSF	Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 Oz./Acre or 2.94 Oz./MSF)	10.46	
		For >45 To 90, Deduct	-0.60	
		For >90 To 225, Deduct	-1.65	
		For >225 To 870, Deduct	-2.69	
		For >870, Deduct	-3.29	
32 01 90 36-0004	MSF	Selective Weed Herbicide (56 Oz./Acre or 1.28 Oz./MSF)	10.41	
		Note: Includes pre and post emergent.		
		For >45 To 90, Deduct	-0.60	
		For >90 To 225, Deduct	-1.64	
		For >225 To 870, Deduct	-2.68	
		For >870, Deduct	-3.27	
32 01 90 36-0005	MSF	Selective Woody Brush And Tree Herbicide (72 Oz./Acre or 1.65 Oz./MSF)	10.85	
		Note: Includes pre and post emergent.		
		For >45 To 90, Deduct	-0.64	
		For >90 To 225, Deduct	-1.73	
		For >225 To 870, Deduct	-2.81	
		For >870, Deduct	-3.45	
32 01 90 39		Pesticides (32 01 90)		
32 01 90 39-0001	MSF	Pesticide - Surface Eating	13.53	
32 01 90 39-0002	MSF	Pesticide - Subsurface Eating.....	13.58	
32 01 90 39-0003	MSF	Pesticide - Fungicide Application	14.64	
32 01 90 43		Weed and Cultivate Beds (32 01 90)		
32 01 90 43-0001	MSF	Weed Mulched Bed	52.31	
32 01 90 43-0002	MSF	Weed Unmulched Bed.....	149.44	
32 01 90 43-0003	MSF	Cultivate Bed	80.47	
32 01 90 46		Hedge Trimming (32 01 90)		
32 01 90 46-0001	LF	Trim 0-5' High Hedge, 0-3' Wide.....	6.89	
32 01 90 46-0002	LF	Trim 0-5' High Hedge, 4-6' Wide.....	10.33	
32 01 90 46-0003	LF	Trim 5-10' High Hedge, 0-3' Wide.....	15.64	
32 01 90 46-0004	LF	Trim 5-10' High Hedge, 4-6' Wide.....	15.93	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 90 53 Plant Growth Regulator Application (32 01 90)

32 01 90 53-0001 EA Plant Growth Regulator Application 7.57

32 05 Common Work Results for Exterior Improvements (32)**32 05 23 Cement and Concrete for Exterior Improvements (32 05)****32 05 23 00-0001 Common Public Works Assemblies (32 05 23)**

Note: Assembly task as per GreenBook Specifications

32 05 23 00-0002 SF PCC Sidewalk 7.00
Note: Assembly task as per GreenBook Specifications.
32 05 23 00-0003 LF Curb And Gutter.....34.00
Note: Assembly task as per GreenBook Specifications.
32 05 23 00-0004 UNT Surface Preparation And Crack Seal (Based on 3% of total cost of asphalt).....1,000.00
Note: Assembly task as per GreenBook Specifications. County Representative to decide value.
32 05 23 00-0005 TON >200 Ton Base Repair.....175.00
Note: Assembly task as per GreenBook Specifications.
32 05 23 00-0006 TON <200 Ton Base Repair.....150.00
Note: Assembly task as per GreenBook Specifications.
32 05 23 00-0007 SF Grinding 0.40
Note: Assembly task as per GreenBook Specifications.
32 05 23 00-0008 SF AC Taper with Key.....0.62
Note: Assembly task as per GreenBook Specifications.
32 05 23 00-0009 TON Miscellaneous Paving.....112.00
Note: Assembly task as per GreenBook Specifications.
32 05 23 00-0010 MI Shoulder Backing.....15,940.00
Note: Assembly task as per GreenBook Specifications.
32 05 23 00-0011 UNT Traffic Control And Signage.....1,000.00
Note: Assembly task as per GreenBook Specifications.
32 05 23 00-0012 EA Tree Removal Less Than 100" Girth.....2,000.00
Note: Assembly task as per GreenBook Specifications.
32 05 23 00-0013 EA Tree Removal Over Than 100" Girth 4,000.00
Note: Assembly task as per GreenBook Specifications.
32 05 23 00-0014 EA Asphalt Index Adjustment 1.00
Note: Assembly task as per GreenBook Specifications.

32 05 33 Common Work Results for Planting (32 05)**32 05 33 00-0001 Decorative Landscape Boulders (32 05 33)**

Note: Includes delivery of materials and placement.

32 05 33 00-0002 EA 2' x 3' x 2' Oval Shape Boulders (Approx. 1,000 Lb. Each).....364.94
32 05 33 00-0003 EA 3' x 3' x 2' Oval Shape Boulders (Approx. 1,500 Lb. Each).....547.40
32 05 33 00-0004 EA 3' x 4' x 3' Oval Shape Boulders (Approx. 3,000 Lb. Each).....1,094.81
32 05 33 00-0005 TON Landscape Boulders 729.87

32 10 Bases, Ballasts, and Paving (32)**32 11 Base Courses (32 10)****32 11 16 Subbase Courses (32 11)****32 11 16 16 Aggregate Subbase Courses (32 11 16)****32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas (32 11 16 16)**

Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.

32 11 16 16-0002 Base And Subbase Courses By The CY (32 11 16 16-0001)

32 11 16 16-0003 CY Class II Graded Crushed Aggregate Roadway Base Course 109.60
32 11 16 16-0004 CY Class III Graded Crushed Aggregate Roadway Base Course 105.25
32 11 16 16-0005 CY Class 5 Granite Roadway Base Course.....105.15
For Limestone, Deduct-7.89

32 11 16 16-0006 Class II Base Courses By The SY (32 11 16 16-0001)

32 11 16 16-0007 SY 2" Class II Graded Crushed Aggregate Base Course 6.01
For Up To 500, Add 1.54
For >500 To 1,000, Add 0.60
For >5,000 To 10,000, Deduct-0.23
For >10,000, Deduct-0.39
32 11 16 16-0008 SY 4" Class II Crushed Aggregate Base Course 12.01
For Up To 500, Add 3.07
For >500 To 1,000, Add 1.20
For >5,000 To 10,000, Deduct-0.46
For >10,000, Deduct-0.78



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Base Courses			32 11

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 11 16 16-0009	SY		6" Class II Crushed Aggregate Base Course.....	18.02	
			For Up To 500, Add	4.61	
			For >500 To 1,000, Add	1.80	
			For >5,000 To 10,000, Deduct	-0.68	
			For >10,000, Deduct	-1.17	
32 11 16 16-0010	SY		9" Class II Crushed Aggregate Base Course.....	27.02	
			For Up To 500, Add	6.91	
			For >500 To 1,000, Add	2.70	
			For >5,000 To 10,000, Deduct	-1.03	
			For >10,000, Deduct	-1.76	
32 11 16 16-0011	SY		12" Class II Crushed Aggregate Base Course.....	36.03	
			For Up To 500, Add	9.22	
			For >500 To 1,000, Add	3.60	
			For >5,000 To 10,000, Deduct	-1.37	
			For >10,000, Deduct	-2.34	
32 11 16 16-0012 Base And Subbase Courses For Roadways And Parking Areas By The SY					
			(32 11 16 16-0001)		
32 11 16 16-0013	SY		2" Crushed Aggregate Base Course For Roadways And Parking Areas.....	5.42	
			For Up To 500, Add	1.42	
			For >500 To 1,000, Add	0.54	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000, Deduct	-0.35	
			For Limestone, Deduct	-0.37	
32 11 16 16-0014	SY		4" Crushed Aggregate Base Course For Roadways And Parking Areas.....	10.15	
			For Up To 500, Add	2.70	
			For >500 To 1,000, Add	1.02	
			For >5,000 To 10,000, Deduct	-0.39	
			For >10,000, Deduct	-0.66	
			For Limestone, Deduct	-0.62	
32 11 16 16-0015	SY		6" Crushed Aggregate Base Course For Roadways And Parking Areas.....	15.92	
			For Up To 500, Add	4.19	
			For >500 To 1,000, Add	1.59	
			For >5,000 To 10,000, Deduct	-0.60	
			For >10,000, Deduct	-1.03	
			For Limestone, Deduct	-1.06	
32 11 16 16-0016	SY		9" Crushed Aggregate Base Course For Roadways And Parking Areas.....	23.16	
			For Up To 500, Add	6.14	
			For >500 To 1,000, Add	2.32	
			For >5,000 To 10,000, Deduct	-0.88	
			For >10,000, Deduct	-1.51	
			For Limestone, Deduct	-1.47	
32 11 16 16-0017	SY		12" Crushed Aggregate Base Course For Roadways And Parking Areas.....	28.06	
			For Up To 500, Add	7.20	
			For >500 To 1,000, Add	2.81	
			For >5,000 To 10,000, Deduct	-1.07	
			For >10,000, Deduct	-1.82	
			For Limestone, Deduct	-2.21	
32 11 23 Aggregate Base Courses (32 11)					
32 11 23 16 Aggregate Base Courses (32 11 23)					
32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) (32 11 23 16)					
Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.					
32 11 23 16-0002	SF		2" Crushed Aggregate Base Course For Sidewalks.....	0.75	
			For Up To 1,000, Add	0.21	
			For >1,000 To 2,500, Add	0.08	
32 11 23 16-0003	SF		3" Crushed Aggregate Base Course For Sidewalks.....	1.04	
			For Up To 1,000, Add	0.29	
			For >1,000 To 2,500, Add	0.10	
32 11 23 16-0004	SF		4" Crushed Aggregate Base Course For Sidewalks.....	1.36	
			For Up To 1,000, Add	0.38	
			For >1,000 To 2,500, Add	0.14	
32 11 23 16-0005	SF		5" Crushed Aggregate Base Course For Sidewalks.....	1.76	
			For Up To 1,000, Add	0.49	
			For >1,000 To 2,500, Add	0.18	
32 11 23 16-0006	SF		6" Crushed Aggregate Base Course For Sidewalks.....	2.17	
			For Up To 1,000, Add	0.60	
			For >1,000 To 2,500, Add	0.22	
32 11 23 16-0007	SF		7" Crushed Aggregate Base Course For Sidewalks.....	2.49	
			For Up To 1,000, Add	0.69	
			For >1,000 To 2,500, Add	0.25	
32 11 23 16-0008	SF		8" Crushed Aggregate Base Course For Sidewalks.....	2.82	
			For Up To 1,000, Add	0.78	
			For >1,000 To 2,500, Add	0.28	
32 11 26 Asphaltic Base Courses (32 11)					
32 11 26 19 Bituminous-Stabilized Base Courses (32 11 26)					
32 11 26 19-0001 Bituminous-Stabilized Base Courses (32 11 26 19)					

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 11 Base Courses**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 11 26 19-0002	CY	Bituminous Stabilized Base Course..... Note: 3/4" ASTM C33.	111.79	

32 12 Flexible Paving (32 10)**32 12 13 Preparatory Coats** (32 12)**32 12 13 13 Tack Coats** (32 12 13)

32 12 13 13-0001	SY	Tack Coat, 0.04 Gallon/SY	0.81	
		For Up To 150, Add	0.16	
		For >150 To 300, Add	0.08	
		For >300 To 500, Add	0.04	
		For >3,500 To 5,000, Deduct	-0.02	
		For >5,000, Deduct	-0.05	
32 12 13 13-0002	SY	Tack Coat, 0.05 Gallon/SY	0.91	
		For Up To 150, Add	0.19	
		For >150 To 300, Add	0.09	
		For >300 To 500, Add	0.05	
		For >3,500 To 5,000, Deduct	-0.02	
		For >5,000, Deduct	-0.06	
32 12 13 13-0003	SY	Tack Coat, 0.07 Gallon/SY	1.11	
		For Up To 150, Add	0.24	
		For >150 To 300, Add	0.11	
		For >300 To 500, Add	0.06	
		For >3,500 To 5,000, Deduct	-0.03	
		For >5,000, Deduct	-0.07	
32 12 13 13-0004	SY	Tack Coat, 0.08 Gallon/SY	1.21	
		For Up To 150, Add	0.26	
		For >150 To 300, Add	0.12	
		For >300 To 500, Add	0.06	
		For >3,500 To 5,000, Deduct	-0.03	
		For >5,000, Deduct	-0.08	
32 12 13 13-0005	SY	Tack Coat, 0.10 Gallon/SY	1.41	
		For Up To 150, Add	0.31	
		For >150 To 300, Add	0.14	
		For >300 To 500, Add	0.07	
		For >3,500 To 5,000, Deduct	-0.04	
		For >5,000, Deduct	-0.10	
32 12 13 13-0006	SY	Tack Coat, 0.11 Gallon/SY	1.52	
		For Up To 150, Add	0.34	
		For >150 To 300, Add	0.15	
		For >300 To 500, Add	0.08	
		For >3,500 To 5,000, Deduct	-0.04	
		For >5,000, Deduct	-0.10	

32 12 13 19 Prime Coats (32 12 13)

32 12 13 19-0001	SY	Surface Prime Coat, 0.26 Gallon/SY	2.60	
		For Up To 150, Add	0.60	
		For >150 To 300, Add	0.26	
		For >300 To 500, Add	0.13	
		For >3,500 To 5,000, Deduct	-0.07	
		For >5,000, Deduct	-0.18	
32 12 13 19-0002	SY	Surface Prime Coat, 0.28 Gallon/SY	2.76	
		For Up To 150, Add	0.64	
		For >150 To 300, Add	0.28	
		For >300 To 500, Add	0.14	
		For >3,500 To 5,000, Deduct	-0.07	
		For >5,000, Deduct	-0.20	
32 12 13 19-0003	SY	Surface Prime Coat, 0.30 Gallon/SY	2.93	
		For Up To 150, Add	0.68	
		For >150 To 300, Add	0.29	
		For >300 To 500, Add	0.15	
		For >3,500 To 5,000, Deduct	-0.07	
		For >5,000, Deduct	-0.21	

32 12 16 Asphalt Paving (32 12)**32 12 16 13 Plant-Mix Asphalt Paving** (32 12 16)

Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or prime coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0041 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.

32 12 16 13-0001	Intermediate Binder Courses, Hot Mix Asphalt (HMA) (32 12 16 13)	
	Note: S (3/4") aggregate gradation	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Flexible Paving		32 12

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0002	TON		Bituminous Hot Mix Intermediate Binder Course 3,954 Lb./CY Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.	155.57	
			For PG64-10 Asphalt, Add	17.91	
			For Warm Mix Additive, Add	7.76	
			For Up To 25, Add	22.06	
			For >25 To 50, Add	12.30	
			For >500 To 1,000, Deduct	-6.52	
			For >1,000 To 2,500, Deduct	-11.64	
			For >2,500 To 5,000, Deduct	-18.35	
			For >5,000, Deduct	-26.33	
32 12 16 13-0003	SY		1" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	8.85	
			For PG64-10 Asphalt, Add	0.98	
			For Up To 1,000, Add	1.30	
			For >1,000 To 2,000, Add	0.73	
			For >10,000 To 20,000, Deduct	-0.37	
			For >20,000 To 50,000, Deduct	-0.68	
			For >50,000 To 100,000, Deduct	-1.06	
			For >100,000, Deduct	-1.52	
32 12 16 13-0004	SY		1-1/2" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	13.11	
			For PG64-10 Asphalt, Add	1.48	
			For Up To 700, Add	1.90	
			For >700 To 1,400, Add	1.06	
			For >7,000 To 14,000, Deduct	-0.56	
			For >14,000 To 32,000, Deduct	-1.02	
			For >32,000 To 64,000, Deduct	-1.57	
			For >64,000, Deduct	-2.26	
32 12 16 13-0005	SY		2" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	16.89	
			For PG64-10 Asphalt, Add	1.97	
			For Up To 500, Add	2.37	
			For >500 To 1,000, Add	1.32	
			For >5,000 To 10,000, Deduct	-0.73	
			For >10,000 To 24,000, Deduct	-1.33	
			For >24,000 To 48,000, Deduct	-2.06	
			For >48,000, Deduct	-2.96	
32 12 16 13-0006	SY		2-1/2" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	21.35	
			For PG64-10 Asphalt, Add	2.46	
			For Up To 400, Add	3.03	
			For >400 To 800, Add	1.69	
			For >4,000 To 8,000, Deduct	-0.92	
			For >8,000 To 20,000, Deduct	-1.67	
			For >20,000 To 40,000, Deduct	-2.59	
			For >40,000, Deduct	-3.72	
32 12 16 13-0007	SY		3" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	25.63	
			For PG64-10 Asphalt, Add	2.95	
			For Up To 340, Add	3.64	
			For >340 To 680, Add	3.01	
			For >3,400 To 6,800, Deduct	-1.10	
			For >6,800 To 17,000, Deduct	-2.01	
			For >17,000 To 34,000, Deduct	-3.11	
			For >34,000, Deduct	-4.47	
32 12 16 13-0008	SY		3-1/2" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	29.89	
			For PG64-10 Asphalt, Add	3.44	
			For Up To 280, Add	4.24	
			For >280 To 560, Add	2.36	
			For >2,800 To 5,600, Deduct	-1.29	
			For >5,600 To 14,000, Deduct	-2.34	
			For >14,000 To 28,000, Deduct	-3.63	
			For >28,000, Deduct	-5.21	
32 12 16 13-0009	SY		4" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	34.17	
			For PG64-10 Asphalt, Add	3.93	
			For Up To 250, Add	4.85	
			For >250 To 500, Add	2.70	
			For >2,500 To 5,000, Deduct	-1.47	
			For >5,000 To 12,000, Deduct	-2.68	
			For >12,000 To 24,000, Deduct	-4.15	
			For >24,000, Deduct	-5.96	
32 12 16 13-0010	SY		5" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	42.71	
			For PG64-10 Asphalt, Add	4.92	
			For Up To 200, Add	6.06	
			For >200 To 400, Add	3.38	
			For >2,000 To 4,000, Deduct	-1.84	
			For >4,000 To 10,000, Deduct	-3.35	
			For >10,000 To 20,000, Deduct	-5.19	
			For >20,000, Deduct	-7.45	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0011	SY	6" Thick Bituminous Hot Mix Intermediate Binder Course	51.25		
		Note: Includes placement, rolling, finishing and sweeping.			
		For PG64-10 Asphalt, Add	5.90		
		For Up To 160, Add	7.27		
		For >160 To 320, Add	4.05		
		For >1,600 To 3,200, Deduct	-2.21		
		For >3,200 To 8,000, Deduct	-4.02		
		For >8,000 To 16,000, Deduct	-6.22		
		For >16,000, Deduct	-8.94		
32 12 16 13-0012		Surface Wearing Courses, Hot Mix Asphalt (HMA) (32 12 16 13)			
		Note: SX (1/2") aggregate gradation			
32 12 16 13-0013	TON	Bituminous Hot Mix Surface Wearing Course 3,774 Lb./CY	159.15		
		Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.			
		For PG64-10 Asphalt, Add	8.55		
		For Warm Mix Additive, Add	7.41		
		For Up To 25, Add	24.05		
		For >25 To 50, Add	13.61		
		For >500 To 1,000, Deduct	-6.38		
		For >1,000 To 2,500, Deduct	-11.62		
		For >2,500 To 5,000, Deduct	-17.99		
		For >5,000, Deduct	-25.85		
32 12 16 13-0014	TON	Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR)	176.93		
		Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.			
		For Warm Mix Additive, Add	8.07		
		For Up To 25, Add	27.18		
		For >25 To 50, Add	15.43		
		For >500 To 1,000, Deduct	-7.00		
		For >1,000 To 2,500, Deduct	-12.77		
		For >2,500 To 5,000, Deduct	-19.77		
		For >5,000, Deduct	-28.41		
32 12 16 13-0015	TON	Asphalt Rubberized Hot Mix (ARHM) Surface Course	188.33		
		Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.			
		For Warm Mix Additive, Add	8.82		
		For Up To 25, Add	28.32		
		For >25 To 50, Add	16.00		
		For >500 To 1,000, Deduct	-7.57		
		For >1,000 To 2,500, Deduct	-13.79		
		For >2,500 To 5,000, Deduct	-21.37		
		For >5,000, Deduct	-30.69		
32 12 16 13-0016	SY	1" Thick Bituminous Hot Mix Surface Wearing Course	8.70		
		Note: Includes placement, rolling, finishing and sweeping.			
		For PG64-10 Asphalt, Add	0.45		
		For Up To 1,000, Add	1.36		
		For >1,000 To 2,000, Add	0.78		
		For >10,000 To 20,000, Deduct	-0.35		
		For >20,000 To 50,000, Deduct	-0.65		
		For >50,000 To 100,000, Deduct	-1.00		
		For >100,000, Deduct	-1.44		
32 12 16 13-0017	SY	1-1/2" Thick Bituminous Hot Mix Surface Wearing Course	12.87		
		Note: Includes placement, rolling, finishing and sweeping.			
		For PG64-10 Asphalt, Add	0.67		
		For Up To 700, Add	1.99		
		For >700 To 1,400, Add	1.13		
		For >7,000 To 14,000, Deduct	-0.53		
		For >14,000 To 32,000, Deduct	-0.96		
		For >32,000 To 64,000, Deduct	-1.49		
		For >64,000, Deduct	-2.14		
32 12 16 13-0018	SY	2" Thick Bituminous Hot Mix Surface Wearing Course	16.46		
		Note: Includes placement, rolling, finishing and sweeping.			
		For PG64-10 Asphalt, Add	0.90		
		For Up To 500, Add	2.46		
		For >500 To 1,000, Add	1.39		
		For >5,000 To 10,000, Deduct	-0.69		
		For >10,000 To 24,000, Deduct	-1.26		
		For >24,000 To 48,000, Deduct	-1.94		
		For >48,000, Deduct	-2.80		
32 12 16 13-0019	SY	2-1/2" Thick Bituminous Hot Mix Surface Wearing Course	20.86		
		Note: Includes placement, rolling, finishing and sweeping.			
		For PG64-10 Asphalt, Add	1.12		
		For Up To 400, Add	3.15		
		For >400 To 800, Add	1.78		
		For >4,000 To 8,000, Deduct	-0.87		
		For >8,000 To 20,000, Deduct	-1.58		
		For >20,000 To 40,000, Deduct	-2.45		
		For >40,000, Deduct	-3.52		
32 12 16 13-0020	SY	3" Thick Bituminous Hot Mix Surface Wearing Course	25.02		
		Note: Includes placement, rolling, finishing and sweeping.			
		For PG64-10 Asphalt, Add	1.34		
		For Up To 340, Add	3.78		
		For >340 To 680, Add	3.03		
		For >3,400 To 6,800, Deduct	-1.04		
		For >6,800 To 17,000, Deduct	-1.90		
		For >17,000 To 34,000, Deduct	-2.93		
		For >34,000, Deduct	-4.22		



Exterior Improvements			32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0021 CSF Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	102.08	
32 12 16 13-0022 Hand Placed, Hot Mix Asphalt (HMA) (32 12 16 13)		
32 12 16 13-0023 TON Hand Placed Hot Mixed Asphalt 3,954 Lb./CY Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.	412.21	
32 12 16 19 Cold-Mix Asphalt Paving (32 12 16)		
Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0001 Cold Mix Asphalt (CMA) Pavement (32 12 16 19)		
Note: 0.5 Gal asphalt/SY per inch depth; well-graded granular aggregate.		
32 12 16 19-0002 SY Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course.....	14.03	
32 12 16 19-0003 SY Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course	13.60	
32 12 16 19-0004 SY Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course	21.32	
32 12 16 39 Paving Fabrics (32 12 16)		
See CSI section 31 32 19 16-0000 for geotextile fabric.		
32 12 16 39-0001 Geotextile Paving Fabrics (32 12 16 39)		
32 12 16 39-0002 SY 3.6 Ounce/SY, 90 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O).....	1.98	
For Up To 50, Add	0.45	
For >50 To 150, Add	0.33	
For >150 To 250, Add	0.22	
For >250 To 500, Add	0.11	
32 12 16 39-0003 SY 4.1 Ounce/SY, 101 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42A/O).....	2.13	
For Up To 50, Add	0.48	
For >50 To 150, Add	0.35	
For >150 To 250, Add	0.23	
For >250 To 500, Add	0.12	
32 12 16 43 Waterproofing Membranes (32 12 16)		
32 12 16 43-0001 Waterproofing Membranes (32 12 16 43)		
32 12 16 43-0002 SY Up To 500 SY, Preformed Rubberized Asphalt Membrane	38.89	
32 12 16 43-0003 SY >500 To 1,000 SY, Preformed Rubberized Asphalt Membrane	28.94	
32 12 16 43-0004 SY >1,000 SY, Preformed Rubberized Asphalt Membrane	17.64	
32 12 33 Flexible Paving Surface Treatments (32 12)		
32 12 33 00-0001 Bituminous Surface Treatment For Roadways (32 12 33)		
Note: 0.25 Gallon bitumen per SY and 30 Lb. of gravel/SY.		
32 12 33 00-0002 SY Single Course Bituminous Treatment, Prepare And Clean Surface Roadway.....	3.29	
32 12 33 00-0003 SY Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	5.95	
32 12 33 00-0004 Bituminous Surface Treatment For Trails (32 12 33)		
Note: 0.25 Gallon bitumen per SY and 20 Lb. of gravel/SY.		
32 12 33 00-0005 SY Bituminous Surface Treatment, For Trails	2.21	
32 12 36 Seal Coats (32 12)		
See CSI section 32 01 13 62-0000 for slurry seal.		
32 12 36 13 Asphaltic Seal and Fog Coats (32 12 36)		
32 12 36 13-0001 Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13)		
Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
32 12 36 13-0002 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001)		
Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0003 SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.37	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0004 SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.85	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0005 SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.62	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0006 SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.36	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0007 SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.22	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0008 SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.11	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0009 SY >20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.97	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0010 SY >50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.90	
For Each Additional 0.5% Latex Additive, Add	0.63	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0011		Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001) Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0012	SY	Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.26	
		For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0013	SY	>200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.67	
		For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0014	SY	>500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.39	
		For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0015	SY	>1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.24	
		For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0016	SY	>5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.92	
		For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0017	SY	>10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.72	
		For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0018	SY	>20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.55	
		For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0019	SY	>50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.47	
		For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0020		Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001) Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0021	SY	Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.06	
		For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0022	SY	>200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.40	
		For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0023	SY	>500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.08	
		For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0024	SY	>1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.70	
		For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0025	SY	>5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.50	
		For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0026	SY	>10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.22	
		For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0027	SY	>20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.03	
		For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0028	SY	>50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.93	
		For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0029		Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001) Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0030	SY	Up To 200 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.14	
		For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0031	SY	>200 To 500 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.48	
		For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0032	SY	>500 To 1,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.15	
		For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0033	SY	>1,000 To 5,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.79	
		For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0034	SY	>5,000 To 10,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.59	
		For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0035	SY	>10,000 To 20,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.40	
		For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0036	SY	>20,000 To 50,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.13	
		For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0037	SY	>50,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.02	
		For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0038		Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001) Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0039	SY	Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	10.76	
		For Each Additional 0.5% Latex Additive, Add	1.54	
32 12 36 13-0040	SY	>200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	9.91	
		For Each Additional 0.5% Latex Additive, Add	1.54	
32 12 36 13-0041	SY	>500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	9.43	
		For Each Additional 0.5% Latex Additive, Add	1.54	
32 12 36 13-0042	SY	>1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.88	
		For Each Additional 0.5% Latex Additive, Add	1.54	
32 12 36 13-0043	SY	>5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.58	
		For Each Additional 0.5% Latex Additive, Add	1.54	
32 12 36 13-0044	SY	>10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.22	
		For Each Additional 0.5% Latex Additive, Add	1.54	
32 12 36 13-0045	SY	>20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.94	
		For Each Additional 0.5% Latex Additive, Add	1.54	
32 12 36 13-0046	SY	>50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.81	
		For Each Additional 0.5% Latex Additive, Add	1.54	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0047 Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13) Note: Includes initial sweeping prior to placement, cleaning of area, towed broom sled of scrub brush and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping. See CSI section 32 12 36 13-0084 for fog seal.		
32 12 36 13-0048 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0047) Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0049 SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.85	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0050 SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.56	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0051 SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.35	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0052 SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.12	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0053 SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.01	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0054 SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	3.91	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0055 SY >20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	3.80	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0056 SY >50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	3.76	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0057 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0047) Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0058 SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.76	
For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0059 SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.41	
For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0060 SY >500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.19	
For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0061 SY >1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.02	
For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0062 SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.72	
For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0063 SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.53	
For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0064 SY >20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.39	
For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0065 SY >50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.33	
For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0066 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0047) Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0067 SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.61	
For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0068 SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.17	
For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0069 SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.86	
For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0070 SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.51	
For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0071 SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.32	
For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0072 SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.04	
For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0073 SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.86	
For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0074 SY >50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.80	
For Each Additional 0.5% Latex Additive, Add	0.93	
32 12 36 13-0075 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0047) Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0076 SY Up To 200 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.70	
For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0077 SY >200 To 500 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.27	
For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0078 SY >500 To 1,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.94	
For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0079 SY >1,000 To 5,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.57	
For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0080 SY >5,000 To 10,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.38	
For Each Additional 0.5% Latex Additive, Add	1.07	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0081 SY >10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.22	
For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0082 SY >20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.96	
For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0083 SY >50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.89	
For Each Additional 0.5% Latex Additive, Add	1.07	
32 12 36 13-0084 Fog Seal, CQS-1h (32 12 36 13)		
Note: A fog seal is a light application of diluted, slow-setting asphalt emulsion without aggregate cover. Includes sweeping and cleaning of area.		
32 12 36 13-0085 SY Up To 200 SY, CQS-1h, Fog Seal	2.05	
32 12 36 13-0086 SY >200 To 500 SY, CQS-1h, Fog Seal	1.50	
32 12 36 13-0087 SY >500 To 1,000 SY, CQS-1h, Fog Seal	1.27	
32 12 36 13-0088 SY >1,000 To 5,000 SY, CQS-1h, Fog Seal	1.09	
32 12 36 13-0089 SY >5,000 To 10,000 SY, CQS-1h, Fog Seal	1.00	
32 12 36 13-0090 SY >10,000 To 20,000 SY, CQS-1h, Fog Seal	0.92	
32 12 36 13-0091 SY >20,000 To 50,000 SY, CQS-1h, Fog Seal	0.86	
32 12 36 13-0092 SY >50,000 SY, CQS-1h, Fog Seal	0.83	
32 12 36 13-0093 Sand Sealer (32 12 36 13)		
Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.		
32 12 36 13-0094 SY Up To 200 SY, Sand Seal	2.97	
32 12 36 13-0095 SY >200 To 500 SY, Sand Seal	1.98	
32 12 36 13-0096 SY >500 To 1,000 SY, Sand Seal	1.96	
32 12 36 13-0097 SY >1,000 To 5,000 SY, Sand Seal	1.72	
32 12 36 13-0098 SY >5,000 To 10,000 SY, Sand Seal	1.61	
32 12 36 13-0099 SY >10,000 To 20,000 SY, Sand Seal	1.50	
32 12 36 13-0100 SY >20,000 To 50,000 SY, Sand Seal	1.42	
32 12 36 13-0101 SY >50,000 SY, Sand Seal	1.40	
32 12 36 16 Coal Tar Seal Coats (32 12 36)		
32 12 36 16-0001 Thermoplastic Coal-Tar Asphalt Seal (32 12 36 16)		
Note: Includes sweeping and cleaning of area.		
32 12 36 16-0002 SY Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	17.43	
32 12 36 16-0003 SY >500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	16.42	
32 12 36 16-0004 SY >1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	14.49	
32 12 36 16-0005 SY >5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	13.02	
32 12 36 16-0006 SY >20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	11.09	
32 12 36 16-0007 SY >50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	9.15	
32 12 36 16-0008 SY Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	21.25	
32 12 36 16-0009 SY >500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	20.10	
32 12 36 16-0010 SY >1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	17.78	
32 12 36 16-0011 SY >5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	16.05	
32 12 36 16-0012 SY >20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	13.72	
32 12 36 16-0013 SY >50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	11.39	
32 12 36 23 Fuel-Resistant Sealers (32 12 36)		
32 12 36 23-0001 Guardtop Seal Coat (32 12 36 23)		
Note: Includes sweeping and cleaning of area.		
32 12 36 23-0002 SY GuardTop® Asphalt Based Sealcoat (Two Coats)	3.40	
For 3% Polyglass Additive, Add	0.40	
For 6% Polyglass Additive, Add	0.72	
For Guardtop Black Sand 60 Mesh Additive (At 3 Pounds Per Gallon), Add	0.27	
32 12 36 23-0003 LF GuardTop® Cold Pour Crack Filler	1.41	
32 12 36 23-0004 LF GuardTop® Hot Pour Crack Filler	1.60	
32 12 36 23-0005 SY GuardTop® Oil Spot Primer For Asphalt	6.26	
32 12 36 23-0006 SY GuardTop® Ultra, Polymer Modified, Asphalt Based Sealcoat (Two Coats)	4.52	
For 3% Polyglass Additive, Add	0.40	
For 6% Polyglass Additive, Add	0.72	
For Guardtop Black Sand 60 Mesh Additive (At 3 Pounds Per Gallon), Add	0.27	
32 12 43 Porous Flexible Paving (32 12)		
32 12 43 00-0001 Flexible Recycled Plastic Porous Grid (32 12 43)		
Note: Includes sand fill in rings. Excludes base, earthwork and grass or sod.		
32 12 43 00-0002 SY 1" Thick, Recycled Plastic Flexible Pavement With Sand Fill	40.38	
Note: Includes sand fill in rings. Excludes base, earthwork and grass or sod. Invisible Structures, Inc.; Grasspave2.		
For Up To 100, Add	13.40	
For >100 To 500, Add	3.34	
For >1,000 To 5,000, Deduct	-1.32	
For >5,000, Deduct	-2.80	
32 12 73 Asphalt Paving Joint Sealants (32 12)		



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Flexible Paving			32 12

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 12 73 00-0001			Expansion Joint In Sidewalk (32 12 73)		
32 12 73 00-0002	LF		For Hot Asphalt Poured Over Expansion Joint In Sidewalk	3.64	

32 13 Rigid Paving (32 10)**32 13 13 Concrete Paving** (32 13)

Note: The following section includes spreading and placing delivered Portland cement concrete mix.

32 13 13 33 Plain Concrete Paving (32 13 13)**32 13 13 33-0001 Concrete Paving Assemblies** (32 13 13 33)

Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.

32 13 13 33-0002 4,500 PSI Concrete Paving Assembly (32 13 13 33-0001)

32 13 13 33-0003	SY	4" 4,500 PSI Concrete Paving Assembly	60.57
		For 2,500 PSI Concrete, Deduct	-3.13
		For 3,000 PSI Concrete, Deduct	-2.04
		For 3,500 PSI Concrete, Deduct	-1.63
		For 4,000 PSI Concrete, Deduct	-0.71
		For 5,000 PSI Concrete, Add	0.44
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	3.54
		For <12' Wide Pass, Add	11.06
		For 24' Or Greater Wide Pass, Deduct	-12.11
		For Air Entrainment, Add	1.36
		For Slipforming, Deduct	-6.06
		For Up To 100, Add	25.46
		For >100 To 250, Add	14.09
		For >250 To 500, Add	7.05
		For >1,000 To 2,000, Deduct	-1.36
		For >2,000 To 5,000, Deduct	-2.87
		For >5,000 To 10,000, Deduct	-4.39
		For >10,000 To 20,000, Deduct	-5.90
		For >20,000, Deduct	-7.42
32 13 13 33-0004	SY	5" 4,500 PSI Concrete Paving Assembly	71.22
		For 2,500 PSI Concrete, Deduct	-3.93
		For 3,000 PSI Concrete, Deduct	-2.56
		For 3,500 PSI Concrete, Deduct	-2.05
		For 4,000 PSI Concrete, Deduct	-0.89
		For 5,000 PSI Concrete, Add	0.55
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	4.44
		For <12' Wide Pass, Add	12.68
		For 24' Or Greater Wide Pass, Deduct	-14.24
		For Air Entrainment, Add	1.71
		For Slipforming, Deduct	-7.12
		For Up To 100, Add	29.08
		For >100 To 250, Add	16.25
		For >250 To 500, Add	8.12
		For >1,000 To 2,000, Deduct	-1.71
		For >2,000 To 5,000, Deduct	-3.49
		For >5,000 To 10,000, Deduct	-5.27
		For >10,000 To 20,000, Deduct	-7.05
		For >20,000, Deduct	-8.83
32 13 13 33-0005	SY	6" 4,500 PSI Concrete Paving Assembly	76.19
		For 2,500 PSI Concrete, Deduct	-4.14
		For 3,000 PSI Concrete, Deduct	-2.70
		For 3,500 PSI Concrete, Deduct	-2.16
		For 4,000 PSI Concrete, Deduct	-0.94
		For 5,000 PSI Concrete, Add	0.58
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	4.68
		For <12' Wide Pass, Add	13.65
		For 24' Or Greater Wide Pass, Deduct	-15.24
		For Air Entrainment, Add	1.80
		For Slipforming, Deduct	-7.62
		For Up To 100, Add	31.31
		For >100 To 250, Add	17.46
		For >250 To 500, Add	8.73
		For >1,000 To 2,000, Deduct	-1.80
		For >2,000 To 5,000, Deduct	-3.71
		For >5,000 To 10,000, Deduct	-5.61
		For >10,000 To 20,000, Deduct	-7.51
		For >20,000, Deduct	-9.42

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0006	SY	7"	4,500 PSI Concrete Paving Assembly	89.91	
			For 2,500 PSI Concrete, Deduct	-5.22	
			For 3,000 PSI Concrete, Deduct	-3.41	
			For 3,500 PSI Concrete, Deduct	-2.72	
			For 4,000 PSI Concrete, Deduct	-1.18	
			For 5,000 PSI Concrete, Add	0.73	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.90	
			For <12' Wide Pass, Add	15.67	
			For 24' Or Greater Wide Pass, Deduct	-17.98	
			For Air Entrainment, Add	2.27	
			For Slipforming, Deduct	-8.99	
			For Up To 100, Add	35.78	
			For >100 To 250, Add	20.16	
			For >250 To 500, Add	10.08	
			For >1,000 To 2,000, Deduct	-2.27	
			For >2,000 To 5,000, Deduct	-4.52	
			For >5,000 To 10,000, Deduct	-6.77	
			For >10,000 To 20,000, Deduct	-9.01	
			For >20,000, Deduct	-11.26	
32 13 13 33-0007	SY	8"	4,500 PSI Concrete Paving Assembly	103.25	
			For 2,500 PSI Concrete, Deduct	-5.73	
			For 3,000 PSI Concrete, Deduct	-3.74	
			For 3,500 PSI Concrete, Deduct	-2.99	
			For 4,000 PSI Concrete, Deduct	-1.30	
			For 5,000 PSI Concrete, Add	0.80	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.48	
			For <12' Wide Pass, Add	18.34	
			For 24' Or Greater Wide Pass, Deduct	-20.65	
			For Air Entrainment, Add	2.49	
			For Slipforming, Deduct	-10.33	
			For Up To 100, Add	42.01	
			For >100 To 250, Add	23.50	
			For >250 To 500, Add	11.75	
			For >1,000 To 2,000, Deduct	-2.49	
			For >2,000 To 5,000, Deduct	-5.07	
			For >5,000 To 10,000, Deduct	-7.65	
			For >10,000 To 20,000, Deduct	-10.24	
			For >20,000, Deduct	-12.82	
32 13 13 33-0008	SY	9"	4,500 PSI Concrete Paving Assembly	116.55	
			For 2,500 PSI Concrete, Deduct	-6.62	
			For 3,000 PSI Concrete, Deduct	-4.32	
			For 3,500 PSI Concrete, Deduct	-3.46	
			For 4,000 PSI Concrete, Deduct	-1.50	
			For 5,000 PSI Concrete, Add	0.92	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	7.49	
			For <12' Wide Pass, Add	20.50	
			For 24' Or Greater Wide Pass, Deduct	-23.31	
			For Air Entrainment, Add	2.88	
			For Slipforming, Deduct	-11.66	
			For Up To 100, Add	46.89	
			For >100 To 250, Add	26.33	
			For >250 To 500, Add	13.16	
			For >1,000 To 2,000, Deduct	-2.88	
			For >2,000 To 5,000, Deduct	-5.79	
			For >5,000 To 10,000, Deduct	-8.71	
			For >10,000 To 20,000, Deduct	-11.62	
			For >20,000, Deduct	-14.53	
32 13 13 33-0009	SY	10"	4,500 PSI Concrete Paving Assembly	130.11	
			For 2,500 PSI Concrete, Deduct	-7.29	
			For 3,000 PSI Concrete, Deduct	-4.75	
			For 3,500 PSI Concrete, Deduct	-3.80	
			For 4,000 PSI Concrete, Deduct	-1.65	
			For 5,000 PSI Concrete, Add	1.01	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	8.24	
			For <12' Wide Pass, Add	23.03	
			For 24' Or Greater Wide Pass, Deduct	-26.02	
			For Air Entrainment, Add	3.17	
			For Slipforming, Deduct	-13.01	
			For Up To 100, Add	52.73	
			For >100 To 250, Add	29.53	
			For >250 To 500, Add	14.77	
			For >1,000 To 2,000, Deduct	-3.17	
			For >2,000 To 5,000, Deduct	-6.42	
			For >5,000 To 10,000, Deduct	-9.67	
			For >10,000 To 20,000, Deduct	-12.93	
			For >20,000, Deduct	-16.18	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Rigid Paving			32 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0010	SY		12" 4,500 PSI Concrete Paving Assembly.....	155.13	
			For 2,500 PSI Concrete, Deduct	-8.63	
			For 3,000 PSI Concrete, Deduct	-5.63	
			For 3,500 PSI Concrete, Deduct	-4.50	
			For 4,000 PSI Concrete, Deduct	-1.95	
			For 5,000 PSI Concrete, Add	1.20	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	9.75	
			For <12' Wide Pass, Add	27.53	
			For 24' Or Greater Wide Pass, Deduct	-31.03	
			For Air Entrainment, Add	3.75	
			For Slipforming, Deduct	-15.51	
			For Up To 100, Add	63.07	
			For >100 To 250, Add	35.29	
			For >250 To 500, Add	17.64	
			For >1,000 To 2,000, Deduct	-3.75	
			For >2,000 To 5,000, Deduct	-7.63	
			For >5,000 To 10,000, Deduct	-11.51	
			For >10,000 To 20,000, Deduct	-15.39	
			For >20,000, Deduct	-19.26	
32 13 13 33-0011	SY		15" 4,500 PSI Concrete Paving Assembly.....	198.44	
			For 2,500 PSI Concrete, Deduct	-10.59	
			For 3,000 PSI Concrete, Deduct	-6.91	
			For 3,500 PSI Concrete, Deduct	-5.53	
			For 4,000 PSI Concrete, Deduct	-2.40	
			For 5,000 PSI Concrete, Add	1.47	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	11.98	
			For <12' Wide Pass, Add	35.79	
			For 24' Or Greater Wide Pass, Deduct	-39.69	
			For Air Entrainment, Add	4.61	
			For Slipforming, Deduct	-19.84	
			For Up To 100, Add	82.21	
			For >100 To 250, Add	45.71	
			For >250 To 500, Add	22.86	
			For >1,000 To 2,000, Deduct	-4.61	
			For >2,000 To 5,000, Deduct	-9.57	
			For >5,000 To 10,000, Deduct	-14.53	
			For >10,000 To 20,000, Deduct	-19.49	
			For >20,000, Deduct	-24.45	
32 13 16 Decorative Concrete Paving (32 13)					
32 13 16 13 Patterned Concrete Paving (32 13 16)					
See CSI section 32 17 26 00-0000 for tactile warning surfaces.					
32 13 16 13-0001	SF		For Patterned (Tactile) Finish In Concrete Sidewalk.....	5.33	
32 13 43 Pervious Concrete Paving (32 13)					
32 13 43 00-0001 Pervious Concrete Assemblies (32 13 43)					
Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.					
32 13 43 00-0002	SF		6" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	19.74	
			Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
			For >5,000 To 30,000, Deduct	-2.12	
			For >30,000 To 100,000, Deduct	-3.88	
			For >100,000, Deduct	-4.82	
32 13 43 00-0003	SF		9" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	25.02	
			Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
			For >5,000 To 30,000, Deduct	-2.61	
			For >30,000 To 100,000, Deduct	-4.69	
			For >100,000, Deduct	-5.83	
32 13 73 Concrete Paving Joint Sealants (32 13)					
32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)					
32 13 73 13-0001 Concrete Pavement Joint And Crack Repair (32 13 73 13)					
Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.					
32 13 73 13-0002 Silicone Concrete Pavement Joint And Crack Repair (32 13 73 13-0001)					
32 13 73 13-0003	CLF		1/4" x 1/4" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	664.73	
			For Custom Match Coloring, Add	16.36	
			For 1 Part Mildew Resistant, Add	23.85	
			For High-Modulus Non-Acid Curing, Add	13.63	
32 13 73 13-0004	CLF		1/4" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	738.58	
			For Custom Match Coloring, Add	24.53	
			For 1 Part Mildew Resistant, Add	35.78	
			For High-Modulus Non-Acid Curing, Add	20.44	
32 13 73 13-0005	CLF		1/4" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	812.43	
			For Custom Match Coloring, Add	32.71	
			For 1 Part Mildew Resistant, Add	47.71	
			For High-Modulus Non-Acid Curing, Add	27.26	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 73 13-0006	CLF	3/8" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	829.46	
		For Custom Match Coloring, Add	36.80	
		For 1 Part Mildew Resistant, Add	53.67	
		For High-Modulus Non-Acid Curing, Add	30.67	
32 13 73 13-0007	CLF	3/8" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair	900.45	
		For Custom Match Coloring, Add	49.07	
		For 1 Part Mildew Resistant, Add	71.55	
		For High-Modulus Non-Acid Curing, Add	40.89	
32 13 73 13-0008	CLF	3/8" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	971.45	
		For Custom Match Coloring, Add	61.33	
		For 1 Part Mildew Resistant, Add	89.44	
		For High-Modulus Non-Acid Curing, Add	51.11	
32 13 73 13-0009	CLF	3/8" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,062.34	
		For Custom Match Coloring, Add	73.60	
		For 1 Part Mildew Resistant, Add	107.33	
		For High-Modulus Non-Acid Curing, Add	61.33	
32 13 73 13-0010	CLF	1/2" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair	988.49	
		For Custom Match Coloring, Add	65.42	
		For 1 Part Mildew Resistant, Add	95.41	
		For High-Modulus Non-Acid Curing, Add	54.52	
32 13 73 13-0011	CLF	1/2" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,136.19	
		For Custom Match Coloring, Add	81.78	
		For 1 Part Mildew Resistant, Add	119.26	
		For High-Modulus Non-Acid Curing, Add	68.15	
32 13 73 13-0012	CLF	1/2" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,244.11	
		For Custom Match Coloring, Add	98.13	
		For 1 Part Mildew Resistant, Add	143.11	
		For High-Modulus Non-Acid Curing, Add	81.78	
32 13 73 13-0013	CLF	1/2" x 7/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,352.03	
		For Custom Match Coloring, Add	114.49	
		For 1 Part Mildew Resistant, Add	166.96	
		For High-Modulus Non-Acid Curing, Add	95.41	
32 13 73 13-0014	CLF	1/2" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,440.06	
		For Custom Match Coloring, Add	130.84	
		For 1 Part Mildew Resistant, Add	190.81	
		For High-Modulus Non-Acid Curing, Add	109.04	
32 13 73 13-0015	CLF	3/4" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,528.10	
		For Custom Match Coloring, Add	147.20	
		For 1 Part Mildew Resistant, Add	214.67	
		For High-Modulus Non-Acid Curing, Add	122.67	
32 13 73 13-0016	CLF	3/4" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,806.38	
		For Custom Match Coloring, Add	204.44	
		For 1 Part Mildew Resistant, Add	298.15	
		For High-Modulus Non-Acid Curing, Add	170.37	
32 13 73 13-0017	CLF	1" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair	2,084.66	
		For Custom Match Coloring, Add	261.69	
		For 1 Part Mildew Resistant, Add	381.63	
		For High-Modulus Non-Acid Curing, Add	218.07	
32 13 73 16		Field-Molded Concrete Paving Joint Sealants (32 13 73)		
32 13 73 16-0001		Preformed Elastomeric Concrete Pavement Joint And Crack Repair (32 13 73 16)		
		Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 16-0002	LF	Joint Sealing, Concrete Pavement Preformed Elastomeric	15.02	
32 13 73 19		Compression Concrete Paving Joint Sealants (32 13 73)		
32 13 73 19-0001		Silicone Joint Sealant For Concrete Pavement (32 13 73 19)		
		Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.		
32 13 73 19-0002	CLF	1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	607.93	127.34
		For >25 To 50, Deduct	-16.18	
		For >50 To 100, Deduct	-32.86	
		For >100 To 175, Deduct	-48.06	
		For >175 To 250, Deduct	-65.72	
		For >250, Deduct	-83.38	
32 13 73 19-0003	CLF	3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	686.67	135.84
		For >25 To 50, Deduct	-18.60	
		For >50 To 100, Deduct	-37.92	
		For >100 To 175, Deduct	-55.08	
		For >175 To 250, Deduct	-75.83	
		For >250, Deduct	-96.58	
32 13 73 19-0004	CLF	1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	790.79	144.33
		For >25 To 50, Deduct	-21.90	
		For >50 To 100, Deduct	-44.88	
		For >100 To 175, Deduct	-64.65	
		For >175 To 250, Deduct	-89.75	
		For >250, Deduct	-114.86	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Rigid Paving			32 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 73 19-0005	CLF	3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement		1,141.32	161.30
		For >25 To 50, Deduct		-33.49	
		For >50 To 100, Deduct		-69.47	
		For >100 To 175, Deduct		-98.00	
		For >175 To 250, Deduct		-138.94	
		For >250, Deduct		-179.87	
32 13 73 19-0006	CLF	1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	.....	1,550.47	191.02
		For >25 To 50, Deduct		-46.63	
		For >50 To 100, Deduct		-97.18	
		For >100 To 175, Deduct		-135.94	
		For >175 To 250, Deduct		-194.37	
		For >250, Deduct		-252.79	
32 13 73 19-0007	CLF	1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	.....	2,217.92	212.24
		For >25 To 50, Deduct		-69.14	
		For >50 To 100, Deduct		-145.12	
		For >100 To 175, Deduct		-200.57	
		For >175 To 250, Deduct		-290.24	
		For >250, Deduct		-379.91	
32 13 73 19-0008	CLF	2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	.....	3,082.32	235.83
		For >25 To 50, Deduct		-98.45	
		For >50 To 100, Deduct		-207.59	
		For >100 To 175, Deduct		-284.65	
		For >175 To 250, Deduct		-415.18	
		For >250, Deduct		-545.72	

32 14 Unit Paving (32 10)

32 14 09 Paver Restraints (32 14)

32 14 09 00-0001 Paver Restraints (32 14 09)

Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.

32 14 09 00-0002	LF	Up To 2" Height, Vinyl Paver Restraint	.....	5.58	1.32
		For >1,000 To 2,000, Deduct		-0.77	
		For >2,000 To 4,000, Deduct		-1.11	
		For >4,000, Deduct		-1.43	
32 14 09 00-0003	LF	Up To 2" Height, Galvanized Steel Paver Restraint	.....	6.05	1.32
		For >500 To 1,000, Deduct		-0.20	
		For >1,000 To 2,000, Deduct		-0.40	
		For >2,000, Deduct		-0.59	
32 14 09 00-0004	LF	Up To 1" Height, Aluminum Paver Restraint	.....	5.82	1.32
		For >250 To 500, Deduct		-0.37	
		For >500 To 1,000, Deduct		-0.56	
		For >1,000 To 1,500, Deduct		-0.93	
32 14 09 00-0005	LF	>1" To 2" Height, Aluminum Paver Restraint	.....	6.86	1.32
		For >250 To 500, Deduct		-0.48	
		For >500 To 1,000, Deduct		-0.71	
		For >1,000 To 1,500, Deduct		-1.19	
32 14 09 00-0006	LF	>2" To 3" Height, Aluminum Paver Restraint	.....	8.87	1.32
		For >250 To 500, Deduct		-0.68	
		For >500 To 1,000, Deduct		-1.02	
		For >1,000 To 1,500, Deduct		-1.69	
32 14 09 00-0007	LF	>3" To 4" Height, Aluminum Paver Restraint	.....	10.40	1.32
		For >250 To 500, Deduct		-0.83	
		For >500 To 1,000, Deduct		-1.25	
		For >1,000 To 1,500, Deduct		-2.08	

32 14 11 Bedding for Unit Paving (32 14)

32 14 11 00-0001 Bedding For Brick, Precast Concrete Paver And Stone Sidewalk (32 14 11)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.

32 14 11 00-0002	SF	1" To 2" Screeded Sand Bedding	.....	1.04	
		For Up To 100, Add		0.47	
		For >100 To 500, Add		0.14	
		For >1,000 To 5,000, Deduct		-0.08	
		For >5,000, Deduct		-0.13	
32 14 11 00-0003	SF	1" To 2" Screeded Stone Dust Bedding	.....	1.21	
		For Up To 100, Add		0.51	
		For >100 To 500, Add		0.14	
		For >1,000 To 5,000, Deduct		-0.08	
		For >5,000, Deduct		-0.14	
32 14 11 00-0004	SF	3" Screeded Stone Dust Bedding	.....	1.55	
		For Up To 100, Add		0.64	
		For >100 To 500, Add		0.18	
		For >1,000 To 5,000, Deduct		-0.10	
		For >5,000, Deduct		-0.17	
32 14 11 00-0005	SF	4" Screeded Stone Dust Bedding	.....	1.96	
		For Up To 100, Add		0.80	
		For >100 To 500, Add		0.22	
		For >1,000 To 5,000, Deduct		-0.12	
		For >5,000, Deduct		-0.21	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 11 00-0006	SF	1" Mortar Bedding	3.32	
		For Up To 100, Add	1.52	
		For >100 To 500, Add	0.44	
		For >1,000 To 5,000, Deduct	-0.28	
		For >5,000, Deduct	-0.43	
32 14 11 00-0007	SF	2" Mortar Bedding	4.82	
		For Up To 100, Add	2.13	
		For >100 To 500, Add	0.61	
		For >1,000 To 5,000, Deduct	-0.37	
		For >5,000, Deduct	-0.59	
32 14 11 00-0008	SF	Thin-Set Latex Portland Cement Mortar	1.72	
		For Up To 100, Add	0.80	
		For >100 To 500, Add	0.23	
		For >1,000 To 5,000, Deduct	-0.15	
		For >5,000, Deduct	-0.23	

32 14 13 Precast Concrete Unit Paving (32 14)**32 14 13 16 Precast Concrete Unit Paving Slabs** (32 14 13)

32 14 13 16-0001		Precast Concrete Paver Sidewalk (32 14 13 16)		
		Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 13 16-0002	SF	2-3/8" Thick, Up To 32 SI Precast Concrete Paver	11.51	3.43
		Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	1.04	
		For 3-1/8" Concrete Paver, Add	1.67	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.92	
		For Up To 100, Add	4.60	
		For >100 To 500, Add	1.26	
		For >1,000 To 5,000, Deduct	-0.69	
		For >5,000, Deduct	-1.17	
32 14 13 16-0003	SF	2-3/8" Thick, >32 to 64 SI Precast Concrete Paver	10.89	3.13
		Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	1.01	
		For 3-1/8" Concrete Paver, Add	1.63	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.86	
		For Up To 100, Add	4.29	
		For >100 To 500, Add	1.17	
		For >1,000 To 5,000, Deduct	-0.63	
		For >5,000, Deduct	-1.08	
32 14 13 16-0004	SF	2-3/8" Thick, >64 to 144 SI Precast Concrete Paver	10.31	2.49
		Note: Includes 6" x 12", 12" x 12" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	0.98	
		For 3-1/8" Concrete Paver, Add	1.58	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.80	
		For Up To 100, Add	4.00	
		For >100 To 500, Add	1.08	
		For >1,000 To 5,000, Deduct	-0.57	
		For >5,000, Deduct	-0.99	
32 14 13 16-0005	SF	2-3/8" Thick, >144 SI Precast Concrete Paver	9.79	2.59
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	0.95	
		For 3-1/8" Concrete Paver, Add	1.54	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.75	
		For Up To 100, Add	3.74	
		For >100 To 500, Add	1.01	
		For >1,000 To 5,000, Deduct	-0.52	
		For >5,000, Deduct	-0.91	
32 14 13 16-0006	SF	2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns	10.59	2.98
		Note: Patterns made by combining pavers from two or more size groups.		
		For 2-3/4" Concrete Paver, Add	0.99	
		For 3-1/8" Concrete Paver, Add	1.60	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.83	
		For Up To 100, Add	4.14	
		For >100 To 500, Add	1.13	
		For >1,000 To 5,000, Deduct	-0.60	
		For >5,000, Deduct	-1.03	

32 14 13 19 Porous Precast Concrete Unit Paving (32 14 13)**32 14 13 19-0001 Turf Block** (32 14 13 19)

Note: Grass grid, open-cell unit paver, geoblock.

32 14 13 19-0002	SF	3-1/8" Thick, Precast Concrete Turf Block	13.01	2.98
		For Up To 100, Add	4.75	
		For >100 To 500, Add	1.25	
		For >1,000 To 5,000, Deduct	-0.60	
		For >5,000, Deduct	-1.11	

32 14 16 Brick Unit Paving (32 14)



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Unit Paving			32 14

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 16 00-0001			Brick Paver Sidewalk (32 14 16) Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 16 00-0002	SF		4" x 8" x 2-1/4" Brick Paver, Laid Flat For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	16.15 -3.59 8.25 1.15 5.76 1.50 -0.69 -1.31	3.43
32 14 16 00-0003	SF		4" x 8" x 2-1/4" Brick, Laid On Edge For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	24.30 -6.16 14.45 1.61 8.03 2.00 -0.78 -1.67	3.92
32 14 33			Plastic Paving (32 14)		
32 14 33 13			Permeable Plastic Paving (32 14 33)		
32 14 33 13-0001			Turf Block Plastic Paving (32 14 33 13)		
32 14 33 13-0002	SF		4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	19.95 6.48 1.59 -0.60 -1.31	2.98
32 14 40			Stone Paving (32 14)		
32 14 40 00-0001			Slate Paver Sidewalk (32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0002	SF		1" Thick, Up to 54 SI Slate Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	16.47 1.11 -8.32 -5.81 5.54 1.39 -0.57 -1.18	2.85
32 14 40 00-0003	SF		1" Thick, >54 to 108 SI Slate Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.95 1.06 -8.19 -5.73 5.28 1.31 -0.52 -1.10	2.59
32 14 40 00-0004	SF		1" Thick, >108 to 216 SI Slate Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.06 0.97 -7.97 -5.60 4.84 1.18 -0.43 -0.97	2.14
32 14 40 00-0005	SF		1" Thick, >216 SI Slate Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	14.67 0.93 -7.87 -5.54 4.64 1.12 -0.39 -0.91	1.94
32 14 40 00-0006	SF		1" Thick, Slate Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.46 1.01 -8.07 -5.66 5.04 1.24 -0.47 -1.03	2.34

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 14 40 00-0007	Granite Paver Sidewalk (32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.				
32 14 40 00-0008	SF 1" Thick, Up to 54 SI Granite Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	31.19 1.84 1.56 3.12 3.40 9.22 2.13 -0.57 -1.62		2.85	
32 14 40 00-0009	SF 1" Thick, >54 to 108 SI Granite Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	30.67 1.79 1.53 3.07 3.33 8.96 2.05 -0.52 -1.54		2.59	
32 14 40 00-0010	SF 1" Thick, >108 to 216 SI Granite Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	29.78 1.70 1.49 2.98 3.19 8.52 1.92 -0.43 -1.41		2.14	
32 14 40 00-0011	SF 1" Thick, >216 SI Granite Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	29.39 1.66 1.47 2.94 3.13 8.32 1.86 -0.39 -1.35		1.94	
32 14 40 00-0012	SF 1" Thick, Granite Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	30.18 1.74 1.51 3.02 3.25 8.72 1.98 -0.47 -1.47		2.34	

32 15 Aggregate Surfacing (32 15)**32 15 40 Crushed Stone Surfacing** (32 15)

Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.

32 15 40 00-0001 Gravel Surfacing And Spreading (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water.

32 15 40 00-0002 CY Gravel Surfacing And Spreading 105.76

32 15 40 00-0003 Limestone Screenings (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.

32 15 40 00-0004 CY Limestone Screenings For Trail 73.60

32 15 40 00-0005 Decomposed Granite (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water.

32 15 40 00-0006 SY 3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway 20.65

Note: Placed in 2 lifts.

For Additional 2" Lift 10.33
For >45 To 180, Deduct -1.38
For >180 To 450, Deduct -1.72
For >450, Deduct -2.07

32 16 Curbs, Gutters, Sidewalks, and Driveways (32 16)**32 16 13 Curbs and Gutters** (32 16)

Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Curbs, Gutters, Sidewalks, and Driveways			32 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

section 02 41 19 13-0059 for additional saw cuts within the 100'.

32 16 13 13 Cast-In-Place Concrete Curbs and Gutters (32 16 13)

Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0001 CALTRANS Cast In Place Concrete Curbs Assemblies (32 16 13 13)

Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0002	LF	CALTRANS Type A1-6 Straight Concrete Curb Assembly	26.21	11.20
		For Up To 20, Add	15.04	
		For >20 To 50, Add	8.50	
		For >50 To 100, Add	3.27	
		For >500 To 1,000, Deduct	-3.27	
		For >1,000, Deduct	-5.56	
32 16 13 13-0003	LF	CALTRANS Type A1-6 Radius Concrete Curb Assembly	29.37	12.88
		For Up To 20, Add	17.21	
		For >20 To 50, Add	9.74	
		For >50 To 100, Add	3.74	
		For >500 To 1,000, Deduct	-3.74	
		For >1,000, Deduct	-6.34	
32 16 13 13-0004	LF	CALTRANS Type A1-8 Straight Concrete Curb Assembly	27.20	11.20
		For Up To 20, Add	16.36	
		For >20 To 50, Add	9.27	
		For >50 To 100, Add	3.54	
		For >500 To 1,000, Deduct	-3.54	
		For >1,000, Deduct	-6.00	
32 16 13 13-0005	LF	CALTRANS Type A1-8 Radius Concrete Curb Assembly	29.24	12.88
		For Up To 20, Add	17.75	
		For >20 To 50, Add	10.06	
		For >50 To 100, Add	3.84	
		For >500 To 1,000, Deduct	-3.84	
		For >1,000, Deduct	-6.49	
32 16 13 13-0006	LF	CALTRANS Type A3-6 Straight Concrete Curb Assembly	14.13	7.57
		For Up To 20, Add	8.43	
		For >20 To 50, Add	4.77	
		For >50 To 100, Add	1.83	
		For >500 To 1,000, Deduct	-1.83	
		For >1,000, Deduct	-3.09	
32 16 13 13-0007	LF	CALTRANS Type A3-6 Radius Concrete Curb Assembly	16.37	8.74
		For Up To 20, Add	9.99	
		For >20 To 50, Add	5.67	
		For >50 To 100, Add	2.16	
		For >500 To 1,000, Deduct	-2.16	
		For >1,000, Deduct	-3.65	
32 16 13 13-0008	LF	CALTRANS Type A3-8 Straight Concrete Curb Assembly	15.61	7.84
		For Up To 20, Add	9.17	
		For >20 To 50, Add	5.19	
		For >50 To 100, Add	1.99	
		For >500 To 1,000, Deduct	-1.99	
		For >1,000, Deduct	-3.37	
32 16 13 13-0009	LF	CALTRANS Type A3-8 Radius Concrete Curb Assembly	17.97	9.41
		For Up To 20, Add	10.82	
		For >20 To 50, Add	6.13	
		For >50 To 100, Add	2.34	
		For >500 To 1,000, Deduct	-2.34	
		For >1,000, Deduct	-3.96	
32 16 13 13-0010	LF	CALTRANS Type B1-4 Straight Concrete Curb Assembly	23.94	11.20
		For Up To 20, Add	13.74	
		For >20 To 50, Add	7.77	
		For >50 To 100, Add	2.99	
		For >500 To 1,000, Deduct	-2.99	
		For >1,000, Deduct	-5.08	
32 16 13 13-0011	LF	CALTRANS Type B1-4 Straight Concrete Curb Assembly	26.82	12.88
		For Up To 20, Add	15.72	
		For >20 To 50, Add	8.90	
		For >50 To 100, Add	3.41	
		For >500 To 1,000, Deduct	-3.41	
		For >1,000, Deduct	-5.79	
32 16 13 13-0012	LF	CALTRANS Type B1-6 Straight Concrete Curb Assembly	26.72	11.20
		For Up To 20, Add	15.14	
		For >20 To 50, Add	8.55	
		For >50 To 100, Add	3.30	
		For >500 To 1,000, Deduct	-3.30	
		For >1,000, Deduct	-5.61	
32 16 13 13-0013	LF	CALTRANS Type B1-6 Radius Concrete Curb Assembly	29.88	12.88
		For Up To 20, Add	17.32	
		For >20 To 50, Add	9.79	
		For >50 To 100, Add	3.76	
		For >500 To 1,000, Deduct	-3.76	
		For >1,000, Deduct	-6.39	
32 16 13 13-0014	LF	CALTRANS Type B3-4 Straight Concrete Curb Assembly	103.13	6.83
		For Up To 20, Add	71.02	
		For >20 To 50, Add	40.55	
		For >50 To 100, Add	15.23	
		For >500 To 1,000, Deduct	-15.23	
		For >1,000, Deduct	-25.43	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0015	LF		CALTRANS Type B3-4 Radius Concrete Curb Assembly	14.44	7.84
			For Up To 20, Add	8.93	
			For >20 To 50, Add	5.07	
			For >50 To 100, Add	1.93	
			For >500 To 1,000, Deduct	-1.93	
			For >1,000, Deduct	-3.26	
32 16 13 13-0016	LF		CALTRANS Type B3-6 Straight Concrete Curb Assembly	13.85	7.06
			For Up To 20, Add	8.20	
			For >20 To 50, Add	4.64	
			For >50 To 100, Add	1.78	
			For >500 To 1,000, Deduct	-1.78	
			For >1,000, Deduct	-3.01	
32 16 13 13-0017	LF		CALTRANS Type B3-6 Radius Concrete Curb Assembly	15.98	8.51
			For Up To 20, Add	9.69	
			For >20 To 50, Add	5.50	
			For >50 To 100, Add	2.10	
			For >500 To 1,000, Deduct	-2.10	
			For >1,000, Deduct	-3.55	
32 16 13 13-0018	LF		CALTRANS Type D-4 Straight Concrete Curb Assembly	26.74	11.20
			For Up To 20, Add	14.30	
			For >20 To 50, Add	8.05	
			For >50 To 100, Add	3.13	
			For >500 To 1,000, Deduct	-3.13	
			For >1,000, Deduct	-5.36	
32 16 13 13-0019	LF		CALTRANS Type D-4 Radius Concrete Curb Assembly	29.62	12.88
			For Up To 20, Add	16.28	
			For >20 To 50, Add	9.18	
			For >50 To 100, Add	3.55	
			For >500 To 1,000, Deduct	-3.55	
			For >1,000, Deduct	-6.07	
32 16 13 13-0020	LF		CALTRANS Type D-6 Straight Concrete Curb Assembly	30.76	11.20
			For Up To 20, Add	15.11	
			For >20 To 50, Add	8.45	
			For >50 To 100, Add	3.33	
			For >500 To 1,000, Deduct	-3.33	
			For >1,000, Deduct	-5.76	
32 16 13 13-0021	LF		CALTRANS Type D-6 Radius Concrete Curb Assembly	33.64	12.88
			For Up To 20, Add	17.09	
			For >20 To 50, Add	9.58	
			For >50 To 100, Add	3.75	
			For >500 To 1,000, Deduct	-3.75	
			For >1,000, Deduct	-6.47	
32 16 13 13-0022 CALTRANS Cast In Place Concrete Curb And Gutter Assemblies (32 16 13 13)					
Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.					
32 16 13 13-0023	LF		CALTRANS Type A2-6 Straight Concrete Curb And Gutter Assembly	54.41	21.39
			For Up To 20, Add	36.92	
			For >20 To 50, Add	20.60	
			For >50 To 100, Add	8.16	
			For >500 To 1,000, Deduct	-7.00	
			For >1,000, Deduct	-11.86	
			For Mountable Or Rolled Curb And Gutter, Add	3.64	
32 16 13 13-0024	LF		CALTRANS Type A2-6 Radius Concrete Curb And Gutter Assembly	58.91	23.64
			For Up To 20, Add	40.07	
			For >20 To 50, Add	22.40	
			For >50 To 100, Add	8.84	
			For >500 To 1,000, Deduct	-7.67	
			For >1,000, Deduct	-12.98	
			For Mountable Or Rolled Curb And Gutter, Add	4.09	
32 16 13 13-0025	LF		CALTRANS Type A2-8 Straight Concrete Curb And Gutter Assembly	58.45	21.39
			For Up To 20, Add	39.67	
			For >20 To 50, Add	22.13	
			For >50 To 100, Add	8.77	
			For >500 To 1,000, Deduct	-7.52	
			For >1,000, Deduct	-12.74	
			For Mountable Or Rolled Curb And Gutter, Add	3.91	
32 16 13 13-0026	LF		CALTRANS Type A2-8 Radius Concrete Curb And Gutter Assembly	63.29	23.64
			For Up To 20, Add	43.06	
			For >20 To 50, Add	24.07	
			For >50 To 100, Add	9.49	
			For >500 To 1,000, Deduct	-8.25	
			For >1,000, Deduct	-13.95	
			For Mountable Or Rolled Curb And Gutter, Add	4.40	
32 16 13 13-0027	LF		CALTRANS Type B2-4 Straight Concrete Curb And Gutter Assembly	29.96	12.27
			For Up To 20, Add	19.87	
			For >20 To 50, Add	10.88	
			For >50 To 100, Add	4.49	
			For >500 To 1,000, Deduct	-3.39	
			For >1,000, Deduct	-5.83	
			For Mountable Or Rolled Curb And Gutter, Add	1.28	



Exterior Improvements			32	32
Bases, Ballasts, and Paving			32 10	
Curbs, Gutters, Sidewalks, and Driveways			32 16	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0028	LF		CALTRANS Type B2-4 Radius Concrete Curb And Gutter Assembly.....	31.76	13.50
			For Up To 20, Add	21.13	
			For >20 To 50, Add	11.60	
			For >50 To 100, Add	4.76	
			For >500 To 1,000, Deduct	-3.66	
			For >1,000, Deduct	-6.28	
			For Mountable Or Rolled Curb And Gutter, Add	1.46	
32 16 13 13-0029	LF		CALTRANS Type B2-6 Straight Concrete Curb And Gutter Assembly	35.67	13.50
			For Up To 20, Add	23.77	
			For >20 To 50, Add	13.07	
			For >50 To 100, Add	5.35	
			For >500 To 1,000, Deduct	-4.15	
			For >1,000, Deduct	-7.11	
			For Mountable Or Rolled Curb And Gutter, Add	1.70	
32 16 13 13-0030	LF		CALTRANS Type B2-6 Radius Concrete Curb And Gutter Assembly.....	37.91	18.01
			For Up To 20, Add	25.34	
			For >20 To 50, Add	13.96	
			For >50 To 100, Add	5.69	
			For >500 To 1,000, Deduct	-4.48	
			For >1,000, Deduct	-7.67	
			For Mountable Or Rolled Curb And Gutter, Add	1.93	
32 16 13 13-0031	LF		CALTRANS Type B4-6 Straight Concrete Curb And Gutter Assembly	58.40	23.52
			For Up To 20, Add	39.75	
			For >20 To 50, Add	22.23	
			For >50 To 100, Add	8.76	
			For >500 To 1,000, Deduct	-7.63	
			For >1,000, Deduct	-12.90	
			For Mountable Or Rolled Curb And Gutter, Add	4.08	
32 16 13 13-0032	LF		CALTRANS Type B4-6 Radius Concrete Curb And Gutter Assembly.....	62.67	25.67
			For Up To 20, Add	42.74	
			For >20 To 50, Add	23.93	
			For >50 To 100, Add	9.40	
			For >500 To 1,000, Deduct	-8.27	
			For >1,000, Deduct	-13.97	
			For Mountable Or Rolled Curb And Gutter, Add	4.51	
32 16 13 13-0033	LF		CALTRANS Type E Straight Concrete Curb And Gutter Assembly.....	62.27	24.76
			For Up To 20, Add	42.32	
			For >20 To 50, Add	23.63	
			For >50 To 100, Add	9.34	
			For >500 To 1,000, Deduct	-8.07	
			For >1,000, Deduct	-13.66	
			For Mountable Or Rolled Curb And Gutter, Add	4.25	
32 16 13 13-0034	LF		CALTRANS Type E Radius Concrete Curb And Gutter Assembly.....	66.78	27.02
			For Up To 20, Add	45.47	
			For >20 To 50, Add	25.44	
			For >50 To 100, Add	10.02	
			For >500 To 1,000, Deduct	-8.74	
			For >1,000, Deduct	-14.78	
			For Mountable Or Rolled Curb And Gutter, Add	4.70	
32 16 13 13-0035			Cast In Place Concrete Curbs Assemblies (32 16 13 13)		
			Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.		
32 16 13 13-0036	LF		6" x 12" Cast In Place Concrete Curb.....	23.44	11.20
			For Mountable Curb, Add	1.49	
			For Up To 20, Add	13.64	
			For >20 To 50, Add	7.72	
			For >50 To 100, Add	2.96	
			For >500 To 1,000, Deduct	-2.96	
			For >1,000, Deduct	-5.03	
32 16 13 13-0037	LF		6" x 12" Cast In Place Concrete Curb - Radius.....	26.60	12.88
			For Mountable Curb, Add	1.75	
			For Up To 20, Add	15.68	
			For >20 To 50, Add	8.88	
			For >50 To 100, Add	3.40	
			For >500 To 1,000, Deduct	-3.40	
			For >1,000, Deduct	-5.77	
32 16 13 13-0038	LF		6" x 14" Cast In Place Concrete Curb.....	25.51	11.20
			For Mountable Curb, Add	1.63	
			For Up To 20, Add	14.90	
			For >20 To 50, Add	8.43	
			For >50 To 100, Add	3.23	
			For >500 To 1,000, Deduct	-3.23	
			For >1,000, Deduct	-5.49	
32 16 13 13-0039	LF		6" x 14" Cast In Place Concrete Curb - Radius.....	28.99	12.88
			For Mountable Curb, Add	1.92	
			For Up To 20, Add	17.14	
			For >20 To 50, Add	9.70	
			For >50 To 100, Add	3.72	
			For >500 To 1,000, Deduct	-3.72	
			For >1,000, Deduct	-6.30	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0040	LF		6" x 16" Cast In Place Concrete Curb	27.86	11.20
			For Mountable Curb, Add	1.76	
			For Up To 20, Add	16.21	
			For >20 To 50, Add	9.17	
			For >50 To 100, Add	3.52	
			For >500 To 1,000, Deduct	-3.52	
			For >1,000, Deduct	-5.98	
32 16 13 13-0041	LF		6" x 16" Cast In Place Concrete Curb - Radius	31.51	16.80
			For Mountable Curb, Add	2.08	
			For Up To 20, Add	18.62	
			For >20 To 50, Add	10.54	
			For >50 To 100, Add	4.04	
			For >500 To 1,000, Deduct	-4.04	
			For >1,000, Deduct	-6.85	
32 16 13 13-0042	LF		6" x 18" Cast In Place Concrete Curb	29.67	11.20
			For Mountable Curb, Add	1.88	
			For Up To 20, Add	17.25	
			For >20 To 50, Add	9.76	
			For >50 To 100, Add	3.75	
			For >500 To 1,000, Deduct	-3.75	
			For >1,000, Deduct	-6.36	
32 16 13 13-0043	LF		6" x 18" Cast In Place Concrete Curb - Radius	33.30	12.88
			For Mountable Curb, Add	2.16	
			For Up To 20, Add	19.54	
			For >20 To 50, Add	11.06	
			For >50 To 100, Add	4.24	
			For >500 To 1,000, Deduct	-4.24	
			For >1,000, Deduct	-7.19	
32 16 13 13-0044	LF		6" x 24" Cast In Place Concrete Curb	33.73	12.32
			For Mountable Curb, Add	2.00	
			For Up To 20, Add	19.19	
			For >20 To 50, Add	10.84	
			For >50 To 100, Add	4.18	
			For >500 To 1,000, Deduct	-4.18	
			For >1,000, Deduct	-7.11	
32 16 13 13-0045	LF		6" x 24" Cast In Place Concrete Curb - Radius	37.51	13.99
			For Mountable Curb, Add	2.28	
			For Up To 20, Add	21.50	
			For >20 To 50, Add	12.15	
			For >50 To 100, Add	4.68	
			For >500 To 1,000, Deduct	-4.68	
			For >1,000, Deduct	-7.95	
32 16 13 13-0046	LF		12" x 24" Cast In Place Concrete Curb	42.31	13.99
			For Mountable Curb, Add	2.01	
			For Up To 20, Add	22.46	
			For >20 To 50, Add	12.63	
			For >50 To 100, Add	4.92	
			For >500 To 1,000, Deduct	-4.92	
			For >1,000, Deduct	-8.43	
32 16 13 13-0047	LF		12" x 24" Cast In Place Concrete Curb - Radius	46.89	15.67
			For Mountable Curb, Add	2.28	
			For Up To 20, Add	25.06	
			For >20 To 50, Add	14.10	
			For >50 To 100, Add	5.48	
			For >500 To 1,000, Deduct	-5.48	
			For >1,000, Deduct	-9.39	
32 16 13 13-0048	EA		Additional Finish For Handicap Drop Section In Curb	83.98	
32 16 13 13-0049			Cast In Place Concrete Curb And Gutter Assemblies (32 16 13 13)		
			Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0050	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	31.07	13.50
			For Up To 20, Add	21.01	
			For >20 To 50, Add	11.69	
			For >50 To 100, Add	4.66	
			For >500 To 1,000, Deduct	-3.92	
			For >1,000, Deduct	-6.65	
			For Mountable Or Rolled Curb And Gutter, Add	1.96	
32 16 13 13-0051	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	33.67	18.01
			For Up To 20, Add	22.79	
			For >20 To 50, Add	12.69	
			For >50 To 100, Add	5.05	
			For >500 To 1,000, Deduct	-4.27	
			For >1,000, Deduct	-7.25	
			For Mountable Or Rolled Curb And Gutter, Add	2.16	
32 16 13 13-0052	LF		6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	38.75	14.97
			For Up To 20, Add	26.23	
			For >20 To 50, Add	14.61	
			For >50 To 100, Add	5.81	
			For >500 To 1,000, Deduct	-4.92	
			For >1,000, Deduct	-8.35	
			For Mountable Or Rolled Curb And Gutter, Add	2.49	



Exterior Improvements			32	32
Bases, Ballasts, and Paving			32 10	
Curbs, Gutters, Sidewalks, and Driveways			32 16	

MINOR		UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI				UNIT COST	UNIT COST
32 16 13 13-0053	LF		6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	42.62	16.66
			For Up To 20, Add	28.89	
			For >20 To 50, Add	16.11	
			For >50 To 100, Add	6.39	
			For >500 To 1,000, Deduct	-5.45	
			For >1,000, Deduct	-9.24	
			For Mountable Or Rolled Curb And Gutter, Add	2.80	
32 16 13 13-0054	LF		6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	46.44	18.01
			For Up To 20, Add	31.47	
			For >20 To 50, Add	17.53	
			For >50 To 100, Add	6.97	
			For >500 To 1,000, Deduct	-5.92	
			For >1,000, Deduct	-10.05	
			For Mountable Or Rolled Curb And Gutter, Add	3.03	
32 16 13 13-0055	LF		6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	51.54	20.27
			For Up To 20, Add	34.98	
			For >20 To 50, Add	19.51	
			For >50 To 100, Add	7.73	
			For >500 To 1,000, Deduct	-6.63	
			For >1,000, Deduct	-11.23	
			For Mountable Or Rolled Curb And Gutter, Add	3.44	
32 16 13 13-0056	LF		6" x 24" Cast In Place Concrete Gutter With 6" Curb And 8" Face - Straight.....	48.71	18.01
			For Up To 20, Add	33.01	
			For >20 To 50, Add	18.40	
			For >50 To 100, Add	7.31	
			For >500 To 1,000, Deduct	-6.22	
			For >1,000, Deduct	-10.55	
			For Mountable Or Rolled Curb And Gutter, Add	3.18	
			For Tapered Gutter With Level Bottom (Type A2-6 Or 8), Add	1.09	
32 16 13 13-0057	LF		6" x 24" Cast In Place Concrete Gutter With 6" Curb And 8" Face - Radius.....	54.06	20.27
			For Up To 20, Add	36.69	
			For >20 To 50, Add	20.47	
			For >50 To 100, Add	8.11	
			For >500 To 1,000, Deduct	-6.96	
			For >1,000, Deduct	-11.79	
			For Mountable Or Rolled Curb And Gutter, Add	3.62	
			For Tapered Gutter With Level Bottom (Type A2-6 Or 8), Add	1.15	
32 16 13 13-0058	LF		6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	54.71	21.39
			For Up To 20, Add	37.10	
			For >20 To 50, Add	20.69	
			For >50 To 100, Add	8.21	
			For >500 To 1,000, Deduct	-7.01	
			For >1,000, Deduct	-11.89	
			For Mountable Or Rolled Curb And Gutter, Add	3.62	
32 16 13 13-0059	LF		6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	59.93	23.64
			For Up To 20, Add	40.69	
			For >20 To 50, Add	22.71	
			For >50 To 100, Add	8.99	
			For >500 To 1,000, Deduct	-7.72	
			For >1,000, Deduct	-13.09	
			For Mountable Or Rolled Curb And Gutter, Add	4.03	
32 16 13 13-0060	LF		6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	62.97	24.76
			For Up To 20, Add	42.74	
			For >20 To 50, Add	23.84	
			For >50 To 100, Add	9.45	
			For >500 To 1,000, Deduct	-8.10	
			For >1,000, Deduct	-13.73	
			For Mountable Or Rolled Curb And Gutter, Add	4.21	
32 16 13 13-0061	LF		6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	68.32	27.02
			For Up To 20, Add	46.40	
			For >20 To 50, Add	25.90	
			For >50 To 100, Add	10.25	
			For >500 To 1,000, Deduct	-8.82	
			For >1,000, Deduct	-14.94	
			For Mountable Or Rolled Curb And Gutter, Add	4.62	
32 16 13 13-0062	LF		6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	71.22	28.14
			For Up To 20, Add	48.36	
			For >20 To 50, Add	26.99	
			For >50 To 100, Add	10.68	
			For >500 To 1,000, Deduct	-9.19	
			For >1,000, Deduct	-15.56	
			For Mountable Or Rolled Curb And Gutter, Add	4.81	
32 16 13 13-0063	LF		6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	78.94	31.52
			For Up To 20, Add	53.67	
			For >20 To 50, Add	29.99	
			For >50 To 100, Add	11.84	
			For >500 To 1,000, Deduct	-10.25	
			For >1,000, Deduct	-17.35	
			For Mountable Or Rolled Curb And Gutter, Add	5.43	
32 16 13 13-0064			Curb And Parkway Drains (32 16 13 13)		
			Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 13-0065	EA		Case I Inlet Structure For Curb Drain	2,204.53	
32 16 13 13-0066	EA		Case II Inlet Structure For Curb Drain	2,810.40	
32 16 13 13-0067	EA		Up To 30" Wide Inlet Type I Structure For Parkway Drain.....	2,269.26	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0068	EA		36" Wide Inlet Type I Structure For Parkway Drain.....	2,318.65	
32 16 13 13-0069	EA		42" Wide Inlet Type I Structure For Parkway Drain.....	2,368.95	
32 16 13 13-0070	EA		48" Wide Inlet Type I Structure For Parkway Drain.....	2,414.71	
32 16 13 13-0071	EA		54" Wide Inlet Type I Structure For Parkway Drain.....	2,485.98	
32 16 13 13-0072	EA		60" Wide Inlet Type I Structure For Parkway Drain.....	2,539.40	
32 16 13 13-0073	EA		66" Wide Inlet Type I Structure For Parkway Drain.....	2,587.94	
32 16 13 13-0074	EA		72" Wide Inlet Type I Structure For Parkway Drain.....	2,638.92	
32 16 13 13-0075	LF		Up To 30" Wide x 4" Concrete Duct For Parkway Drain.....	158.82	
32 16 13 13-0076	LF		42" Wide x 4" Concrete Duct For Parkway Drain.....	180.85	
32 16 13 13-0077	LF		48" Wide x 4" Concrete Duct For Parkway Drain.....	202.90	
32 16 13 13-0078	LF		54" Wide x 4" Concrete Duct For Parkway Drain.....	224.93	
32 16 13 13-0079	LF		60" Wide x 4" Concrete Duct For Parkway Drain.....	246.97	
32 16 13 13-0080	LF		66" Wide x 4" Concrete Duct For Parkway Drain.....	269.01	
32 16 13 13-0081	LF		72" Wide x 4" Concrete Duct For Parkway Drain.....	291.05	
32 16 13 14 Machine Formed, Slip Form Curbs (32 16 13)					
Note: Includes delivered concrete, steel, expansion joints and finish.					
32 16 13 14-0001 Curbs, Machine Formed, Slip Form (32 16 13 14)					
Note: Includes delivered concrete, steel, expansion joints and finish.					
32 16 13 14-0002	EA		Minimum Set-up Charge For Machine Formed Concrete Curb (One Time Per Job).....	1,662.89	
Note: For projects where the total curbing charge is less than the minimum set-up charge, use this task exclusively. This task shall not be used in conjunction with any other tasks in this section.					
32 16 13 14-0003	LF		6" x 12" Straight Concrete Curb, Machine Formed.....	11.92	
32 16 13 14-0004	LF		6" x 12" Curved Concrete Curb, Machine Formed.....	16.75	
32 16 13 14-0005	LF		6" x 18" Straight Concrete Curb, Machine Formed.....	15.66	
32 16 13 14-0006	LF		6" x 18" Curved Concrete Curb, Machine Formed.....	21.52	
32 16 13 16 Steel Faced Curbs (32 16 13)					
Note: Fabrication includes handicap and other curb access cuts.					
32 16 13 16-0001 Sidewalk/Curb Facing (32 16 13 16)					
Note: Fabrication includes handicap and other curb access cuts.					
32 16 13 16-0002	LF		3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	17.08	6.09
For Curved Section, Add				3.98	
32 16 13 16-0003	LF		4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	18.88	6.92
For Curved Section, Add				4.49	
32 16 13 16-0004	LF		6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	24.97	7.76
For Curved Section, Add				5.42	
32 16 13 16-0005	LF		8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	30.37	8.73
For Curved Section, Add				6.29	
32 16 13 16-0006	LF		10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	36.81	9.55
For Curved Section, Add				7.25	
32 16 13 16-0007	LF		12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	48.03	12.19
For Curved Section, Add				9.35	
32 16 13 16-0008	LF		13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	55.93	15.79
For Curved Section, Add				11.49	
32 16 13 16-0009	EA		Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section.....	169.61	
32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13)					
Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.					
32 16 13 19-0001 Valley Gutter, Cast In Place (32 16 13 19)					
Note: Includes concrete, forms, rebar, expansion joints, finish and curing.					
32 16 13 19-0002	LF		1' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	16.80	
32 16 13 19-0003	LF		2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	22.91	
For Up To 20, Add				11.28	
For >20 To 50, Add				6.31	
For >50 To 100, Add				2.48	
For >500 To 1,000, Deduct				-2.48	
For >1,000, Deduct				-4.30	
32 16 13 19-0004	LF		2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	28.01	
For Up To 20, Add				13.66	
For >20 To 50, Add				7.63	
For >50 To 100, Add				3.01	
For >500 To 1,000, Deduct				-3.01	
For >1,000, Deduct				-5.22	
32 16 13 19-0005	LF		3' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	33.06	
For Up To 20, Add				16.00	
For >20 To 50, Add				8.94	
For >50 To 100, Add				3.53	
For >500 To 1,000, Deduct				-3.53	
For >1,000, Deduct				-6.12	
32 16 13 19-0006	LF		3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	38.08	
For Up To 20, Add				18.33	
For >20 To 50, Add				10.23	
For >50 To 100, Add				4.05	
For >500 To 1,000, Deduct				-4.05	
For >1,000, Deduct				-7.02	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Curbs, Gutters, Sidewalks, and Driveways			32 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0007	LF		4' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	43.11	
			For Up To 20, Add	20.66	
			For >20 To 50, Add	11.53	
			For >50 To 100, Add	4.56	
			For >500 To 1,000, Deduct	-4.56	
			For >1,000, Deduct	-7.92	
32 16 13 19-0008	LF		5' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	50.88	
			For Up To 20, Add	23.72	
			For >20 To 50, Add	13.21	
			For >50 To 100, Add	5.25	
			For >500 To 1,000, Deduct	-5.25	
			For >1,000, Deduct	-9.15	
32 16 13 19-0009	LF		6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	58.30	
			For Up To 20, Add	26.53	
			For >20 To 50, Add	14.75	
			For >50 To 100, Add	5.89	
			For >500 To 1,000, Deduct	-5.89	
			For >1,000, Deduct	-10.29	
32 16 13 19-0010	SF		>6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	9.71	
			For Up To 100, Add	4.42	
			For >100 To 250, Add	2.46	
			For >250 To 500, Add	0.98	
			For >2,500 To 5,000, Deduct	-0.98	
			For >5,000, Deduct	-1.71	
32 16 13 19-0011	LF		1' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	18.17	
			For Up To 20, Add	9.98	
			For >20 To 50, Add	5.62	
			For >50 To 100, Add	2.18	
			For >500 To 1,000, Deduct	-2.18	
			For >1,000, Deduct	-3.72	
32 16 13 19-0012	LF		2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	25.05	
			For Up To 20, Add	12.06	
			For >20 To 50, Add	6.74	
			For >50 To 100, Add	2.66	
			For >500 To 1,000, Deduct	-2.66	
			For >1,000, Deduct	-4.62	
32 16 13 19-0013	LF		2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	30.89	
			For Up To 20, Add	14.78	
			For >20 To 50, Add	8.25	
			For >50 To 100, Add	3.26	
			For >500 To 1,000, Deduct	-3.26	
			For >1,000, Deduct	-5.67	
32 16 13 19-0014	LF		3' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	36.24	
			For Up To 20, Add	17.15	
			For >20 To 50, Add	9.57	
			For >50 To 100, Add	3.79	
			For >500 To 1,000, Deduct	-3.79	
			For >1,000, Deduct	-6.60	
32 16 13 19-0015	LF		3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	41.78	
			For Up To 20, Add	19.66	
			For >20 To 50, Add	10.96	
			For >50 To 100, Add	4.35	
			For >500 To 1,000, Deduct	-4.35	
			For >1,000, Deduct	-7.57	
32 16 13 19-0016	LF		4' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	47.31	
			For Up To 20, Add	22.17	
			For >20 To 50, Add	12.35	
			For >50 To 100, Add	4.91	
			For >500 To 1,000, Deduct	-4.91	
			For >1,000, Deduct	-8.54	
32 16 13 19-0017	LF		5' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	55.96	
			For Up To 20, Add	25.48	
			For >20 To 50, Add	14.17	
			For >50 To 100, Add	5.66	
			For >500 To 1,000, Deduct	-5.66	
			For >1,000, Deduct	-9.88	
32 16 13 19-0018	LF		6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	64.25	
			For Up To 20, Add	28.55	
			For >20 To 50, Add	15.84	
			For >50 To 100, Add	6.35	
			For >500 To 1,000, Deduct	-6.35	
			For >1,000, Deduct	-11.13	
32 16 13 19-0019	SF		>6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	10.72	
			For Up To 100, Add	4.76	
			For >100 To 250, Add	2.64	
			For >250 To 500, Add	1.06	
			For >2,500 To 5,000, Deduct	-1.06	
			For >5,000, Deduct	-1.86	
32 16 13 19-0020	LF		1' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	18.63	
32 16 13 19-0021	LF		2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	25.36	
			For Up To 20, Add	12.49	
			For >20 To 50, Add	6.99	
			For >50 To 100, Add	2.75	
			For >500 To 1,000, Deduct	-2.75	
			For >1,000, Deduct	-4.76	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0022	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	31.04	
		For Up To 20, Add	15.15	
		For >20 To 50, Add	8.47	
		For >50 To 100, Add	3.34	
		For >500 To 1,000, Deduct	-3.34	
		For >1,000, Deduct	-5.79	
32 16 13 19-0023	LF	3' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	36.62	
		For Up To 20, Add	17.74	
		For >20 To 50, Add	9.91	
		For >50 To 100, Add	3.92	
		For >500 To 1,000, Deduct	-3.92	
		For >1,000, Deduct	-6.79	
32 16 13 19-0024	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	42.21	
		For Up To 20, Add	20.34	
		For >20 To 50, Add	11.36	
		For >50 To 100, Add	4.49	
		For >500 To 1,000, Deduct	-4.49	
		For >1,000, Deduct	-7.79	
32 16 13 19-0025	LF	4' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	47.79	
		For Up To 20, Add	22.93	
		For >20 To 50, Add	12.80	
		For >50 To 100, Add	5.06	
		For >500 To 1,000, Deduct	-5.06	
		For >1,000, Deduct	-8.79	
32 16 13 19-0026	LF	5' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	56.39	
32 16 13 19-0027	LF	6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	64.59	
32 16 13 19-0028	SF	>6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	10.77	
		For Up To 100, Add	4.91	
		For >100 To 250, Add	2.73	
		For >250 To 500, Add	1.09	
		For >2,500 To 5,000, Deduct	-1.09	
		For >5,000, Deduct	-1.90	

32 16 13 23 Precast Concrete Curbs and Gutters (32 16 13)**32 16 13 23-0001 Precast Concrete Curb (32 16 13 23)**

32 16 13 23-0002	LF	6" x 18" Precast Concrete Curb.....	44.00	11.87
32 16 13 23-0003	LF	6" x 18" Precast Concrete Curb, Radius.....	52.04	13.66
32 16 13 23-0004	LF	6" x 20" Precast Concrete Curb.....	46.31	11.87
32 16 13 23-0005	LF	6" x 20" Precast Concrete Curb, Radius.....	55.10	13.66
32 16 13 23-0006	LF	7" x 18" Precast Concrete Curb.....	47.37	11.87
32 16 13 23-0007	LF	7" x 18" Precast Concrete Curb, Radius.....	56.32	13.66
32 16 13 23-0008	LF	7" x 20" Precast Concrete Curb.....	49.99	11.87
32 16 13 23-0009	LF	7" x 20" Precast Concrete Curb, Radius.....	59.64	13.66

32 16 13 33 Asphalt Curbs (32 16 13)**32 16 13 33-0001 Asphalt Curbs (32 16 13 33)**

32 16 13 33-0002	LF	6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain.....	14.85	6.23
32 16 13 33-0003	LF	8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain.....	16.70	6.92
32 16 13 33-0004	LF	8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain.....	18.40	7.61

32 16 13 43 Stone Curbs (32 16 13)**32 16 13 43-0001 Granite Curbs (32 16 13 43)****32 16 13 43-0002 Split Face Granite Curbs (32 16 13 43-0001)**

32 16 13 43-0003	LF	4" To 5" x 12" To 14" Split Face Granite Curb, Straight Section.....	35.56	9.99
		For Up To 20, Add	13.79	
		For >20 To 50, Add	7.56	
		For >50 To 100, Add	3.11	
		For >500 To 1,000, Deduct	-3.11	
		For >1,000, Deduct	-5.56	
32 16 13 43-0004	LF	6" To 8" x 12" To 14" Split Face Granite Curb, Straight Section.....	42.33	10.91
		For Up To 20, Add	15.72	
		For >20 To 50, Add	8.59	
		For >50 To 100, Add	3.57	
		For >500 To 1,000, Deduct	-3.57	
		For >1,000, Deduct	-6.41	
32 16 13 43-0005	LF	4" To 5" x 16" To 18" Split Face Granite Curb, Straight Section.....	46.82	11.73
		For Up To 20, Add	17.16	
		For >20 To 50, Add	9.36	
		For >50 To 100, Add	3.90	
		For >500 To 1,000, Deduct	-3.90	
		For >1,000, Deduct	-7.02	
32 16 13 43-0006	LF	6" To 8" x 16" To 18" Split Face Granite Curb, Straight Section.....	55.83	12.65
		For Up To 20, Add	19.55	
		For >20 To 50, Add	10.61	
		For >50 To 100, Add	4.47	
		For >500 To 1,000, Deduct	-4.47	
		For >1,000, Deduct	-8.10	



Exterior Improvements			32	32
Bases, Ballasts, and Paving			32 10	
Curbs, Gutters, Sidewalks, and Driveways			32 16	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 43-0007	LF	4" To 5" x 12" To 14" Split Face Granite Curb, Curved Section	.....	44.32	10.91
		For Up To 20, Add		16.09	
		For >20 To 50, Add		8.77	
		For >50 To 100, Add		3.66	
		For >500 To 1,000, Deduct		-3.66	
		For >1,000, Deduct		-6.60	
32 16 13 43-0008	LF	6" To 8" x 12" To 14" Split Face Granite Curb, Curved Section	.....	51.08	11.73
		For Up To 20, Add		18.02	
		For >20 To 50, Add		9.79	
		For >50 To 100, Add		4.11	
		For >500 To 1,000, Deduct		-4.11	
		For >1,000, Deduct		-7.45	
32 16 13 43-0009	LF	4" To 5" x 16" To 18" Split Face Granite Curb, Curved Section	.....	55.63	12.65
		For Up To 20, Add		19.51	
		For >20 To 50, Add		10.59	
		For >50 To 100, Add		4.46	
		For >500 To 1,000, Deduct		-4.46	
		For >1,000, Deduct		-8.08	
32 16 13 43-0010	LF	6" To 8" x 16" To 18" Split Face Granite Curb, Curved Section	.....	64.64	13.46
		For Up To 20, Add		21.89	
		For >20 To 50, Add		11.84	
		For >50 To 100, Add		5.02	
		For >500 To 1,000, Deduct		-5.02	
		For >1,000, Deduct		-9.15	
32 16 13 43-0011 Sawn Face Granite Curbs (32 16 13 43-0001)					
32 16 13 43-0012	LF	4" To 5" x 12" To 14" Sawn Face Granite Curb, Straight Section	.....	35.56	9.99
		For Up To 20, Add		13.79	
		For >20 To 50, Add		7.56	
		For >50 To 100, Add		3.11	
		For >500 To 1,000, Deduct		-3.11	
		For >1,000, Deduct		-5.56	
32 16 13 43-0013	LF	6" To 8" x 12" To 14" Sawn Face Granite Curb, Straight Section	.....	42.33	10.91
		For Up To 20, Add		15.72	
		For >20 To 50, Add		8.59	
		For >50 To 100, Add		3.57	
		For >500 To 1,000, Deduct		-3.57	
		For >1,000, Deduct		-6.41	
32 16 13 43-0014	LF	4" To 5" x 16" To 18" Sawn Face Granite Curb, Straight Section	.....	46.89	11.73
		For Up To 20, Add		17.21	
		For >20 To 50, Add		9.39	
		For >50 To 100, Add		3.91	
		For >500 To 1,000, Deduct		-3.91	
		For >1,000, Deduct		-7.04	
32 16 13 43-0015	LF	6" To 8" x 16" To 18" Sawn Face Granite Curb, Straight Section	.....	55.91	12.65
		For Up To 20, Add		19.60	
		For >20 To 50, Add		10.64	
		For >50 To 100, Add		4.48	
		For >500 To 1,000, Deduct		-4.48	
		For >1,000, Deduct		-8.12	
32 16 13 43-0016	LF	4" To 5" x 12" To 14" Sawn Face Granite Curb, Curved Section	.....	50.57	10.91
		For Up To 20, Add		17.37	
		For >20 To 50, Add		9.41	
		For >50 To 100, Add		3.98	
		For >500 To 1,000, Deduct		-3.98	
		For >1,000, Deduct		-7.23	
32 16 13 43-0017	LF	6" To 8" x 12" To 14" Sawn Face Granite Curb, Curved Section	.....	60.81	11.73
		For Up To 20, Add		20.00	
		For >20 To 50, Add		10.78	
		For >50 To 100, Add		4.61	
		For >500 To 1,000, Deduct		-4.61	
		For >1,000, Deduct		-8.43	
32 16 13 43-0018	LF	4" To 5" x 16" To 18" Sawn Face Granite Curb, Curved Section	.....	67.49	12.65
		For Up To 20, Add		21.92	
		For >20 To 50, Add		11.80	
		For >50 To 100, Add		5.06	
		For >500 To 1,000, Deduct		-5.06	
		For >1,000, Deduct		-9.28	
32 16 13 43-0019	LF	6" To 8" x 16" To 18" Sawn Face Granite Curb, Curved Section	.....	81.40	13.46
		For Up To 20, Add		25.28	
		For >20 To 50, Add		13.54	
		For >50 To 100, Add		5.87	
		For >500 To 1,000, Deduct		-5.87	
		For >1,000, Deduct		-10.84	
32 16 13 43-0020 Granite Base And Curbs (32 16 13 43-0001)					
32 16 13 43-0021	LF	4" High Granite Base	.....	39.27	12.65
		For Up To 20, Add		16.25	
		For >20 To 50, Add		8.96	
		For >50 To 100, Add		3.64	
		For >500 To 1,000, Deduct		-3.64	
		For >1,000, Deduct		-6.45	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 43-0022	LF		6" High Granite Base	45.54	16.56
			For Up To 20, Add	20.13	
			For >20 To 50, Add	11.17	
			For >50 To 100, Add	4.48	
			For >500 To 1,000, Deduct	-4.48	
			For >1,000, Deduct	-7.86	
32 16 13 43-0023			Remove And Reset Stone And Precast Curbing (32 16 13 43)		
			Note: Includes storage and cleaning.		
32 16 13 43-0024	LF		Removal And Resetting Of Stone Or Precast Curbing.....	38.32	
			Note: Includes storage and cleaning.		
32 16 23			Sidewalks (32 16)		
32 16 23 00-0001			Cast In Place Concrete Sidewalk Assemblies (32 16 23)		
			Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, sealer, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 02 41 13 13-0000 for sidewalk removal, 03 05 13 00-0001 for color additive, 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0079 for buggies, 03 31 13 00-0086 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 23 16 36-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0002	SF		4" Cast In Place Concrete Sidewalk	9.31	
			For Up To 100, Add	4.07	
			For >100 To 500, Add	1.16	
			For >2,000 To 5,000, Deduct	-0.52	
			For >5,000 To 10,000, Deduct	-1.16	
			For >10,000 To 20,000, Deduct	-1.57	
			For >20,000, Deduct	-1.98	
			For 3,500 PSI Concrete, Add	0.11	
			For 4,000 PSI Concrete, Add	0.19	
			For 4,500 PSI Concrete, Add	0.22	
			For Welded Wire Reinforcement, Add	0.89	
32 16 23 00-0003	SF		5" Cast In Place Concrete Sidewalk	10.07	
			For Up To 100, Add	4.33	
			For >100 To 500, Add	1.23	
			For >2,000 To 5,000, Deduct	-0.54	
			For >5,000 To 10,000, Deduct	-1.23	
			For >10,000 To 20,000, Deduct	-1.66	
			For >20,000, Deduct	-2.09	
			For 3,500 PSI Concrete, Add	0.13	
			For 4,000 PSI Concrete, Add	0.23	
			For 4,500 PSI Concrete, Add	0.26	
			For Welded Wire Reinforcement, Add	0.89	
32 16 23 00-0004	SF		6" Cast In Place Concrete Sidewalk	10.84	
			For Up To 100, Add	4.58	
			For >100 To 500, Add	1.29	
			For >2,000 To 5,000, Deduct	-0.56	
			For >5,000 To 10,000, Deduct	-1.29	
			For >10,000 To 20,000, Deduct	-1.75	
			For >20,000, Deduct	-2.21	
			For 3,500 PSI Concrete, Add	0.15	
			For 4,000 PSI Concrete, Add	0.27	
			For 4,500 PSI Concrete, Add	0.31	
			For Welded Wire Reinforcement, Add	0.89	
32 16 23 00-0005	SF		7" Cast In Place Concrete Sidewalk	12.59	
			For Up To 100, Add	5.27	
			For >100 To 500, Add	1.48	
			For >2,000 To 5,000, Deduct	-0.64	
			For >5,000 To 10,000, Deduct	-1.48	
			For >10,000 To 20,000, Deduct	-2.00	
			For >20,000, Deduct	-2.53	
			For 3,500 PSI Concrete, Add	0.19	
			For 4,000 PSI Concrete, Add	0.33	
			For 4,500 PSI Concrete, Add	0.38	
			For Welded Wire Reinforcement, Add	0.89	
32 16 23 00-0006	SF		8" Cast In Place Concrete Sidewalk	13.26	
			For Up To 100, Add	5.48	
			For >100 To 500, Add	1.53	
			For >2,000 To 5,000, Deduct	-0.65	
			For >5,000 To 10,000, Deduct	-1.53	
			For >10,000 To 20,000, Deduct	-2.07	
			For >20,000, Deduct	-2.62	
			For 3,500 PSI Concrete, Add	0.21	
			For 4,000 PSI Concrete, Add	0.37	
			For 4,500 PSI Concrete, Add	0.43	
			For Welded Wire Reinforcement, Add	0.89	
32 16 23 00-0007	SF		For Exposed Aggregate Finish In Sidewalk	2.66	
32 16 23 00-0008	EA		Finish Concrete Handicap Drop Section In Sidewalk.....	159.91	
			Note: Excludes patterned (tactile) finish.		
32 16 23 00-0009	LF		For Hand Trowel Finish At Sidewalk Edges (Picture Frame).....	2.66	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Curbs, Gutters, Sidewalks, and Driveways			32 16

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 16 23 00-0010 Bituminous Sidewalk Assemblies (32 16 23)

Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction.
Excludes excavation, base, and base compaction. See CSI section 32 11 23 16-0001 for base course.

32 16 23 00-0011	SY	1" Bituminous Sidewalk	10.49	
		For Up To 100, Add	4.03	
		For >100 To 500, Add	1.09	
		For >1,000 To 5,000, Deduct	-0.56	
		For >5,000, Deduct	-1.09	
32 16 23 00-0012	SY	1-1/2" Bituminous Sidewalk	13.13	
		For Up To 100, Add	4.97	
		For >100 To 500, Add	1.33	
		For >1,000 To 5,000, Deduct	-0.68	
		For >5,000, Deduct	-1.33	
32 16 23 00-0013	SY	2" Bituminous Sidewalk	18.08	
		For Up To 100, Add	6.62	
		For >100 To 500, Add	1.74	
		For >1,000 To 5,000, Deduct	-0.84	
		For >5,000, Deduct	-1.74	
32 16 23 00-0014	SY	2-1/2" Bituminous Sidewalk	22.59	
		For Up To 100, Add	8.25	
		For >100 To 500, Add	2.17	
		For >1,000 To 5,000, Deduct	-1.04	
		For >5,000, Deduct	-2.17	
32 16 23 00-0015	SY	3" Bituminous Sidewalk	25.91	
		For Up To 100, Add	9.30	
		For >100 To 500, Add	2.42	
		For >1,000 To 5,000, Deduct	-1.13	
		For >5,000, Deduct	-2.42	
32 16 23 00-0016	SY	3-1/2" Bituminous Sidewalk	29.82	
		For Up To 100, Add	10.55	
		For >100 To 500, Add	2.73	
		For >1,000 To 5,000, Deduct	-1.24	
		For >5,000, Deduct	-2.73	

32 16 43 Asphalt Dike (32 16)**32 16 43 00-0001 Asphalt Dike** (32 16 43)

32 16 43 00-0002	LF	Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	7.69	
32 16 43 00-0003	LF	Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height	10.50	
32 16 43 00-0004	LF	Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height	10.50	
32 16 43 00-0005	LF	Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height	14.95	
32 16 43 00-0006	LF	Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height	17.70	
32 16 43 00-0007	LF	Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height	4.17	
32 16 43 00-0008	LF	Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	10.87	
32 16 43 00-0009	LF	Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	16.80	
32 16 43 00-0010	LF	CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	7.69	
32 16 43 00-0011	LF	CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height	4.17	
32 16 43 00-0012	LF	CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	16.80	
32 16 43 00-0013	LF	CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	10.87	
32 16 43 00-0014	LF	CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height	6.07	

32 17 Paving Specialties (32 10)**32 17 13 Parking Bumpers** (32 17)

Note: Includes dowels set.

32 17 13 16 Plastic Parking Bumpers (32 17 13)

32 17 13 16-0001	EA	4" x 6" x 4' Recycled Plastic Wheel Stop	199.72	8.70
32 17 13 16-0002	EA	4" x 6" x 6' Recycled Plastic Wheel Stop	226.07	8.70

32 17 13 19 Precast Concrete Parking Bumpers (32 17 13)

32 17 13 19-0001	EA	6" x 8" x 4' Precast Concrete Wheel Stop With Dowels	79.24	26.19
32 17 13 19-0002	EA	6" x 6" x 6' Precast Concrete Wheel Stop With Dowels	90.26	26.19
32 17 13 19-0003	EA	6" x 8" x 6' Precast Concrete Wheel Stop With Dowels	93.90	26.19
32 17 13 19-0004	EA	6" x 10" x 6' Precast Concrete Wheel Stop With Dowels	98.17	26.19
32 17 13 19-0005	EA	4-7/8" x 7-5/8" x 6' Precast Concrete Wheel Stop With Dowels	91.83	26.19
32 17 13 19-0006	EA	8" x 13" x 6' Precast Concrete Wheel Stop With Dowels	115.34	26.19
32 17 13 19-0007	EA	Removal And Relocation Of Precast Concrete Wheel Stop	41.90	
32 17 13 19-0008	EA	Removal And Relocation Of Plastic Or Wood Wheel Stop	27.24	

32 17 13 23 Rubber Parking Bumpers (32 17 13)

32 17 13 23-0001	EA	3' Recycled Rubber Wheel Stop	34.14	8.70
32 17 13 23-0002	EA	4' Recycled Rubber Wheel Stop	39.33	8.70
32 17 13 23-0003	EA	5' Recycled Rubber Wheel Stop	41.41	8.70
32 17 13 23-0004	EA	6' Recycled Rubber Wheel Stop	44.53	8.70

32 17 13 26 Wood Parking Bumpers (32 17 13)

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 17 13 26-0001	LF	4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated	11.50	2.10
32 17 13 26-0002	LF	6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated	14.63	2.10

32 17 16 Manufactured Traffic-Calming Devices (32 17)**32 17 16 00-0001 Modular Rubber Speed Tables (32 17 16)**

Note: 3" high flat-topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.

32 17 16 00-0002	SF	Up To 24' Road Width x 7' Run Modular Rubber Speed Table.....	69.85	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0003	SF	Up To 24' Road Width x 14' Run Modular Rubber Speed Table.....	61.02	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0004	SF	Up To 24' Road Width x 21' Run Modular Rubber Speed Table.....	57.31	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0005	SF	>24' To 30' Road Width x 7' Run Modular Rubber Speed Table.....	66.85	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0006	SF	>24' To 30' Road Width x 14' Run Modular Rubber Speed Table.....	58.83	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0007	SF	>24' To 30' Road Width x 21' Run Modular Rubber Speed Table.....	55.57	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0008	SF	>30' To 40' Road Width x 7' Run Modular Rubber Speed Table.....	63.88	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0009	SF	>30' To 40' Road Width x 14' Run Modular Rubber Speed Table.....	57.11	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0010	SF	>30' To 40' Road Width x 21' Run Modular Rubber Speed Table.....	54.12	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		

32 17 16 00-0011 Asphalt Speed Table (32 17 16)

Note: Excludes pavement markings or reflectors.

32 17 16 00-0012	LF	Up to 36" Run, Asphalt Speed Table With 3" Center Crown.....	43.54	
		Note: Tapered on edges to roadway.		
32 17 16 00-0013	LF	>36" To 48" Run, Asphalt Speed Table With 3" Center Crown.....	51.28	
		Note: Tapered on edges to roadway.		
32 17 16 00-0014	LF	Up to 36" Run, Asphalt Speed Table With 4" Center Crown.....	54.66	
		Note: Tapered on edges to roadway.		
32 17 16 00-0015	LF	>36" To 48" Run, Asphalt Speed Table With 4" Center Crown.....	64.44	
		Note: Tapered on edges to roadway.		
32 17 16 00-0016	LF	Up to 36" Run, Asphalt Speed Table With 6" Center Crown.....	67.18	
		Note: Tapered on edges to roadway.		
32 17 16 00-0017	LF	>36" To 48" Run, Asphalt Speed Table With 6" Center Crown.....	74.92	
		Note: Tapered on edges to roadway.		

32 17 16 00-0018 Speed Bumps (32 17 16)

Note: Excludes pavement markings or reflectors.

32 17 16 00-0019	LF	2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump.....	38.12	2.02
32 17 16 00-0020	LF	2-1/4" High x 12" Wide, Recycled Rubber Speed Bump.....	31.45	1.35
32 17 16 00-0021	LF	2-5/8" High x 12" Wide, Recycled Plastic Speed Bump.....	157.65	1.35

32 17 23 Pavement Markings (32 17)**32 17 23 13 Painted Pavement Markings (32 17 23)****32 17 23 13-0001 Painted Pavement Striping, Letters, Symbols And Markers for Roads (32 17 23 13)**

Note: Includes primers, adhesive and reflective glass beads. For broken line quantities use total lane length. Per Coat.

32 17 23 13-0002 Painted Epoxy Reflective Pavement Marking (32 17 23 13-0001)

Note: 15 mil thickness.

32 17 23 13-0003	LF	Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.57	
		For 20 Mil Thickness, Add	0.12	
		For Up To 5,000 LF, Add	0.11	
		For >25,000 LF, Deduct	-0.09	
		For Broken Line, Deduct	-0.26	
32 17 23 13-0004	LF	Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.78	
		For 20 Mil Thickness, Add	0.18	
		For Up To 5,000 LF, Add	0.16	
		For >25,000 LF, Deduct	-0.12	
		For Broken Line, Deduct	-0.38	
32 17 23 13-0005	LF	Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.95	
		For 20 Mil Thickness, Add	0.21	
		For Up To 5,000 LF, Add	0.19	
		For >25,000 LF, Deduct	-0.14	
		For Broken Line, Deduct	-0.44	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0006	LF		Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.44	
			For 20 Mil Thickness, Add	0.35	
			For Up To 5,000 LF, Add	0.29	
			For >25,000 LF, Deduct	-0.22	
			For Broken Line, Deduct	-0.74	
32 17 23 13-0007	LF		Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	0.89	
			For 20 Mil Thickness, Add	0.23	
			For Up To 5,000 LF, Add	0.18	
			For >25,000 LF, Deduct	-0.13	
			For Broken Line On One Side, Deduct	-0.25	
			For Double Broken Line, Deduct	-0.50	
32 17 23 13-0008	LF		Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	1.26	
			For 20 Mil Thickness, Add	0.34	
			For Up To 5,000 LF, Add	0.25	
			For >25,000 LF, Deduct	-0.19	
			For Broken Line On One Side, Deduct	-0.37	
			For Double Broken Line, Deduct	-0.74	
32 17 23 13-0009	EA		6" High, Letter/Number, Epoxy Reflective Pavement Marking.....	4.35	
			For 20 Mil Thickness, Add	0.43	
			For <10, Add	0.54	
			For >50 To 100, Deduct	-0.27	
			For >100 To 200, Deduct	-0.36	
			For >200, Deduct	-0.72	
32 17 23 13-0010	EA		12" High, Letter/Number, Epoxy Reflective Pavement Marking.....	8.14	
			For 20 Mil Thickness, Add	1.17	
			For <10, Add	0.82	
			For >50 To 100, Deduct	-0.41	
			For >100 To 200, Deduct	-0.55	
			For >200, Deduct	-1.09	
32 17 23 13-0011	EA		24" High, Letter/Number, Epoxy Reflective Pavement Marking.....	13.76	
			For 20 Mil Thickness, Add	2.02	
			For <10, Add	1.36	
			For >50 To 100, Deduct	-0.68	
			For >100 To 200, Deduct	-0.91	
			For >200, Deduct	-1.81	
32 17 23 13-0012	EA		36" High, Letter/Number, Epoxy Reflective Pavement Marking.....	26.37	
			For 20 Mil Thickness, Add	3.65	
			For <10, Add	2.72	
			For >50 To 100, Deduct	-1.36	
			For >100 To 200, Deduct	-1.81	
			For >200, Deduct	-3.63	
32 17 23 13-0013	EA		48" High, Letter/Number, Epoxy Reflective Pavement Marking.....	31.05	
			For 20 Mil Thickness, Add	4.59	
			For <10, Add	3.05	
			For >50 To 100, Deduct	-1.53	
			For >100 To 200, Deduct	-2.03	
			For >200, Deduct	-4.07	
32 17 23 13-0014	EA		72" High, Letter/Number, Epoxy Reflective Pavement Marking.....	55.75	
			For 20 Mil Thickness, Add	8.33	
			For <10, Add	5.43	
			For >50 To 100, Deduct	-2.71	
			For >100 To 200, Deduct	-3.62	
			For >200, Deduct	-7.24	
32 17 23 13-0015	EA		96" High, Letter/Number, Epoxy Reflective Pavement Marking.....	74.33	
			For 20 Mil Thickness, Add	11.01	
			For <10, Add	7.29	
			For >50 To 100, Deduct	-3.64	
			For >100 To 200, Deduct	-4.86	
			For >200, Deduct	-9.72	
32 17 23 13-0016	EA		120" High, Letter/Number, Epoxy Reflective Pavement Marking.....	117.68	
			For 20 Mil Thickness, Add	22.17	
			For <10, Add	9.03	
			For >50 To 100, Deduct	-4.52	
			For >100 To 200, Deduct	-6.02	
			For >200, Deduct	-12.04	
32 17 23 13-0017	SF		Letter/Number, Epoxy Reflective Pavement Marking	7.31	
			For 20 Mil Thickness, Add	0.89	
32 17 23 13-0018	SF		Symbols, Epoxy Reflective Pavement Marking.....	9.15	
			Note: Handicap, railroad, diamond, arrows, etc.		
			For 20 Mil Thickness, Add	0.98	
32 17 23 13-0019			Painted Reflective Pavement Marking (32 17 23 13-0001)		
			Note: 15 mil thickness.		
32 17 23 13-0020	LF		Single 4" Wide Solid Line, Painted Reflective Pavement Striping.....	0.36	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.05	
			For Broken Line, Deduct	-0.10	
32 17 23 13-0021	LF		Single 6" Wide Solid Line, Painted Reflective Pavement Striping.....	0.47	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
			For Broken Line, Deduct	-0.14	
32 17 23 13-0022	LF		Single 8" Wide Solid Line, Painted Reflective Pavement Striping.....	0.59	
			For Up To 5,000 LF, Add	0.12	
			For >25,000 LF, Deduct	-0.09	
			For Broken Line, Deduct	-0.17	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0023	LF		Single 12" Wide Solid Line, Painted Reflective Pavement Striping.....	0.81	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
			For Broken Line, Deduct	-0.26	
32 17 23 13-0024	LF		Double 4" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.55	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
			For Broken Line On One Side, Deduct	-0.09	
			For Double Broken Line, Deduct	-0.18	
32 17 23 13-0025	LF		Double 6" Wide Solid Lines, Painted Reflective Pavement Striping.....	0.82	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
			For Broken Line On One Side, Deduct	-0.14	
			For Double Broken Line, Deduct	-0.27	
32 17 23 13-0026	SF		Solid Area, Painted Reflective Pavement Striping.....	5.63	
			Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0027	EA		6" High, Letter/Number, Painted Reflective Pavement Marking.....	4.10	
			For <10, Add	0.54	
			For >50 To 100, Deduct	-0.27	
			For >100 To 200, Deduct	-0.36	
			For >200, Deduct	-0.72	
32 17 23 13-0028	EA		12" High, Letter/Number, Painted Reflective Pavement Marking.....	7.23	
			For <10, Add	0.82	
			For >50 To 100, Deduct	-0.41	
			For >100 To 200, Deduct	-0.55	
			For >200, Deduct	-1.09	
32 17 23 13-0029	EA		24" High, Letter/Number, Painted Reflective Pavement Marking.....	12.18	
			For <10, Add	1.36	
			For >50 To 100, Deduct	-0.68	
			For >100 To 200, Deduct	-0.91	
			For >200, Deduct	-1.81	
32 17 23 13-0030	EA		36" High, Letter/Number, Painted Reflective Pavement Marking.....	23.59	
			For <10, Add	2.72	
			For >50 To 100, Deduct	-1.36	
			For >100 To 200, Deduct	-1.81	
			For >200, Deduct	-3.63	
32 17 23 13-0031	EA		48" High, Letter/Number, Painted Reflective Pavement Marking.....	27.44	
			For <10, Add	3.05	
			For >50 To 100, Deduct	-1.53	
			For >100 To 200, Deduct	-2.03	
			For >200, Deduct	-4.07	
32 17 23 13-0032	EA		72" High, Letter/Number, Painted Reflective Pavement Marking.....	49.15	
			For <10, Add	5.43	
			For >50 To 100, Deduct	-2.71	
			For >100 To 200, Deduct	-3.62	
			For >200, Deduct	-7.24	
32 17 23 13-0033	EA		96" High, Letter/Number, Painted Reflective Pavement Marking.....	65.64	
			For <10, Add	7.29	
			For >50 To 100, Deduct	-3.64	
			For >100 To 200, Deduct	-4.86	
			For >200, Deduct	-9.72	
32 17 23 13-0034	EA		120" High, Letter/Number, Painted Reflective Pavement Marking.....	98.28	
			For <10, Add	9.03	
			For >50 To 100, Deduct	-4.52	
			For >100 To 200, Deduct	-6.02	
			For >200, Deduct	-12.04	
32 17 23 13-0035	SF		Letter/Number, Painted Reflective Pavement Marking.....	6.69	
			Note: Includes solvent based and latex paints.		
32 17 23 13-0036	SF		Symbols, Painted Reflective Pavement Marking.....	7.92	
			Note: Handicap, railroad, diamond, arrows, etc. Includes solvent based and latex paints.		
32 17 23 13-0037			Painted and/or Raised Reflective Pavement Marking (CALTRANS) (32 17 23 13-0001)		
			Note: 20 to 25 mil thickness, per LF of detail for painted.		
32 17 23 13-0038	LF		CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping.....	0.27	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0039	LF		CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping.....	0.45	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
32 17 23 13-0040	LF		CALTRANS Detail 4 Centerline.....	1.13	
			For Up To 5,000 LF, Add	0.23	
			For >25,000 LF, Deduct	-0.17	
32 17 23 13-0041	LF		CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping.....	0.27	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0042	LF		CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping.....	0.47	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
32 17 23 13-0043	LF		CALTRANS Detail 7 Centerline.....	0.82	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
32 17 23 13-0044	LF		CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping.....	0.27	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0045	LF		CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping	0.45	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
32 17 23 13-0046	LF		CALTRANS Detail 10 Lanelines	1.13	
			For Up To 5,000 LF, Add	0.23	
			For >25,000 LF, Deduct	-0.17	
32 17 23 13-0047	LF		CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping	0.27	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0048	LF		CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping	0.45	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
32 17 23 13-0049	LF		CALTRANS Detail 13 Lanelines	0.82	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
32 17 23 13-0050	LF		CALTRANS Detail 14 Lanelines	0.82	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
32 17 23 13-0051	LF		CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping	0.45	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
32 17 23 13-0052	LF		CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.41	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
			For Broken Line On One Side, Deduct	-0.07	
			For Double Broken Line, Deduct	-0.14	
32 17 23 13-0053	LF		CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	1.16	
			For Up To 5,000 LF, Add	0.23	
			For >25,000 LF, Deduct	-0.17	
32 17 23 13-0054	LF		CALTRANS Detail 17 No Passing Zones-One Direction Lanelines	3.27	
			For Up To 5,000 LF, Add	0.65	
			For >25,000 LF, Deduct	-0.49	
32 17 23 13-0055	LF		CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.41	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
			For Broken Line On One Side, Deduct	-0.07	
			For Double Broken Line, Deduct	-0.14	
32 17 23 13-0056	LF		CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.97	
			For Up To 5,000 LF, Add	0.19	
			For >25,000 LF, Deduct	-0.15	
32 17 23 13-0057	LF		CALTRANS Detail 20 No Passing Zones-One Direction Lanelines	2.77	
			For Up To 5,000 LF, Add	0.55	
			For >25,000 LF, Deduct	-0.42	
32 17 23 13-0058	LF		CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.51	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.08	
			For Broken Line On One Side, Deduct	-0.11	
			For Double Broken Line, Deduct	-0.21	
32 17 23 13-0059	LF		CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	1.26	
			For Up To 5,000 LF, Add	0.25	
			For >25,000 LF, Deduct	-0.19	
32 17 23 13-0060	LF		CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines	3.89	
			For Up To 5,000 LF, Add	0.78	
			For >25,000 LF, Deduct	-0.58	
32 17 23 13-0061	LF		CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping	0.37	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0062	LF		CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping	0.55	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
32 17 23 13-0063	LF		CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping	0.75	
			For Up To 5,000 LF, Add	0.15	
			For >25,000 LF, Deduct	-0.11	
32 17 23 13-0064	LF		CALTRANS Detail 26 Left Edgelines	0.19	
			For Up To 5,000 LF, Add	0.04	
			For >25,000 LF, Deduct	-0.03	
32 17 23 13-0065	LF		CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping	0.69	
			For Up To 5,000 LF, Add	0.14	
			For >25,000 LF, Deduct	-0.10	
32 17 23 13-0066	LF		CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping	0.37	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0067	LF		CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping	0.26	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0068	LF		CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping	1.02	
			For Up To 5,000 LF, Add	0.20	
			For >25,000 LF, Deduct	-0.15	
			For Broken Line On One Side, Deduct	-0.21	
			For Double Broken Line, Deduct	-0.42	
32 17 23 13-0069	LF		CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping	1.77	
			For Up To 5,000 LF, Add	0.35	
			For >25,000 LF, Deduct	-0.27	
32 17 23 13-0070	LF		CALTRANS Detail 30 Median Islands	7.81	
			For Up To 5,000 LF, Add	1.56	
			For >25,000 LF, Deduct	-1.17	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0071 LF CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	0.81	
For Up To 5,000 LF, Add	0.16	
For >25,000 LF, Deduct	-0.12	
For Broken Line On One Side, Deduct	-0.13	
For Double Broken Line, Deduct	-0.26	
32 17 23 13-0072 LF CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	1.75	
For Up To 5,000 LF, Add	0.35	
For >25,000 LF, Deduct	-0.26	
32 17 23 13-0073 LF CALTRANS Detail 33 Two-Way Left Turn Lanes	5.35	
For Up To 5,000 LF, Add	1.07	
For >25,000 LF, Deduct	-0.80	
32 17 23 13-0074 LF CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping	0.97	
For Up To 5,000 LF, Add	0.19	
For >25,000 LF, Deduct	-0.15	
32 17 23 13-0075 LF CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping	0.41	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0076 LF CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping	1.17	
For Up To 5,000 LF, Add	0.23	
For >25,000 LF, Deduct	-0.18	
32 17 23 13-0077 LF CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping	0.41	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0078 LF CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping	1.93	
For Up To 5,000 LF, Add	0.39	
For >25,000 LF, Deduct	-0.29	
32 17 23 13-0079 LF CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping	1.20	
For Up To 5,000 LF, Add	0.24	
For >25,000 LF, Deduct	-0.18	
32 17 23 13-0080 LF CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	1.32	
For Up To 5,000 LF, Add	0.26	
For >25,000 LF, Deduct	-0.20	
32 17 23 13-0081 LF CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	1.14	
For Up To 5,000 LF, Add	0.23	
For >25,000 LF, Deduct	-0.17	
32 17 23 13-0082 LF CALTRANS Detail 37A Lane Drop At Exit Ramps	2.62	
For Up To 5,000 LF, Add	0.52	
For >25,000 LF, Deduct	-0.39	
32 17 23 13-0083 LF CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping	1.14	
For Up To 5,000 LF, Add	0.23	
For >25,000 LF, Deduct	-0.17	
32 17 23 13-0084 LF CALTRANS Detail 37C Lane Drop At Intersections	2.62	
For Up To 5,000 LF, Add	0.52	
For >25,000 LF, Deduct	-0.39	
32 17 23 13-0085 LF CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	1.10	
For Up To 5,000 LF, Add	0.22	
For >25,000 LF, Deduct	-0.17	
32 17 23 13-0086 LF CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping	0.73	
For Up To 5,000 LF, Add	0.15	
For >25,000 LF, Deduct	-0.11	
32 17 23 13-0087 LF CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping	1.48	
For Up To 5,000 LF, Add	0.30	
For >25,000 LF, Deduct	-0.22	
32 17 23 13-0088 LF CALTRANS Detail 38C Channelizing Line	3.89	
For Up To 5,000 LF, Add	0.78	
For >25,000 LF, Deduct	-0.58	
32 17 23 13-0089 LF CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping	0.46	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
32 17 23 13-0090 LF CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0091 LF CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.25	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0092 LF CALTRANS Detail 40A Lane Line Extensions Through Intersections	1.89	
For Up To 5,000 LF, Add	0.38	
For >25,000 LF, Deduct	-0.28	
32 17 23 13-0093 LF CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.25	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0094 LF CALTRANS Detail 41A Center Line Extensions Through Intersections	1.89	
For Up To 5,000 LF, Add	0.38	
For >25,000 LF, Deduct	-0.28	
32 17 23 13-0095 EA CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	106.10	
For <10, Add	13.20	
For >50 To 100, Deduct	-6.60	
For >100 To 200, Deduct	-8.80	
For >200, Deduct	-17.60	
32 17 23 13-0096 EA CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	186.34	
For <10, Add	23.10	
For >50 To 100, Deduct	-11.55	
For >100 To 200, Deduct	-15.40	
For >200, Deduct	-30.81	



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0097	EA		CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	233.70	
			For <10, Add	29.05	
			For >50 To 100, Deduct	-14.52	
			For >100 To 200, Deduct	-19.36	
			For >200, Deduct	-38.73	
32 17 23 13-0098	EA		CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking	339.81	
			For <10, Add	42.25	
			For >50 To 100, Deduct	-21.12	
			For >100 To 200, Deduct	-28.17	
			For >200, Deduct	-56.33	
32 17 23 13-0099	EA		CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking	445.92	
			For <10, Add	55.45	
			For >50 To 100, Deduct	-27.73	
			For >100 To 200, Deduct	-36.97	
			For >200, Deduct	-73.94	
32 17 23 13-0100	EA		CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking	313.92	
			For <10, Add	38.95	
			For >50 To 100, Deduct	-19.47	
			For >100 To 200, Deduct	-25.97	
			For >200, Deduct	-51.93	
32 17 23 13-0101	EA		CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking	547.62	
			For <10, Add	67.99	
			For >50 To 100, Deduct	-34.00	
			For >100 To 200, Deduct	-45.33	
			For >200, Deduct	-90.66	
32 17 23 13-0102	EA		CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking	111.80	
			For <10, Add	13.86	
			For >50 To 100, Deduct	-6.93	
			For >100 To 200, Deduct	-9.24	
			For >200, Deduct	-18.48	
32 17 23 13-0103	EA		CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking	245.08	
			For <10, Add	30.37	
			For >50 To 100, Deduct	-15.18	
			For >100 To 200, Deduct	-20.24	
			For >200, Deduct	-40.49	
32 17 23 13-0104	EA		CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking	313.92	
			For <10, Add	38.95	
			For >50 To 100, Deduct	-19.47	
			For >100 To 200, Deduct	-25.97	
			For >200, Deduct	-51.93	
32 17 23 13-0105	EA		CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking	202.43	
			For <10, Add	25.09	
			For >50 To 100, Deduct	-12.54	
			For >100 To 200, Deduct	-16.72	
			For >200, Deduct	-33.45	
32 17 23 13-0106	EA		CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking	266.57	
			For <10, Add	33.01	
			For >50 To 100, Deduct	-16.50	
			For >100 To 200, Deduct	-22.01	
			For >200, Deduct	-44.01	
32 17 23 13-0107	EA		CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking	53.06	
			For <10, Add	6.60	
			For >50 To 100, Deduct	-3.30	
			For >100 To 200, Deduct	-4.40	
			For >200, Deduct	-8.80	
32 17 23 13-0108	EA		CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking	508.55	
			Note: Excludes variable width transverse lines.		
			For <10, Add	62.71	
			For >50 To 100, Deduct	-31.36	
			For >100 To 200, Deduct	-41.81	
			For >200, Deduct	-83.62	
32 17 23 13-0109	SF		CALTRANS Solid Area, Painted Reflective Pavement Marking	6.66	
32 17 23 13-0110	EA		CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking	52.03	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	4.75	
			For >50 To 100, Deduct	-2.38	
			For >100 To 200, Deduct	-3.17	
			For >200, Deduct	-6.34	
32 17 23 13-0111	EA		CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking	55.11	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	5.02	
			For >50 To 100, Deduct	-2.51	
			For >100 To 200, Deduct	-3.35	
			For >200, Deduct	-6.69	
32 17 23 13-0112	EA		CALTRANS Diamond Symbol, Painted Reflective Pavement Marking	84.63	
			For <10, Add	10.56	
			For >50 To 100, Deduct	-5.28	
			For >100 To 200, Deduct	-7.04	
			For >200, Deduct	-14.08	
32 17 23 13-0113	EA		CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking	172.31	
			For <10, Add	21.39	
			For >50 To 100, Deduct	-10.69	
			For >100 To 200, Deduct	-14.26	
			For >200, Deduct	-28.52	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0114	EA		CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking.....	35.91	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	5.02	
			For >50 To 100, Deduct	-2.51	
			For >100 To 200, Deduct	-3.35	
			For >200, Deduct	-6.69	
32 17 23 13-0115	SF		CALTRANS Letter/Number, Painted Reflective Pavement Marking	6.75	
32 17 23 13-0116	SF		CALTRANS Symbols, Painted Reflective Pavement Marking	7.45	
			Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0117 Painted Thermoplastic Reflective Pavement Marking (32 17 23 13-0001)					
			Note: 40 mil thickness.		
32 17 23 13-0118	LF		Single 4" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	0.96	
			For Up To 5,000 LF, Add	0.19	
			For >25,000 LF, Deduct	-0.14	
			For Broken Line, Deduct	-0.55	
			For 30 mils Thick, Deduct	-0.18	
			For 45 mils Thick, Add	0.09	
			For Enhanced Wet-Night Visibility, Add	0.06	
32 17 23 13-0119	LF		Single 6" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.35	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.27	
			For >25,000 LF, Deduct	-0.20	
			For Broken Line, Deduct	-0.80	
			For 30 mils Thick, Deduct	-0.27	
			For 45 mils Thick, Add	0.13	
			For Enhanced Wet-Night Visibility, Add	0.09	
32 17 23 13-0120	LF		Single 8" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.80	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.36	
			For >25,000 LF, Deduct	-0.27	
			For Broken Line, Deduct	-1.10	
			For 30 mils Thick, Deduct	-0.37	
			For 45 mils Thick, Add	0.18	
			For Enhanced Wet-Night Visibility, Add	0.12	
32 17 23 13-0121	LF		Single 12" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	2.64	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.53	
			For >25,000 LF, Deduct	-0.40	
			For Broken Line, Deduct	-1.64	
			For 30 mils Thick, Deduct	-0.55	
			For 45 mils Thick, Add	0.27	
			For Enhanced Wet-Night Visibility, Add	0.18	
32 17 23 13-0122	LF		Double 4" Wide Solid Lines, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.77	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.35	
			For >25,000 LF, Deduct	-0.27	
			For Broken Line On One Side, Deduct	-0.55	
			For Double Broken Line, Deduct	-1.10	
			For 30 mils Thick, Deduct	-0.37	
			For 45 mils Thick, Add	0.18	
			For Enhanced Wet-Night Visibility, Add	0.12	
32 17 23 13-0123	LF		Double 6" Wide Solid Lines, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	2.64	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.53	
			For >25,000 LF, Deduct	-0.40	
			For Broken Line On One Side, Deduct	-0.82	
			For Double Broken Line, Deduct	-1.64	
			For 30 mils Thick, Deduct	-0.55	
			For 45 mils Thick, Add	0.27	
			For Enhanced Wet-Night Visibility, Add	0.18	
32 17 23 13-0124	SF		Solid Area, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	7.46	
			Note: Includes yellow or white.		
			For 30 mils Thick, Deduct	-0.55	
			For 45 mils Thick, Add	0.27	
			For Enhanced Wet-Night Visibility, Add	0.18	
32 17 23 13-0125	EA		6" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	4.83	
			For Up To 10, Add	0.54	
			For >50 To 100, Deduct	-0.27	
			For >100 To 200, Deduct	-0.36	
			For >200, Deduct	-0.72	
			For 30 mils Thick, Deduct	-0.31	
			For 45 mils Thick, Add	0.15	
			For Enhanced Wet-Night Visibility, Add	0.10	
32 17 23 13-0126	EA		12" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	9.87	
			For Up To 10, Add	0.82	
			For >50 To 100, Deduct	-0.41	
			For >100 To 200, Deduct	-0.55	
			For >200, Deduct	-1.09	
			For 30 mils Thick, Deduct	-1.10	
			For 45 mils Thick, Add	0.55	
			For Enhanced Wet-Night Visibility, Add	0.36	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23	13-0127	EA	24" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	16.79	
			For Up To 10, Add	1.36	
			For >50 To 100, Deduct	-0.68	
			For >100 To 200, Deduct	-0.91	
			For >200, Deduct	-1.81	
			For 30 mils Thick, Deduct	-1.93	
			For 45 mils Thick, Add	0.97	
			For Enhanced Wet-Night Visibility, Add	0.64	
32 17 23	13-0128	EA	36" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	31.70	
			For Up To 10, Add	2.72	
			For >50 To 100, Deduct	-1.36	
			For >100 To 200, Deduct	-1.81	
			For >200, Deduct	-3.63	
			For 30 mils Thick, Deduct	-3.39	
			For 45 mils Thick, Add	1.70	
			For Enhanced Wet-Night Visibility, Add	1.12	
32 17 23	13-0129	EA	48" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	37.98	
			For Up To 10, Add	3.05	
			For >50 To 100, Deduct	-1.53	
			For >100 To 200, Deduct	-2.03	
			For >200, Deduct	-4.07	
			For 30 mils Thick, Deduct	-4.41	
			For 45 mils Thick, Add	2.21	
			For Enhanced Wet-Night Visibility, Add	1.46	
32 17 23	13-0130	EA	72" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	68.41	
			For Up To 10, Add	5.43	
			For >50 To 100, Deduct	-2.71	
			For >100 To 200, Deduct	-3.62	
			For >200, Deduct	-7.24	
			For 30 mils Thick, Deduct	-8.06	
			For 45 mils Thick, Add	4.03	
			For Enhanced Wet-Night Visibility, Add	2.66	
32 17 23	13-0131	EA	96" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	90.98	
			For Up To 10, Add	7.29	
			For >50 To 100, Deduct	-3.64	
			For >100 To 200, Deduct	-4.86	
			For >200, Deduct	-9.72	
			For 30 mils Thick, Deduct	-10.60	
			For 45 mils Thick, Add	5.30	
			For Enhanced Wet-Night Visibility, Add	3.50	
32 17 23	13-0132	EA	120" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	154.84	
			For Up To 10, Add	9.03	
			For >50 To 100, Deduct	-4.52	
			For >100 To 200, Deduct	-6.02	
			For >200, Deduct	-12.04	
			For 30 mils Thick, Deduct	-23.66	
			For 45 mils Thick, Add	11.83	
			For Enhanced Wet-Night Visibility, Add	7.81	
32 17 23	13-0133	SF	Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	8.51	
			For 30 mils Thick, Deduct	-0.76	
			For 45 mils Thick, Add	0.38	
			For Enhanced Wet-Night Visibility, Add	0.25	
32 17 23	13-0134	SF	Symbols, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	10.35	
			Note: Handicap, railroad, diamond, arrows, etc.		
			For 30 mils Thick, Deduct	-0.76	
			For 45 mils Thick, Add	0.38	
			For Enhanced Wet-Night Visibility, Add	0.25	
32 17 23	13-0135		Painted Thermoplastic Reflective Pavement Marking (CALTRANS) (32 17 23 13-0001)		
			Note: 40 mil thickness.		
32 17 23	13-0136	LF	CALTRANS Detail 1 Centerline, Painted Thermoplastic Reflective Pavement Striping	0.38	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23	13-0137	LF	CALTRANS Detail 2 Centerline, Painted Thermoplastic Reflective Pavement Striping	0.56	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
32 17 23	13-0138	LF	CALTRANS Detail 5 Centerline, Painted Thermoplastic Reflective Pavement Striping	0.36	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.05	
32 17 23	13-0139	LF	CALTRANS Detail 6 Centerline, Painted Thermoplastic Reflective Pavement Striping	0.54	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
32 17 23	13-0140	LF	CALTRANS Detail 8 Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.38	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23	13-0141	LF	CALTRANS Detail 9 Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.56	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
32 17 23	13-0142	LF	CALTRANS Detail 11 Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.36	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.05	
32 17 23	13-0143	LF	CALTRANS Detail 12 Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.54	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23	13-0144	LF	CALTRANS Detail 14A Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.54	
			<i>For Up To 5,000 LF, Add</i>	0.11	
			<i>For >25,000 LF, Deduct</i>	-0.08	
32 17 23	13-0145	LF	CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.90	
			<i>For Up To 5,000 LF, Add</i>	0.18	
			<i>For >25,000 LF, Deduct</i>	-0.14	
			<i>For Broken Line On One Side, Deduct</i>	-0.25	
			<i>For Double Broken Line, Deduct</i>	-0.50	
32 17 23	13-0146	LF	CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	1.65	
			<i>For Up To 5,000 LF, Add</i>	0.33	
			<i>For >25,000 LF, Deduct</i>	-0.25	
32 17 23	13-0147	LF	CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.88	
			<i>For Up To 5,000 LF, Add</i>	0.18	
			<i>For >25,000 LF, Deduct</i>	-0.13	
			<i>For Broken Line On One Side, Deduct</i>	-0.24	
			<i>For Double Broken Line, Deduct</i>	-0.49	
32 17 23	13-0148	LF	CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	1.45	
			<i>For Up To 5,000 LF, Add</i>	0.29	
			<i>For >25,000 LF, Deduct</i>	-0.22	
32 17 23	13-0149	LF	CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	1.27	
			<i>For Up To 5,000 LF, Add</i>	0.25	
			<i>For >25,000 LF, Deduct</i>	-0.19	
			<i>For Broken Line On One Side, Deduct</i>	-0.39	
			<i>For Double Broken Line, Deduct</i>	-0.78	
32 17 23	13-0150	LF	CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	2.02	
			<i>For Up To 5,000 LF, Add</i>	0.40	
			<i>For >25,000 LF, Deduct</i>	-0.30	
32 17 23	13-0151	LF	CALTRANS Detail 24 Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	0.75	
			<i>For Up To 5,000 LF, Add</i>	0.15	
			<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23	13-0152	LF	CALTRANS Detail 25 Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	0.93	
			<i>For Up To 5,000 LF, Add</i>	0.19	
			<i>For >25,000 LF, Deduct</i>	-0.14	
32 17 23	13-0153	LF	CALTRANS Detail 25A Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	1.13	
			<i>For Up To 5,000 LF, Add</i>	0.23	
			<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23	13-0154	LF	CALTRANS Detail 27 Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	1.46	
			<i>For Up To 5,000 LF, Add</i>	0.29	
			<i>For >25,000 LF, Deduct</i>	-0.22	
32 17 23	13-0155	LF	CALTRANS Detail 27B Right Edgelines, Painted Thermoplastic Reflective Pavement Striping	0.75	
			<i>For Up To 5,000 LF, Add</i>	0.15	
			<i>For >25,000 LF, Deduct</i>	-0.11	
32 17 23	13-0156	LF	CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Thermoplastic Reflective Pavement Striping	0.33	
			<i>For Up To 5,000 LF, Add</i>	0.07	
			<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23	13-0157	LF	CALTRANS Detail 28 Median Islands, Painted Thermoplastic Reflective Pavement Striping	0.81	
			<i>For Up To 5,000 LF, Add</i>	0.16	
			<i>For >25,000 LF, Deduct</i>	-0.12	
			<i>For Broken Line On One Side, Deduct</i>	-0.13	
			<i>For Double Broken Line, Deduct</i>	-0.26	
32 17 23	13-0158	LF	CALTRANS Detail 29 Median Islands, Painted Thermoplastic Reflective Pavement Striping	3.30	
			<i>For Up To 5,000 LF, Add</i>	0.66	
			<i>For >25,000 LF, Deduct</i>	-0.50	
32 17 23	13-0159	LF	CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Thermoplastic Reflective Pavement Striping	1.76	
			<i>For Up To 5,000 LF, Add</i>	0.35	
			<i>For >25,000 LF, Deduct</i>	-0.26	
			<i>For Broken Line On One Side, Deduct</i>	-0.49	
			<i>For Double Broken Line, Deduct</i>	-0.98	
32 17 23	13-0160	LF	CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Thermoplastic Reflective Pavement Striping	2.71	
			<i>For Up To 5,000 LF, Add</i>	0.54	
			<i>For >25,000 LF, Deduct</i>	-0.41	
32 17 23	13-0161	LF	CALTRANS Detail 34 Intersection Treatments, Painted Thermoplastic Reflective Pavement Striping	1.45	
			<i>For Up To 5,000 LF, Add</i>	0.29	
			<i>For >25,000 LF, Deduct</i>	-0.22	
32 17 23	13-0162	LF	CALTRANS Detail 35 Intersection Treatments, Painted Thermoplastic Reflective Pavement Striping	1.69	
			<i>For Up To 5,000 LF, Add</i>	0.34	
			<i>For >25,000 LF, Deduct</i>	-0.25	
32 17 23	13-0163	LF	CALTRANS Detail 35A Intersection Treatments, Painted Thermoplastic Reflective Pavement Striping	0.90	
			<i>For Up To 5,000 LF, Add</i>	0.18	
			<i>For >25,000 LF, Deduct</i>	-0.14	
32 17 23	13-0164	LF	CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Thermoplastic Reflective Pavement Striping	3.45	
			<i>For Up To 5,000 LF, Add</i>	0.69	
			<i>For >25,000 LF, Deduct</i>	-0.52	
32 17 23	13-0165	LF	CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Thermoplastic Reflective Pavement Striping	1.97	
			<i>For Up To 5,000 LF, Add</i>	0.39	
			<i>For >25,000 LF, Deduct</i>	-0.30	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0166	LF		CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Thermoplastic Reflective Pavement Striping.....	2.47	
			For Up To 5,000 LF, Add	0.49	
			For >25,000 LF, Deduct	-0.37	
32 17 23 13-0167	LF		CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Thermoplastic Reflective Pavement Striping.....	1.30	
			For Up To 5,000 LF, Add	0.26	
			For >25,000 LF, Deduct	-0.20	
32 17 23 13-0168	LF		CALTRANS Detail 37B Lane Drop At Intersections, Painted Thermoplastic Reflective Pavement Striping	1.30	
			For Up To 5,000 LF, Add	0.26	
			For >25,000 LF, Deduct	-0.20	
32 17 23 13-0169	LF		CALTRANS Detail 38 Channelizing Line, Painted Thermoplastic Reflective Pavement Striping.....	1.87	
			For Up To 5,000 LF, Add	0.37	
			For >25,000 LF, Deduct	-0.28	
32 17 23 13-0170	LF		CALTRANS Detail 38A Channelizing Line, Painted Thermoplastic Reflective Pavement Striping	1.49	
			For Up To 5,000 LF, Add	0.30	
			For >25,000 LF, Deduct	-0.22	
32 17 23 13-0171	LF		CALTRANS Detail 38B Channelizing Line, Painted Thermoplastic Reflective Pavement Striping	2.24	
			For Up To 5,000 LF, Add	0.45	
			For >25,000 LF, Deduct	-0.34	
32 17 23 13-0172	LF		CALTRANS Detail 39 Bike Lane Line, Painted Thermoplastic Reflective Pavement Striping	1.03	
			For Up To 5,000 LF, Add	0.21	
			For >25,000 LF, Deduct	-0.15	
32 17 23 13-0173	LF		CALTRANS Detail 39A Intersection Line Bike Lane, Painted Thermoplastic Reflective Pavement Striping.....	0.53	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
32 17 23 13-0174	LF		CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Thermoplastic Reflective Pavement Striping	0.30	
			For Up To 5,000 LF, Add	0.06	
			For >25,000 LF, Deduct	-0.05	
32 17 23 13-0175	LF		CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Thermoplastic Reflective Pavement Striping	0.30	
			For Up To 5,000 LF, Add	0.06	
			For >25,000 LF, Deduct	-0.05	
32 17 23 13-0176	EA		CALTRANS 10' Arrow, Type I, Painted Thermoplastic Reflective Pavement Marking.....	122.09	
			For <10, Add	13.20	
			For >50 To 100, Deduct	-6.60	
			For >100 To 200, Deduct	-8.80	
			For >200, Deduct	-17.60	
32 17 23 13-0177	EA		CALTRANS 18' Arrow, Type I, Painted Thermoplastic Reflective Pavement Marking.....	214.89	
			For <10, Add	23.10	
			For >50 To 100, Deduct	-11.55	
			For >100 To 200, Deduct	-15.40	
			For >200, Deduct	-30.81	
32 17 23 13-0178	EA		CALTRANS 24' Arrow, Type I, Painted Thermoplastic Reflective Pavement Marking.....	269.10	
			For <10, Add	29.05	
			For >50 To 100, Deduct	-14.52	
			For >100 To 200, Deduct	-19.36	
			For >200, Deduct	-38.73	
32 17 23 13-0179	EA		CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Thermoplastic Reflective Pavement Marking.....	391.20	
			For <10, Add	42.25	
			For >50 To 100, Deduct	-21.12	
			For >100 To 200, Deduct	-28.17	
			For >200, Deduct	-56.33	
32 17 23 13-0180	EA		CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Thermoplastic Reflective Pavement Marking.....	464.21	
			For <10, Add	55.45	
			For >50 To 100, Deduct	-27.73	
			For >100 To 200, Deduct	-36.97	
			For >200, Deduct	-73.94	
32 17 23 13-0181	EA		CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Thermoplastic Reflective Pavement Marking	361.89	
			For <10, Add	38.95	
			For >50 To 100, Deduct	-19.47	
			For >100 To 200, Deduct	-25.97	
			For >200, Deduct	-51.93	
32 17 23 13-0182	EA		CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Thermoplastic Reflective Pavement Marking	631.00	
			For <10, Add	67.99	
			For >50 To 100, Deduct	-34.00	
			For >100 To 200, Deduct	-45.33	
			For >200, Deduct	-90.66	
32 17 23 13-0183	EA		CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Thermoplastic Reflective Pavement Marking.....	128.93	
			For <10, Add	13.86	
			For >50 To 100, Deduct	-6.93	
			For >100 To 200, Deduct	-9.24	
			For >200, Deduct	-18.48	
32 17 23 13-0184	EA		CALTRANS 24' Arrow, Type V, Painted Thermoplastic Reflective Pavement Marking	282.77	
			For <10, Add	30.37	
			For >50 To 100, Deduct	-15.18	
			For >100 To 200, Deduct	-20.24	
			For >200, Deduct	-40.49	
32 17 23 13-0185	EA		CALTRANS 18' Arrow, Type VI, Painted Thermoplastic Reflective Pavement Marking	361.89	
			For <10, Add	38.95	
			For >50 To 100, Deduct	-19.47	
			For >100 To 200, Deduct	-25.97	
			For >200, Deduct	-51.93	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0186	EA		CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Thermoplastic Reflective Pavement Marking.....	234.41	
			For <10, Add	25.09	
			For >50 To 100, Deduct	-12.54	
			For >100 To 200, Deduct	-16.72	
			For >200, Deduct	-33.45	
32 17 23 13-0187	EA		CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Thermoplastic Reflective Pavement Marking.....	307.69	
			For <10, Add	33.01	
			For >50 To 100, Deduct	-16.50	
			For >100 To 200, Deduct	-22.01	
			For >200, Deduct	-44.01	
32 17 23 13-0188	EA		CALTRANS 5' Arrow, Bike Lane, Painted Thermoplastic Reflective Pavement Marking.....	61.05	
			For <10, Add	6.60	
			For >50 To 100, Deduct	-3.30	
			For >100 To 200, Deduct	-4.40	
			For >200, Deduct	-8.80	
32 17 23 13-0189	EA		CALTRANS Railroad Crossing Symbol, Painted Thermoplastic Reflective Pavement Marking	588.49	
			Note: Excludes variable width transverse lines.		
			For <10, Add	62.71	
			For >50 To 100, Deduct	-31.36	
			For >100 To 200, Deduct	-41.81	
			For >200, Deduct	-83.62	
32 17 23 13-0190	SF		CALTRANS Solid Area, Painted Thermoplastic Reflective Pavement Marking	7.80	
32 17 23 13-0191	EA		CALTRANS Bike Lane Symbol Without Person, Painted Thermoplastic Reflective Pavement Marking	60.03	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	4.75	
			For >50 To 100, Deduct	-2.38	
			For >100 To 200, Deduct	-3.17	
			For >200, Deduct	-6.34	
32 17 23 13-0192	EA		CALTRANS Bike Lane Symbol With Person, Painted Thermoplastic Reflective Pavement Marking	63.10	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	5.02	
			For >50 To 100, Deduct	-2.51	
			For >100 To 200, Deduct	-3.35	
			For >200, Deduct	-6.69	
32 17 23 13-0193	EA		CALTRANS Diamond Symbol, Painted Thermoplastic Reflective Pavement Marking	97.20	
			For <10, Add	10.56	
			For >50 To 100, Deduct	-5.28	
			For >100 To 200, Deduct	-7.04	
			For >200, Deduct	-14.08	
32 17 23 13-0194	EA		CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Thermoplastic Reflective Pavement Marking.....	198.58	
			For <10, Add	21.39	
			For >50 To 100, Deduct	-10.69	
			For >100 To 200, Deduct	-14.26	
			For >200, Deduct	-28.52	
32 17 23 13-0195	EA		CALTRANS Bike Loop Detector Symbol, Painted Thermoplastic Reflective Pavement Marking	38.19	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	5.02	
			For >50 To 100, Deduct	-2.51	
			For >100 To 200, Deduct	-3.35	
			For >200, Deduct	-6.69	
32 17 23 13-0196	SF		CALTRANS Letter/Number, Painted Thermoplastic Reflective Pavement Marking.....	7.89	
32 17 23 13-0197	SF		CALTRANS Symbols, Painted Thermoplastic Reflective Pavement Marking	8.59	
			Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0198			Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13)		
			Note: Includes primers. Per Coat.		
32 17 23 13-0199			Painted Pavement Marking For Parking Areas (32 17 23 13-0198)		
			Note: 15 mil thickness.		
32 17 23 13-0200	LF		Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.19	
32 17 23 13-0201	LF		Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.32	
32 17 23 13-0202	LF		Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.41	
32 17 23 13-0203	LF		Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.62	
32 17 23 13-0204	EA		6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	3.99	
			For Up To 10, Add	0.53	
			For >50 To 100, Deduct	-0.26	
			For >100 To 200, Deduct	-0.35	
			For >200, Deduct	-0.70	
32 17 23 13-0205	EA		12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	6.97	
			For Up To 10, Add	0.79	
			For >50 To 100, Deduct	-0.40	
			For >100 To 200, Deduct	-0.53	
			For >200, Deduct	-1.06	
32 17 23 13-0206	EA		24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	11.76	
			For Up To 10, Add	1.32	
			For >50 To 100, Deduct	-0.66	
			For >100 To 200, Deduct	-0.88	
			For >200, Deduct	-1.76	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0207 EA 36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	21.93	
For Up To 10, Add	2.51	
For >50 To 100, Deduct	-1.25	
For >100 To 200, Deduct	-1.67	
For >200, Deduct	-3.34	
32 17 23 13-0208 EA 42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	28.87	
For Up To 10, Add	3.43	
For >50 To 100, Deduct	-1.72	
For >100 To 200, Deduct	-2.29	
For >200, Deduct	-4.58	
32 17 23 13-0209 EA 48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	34.94	
For Up To 10, Add	4.23	
For >50 To 100, Deduct	-2.11	
For >100 To 200, Deduct	-2.82	
For >200, Deduct	-5.63	
32 17 23 13-0210 EA 72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	47.57	
For Up To 10, Add	5.28	
For >50 To 100, Deduct	-2.64	
For >100 To 200, Deduct	-3.52	
For >200, Deduct	-7.04	
32 17 23 13-0211 EA Through Lane Arrow, Painted Pavement Marking For Parking Areas	89.59	
Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23 13-0212 EA Turn Lane Arrow, Painted Pavement Marking For Parking Areas	104.82	
Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 13-0213 EA Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas	155.03	
Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23 13-0214 EA Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas	158.55	
Note: Approximate overall dimensions: 7' width x 13' height.		
32 17 23 13-0215 EA Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas	211.86	
Note: Approximate overall dimensions: 9' width x 15' height.		
32 17 23 13-0216 EA Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas	34.72	
Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
For Blue Background With White Symbol, Add	28.74	
For Blue Background With White Symbol And Border, Add	35.92	
32 17 23 13-0217 EA Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas	53.81	
Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.		
For Blue Background With White Symbol, Add	61.97	
For Blue Background With White Symbol And Border, Add	77.47	
32 17 23 13-0218 Painted Curbs (32 17 23 13)		
Note: All colors.		
32 17 23 13-0219 LF Reflective Painted Curb	3.64	
32 17 23 13-0220 LF Reflective Painted Curb And Gutter	7.10	
32 17 23 13-0221 LF Painted Curb	2.97	
32 17 23 13-0222 LF Painted Curb And Gutter	6.54	
32 17 23 13-0223 Markings For Outdoor Play Areas, Courts (32 17 23 13)		
32 17 23 13-0224 LF 2" Wide Marking For Outdoor Play Areas	1.20	
32 17 23 13-0225 LF 3" Wide Marking For Outdoor Play Areas	1.35	
32 17 23 13-0226 LF 4" Wide Marking For Outdoor Play Areas	1.53	
32 17 23 13-0227 LF 6" Wide Marking For Outdoor Play Areas	1.80	
32 17 23 13-0228 EA Layout And Paint Playground Game Lines And Background On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, etc.)	307.21	
32 17 23 23 Raised Pavement Markings (32 17 23)		
32 17 23 23-0001 Raised Pavement Markers (RPMs) (32 17 23 23)		
Note: White, Red, Yellow/Amber, Green or Blue		
32 17 23 23-0002 EA One-Way Reflective, Raised Pavement Marker (RPM)	8.54	3.17
Note: Type G, H or R		
For >100, Deduct	-0.85	
32 17 23 23-0003 EA Two-Way Reflective, Raised Pavement Marker (RPM)	9.06	3.17
Note: Type B, C, D, AC, RA or RR		
For >100, Deduct	-0.91	
32 17 23 23-0004 EA 4" Diameter, Round Reflective, Raised Pavement Marker (RPM)	11.19	3.17
For >100, Deduct	-1.12	
32 17 23 23-0005 EA 4" Diameter, Non-Reflective, Raised Pavement Marker (RPM)	7.86	3.17
Note: Type A or AY		
For >100, Deduct	-0.79	
32 17 23 23-0006 Snowplowable Pavement Markers (32 17 23 23)		
32 17 23 23-0007 EA One-Way Reflective, Snowplowable Pavement Marker With Center Rail	86.84	37.29
Note: Type G, H or R		
32 17 23 23-0008 EA Two-Way Reflective, Snowplowable Pavement Marker With Center Rail	87.29	37.29
Note: Type B, C, D, AC, RA or RR		
32 17 23 23-0009 EA Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker	25.28	
32 17 23 23-0010 EA Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker	31.94	
32 17 23 33 Plastic Pavement Markings (32 17 23)		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 17 23 33-0001	Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads (32 17 23 33) Note: Includes primers, adhesive and reflective glass beads. For broken line modifier quantity use total lane length.		
32 17 23 33-0002	Thermoplastic Reflective Pavement Marking (32 17 23 33-0001) Note: 90 mil thickness.		
32 17 23 33-0003	LF Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.01	
	For Up To 5,000 LF, Add	0.40	
	For >25,000 LF, Deduct	-0.30	
	For 60 mils Thick, Deduct	-0.30	
	For 125 mils Thick, Add	0.38	
	For Broken Line, Deduct	-1.28	
32 17 23 33-0004	LF Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.93	
	Note: Includes yellow or white.		
	For Up To 5,000 LF, Add	0.59	
	For >25,000 LF, Deduct	-0.44	
	For 60 mils Thick, Deduct	-0.45	
	For 125 mils Thick, Add	0.58	
	For Broken Line, Deduct	-1.92	
32 17 23 33-0005	LF Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	3.88	
	Note: Includes yellow or white.		
	For Up To 5,000 LF, Add	0.78	
	For >25,000 LF, Deduct	-0.58	
	For 60 mils Thick, Deduct	-0.60	
	For 125 mils Thick, Add	0.77	
	For Broken Line, Deduct	-2.56	
32 17 23 33-0006	LF Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	5.71	
	Note: Includes yellow or white.		
	For Up To 5,000 LF, Add	1.14	
	For >25,000 LF, Deduct	-0.86	
	For 60 mils Thick, Deduct	-0.89	
	For 125 mils Thick, Add	1.15	
	For Broken Line, Deduct	-3.83	
32 17 23 33-0007	LF Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	3.87	
	Note: Includes yellow or white.		
	For Up To 5,000 LF, Add	0.77	
	For >25,000 LF, Deduct	-0.58	
	For 60 mils Thick, Deduct	-0.60	
	For 125 mils Thick, Add	0.77	
	For Broken Line On One Side, Deduct	-1.28	
	For Double Broken Line, Deduct	-2.56	
32 17 23 33-0008	LF Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	5.71	
	Note: Includes yellow or white.		
	For Up To 5,000 LF, Add	1.14	
	For >25,000 LF, Deduct	-0.86	
	For 60 mils Thick, Deduct	-0.89	
	For 125 mils Thick, Add	1.15	
	For Broken Line On One Side, Deduct	-1.92	
	For Double Broken Line, Deduct	-3.83	
32 17 23 33-0009	SF Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	10.37	
	Note: Includes yellow or white.		
	For 60 mils Thick, Deduct	-0.89	
	For 125 mils Thick, Add	1.15	
32 17 23 33-0010	EA 6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	6.35	
	For Up To 10, Add	0.60	
	For >50 To 100, Deduct	-0.30	
	For >100 To 200, Deduct	-0.40	
	For >200, Deduct	-0.79	
	For 60 mils Thick, Deduct	-0.42	
	For 125 mils Thick, Add	0.54	
32 17 23 33-0011	EA 12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	14.58	
	For Up To 10, Add	0.90	
	For >50 To 100, Deduct	-0.45	
	For >100 To 200, Deduct	-0.60	
	For >200, Deduct	-1.20	
	For 60 mils Thick, Deduct	-1.51	
	For 125 mils Thick, Add	1.94	
32 17 23 33-0012	EA 24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	25.01	
	For Up To 10, Add	1.49	
	For >50 To 100, Deduct	-0.75	
	For >100 To 200, Deduct	-1.00	
	For >200, Deduct	-1.99	
	For 60 mils Thick, Deduct	-2.64	
	For 125 mils Thick, Add	3.39	
32 17 23 33-0013	EA 36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	46.45	
	For Up To 10, Add	3.00	
	For >50 To 100, Deduct	-1.50	
	For >100 To 200, Deduct	-2.00	
	For >200, Deduct	-4.00	
	For 60 mils Thick, Deduct	-4.63	
	For 125 mils Thick, Add	5.96	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0014	EA	48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	56.76		
		For Up To 10, Add	3.35		
		For >50 To 100, Deduct	-1.68		
		For >100 To 200, Deduct	-2.24		
		For >200, Deduct	-4.47		
		For 60 mils Thick, Deduct	-6.02		
		For 125 mils Thick, Add	7.74		
32 17 23 33-0015	EA	72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	102.66		
		For Up To 10, Add	5.97		
		For >50 To 100, Deduct	-2.98		
		For >100 To 200, Deduct	-3.98		
		For >200, Deduct	-7.96		
		For 60 mils Thick, Deduct	-11.00		
		For 125 mils Thick, Add	14.15		
32 17 23 33-0016	EA	96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	136.15		
		For Up To 10, Add	8.01		
		For >50 To 100, Deduct	-4.01		
		For >100 To 200, Deduct	-5.34		
		For >200, Deduct	-10.69		
		For 60 mils Thick, Deduct	-14.48		
		For 125 mils Thick, Add	18.61		
32 17 23 33-0017	EA	120" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	250.83		
		For Up To 10, Add	9.93		
		For >50 To 100, Deduct	-4.96		
		For >100 To 200, Deduct	-6.62		
		For >200, Deduct	-13.24		
		For 60 mils Thick, Deduct	-32.31		
		For 125 mils Thick, Add	41.54		
32 17 23 33-0018	SF	Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	11.94		
		For 60 mils Thick, Deduct	-1.04		
		For 125 mils Thick, Add	1.34		
32 17 23 33-0019	SY	Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	33.45		
		Note: Per SY of area.			
		For 60 mils Thick, Deduct	-2.00		
		For 125 mils Thick, Add	2.57		
32 17 23 33-0020	EA	Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	305.02		
		For 60 mils Thick, Deduct	-23.97		
		For 125 mils Thick, Add	30.82		
32 17 23 33-0021	EA	Railroad Crossing Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	1,030.79		
		Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.			
		For 60 mils Thick, Deduct	-164.99		
		For 125 mils Thick, Add	212.13		
32 17 23 33-0022	EA	Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	909.82		
		For 60 mils Thick, Deduct	-72.96		
		For 125 mils Thick, Add	93.81		
32 17 23 33-0023	EA	Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	223.76		
		Note: Approximate overall dimensions: 4' width x 8' height.			
		For 60 mils Thick, Deduct	-33.00		
		For 125 mils Thick, Add	42.43		
32 17 23 33-0024	EA	Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	145.88		
		For 60 mils Thick, Deduct	-11.47		
		For 125 mils Thick, Add	14.74		
32 17 23 33-0025	SF	Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	13.26		
		Note: Handicap, railroad, diamond, arrows, etc.			
		For 60 mils Thick, Deduct	-1.04		
		For 125 mils Thick, Add	1.34		
32 17 23 33-0026	EA	10' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	185.66		
		For 60 mils Thick, Deduct	-14.59		
		For 125 mils Thick, Add	18.76		
32 17 23 33-0027	EA	18' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	331.53		
		For 60 mils Thick, Deduct	-26.06		
		For 125 mils Thick, Add	33.50		
32 17 23 33-0028	EA	24' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	411.11		
		For 60 mils Thick, Deduct	-32.31		
		For 125 mils Thick, Add	41.54		
32 17 23 33-0029	EA	24' Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	596.76		
		For 60 mils Thick, Deduct	-46.90		
		For 125 mils Thick, Add	60.30		
32 17 23 33-0030	EA	24' Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	782.44		
		For 60 mils Thick, Deduct	-61.50		
		For 125 mils Thick, Add	79.07		
32 17 23 33-0031	EA	24' Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	556.99		
		For 60 mils Thick, Deduct	-43.78		
		For 125 mils Thick, Add	56.29		
32 17 23 33-0032	EA	24' Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	968.09		
		For 60 mils Thick, Deduct	-76.09		
		For 125 mils Thick, Add	97.83		
32 17 23 33-0033	EA	8' Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	198.92		
		For 60 mils Thick, Deduct	-15.63		
		For 125 mils Thick, Add	20.10		
32 17 23 33-0034	EA	24' Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	437.63		
		For 60 mils Thick, Deduct	-34.40		
		For 125 mils Thick, Add	44.22		
32 17 23 33-0035	EA	18' Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	556.99		
		For 60 mils Thick, Deduct	-43.78		
		For 125 mils Thick, Add	56.29		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0036	EA	13' Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	358.06	
		<i>For 60 mils Thick, Deduct</i>	-28.14	
		<i>For 125 mils Thick, Add</i>	36.18	
32 17 23 33-0037	EA	15' Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	477.42	
		<i>For 60 mils Thick, Deduct</i>	-37.52	
		<i>For 125 mils Thick, Add</i>	48.24	
32 17 23 33-0038	EA	5' Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	92.83	
		<i>For 60 mils Thick, Deduct</i>	-7.30	
		<i>For 125 mils Thick, Add</i>	9.38	
32 17 23 33-0039 Thermoplastic Reflective Pavement Striping By Hand For Repairs (32 17 23 33-0001)				
32 17 23 33-0040	LF	Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	3.56	
		<i>For 60 mils Thick, Deduct</i>	-0.30	
		<i>For 125 mils Thick, Add</i>	0.38	
32 17 23 33-0041	LF	Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	4.68	
		<i>For 60 mils Thick, Deduct</i>	-0.45	
		<i>For 125 mils Thick, Add</i>	0.58	
32 17 23 33-0042	LF	Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	5.88	
		<i>For 60 mils Thick, Deduct</i>	-0.60	
		<i>For 125 mils Thick, Add</i>	0.77	
32 17 23 33-0043	LF	Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	8.54	
		<i>For 60 mils Thick, Deduct</i>	-0.89	
		<i>For 125 mils Thick, Add</i>	1.15	
32 17 23 33-0044	LF	Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	15.79	
		<i>For 60 mils Thick, Deduct</i>	-1.79	
		<i>For 125 mils Thick, Add</i>	2.30	
32 17 23 33-0045 Preformed, Patterned Thermoplastic Reflective Pavement Marking Tape (32 17 23 33-0001)				
		Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).		
32 17 23 33-0046	LF	Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping.....	4.51	
		Note: Includes yellow or white.		
		<i>For Up To 5,000 LF, Add</i>	0.90	
		<i>For >25,000 LF, Deduct</i>	-0.68	
32 17 23 33-0047	LF	Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping.....	6.71	
		Note: Includes yellow or white.		
		<i>For Up To 5,000 LF, Add</i>	1.34	
		<i>For >25,000 LF, Deduct</i>	-1.01	
32 17 23 33-0048	LF	Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping.....	8.92	
		Note: Includes yellow or white.		
		<i>For Up To 5,000 LF, Add</i>	1.78	
		<i>For >25,000 LF, Deduct</i>	-1.34	
32 17 23 33-0049	LF	Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping.....	13.28	
		Note: Includes yellow or white.		
		<i>For Up To 5,000 LF, Add</i>	2.66	
		<i>For >25,000 LF, Deduct</i>	-1.99	
32 17 23 33-0050	SF	Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape.....	34.39	
		Note: Includes yellow or white.		
32 17 23 33-0051	EA	6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape.....	51.49	
		<i>For <10, Add</i>	1.08	
		<i>For >50 To 100, Deduct</i>	-0.54	
		<i>For >100 To 200, Deduct</i>	-0.72	
		<i>For >200, Deduct</i>	-1.44	
32 17 23 33-0052	EA	12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape.....	93.42	
		<i>For <10, Add</i>	1.37	
		<i>For >50 To 100, Deduct</i>	-0.69	
		<i>For >100 To 200, Deduct</i>	-0.92	
		<i>For >200, Deduct</i>	-1.83	
32 17 23 33-0053	EA	24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape.....	158.80	
		<i>For <10, Add</i>	2.72	
		<i>For >50 To 100, Deduct</i>	-1.36	
		<i>For >100 To 200, Deduct</i>	-1.81	
		<i>For >200, Deduct</i>	-3.63	
32 17 23 33-0054	EA	36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape.....	222.20	
		<i>For <10, Add</i>	5.44	
		<i>For >50 To 100, Deduct</i>	-2.72	
		<i>For >100 To 200, Deduct</i>	-3.63	
		<i>For >200, Deduct</i>	-7.25	
32 17 23 33-0055	EA	48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape.....	261.73	
		<i>For <10, Add</i>	6.10	
		<i>For >50 To 100, Deduct</i>	-3.05	
		<i>For >100 To 200, Deduct</i>	-4.07	
		<i>For >200, Deduct</i>	-8.13	
32 17 23 33-0056	EA	72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape.....	320.85	
		<i>For <10, Add</i>	10.85	
		<i>For >50 To 100, Deduct</i>	-5.43	
		<i>For >100 To 200, Deduct</i>	-7.24	
		<i>For >200, Deduct</i>	-14.47	
32 17 23 33-0057	EA	96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape.....	405.65	
		<i>For <10, Add</i>	14.58	
		<i>For >50 To 100, Deduct</i>	-7.29	
		<i>For >100 To 200, Deduct</i>	-9.72	
		<i>For >200, Deduct</i>	-19.43	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0058	EA	120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	509.43 18.06 -9.03 -12.04 -24.08	
32 17 23 33-0059	SF	Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	35.09	
32 17 23 33-0060	SF	Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape Note: Handicap, railroad, diamond symbol, etc.	36.41	
32 17 23 33-0061		Preformed, Thermoplastic Reflective Pavement Marking Tape (32 17 23 33-0001) Note: Heat applied. (Flint PreMark or HotTape Series).		
32 17 23 33-0062	EA	Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 4' width x 8' height.	404.80	
32 17 23 33-0063	EA	Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.	1,074.77	
32 17 23 33-0064	EA	Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 13' height.	209.22	
32 17 23 33-0065	EA	6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 2' width x 6' height.	174.48	
32 17 23 33-0066	EA	9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.	347.84	
32 17 23 33-0067	EA	4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3' width x 4' height.	203.96	
32 17 23 33-0068	EA	8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 6' width x 8' height.	388.49	
32 17 23 33-0069	EA	Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.	670.93	
32 17 23 33-0070	EA	Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.	1,015.67	
32 17 23 33-0071	EA	Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 1-2/3' width x 12' height.	356.47	
32 17 23 33-0072	EA	Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3' width x 12' height.	397.12	
32 17 23 33-0073	EA	Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 5-1/2' width x 12' height.	741.42	
32 17 23 33-0074	EA	Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/2' width x 20' height.	680.61	
32 17 23 33-0075	EA	Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 5-1/2' width x 20' height.	683.25	
32 17 23 33-0076	EA	Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 5-1/2' width x 18' height.	946.29	
32 17 23 33-0077		Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 33)		
32 17 23 33-0078		Thermoplastic Pavement Marking Symbols For Parking Areas (32 17 23 33-0077) Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0079	EA	28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: White or blue symbol. Excludes striping.	135.82	
32 17 23 33-0080	EA	39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: White symbol on blue background. Excludes striping.	521.88	
32 17 23 33-0081	EA	40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: White symbol on blue background. Excludes striping.	293.24	
32 17 23 33-0082	EA	45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: White symbol on blue background. Excludes striping.	353.00	
32 17 23 33-0083	EA	48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: White symbol on blue background. Excludes striping.	370.08	
32 17 26		Tactile Warning Surfaces (32 17)		
32 17 26 00-0001		Vitrified Polymer Composite (VPC); (Armor Tile) (32 17 26) Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002	SF	Surface Applied VPC Truncated Dome Detectable Warning Surface..... Note: Includes adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.	69.24	9.99
32 17 26 00-0003	SF	Embedded, VPC Truncated Dome Detectable Warning Surface..... Note: Also raised strips or directional bars. All colors.	56.25	9.99
32 17 26 00-0004		Fiber-Reinforced, Polymer Modified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) (32 17 26) Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0005	SF	Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 topcoat sealer and SSTD-1250 finish. All colors. 2' or 3' width.	83.12	9.99
32 17 26 00-0006	SF	>15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 topcoat sealer and SSTD-1250 finish. All colors. 2' or 3' width.	74.14	9.99

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 18 Athletic and Recreational Surfacing (32 10)**32 18 16 Synthetic Resilient Surfacing** (32 18)**32 18 16 13 Playground Protective Surfacing** (32 18 16)**32 18 16 13-0001 Tile Playground Surface Material** (32 18 16 13)

Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.

32 18 16 13-0002	SF	1-3/4" Thick, Resilient Rubber Tile Playground Surfacing	26.38	2.86
		For Manufacturer's Standard Colors, Add	1.60	
		For Interlocking Tiles, Add	3.57	
		For Mechanically Fastened, Add	2.11	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0003	SF	2" Thick, Resilient Rubber Tile Playground Surfacing	26.92	3.02
		For Manufacturer's Standard Colors, Add	1.60	
		For Interlocking Tiles, Add	3.57	
		For Mechanically Fastened, Add	2.22	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0004	SF	2-3/4" Thick, Resilient Rubber Tile Playground Surfacing	27.99	3.38
		For Manufacturer's Standard Colors, Add	1.60	
		For Interlocking Tiles, Add	3.57	
		For Mechanically Fastened, Add	2.43	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0005	SF	2-1/2" Thick, Resilient Rubber Tile Playground Surfacing	29.06	3.74
		For Manufacturer's Standard Colors, Add	1.60	
		For Interlocking Tiles, Add	3.57	
		For Mechanically Fastened, Add	2.65	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0006	SF	2-3/4" Thick, Resilient Rubber Tile Playground Surfacing	32.43	4.09
		For Manufacturer's Standard Colors, Add	1.21	
		For Interlocking Tiles, Add	4.03	
		For Mechanically Fastened, Add	2.86	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0007	SF	3" Thick, Resilient Rubber Tile Playground Surfacing	33.62	4.49
		For Manufacturer's Standard Colors, Add	1.21	
		For Interlocking Tiles, Add	4.03	
		For Mechanically Fastened, Add	3.10	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0008	SF	3-1/4" Thick, Resilient Rubber Tile Playground Surfacing	34.84	4.89
		For Manufacturer's Standard Colors, Add	1.21	
		For Interlocking Tiles, Add	4.03	
		For Mechanically Fastened, Add	3.34	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0009	SF	3-1/2" Thick, Resilient Rubber Tile Playground Surfacing	38.30	5.24
		For Manufacturer's Standard Colors, Add	0.67	
		For Interlocking Tiles, Add	4.50	
		For Mechanically Fastened, Add	3.56	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0010	SF	3-3/4" Thick, Resilient Rubber Tile Playground Surfacing	39.37	5.66
		For Manufacturer's Standard Colors, Add	0.67	
		For Interlocking Tiles, Add	4.50	
		For Mechanically Fastened, Add	3.78	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0011	SF	4" Thick, Resilient Rubber Tile Playground Surfacing	40.55	5.98
		For Manufacturer's Standard Colors, Add	0.67	
		For Interlocking Tiles, Add	4.50	
		For Mechanically Fastened, Add	4.01	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0012	SF	4-1/2" Thick, Resilient Rubber Tile Playground Surfacing	46.66	6.73
		For Manufacturer's Standard Colors, Add	0.66	
		For Interlocking Tiles, Add	5.27	
		For Mechanically Fastened, Add	4.46	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	

32 18 16 13-0013 Loose Laid Playground Surface Material (32 18 16 13)

Note: Excludes sub base.

32 18 16 13-0014	SF	3" Loose Laid Wood Fiber Safety Playground Surfacing	1.96	0.43
32 18 16 13-0015	SF	6" Loose Laid Wood Fiber Safety Playground Surfacing	2.60	0.53
32 18 16 13-0016	SF	9" Loose Laid Wood Fiber Safety Playground Surfacing	3.30	0.64
32 18 16 13-0017	SF	12" Loose Laid Wood Fiber Safety Playground Surfacing	4.66	0.97
32 18 16 13-0018	SF	3" Loose Laid Synthetic Fiber Safety Playground Surfacing	2.86	0.43
32 18 16 13-0019	SF	6" Loose Laid Synthetic Fiber Safety Playground Surfacing	3.55	0.53
32 18 16 13-0020	SF	9" Loose Laid Synthetic Fiber Safety Playground Surfacing	5.35	0.64
32 18 16 13-0021	SF	12" Loose Laid Synthetic Fiber Safety Playground Surfacing	6.73	0.97
32 18 16 13-0022	SF	8" FIBAR System Playground Surfacing	11.45	1.60
		Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.		
32 18 16 13-0023	SF	12" FIBAR System Playground Surfacing	14.63	2.14
		Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.		

32 18 16 13-0024 Poured In Place Playground Surfacing (32 18 16 13)

Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Athletic and Recreational Surfacing			32 18

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0025	SF	1-3/4" Thick, Up To 4' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	20.66	3.08	
		For Up To 2,000, Add	4.16		
		For >2,000 To 3,000, Add	2.93		
		For >3,000 To 4,000, Add	2.00		
		For >4,000 To 5,000, Add	1.27		
		For >5,000 To 7,000, Add	0.53		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0026	SF	2" Thick, 5' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	21.30	3.41	
		For Up To 2,000, Add	4.28		
		For >2,000 To 3,000, Add	3.02		
		For >3,000 To 4,000, Add	2.06		
		For >4,000 To 5,000, Add	1.31		
		For >5,000 To 7,000, Add	0.55		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0027	SF	2-1/2" Thick, 6' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	22.99	3.90	
		For Up To 2,000, Add	4.62		
		For >2,000 To 3,000, Add	3.26		
		For >3,000 To 4,000, Add	2.22		
		For >4,000 To 5,000, Add	1.42		
		For >5,000 To 7,000, Add	0.59		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0028	SF	3" Thick, 7' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	24.85	4.15	
		For Up To 2,000, Add	5.00		
		For >2,000 To 3,000, Add	3.52		
		For >3,000 To 4,000, Add	2.40		
		For >4,000 To 5,000, Add	1.53		
		For >5,000 To 7,000, Add	0.64		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0029	SF	3-1/2" Thick, 8' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	26.67	4.36	
		For Up To 2,000, Add	5.36		
		For >2,000 To 3,000, Add	3.78		
		For >3,000 To 4,000, Add	2.57		
		For >4,000 To 5,000, Add	1.64		
		For >5,000 To 7,000, Add	0.68		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0030	SF	4" Thick, 9' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	28.24	4.62	
		For Up To 2,000, Add	5.68		
		For >2,000 To 3,000, Add	4.00		
		For >3,000 To 4,000, Add	2.73		
		For >4,000 To 5,000, Add	1.74		
		For >5,000 To 7,000, Add	0.72		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0031	SF	4-1/2" Thick, 10' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	30.07	4.87	
		For Up To 2,000, Add	6.05		
		For >2,000 To 3,000, Add	4.26		
		For >3,000 To 4,000, Add	2.90		
		For >4,000 To 5,000, Add	1.85		
		For >5,000 To 7,000, Add	0.77		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0032	SF	5-1/2" Thick, 12' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	33.74	5.46	
		For Up To 2,000, Add	6.78		
		For >2,000 To 3,000, Add	4.78		
		For >3,000 To 4,000, Add	3.26		
		For >4,000 To 5,000, Add	2.08		
		For >5,000 To 7,000, Add	0.87		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0033	SF	1/2" Top Only, Poured In Place Playground Surfacing	13.49		
		Note: Not used with new surfacing system tasks.			
		For Up To 2,000, Add	4.09		
		For >2,000 To 3,000, Add	2.65		
		For >3,000 To 4,000, Add	1.62		
		For >4,000 To 5,000, Add	0.98		
		For >5,000 To 7,000, Add	0.44		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0034	EA	Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing	3,031.87		
32 18 16 13-0035		Synthetic Playground Turf (Sporturf) (32 18 16 13)			
		Note: Excludes base preparation, aggregate, or drainage.			
32 18 16 13-0036	SF	60 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Sporturf PL929).....	11.35		
32 18 16 13-0037	SF	71 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Mirage PL906)	10.01		
32 18 16 13-0038	SF	2" Foam Padding (Sporturf).....	6.48		
32 18 16 13-0039	CF	Sand/Rubber Infill (Sporturf)	63.04		

32	Exterior Improvements
32 10	Bases, Ballasts, and Paving
32 18	Athletic and Recreational Surfacing



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 18 23 Athletic Surfacing (32 18)

32 18 23 13 Baseball Field Surfacing (32 18 23)

32 18 23 13-0001	Infield Dust (32 18 23 13)		
32 18 23 13-0002	SF 4" Deep Red Brick Infield Mix	5.24	0.76
32 18 23 13-0003	Clay Infield Maintenance (32 18 23 13)		
32 18 23 13-0004	MSF Playing Field Maintenance (Clay - Nail Drag)	13.86	
32 18 23 13-0005	MSF Playing Field Maintenance (Clay - Screen Drag)	13.86	
32 18 23 13-0006	CY Playing Field Maintenance Of Clay	117.82	
32 18 23 13-0007	TON Professional Softball/Baseball Infield Mix (Diamond-Tex Professional)	128.18	

32 18 23 23 Field Sport Surfacing (32 18 23)

32 18 23 23-0001	Turf Field Maintenance (32 18 23 23)		
32 18 23 23-0002	ACR Turf Aeration (Minimum 6" Penetration)	186.64	
32 18 23 23-0003	MSF Top Dressing 1/8" - 1/4" Sand	17.69	
32 18 23 23-0004	BAG Envirofill, 50 Lb. Bag	135.65	

32 18 23 29 Synthetic Field Sport Surfacing (32 18 23)

32 18 23 29-0001	Synthetic Field Sport Surfacing (32 18 23 29)		
32 18 23 29-0002	Synthetic Turf (AstroTurf) (32 18 23 29-0001) Note: Includes labor, equipment and material required to install the task.		
32 18 23 29-0003	Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) (32 18 23 29-0002)		
32 18 23 29-0004	38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) (32 18 23 29-0003)		
32 18 23 29-0005	SF 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38)	8.98	
	For Ambient Rubber And Sand Infill, Add	0.10	
	For Cryo Rubber Infill, Add	0.26	
	For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
	For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0006	EA Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields	28,996.35	
32 18 23 29-0007	EA Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields	23,634.76	
32 18 23 29-0008	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields	7,112.31	
	Note: Per sport.		
32 18 23 29-0009	EA End Zone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields	2,626.08	
	Note: Per letter. Excludes outline.		
32 18 23 29-0010	EA Colored End Zone For AstroTurf® GameDay Grass™ MT 38 Fields	2,516.66	
	Note: Per end zone.		
32 18 23 29-0011	EA Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields	21,884.04	
	Note: Block letter.		
32 18 23 29-0012	EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields	31,731.86	
	Note: Graphic.		
32 18 23 29-0013	41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) (32 18 23 29-0003)		
32 18 23 29-0014	SF 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41)	10.31	
	For Ambient Rubber And Sand Infill, Add	0.10	
	For Cryo Rubber Infill, Add	0.26	
	For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
	For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0015	EA Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields	29,543.63	
32 18 23 29-0016	EA Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields	24,510.27	
32 18 23 29-0017	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields	7,659.46	
	Note: Per sport.		
32 18 23 29-0018	EA End Zone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields	2,844.94	
	Note: Per letter. Excludes outline.		
32 18 23 29-0019	EA Colored End Zone For AstroTurf® GameDay Grass™ MT 41 Fields	2,626.10	
	Note: Per end zone.		
32 18 23 29-0020	EA Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields	22,978.38	
	Note: Block letter.		
32 18 23 29-0021	EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields	33,318.65	
	Note: Graphic.		

32 18 23 29-0022	45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) (32 18 23 29-0003)		



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Athletic and Recreational Surfacing			32 18

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0023	SF		45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45).....	10.50	
			For Ambient Rubber And Sand Infill, Add	0.10	
			For Cryo Rubber Infill, Add	0.26	
			For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
			For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0024	EA		Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields.....	30,090.74	
32 18 23 29-0025	EA		Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields.....	26,479.85	
32 18 23 29-0026	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields.....	8,206.56	
			Note: Per sport.		
32 18 23 29-0027	EA		End Zone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields.....	3,063.78	
			Note: Per letter. Excludes outline.		
32 18 23 29-0028	EA		Colored End Zone For AstroTurf® GameDay Grass™ MT 45 Fields.....	2,735.52	
			Note: Per end zone.		
32 18 23 29-0029	EA		Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields.....	24,072.59	
			Note: Block letter.		
32 18 23 29-0030	EA		Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields.....	34,905.25	
			Note: Graphic.		
32 18 23 29-0031			Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) (32 18 23 29-0002)		
32 18 23 29-0032			52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) (32 18 23 29-0031)		
32 18 23 29-0033	SF		52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52).....	11.74	
			For Ambient Rubber And Sand Infill, Add	0.10	
			For Cryo Rubber Infill, Add	0.20	
			For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
			For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0034	EA		Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	31,184.76	
32 18 23 29-0035	EA		Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	33,263.74	
32 18 23 29-0036	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	9,300.72	
			Note: Per sport.		
32 18 23 29-0037	EA		End Zone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	3,501.45	
			Note: Per letter. Excludes outline.		
32 18 23 29-0038	EA		Colored End Zone For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	2,954.35	
			Note: Per end zone.		
32 18 23 29-0039	EA		Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	26,260.85	
			Note: Block letter.		
32 18 23 29-0040	EA		Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	38,078.23	
			Note: Graphic.		
32 18 23 29-0041			60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) (32 18 23 29-0031)		
32 18 23 29-0042	SF		60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60).....	12.14	
			For Ambient Rubber And Sand Infill, Add	0.10	
			For Cryo Rubber Infill, Add	0.20	
			For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
			For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0043	EA		Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	31,731.86	
32 18 23 29-0044	EA		Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	36,984.03	
32 18 23 29-0045	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	9,847.82	
			Note: Per sport.		
32 18 23 29-0046	EA		End Zone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	3,720.29	
			Note: Per letter. Excludes outline.		
32 18 23 29-0047	EA		Colored End Zone For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	3,063.77	
			Note: Per end zone.		
32 18 23 29-0048	EA		Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	27,355.05	
			Note: Block letter.		
32 18 23 29-0049	EA		Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	39,664.82	
			Note: Graphic.		
32 18 23 29-0050			52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52) (32 18 23 29-0031)		
32 18 23 29-0051	SF		52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52).....	12.15	
			For Ambient Rubber And Sand Infill, Add	0.10	
			For Cryo Rubber Infill, Add	0.20	
			For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
			For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0052	EA		Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	32,278.96	
32 18 23 29-0053	EA		Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	37,202.87	
32 18 23 29-0054	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	10,394.92	
			Note: Per sport.		
32 18 23 29-0055	EA		End Zone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields.....	3,939.13	
			Note: Per letter. Excludes outline.		
32 18 23 29-0056	EA		Colored End Zone For AstroTurf® GameDay Grass™ 3D 52 Fields.....	3,173.19	
			Note: Per end zone.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0057	EA	Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields Note: Block letter.	28,449.25	
32 18 23 29-0058	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields Note: Graphic.	41,251.42	
32 18 23 29-0059		60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60) (32 18 23 29-0031)		
32 18 23 29-0060	SF	60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60).....	12.38	
		For Ambient Rubber And Sand Infill, Add	0.10	
		For Cryo Rubber Infill, Add	0.20	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
		For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0061	EA	Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	32,826.06	
32 18 23 29-0062	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	39,610.11	
32 18 23 29-0063	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Per sport.	10,942.02	
32 18 23 29-0064	EA	End Zone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Per letter. Excludes outline.	4,376.81	
32 18 23 29-0065	EA	Colored End Zone For AstroTurf® GameDay Grass™ 3D 60 Fields..... Note: Per end zone.	3,282.61	
32 18 23 29-0066	EA	Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Block letter.	29,543.45	
32 18 23 29-0067	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Graphic.	42,838.01	
32 18 23 29-0068		Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe) (32 18 23 29-0002)		
32 18 23 29-0069		38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38) (32 18 23 29-0068)		
32 18 23 29-0070	SF	38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38).....	9.90	
		For Ambient Rubber And Sand Infill, Add	0.10	
		For Cryo Rubber Infill, Add	0.26	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
		For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0071	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Per sport.	27,902.32	
32 18 23 29-0072	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Per letter. Excludes outline.	20,571.12	
32 18 23 29-0073	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Per letter. Excludes outline.	6,018.15	
32 18 23 29-0074	EA	End Zone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Per letter. Excludes outline.	2,188.42	
32 18 23 29-0075	EA	Colored End Zone For AstroTurf® GameDay Grass™ XPe 38 Fields..... Note: Per end zone.	2,297.84	
32 18 23 29-0076	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Block letter.	19,695.75	
32 18 23 29-0077	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Graphic.	28,558.84	
32 18 23 29-0078		42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42) (32 18 23 29-0068)		
32 18 23 29-0079	SF	42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42).....	8.72	
		For Ambient Rubber And Sand Infill, Add	0.10	
		For Cryo Rubber Infill, Add	0.26	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
		For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0080	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Per sport.	28,449.25	
32 18 23 29-0081	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Per letter. Excludes outline.	21,884.04	
32 18 23 29-0082	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Per letter. Excludes outline.	6,565.21	
32 18 23 29-0083	EA	End Zone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Per letter. Excludes outline.	2,407.24	
32 18 23 29-0084	EA	Colored End Zone For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Per end zone.	2,407.24	
32 18 23 29-0085	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Block letter.	20,789.84	
32 18 23 29-0086	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Graphic.	30,145.27	
32 18 23 29-0087		Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®) (32 18 23 29-0002)		
32 18 23 29-0088	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®).....	19.40	
32 18 23 29-0089	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®).....	17.39	
32 18 23 29-0090	EA	Football Markings For AstroTurf® PureGrass® Fields Note: Block letter.	53,991.73	
32 18 23 29-0091	EA	Baseball Markings For AstroTurf® PureGrass® Fields Note: Graphic.	64,144.02	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Athletic and Recreational Surfacing			32 18

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0092	EA		Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields.....	15,689.91	
			Note: Per sport.		
32 18 23 29-0093	EA		End Zone Lettering For AstroTurf® PureGrass® Fields.....	5,999.08	
			Note: Per letter. Excludes outline.		
32 18 23 29-0094	EA		Colored End Zone For AstroTurf® PureGrass® Fields.....	4,452.93	
			Note: Per end zone.		
32 18 23 29-0095	EA		Simple Logo For AstroTurf® PureGrass® Fields.....	40,076.34	
			Note: Block letter.		
32 18 23 29-0096	EA		Deluxe Logo For AstroTurf® PureGrass® Fields.....	58,837.14	
			Note: Graphic.		
32 18 23 29-0097 Synthetic Turf (G9 Turf) (32 18 23 29-0001)					
			Note: Includes labor, equipment and material required to install the task.		
32 18 23 29-0098	SF		2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf).....	10.77	
			Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos.		
			For >35,000, Deduct	-0.97	
32 18 23 29-0099	SF		2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf).....	10.67	
			Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos.		
			For >35,000, Deduct	-0.97	
32 18 23 29-0100	SF		1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf).....	11.14	
			Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.		
32 18 23 29-0101	EA		Football Inlays For G9 Synthetic Turf.....	74,661.11	
			Note: Includes field grid, numbers, arrows, coach's box and kick off lines.		
32 18 23 29-0102	EA		Soccer Inlays For G9 Synthetic Turf.....	32,353.15	
32 18 23 29-0103	EA		Boys Lacrosse Inlays For G9 Synthetic Turf.....	32,353.15	
32 18 23 29-0104	EA		Girls Lacrosse Inlays For G9 Synthetic Turf.....	32,353.15	
32 18 23 29-0105	EA		Field Hockey Inlays For G9 Synthetic Turf.....	32,353.15	
32 18 23 29-0106	EA		End Zone Lettering For G9 Synthetic Turf.....	3,733.06	
			Note: Priced per letter. Includes single color outlining.		
32 18 23 29-0107	SF		Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf.....	3.50	
32 18 23 29-0108	SF		Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf.....	9.13	
32 18 23 29-0109	SF		Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf.....	2.60	
32 18 23 29-0110	SF		Sand Infill For G9 Synthetic Turf.....	1.31	
32 18 23 29-0111	SF		Acrylic Coated Sand Infill For G9 Synthetic Turf.....	2.16	
32 18 23 29-0112	EA		Gmax Compaction And Hardness Test For G9 Synthetic Turf.....	2,488.70	
			Note: Includes a comprehensive report.		
32 18 23 29-0113	EA		Safety Bridge Over Track For G9 Synthetic Turf.....	24,887.04	
32 18 23 29-0114	SF		Clean And Groom Synthetic Turf.....	0.82	
			Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.		
			For >10,000 To 30,000, Deduct	-0.33	
			For >30,000 To 60,000, Deduct	-0.57	
			For >60,000, Deduct	-0.63	
32 18 23 29-0115	SF		Rejuvenate Synthetic Turf And Reinstall Existing Infill.....	5.58	
			Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high-pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.		
32 18 23 29-0116	SF		Rejuvenate Synthetic Turf For Installation Of New Infill.....	6.20	
			Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high-pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.		
32 18 23 29-0117	SF		Drainage Layer For G9 Synthetic Turf.....	5.08	
			Note: Used for drainage over asphalt or on rooftops.		
32 18 23 29-0118	SF		15 mm, Shock Pad For G9 Synthetic Turf.....	3.12	
			Note: Used for additional Gmax for a stone base field.		
32 18 23 29-0119	EA		Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf.....	4,959.80	
			Note: Includes field inspection and report.		
32 18 23 29-0120	LF		Repair Inlay Lines Or Seams On G9 Synthetic Turf.....	13.64	
			Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.		
32 18 23 29-0121	LF		Nailer Used To Attach G9 Synthetic Turf.....	5.46	
32 18 23 29-0122	SF		Removal And Recycling Of Existing Field.....	3.84	
			Note: Includes removal, shipping and recycling of infill, fibers and backing.		
32 18 23 33 Running Track Surfacing (32 18 23)					
32 18 23 33-0001 Running Track Surfacing (32 18 23 33)					
32 18 23 33-0002	SY		2-1/2" Asphaltic Concrete Running Track Surfacing.....	35.90	
32 18 23 33-0003 Running Track Seal And Colored Surfaces (32 18 23 33)					
32 18 23 33-0004	SY		1 Seal Coat, Striping Of Track.....	17.34	
			Note: Includes certification.		
32 18 23 39 Synthetic Running Track Surfacing (32 18 23)					
32 18 23 39-0001 Synthetic Running Track Surfacing And Striping (32 18 23 39)					
			Note: Includes labor, equipment and material required to install the task. Excludes asphalt base.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 39-0002	SY	Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing	88.94	7.99
		For >5,500, Deduct	-6.87	
		For Up To 4,000, Add	21.85	
32 18 23 39-0003	SY	Paved-In-Place Styrene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing.....	111.44	7.99
		For >5,500, Deduct	-9.21	
		For Up To 4,000, Add	29.32	
		For Custom Color Upgrade, Add	7.96	
		For Aliphatic Top Coating, Add	15.08	
32 18 23 39-0004	SY	Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing	182.27	7.99
		For >5,500, Deduct	-8.45	
		For Up To 4,000, Add	49.27	
		For Custom Color Upgrade, Add	10.84	
		For Aliphatic Top Coating, Add	20.13	
32 18 23 39-0005	SY	Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing	236.93	7.99
		For >5,500, Deduct	-10.91	
		For Up To 4,000, Add	63.65	
		For Custom Color Upgrade, Add	14.18	
		For Aliphatic Top Coating, Add	20.73	
32 18 23 39-0006	SY	Latex Binder, Synthetic Running Track Surfacing.....	80.00	
		For >5,500, Deduct	-11.60	
		For Up To 4,000, Add	28.00	
32 18 23 39-0007	SY	Spray Retop Running Tracks.....	70.27	
		For Up To 4,000, Add	24.59	
		For >5,500, Deduct	-6.87	
32 18 23 39-0008	SY	Sandwich Retop Running Tracks.....	136.01	
		For Up To 4,000, Add	47.60	
		For >5,500, Deduct	-14.34	

32 18 23 53 Tennis Court Surfacing (32 18 23)

32 18 23 53-0001		Tennis Court Surfacing (32 18 23 53) See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.		
32 18 23 53-0002	SY	Tennis Court Bituminous Pavement, 2-1/2" Thick.....	35.27	
32 18 23 53-0003		Tennis Court Markings (32 18 23 53)		
32 18 23 53-0004	EA	Paint Markings On Asphalt Tennis Court 2 Coats.....	526.76	

32 18 23 56 Natural Tennis Court Surfacing (32 18 23)

32 18 23 56-0001	SY	Clay Tennis Court	48.72	
32 18 23 56-0002	SY	Tennis Court, Pulverized Natural Greenstone, Fast Dry	54.07	
		Note: Includes 4" base.		
32 18 23 56-0003	SY	Tennis Court, Rubber-Cork Base Resilient Pavement	21.94	
32 18 23 56-0004	SY	Resurface Clay Tennis Court.....	14.70	
32 18 23 56-0005	SY	Resurface Tennis Court, Pulverized Natural Greenstone	12.60	
32 18 23 56-0006	SY	Resurface Tennis Court, Resilient Pavement	9.36	

32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing (32 18 23)

32 18 23 61-0001		100% Acrylic Athletic Surfacing System (Plexipave®) (32 18 23 61) Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0002		Surface Preparation For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0003	SY	100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat	1.75	
		Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
32 18 23 61-0004	SY	Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat	0.87	
		Note: For previously uncoated portland cement concrete. Applied with broom.		
32 18 23 61-0005	SY	Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat	2.24	
		Note: For new or uncoated portland cement concrete. Applied with a short nap phenolic roller.		
32 18 23 61-0006	SY	Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat	97.78	
		Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.		
32 18 23 61-0007		Surface Coatings For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001) Note: Standard color includes dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.		
32 18 23 61-0008	SY	100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat	3.47	
		Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
		For Pacific Blue, Add	1.21	
		For US Open Blue, Add	1.87	



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 61-0009	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee. <i>For Pacific Blue, Add</i> <i>For US Open Blue, Add</i>	2.86 0.87 1.34	
32 18 23 61-0010	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat..... Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee. <i>For Pacific Blue, Add</i> <i>For US Open Blue, Add</i>	2.51 0.67 1.04	
32 18 23 61-0011	SY		Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat..... Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom. <i>For Pacific Blue, Add</i> <i>For US Open Or Australian Open Blue, Add</i> <i>For Pro Purple, Add</i>	2.50 0.81 1.32 2.28	
32 18 23 61-0012			Line Striping For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0013	SY		Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®)..... Note: Textured or non-textured highly reflective line marking paint.	1.75	
32 18 23 61-0014			Cushion Coatings For Athletic Surfacing System (Plexipave® Plexicushion®) (32 18 23 61-0001)		
32 18 23 61-0015	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), First Coat..... Note: Applied with rubber squeegee.	5.22	
32 18 23 61-0016	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat..... Note: Applied with rubber squeegee.	7.04	
32 18 23 61-0017	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat..... Note: Price per coat for third or additional coats. Applied with rubber squeegee.	6.09	
32 18 23 61-0018	SY		Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), First Coat..... Note: Applied with rubber squeegee.	4.62	
32 18 23 61-0019	SY		Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), Second Coat..... Note: Price per coat for second or additional coats. Applied with rubber squeegee.	3.57	
32 18 23 61-0020			Resurface Athletic Court (32 18 23 61)		
32 18 23 61-0021	SY		Court Resurfacing System, 2 Coats Resurfer, 2 Coats Color, And Sand (SealMaster).....	3.00	

32 30 Site Improvements (32)

32 31 Fences and Gates (32 30)

32 31 11 Gate Operators (32 31)

32 31 11 00-0001			Gate Operators (32 31 11) Note: Excludes gates, electrical connections, access controls and concrete foundation.		
32 31 11 00-0002			Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0003			Swing Gate Actuator (DKS™ DoorKing®) (32 31 11 00-0002)		
32 31 11 00-0004			Single Gate, Swing Gate Actuator (32 31 11 00-0003)		
32 31 11 00-0005	EA		Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)..... Note: Includes one primary operator with a 10' wide gate capacity.	2,405.49	261.56
32 31 11 00-0006	EA		Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)..... Note: Includes one primary operator with a 14' wide gate capacity.	3,221.19	261.56
32 31 11 00-0007			Dual Gate, Swing Gate Actuator (32 31 11 00-0003)		
32 31 11 00-0008	EA		Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)..... Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.	4,810.99	523.12
32 31 11 00-0009	EA		Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)..... Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.	6,442.38	523.12
32 31 11 00-0010			Swing Gate Operators (DKS™ DoorKing®) (32 31 11 00-0002)		
32 31 11 00-0011			Single Gate, Swing Gate Operators (32 31 11 00-0010)		
32 31 11 00-0012	EA		400 Lb. Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050)..... Note: Includes one primary operator with a 10' wide and 400 Lb. gate capacity.	4,957.15	261.56

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0013	EA	500 Lb. Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100).....	5,396.37	261.56
		Note: Includes one primary operator with a 14' wide and 500 Lb. gate capacity.		
32 31 11 00-0014	EA	700 Lb. Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	7,341.49	261.56
		Note: Includes one primary operator with an 18' wide and 700 Lb. gate capacity.		
		For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0015	EA	800 Lb. Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	8,324.51	261.56
		Note: Includes one primary operator with a 22' wide and 800 Lb. gate capacity.		
		For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0016		Dual Gate, Swing Gate Operators (32 31 11 00-0010)		
32 31 11 00-0017	EA	400 Lb. Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050).....	8,763.98	523.12
		Note: Includes one primary and one secondary operator each with a 10' wide and 400 Lb. gate capacity.		
32 31 11 00-0018	EA	500 Lb. Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100).....	9,642.42	523.12
		Note: Includes one primary and one secondary operator each with a 14' wide and 500 Lb. gate capacity.		
32 31 11 00-0019	EA	700 Lb. Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	13,511.74	523.12
		Note: Includes one primary and one secondary operator each with an 18' wide and 700 Lb. gate capacity.		
		For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0020	EA	800 Lb. Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	15,666.01	523.12
		Note: Includes one primary and one secondary operator each with a 22' wide and 800 Lb. gate capacity.		
		For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0021		Sliding Gate Operators (DKS™ DoorKing®) (32 31 11 00-0002)		
		Note: Includes 20' of chain. See CSI section 32 31 11 00-0030 for additional chain over 20'.		
32 31 11 00-0022	EA	300 Lb. Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050).....	2,255.25	261.56
		Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0023	EA	1,000 Lb. Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100).....	3,147.21	313.87
		Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0024	EA	1,500 Lb. Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150).....	3,882.05	313.87
		Note: Includes operator, chain brackets, hardware and 20' of #40 chain.		
32 31 11 00-0025	EA	3,000 Lb. Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210).....	5,062.69	366.18
		Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0026	EA	2,000 Lb. Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220).....	6,196.45	366.18
		Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0027	EA	5,000 Lb. Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230).....	8,442.62	418.50
		Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0028	EA	5,000 Lb. Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530).....	14,064.16	418.50
		Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0029	EA	10,000 Lb. Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550).....	23,805.72	470.81
		Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0030		Accessories For Gate Actuators And Operators (DKS™ DoorKing®) (32 31 11 00-0002)		
32 31 11 00-0031	EA	Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410).....	783.44	
32 31 11 00-0032	EA	Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409).....	1,522.97	
32 31 11 00-0033	EA	Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601).....	1,045.86	
32 31 11 00-0034	EA	Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031).....	1,129.56	
32 31 11 00-0035	EA	Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020).....	1,004.07	
32 31 11 00-0036	EA	Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310).....	700.80	
32 31 11 00-0037	LF	#40 Chain For Sliding Gate Operators.....	7.06	
32 31 11 00-0038	LF	#41 Chain For Sliding Gate Operators.....	7.37	
32 31 11 00-0039	LF	#50 Chain For Sliding Gate Operators.....	9.41	
32 31 11 00-0040	LF	#60 Chain For Sliding Gate Operators.....	14.45	
32 31 11 00-0041	EA	Exterior Keypad Gate Operator (Linear AK-11).....	791.74	172.15
32 31 11 00-0042		Sliding Gate Operator (LiftMaster) (32 31 11 00-0001)		
32 31 11 00-0043	EA	Up To 1,500 Lb. Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U).....	3,278.68	319.95
		Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoods (LMRRUL) and 5' Resistive Safety Edge (S505AL).		
		For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add	218.33	
		For Plug-In Loop Detector Option (Liftmaster LOOPDETLTM), Add	156.28	
		For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add	76.96	
		For 10 Watt Solar Panel (Liftmaster SP10W12V), Add	309.35	
		For Each Additional 10' Chain, Add	46.34	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 31 13 Chain Link Fences and Gates (32 31)

32 31 13 13 Chain Link Fences and Gates (32 31 13)

32 31 13 13-0001 Post Holes (32 31 13 13)

Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0083 for core drilling in concrete, 02 41 19 13-0221 for core drilling in asphalt.

32 31 13 13-0002 Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)

32 31 13 13-0003	VLF	Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	11.05
32 31 13 13-0004	VLF	2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	12.43
32 31 13 13-0005	VLF	3" Diameter Hole, Auger By Machine Fence Post Hole In Soil	14.73
32 31 13 13-0006	VLF	4" Diameter Hole, Auger By Machine Fence Post Hole In Soil	16.57
32 31 13 13-0007	VLF	6" Diameter Hole, Auger By Machine Fence Post Hole In Soil	18.08
32 31 13 13-0008	VLF	8" Diameter Hole, Auger By Machine Fence Post Hole In Soil	19.89
32 31 13 13-0009	VLF	10" Diameter Hole, Auger By Machine Fence Post Hole In Soil	22.10
32 31 13 13-0010	VLF	12" Diameter Hole, Auger By Machine Fence Post Hole In Soil	24.86
32 31 13 13-0011	VLF	18" Diameter Hole, Auger By Machine Fence Post Hole In Soil	28.41
32 31 13 13-0012	VLF	24" Diameter Hole, Auger By Machine Fence Post Hole In Soil	33.14
32 31 13 13-0013	VLF	30" Diameter Hole, Auger By Machine Fence Post Hole In Soil	39.77
32 31 13 13-0014	VLF	36" Diameter Hole, Auger By Machine Fence Post Hole In Soil	49.71

32 31 13 13-0015 Post Hole In Rock (32 31 13 13-0001)

32 31 13 13-0016	CF	Jackhammer Post Hole In Rock	86.04
32 31 13 13-0017	CF	Rock Drill Post Hole In Rock	22.44

32 31 13 13-0018 Fill For Post Holes (32 31 13 13-0001)

32 31 13 13-0019 Concrete Fill For Post Holes (32 31 13 13-0018)

32 31 13 13-0020	VLF	Up To 2-1/2" Diameter, Concrete Fill For Post Hole	6.33
32 31 13 13-0021	VLF	2-1/2" Diameter, Concrete Fill For Post Hole	8.15
32 31 13 13-0022	VLF	3" Diameter, Concrete Fill For Post Hole	8.90
32 31 13 13-0023	VLF	4" Diameter, Concrete Fill For Post Hole	10.06
32 31 13 13-0024	VLF	6" Diameter, Concrete Fill For Post Hole	14.08
32 31 13 13-0025	VLF	8" Diameter, Concrete Fill For Post Hole	18.80
32 31 13 13-0026	VLF	10" Diameter, Concrete Fill For Post Hole	22.93
32 31 13 13-0027	VLF	12" Diameter, Concrete Fill For Post Hole	26.63
32 31 13 13-0028	VLF	18" Diameter, Concrete Fill For Post Hole	35.78
32 31 13 13-0029	VLF	24" Diameter, Concrete Fill For Post Hole	43.90
32 31 13 13-0030	VLF	30" Diameter, Concrete Fill For Post Hole	51.77
32 31 13 13-0031	VLF	36" Diameter, Concrete Fill For Post Hole	59.86

32 31 13 13-0032 Grout Fill For Post Holes (32 31 13 13-0018)

32 31 13 13-0033	VLF	Up To 2-1/2" Diameter, Grout Fill For Post Hole	7.66
32 31 13 13-0034	VLF	2-1/2" Diameter, Grout Fill For Post Hole	9.87
32 31 13 13-0035	VLF	3" Diameter, Grout Fill For Post Hole	10.67
32 31 13 13-0036	VLF	4" Diameter, Grout Fill For Post Hole	11.82
32 31 13 13-0037	VLF	6" Diameter, Grout Fill For Post Hole	16.41
32 31 13 13-0038	VLF	8" Diameter, Grout Fill For Post Hole	21.89
32 31 13 13-0039	VLF	10" Diameter, Grout Fill For Post Hole	26.61
32 31 13 13-0040	VLF	12" Diameter, Grout Fill For Post Hole	30.77
32 31 13 13-0041	VLF	18" Diameter, Grout Fill For Post Hole	40.61
32 31 13 13-0042	VLF	24" Diameter, Grout Fill For Post Hole	49.05
32 31 13 13-0043	VLF	30" Diameter, Grout Fill For Post Hole	57.18
32 31 13 13-0044	VLF	36" Diameter, Grout Fill For Post Hole	65.41

32 31 13 13-0045 Compacted Earth Fill For Post Holes (32 31 13 13-0018)

32 31 13 13-0046	VLF	Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole	5.82
32 31 13 13-0047	VLF	2-1/2" Diameter, Compacted Earth Fill For Post Hole	7.58
32 31 13 13-0048	VLF	3" Diameter, Compacted Earth Fill For Post Hole	7.92
32 31 13 13-0049	VLF	4" Diameter, Compacted Earth Fill For Post Hole	8.15
32 31 13 13-0050	VLF	6" Diameter, Compacted Earth Fill For Post Hole	10.90
32 31 13 13-0051	VLF	8" Diameter, Compacted Earth Fill For Post Hole	14.53
32 31 13 13-0052	VLF	10" Diameter, Compacted Earth Fill For Post Hole	17.43
32 31 13 13-0053	VLF	12" Diameter, Compacted Earth Fill For Post Hole	19.76
32 31 13 13-0054	VLF	18" Diameter, Compacted Earth Fill For Post Hole	24.09
32 31 13 13-0055	VLF	24" Diameter, Compacted Earth Fill For Post Hole	27.03
32 31 13 13-0056	VLF	30" Diameter, Compacted Earth Fill For Post Hole	29.64
32 31 13 13-0057	VLF	36" Diameter, Compacted Earth Fill For Post Hole	31.97

32 31 13 13-0058 Fence Posts (32 31 13 13)

Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.

32 31 13 13-0059 Fence Posts (32 31 13 13-0058)

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0060		1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel (32 31 13 13-0059)			
		Note: Includes cap and accessories.			
32 31 13 13-0061	LF	1-7/8" Galvanized H-beam Post, Up To 6' In Length	23.48		3.30
		For Each Top Rail Fitting, Add	0.85		
32 31 13 13-0062	LF	1-7/8" Galvanized H-beam Post, 7' To 10' In Length	22.54		2.81
		For Each Top Rail Fitting, Add	0.85		
32 31 13 13-0063	LF	1-7/8" Galvanized H-beam Post, 11' To 15' In Length	21.40		2.32
		For Each Top Rail Fitting, Add	0.85		
32 31 13 13-0064	LF	1-7/8" Galvanized H-beam Post, 16' To 20' In Length	20.48		1.83
		For Each Top Rail Fitting, Add	0.85		
32 31 13 13-0065	LF	1-7/8" Galvanized H-beam Post, 21' To 24' In Length	19.87		1.59
		For Each Top Rail Fitting, Add	0.85		
32 31 13 13-0066	LF	1-7/8" Galvanized H-beam Post, >24' In Length	18.91		1.10
		For Each Top Rail Fitting, Add	0.85		
32 31 13 13-0067		Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) (32 31 13 13-0059)			
		Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.			
32 31 13 13-0068	LF	Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	15.80		3.05
		For Each Top Rail Fitting, Add	0.85		
		For Each Single Barbed Wire Arm, Add	1.90		
		For Each Double Barbed Wire Arm, Add	3.40		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.43		
		For Vinyl Coated, Add	5.82		
		For Powder Coated, Add	7.76		
		For Aluminum Coated, Add	12.13		
		For Schedule 20, Deduct	-1.94		
		For Schedule 80, Add	5.27		
32 31 13 13-0069	LF	7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	14.75		2.56
		For Each Top Rail Fitting, Add	0.85		
		For Each Single Barbed Wire Arm, Add	1.90		
		For Each Double Barbed Wire Arm, Add	3.40		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.40		
		For Vinyl Coated, Add	5.75		
		For Powder Coated, Add	7.67		
		For Aluminum Coated, Add	11.99		
		For Schedule 20, Deduct	-1.92		
		For Schedule 80, Add	5.12		
32 31 13 13-0070	LF	11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	13.64		2.07
		For Each Top Rail Fitting, Add	0.85		
		For Each Single Barbed Wire Arm, Add	1.90		
		For Each Double Barbed Wire Arm, Add	3.40		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.38		
		For Vinyl Coated, Add	5.72		
		For Powder Coated, Add	7.62		
		For Aluminum Coated, Add	11.91		
		For Schedule 20, Deduct	-1.91		
		For Schedule 80, Add	4.99		
32 31 13 13-0071	LF	16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	12.80		1.59
		For Each Top Rail Fitting, Add	0.85		
		For Each Single Barbed Wire Arm, Add	1.90		
		For Each Double Barbed Wire Arm, Add	3.40		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.38		
		For Vinyl Coated, Add	5.70		
		For Powder Coated, Add	7.60		
		For Aluminum Coated, Add	11.88		
		For Schedule 20, Deduct	-1.90		
		For Schedule 80, Add	4.89		
32 31 13 13-0072	LF	21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	12.24		1.35
		For Each Top Rail Fitting, Add	0.85		
		For Each Single Barbed Wire Arm, Add	1.90		
		For Each Double Barbed Wire Arm, Add	3.40		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.37		
		For Vinyl Coated, Add	5.69		
		For Powder Coated, Add	7.59		
		For Aluminum Coated, Add	11.86		
		For Schedule 20, Deduct	-1.90		
		For Schedule 80, Add	4.83		
32 31 13 13-0073	LF	>24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	11.64		1.10
		For Each Top Rail Fitting, Add	0.85		
		For Each Single Barbed Wire Arm, Add	1.90		
		For Each Double Barbed Wire Arm, Add	3.40		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.37		
		For Vinyl Coated, Add	5.69		
		For Powder Coated, Add	7.58		
		For Aluminum Coated, Add	11.85		
		For Schedule 20, Deduct	-1.90		
		For Schedule 80, Add	4.77		
32 31 13 13-0074		Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) (32 31 13 13-0059)			
		Note: 2" outside diameter, Schedule 40. Includes cap and accessories.			



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 31 13 13-0075	LF	2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	18.18	3.18
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.97	
		For Vinyl Coated, Add	7.12	
		For Powder Coated, Add	9.50	
		For Aluminum Coated, Add	14.84	
		For Schedule 20, Deduct	-2.37	
		For Schedule 80, Add	6.33	
32 31 13 13-0076	LF	2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	17.19	2.69
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.93	
		For Vinyl Coated, Add	7.03	
		For Powder Coated, Add	9.38	
		For Aluminum Coated, Add	14.65	
		For Schedule 20, Deduct	-2.34	
		For Schedule 80, Add	6.17	
32 31 13 13-0077	LF	2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	16.01	2.19
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.91	
		For Vinyl Coated, Add	6.99	
		For Powder Coated, Add	9.32	
		For Aluminum Coated, Add	14.56	
		For Schedule 20, Deduct	-2.33	
		For Schedule 80, Add	6.03	
32 31 13 13-0078	LF	2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	15.10	1.71
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.90	
		For Vinyl Coated, Add	6.97	
		For Powder Coated, Add	9.29	
		For Aluminum Coated, Add	14.51	
		For Schedule 20, Deduct	-2.32	
		For Schedule 80, Add	5.92	
32 31 13 13-0079	LF	2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	14.49	1.47
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.90	
		For Vinyl Coated, Add	6.95	
		For Powder Coated, Add	9.27	
		For Aluminum Coated, Add	14.49	
		For Schedule 20, Deduct	-2.32	
		For Schedule 80, Add	5.85	
32 31 13 13-0080	LF	2" Outside Diameter Galvanized Steel Post, >24' In Length	13.96	1.22
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.90	
		For Vinyl Coated, Add	6.95	
		For Powder Coated, Add	9.27	
		For Aluminum Coated, Add	14.49	
		For Schedule 20, Deduct	-2.32	
		For Schedule 80, Add	5.80	
32 31 13 13-0081		Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) (32 31 13 13-0059)		
		Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0082	LF	2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	22.36	3.42
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	3.93	
		For Vinyl Coated, Add	9.42	
		For Powder Coated, Add	12.56	
		For Aluminum Coated, Add	19.63	
		For Schedule 20, Deduct	-3.14	
		For Schedule 80, Add	8.20	
32 31 13 13-0083	LF	2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	21.25	2.93
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	3.88	
		For Vinyl Coated, Add	9.32	
		For Powder Coated, Add	12.42	
		For Aluminum Coated, Add	19.41	
		For Schedule 20, Deduct	-3.11	
		For Schedule 80, Add	8.03	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0084	LF	2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	.....	20.03	2.32
		For Each Top Rail Fitting, Add	.....	1.35	
		For Each Single Barbed Wire Arm, Add	.....	2.65	
		For Each Double Barbed Wire Arm, Add	.....	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	.....	3.86	
		For Vinyl Coated, Add	.....	9.27	
		For Powder Coated, Add	.....	12.36	
		For Aluminum Coated, Add	.....	19.31	
		For Schedule 20, Deduct	.....	-3.09	
		For Schedule 80, Add	.....	7.87	
32 31 13 13-0085	LF	2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	.....	19.06	1.83
		For Each Top Rail Fitting, Add	.....	1.35	
		For Each Single Barbed Wire Arm, Add	.....	2.65	
		For Each Double Barbed Wire Arm, Add	.....	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	.....	3.85	
		For Vinyl Coated, Add	.....	9.24	
		For Powder Coated, Add	.....	12.32	
		For Aluminum Coated, Add	.....	19.25	
		For Schedule 20, Deduct	.....	-3.08	
		For Schedule 80, Add	.....	7.76	
32 31 13 13-0086	LF	2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length	.....	18.43	1.59
		For Each Top Rail Fitting, Add	.....	1.35	
		For Each Single Barbed Wire Arm, Add	.....	2.65	
		For Each Double Barbed Wire Arm, Add	.....	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	.....	3.85	
		For Vinyl Coated, Add	.....	9.23	
		For Powder Coated, Add	.....	12.30	
		For Aluminum Coated, Add	.....	19.23	
		For Schedule 20, Deduct	.....	-3.08	
		For Schedule 80, Add	.....	7.69	
32 31 13 13-0087	LF	2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length	.....	17.86	1.22
		For Each Top Rail Fitting, Add	.....	1.35	
		For Each Single Barbed Wire Arm, Add	.....	2.65	
		For Each Double Barbed Wire Arm, Add	.....	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	.....	3.85	
		For Vinyl Coated, Add	.....	9.23	
		For Powder Coated, Add	.....	12.30	
		For Aluminum Coated, Add	.....	19.23	
		For Schedule 20, Deduct	.....	-3.08	
		For Schedule 80, Add	.....	7.63	
32 31 13 13-0088		Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal)	(32 31 13 13-0059)		
		Note: 3" outside diameter, Schedule 40. Includes cap and accessories.			
32 31 13 13-0089	LF	3" Outside Diameter Galvanized Steel Post, Up To 6' In Length	.....	31.03	3.66
		For Each Top Rail Fitting, Add	.....	1.85	
		For Each Single Barbed Wire Arm, Add	.....	3.85	
		For Each Double Barbed Wire Arm, Add	.....	7.05	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	.....	5.93	
		For Vinyl Coated, Add	.....	14.23	
		For Powder Coated, Add	.....	18.97	
		For Aluminum Coated, Add	.....	29.64	
		For Schedule 20, Deduct	.....	-4.74	
		For Schedule 80, Add	.....	12.11	
32 31 13 13-0090	LF	3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	.....	29.67	3.18
		For Each Top Rail Fitting, Add	.....	1.85	
		For Each Single Barbed Wire Arm, Add	.....	3.85	
		For Each Double Barbed Wire Arm, Add	.....	7.05	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	.....	5.84	
		For Vinyl Coated, Add	.....	14.02	
		For Powder Coated, Add	.....	18.69	
		For Aluminum Coated, Add	.....	29.20	
		For Schedule 20, Deduct	.....	-4.67	
		For Schedule 80, Add	.....	11.84	
32 31 13 13-0091	LF	3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	.....	28.28	2.56
		For Each Top Rail Fitting, Add	.....	1.85	
		For Each Single Barbed Wire Arm, Add	.....	3.85	
		For Each Double Barbed Wire Arm, Add	.....	7.05	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	.....	5.80	
		For Vinyl Coated, Add	.....	13.91	
		For Powder Coated, Add	.....	18.55	
		For Aluminum Coated, Add	.....	28.99	
		For Schedule 20, Deduct	.....	-4.64	
		For Schedule 80, Add	.....	11.64	
32 31 13 13-0092	LF	3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	.....	27.17	2.07
		For Each Top Rail Fitting, Add	.....	1.85	
		For Each Single Barbed Wire Arm, Add	.....	3.85	
		For Each Double Barbed Wire Arm, Add	.....	7.05	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	.....	5.78	
		For Vinyl Coated, Add	.....	13.86	
		For Powder Coated, Add	.....	18.48	
		For Aluminum Coated, Add	.....	28.88	
		For Schedule 20, Deduct	.....	-4.62	
		For Schedule 80, Add	.....	11.50	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0093	LF		3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	26.45	1.71
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	5.77	
			For Vinyl Coated, Add	13.84	
			For Powder Coated, Add	18.45	
			For Aluminum Coated, Add	28.83	
			For Schedule 20, Deduct	-4.61	
			For Schedule 80, Add	11.41	
32 31 13 13-0094	LF		3" Outside Diameter Galvanized Steel Post, >24' In Length.....	25.80	1.35
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	5.76	
			For Vinyl Coated, Add	13.83	
			For Powder Coated, Add	18.44	
			For Aluminum Coated, Add	28.81	
			For Schedule 20, Deduct	-4.61	
			For Schedule 80, Add	11.34	
32 31 13 13-0095			Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal) (32 31 13 13-0095)		
			Note: 4" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0096	LF		4" Outside Diameter Galvanized Steel Post, Up To 6' In Length	46.40	3.90
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.67	
			For Vinyl Coated, Add	23.21	
			For Powder Coated, Add	30.95	
			For Aluminum Coated, Add	48.36	
			For Schedule 20, Deduct	-7.74	
			For Schedule 80, Add	19.34	
32 31 13 13-0097	LF		4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	44.48	3.18
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.52	
			For Vinyl Coated, Add	22.84	
			For Powder Coated, Add	30.45	
			For Aluminum Coated, Add	47.58	
			For Schedule 20, Deduct	-7.61	
			For Schedule 80, Add	18.91	
32 31 13 13-0098	LF		4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	43.11	2.69
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.44	
			For Vinyl Coated, Add	22.65	
			For Powder Coated, Add	30.20	
			For Aluminum Coated, Add	47.19	
			For Schedule 20, Deduct	-7.55	
			For Schedule 80, Add	18.66	
32 31 13 13-0099	LF		4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	41.88	2.19
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.40	
			For Vinyl Coated, Add	22.55	
			For Powder Coated, Add	30.07	
			For Aluminum Coated, Add	46.99	
			For Schedule 20, Deduct	-7.52	
			For Schedule 80, Add	18.47	
32 31 13 13-0100	LF		4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	41.80	2.19
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.38	
			For Vinyl Coated, Add	22.51	
			For Powder Coated, Add	30.01	
			For Aluminum Coated, Add	46.89	
			For Schedule 20, Deduct	-7.50	
			For Schedule 80, Add	18.43	
32 31 13 13-0101	LF		4" Outside Diameter Galvanized Steel Post, >24' In Length.....	40.54	1.59
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.37	
			For Vinyl Coated, Add	22.49	
			For Powder Coated, Add	29.99	
			For Aluminum Coated, Add	46.86	
			For Schedule 20, Deduct	-7.50	
			For Schedule 80, Add	18.30	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
32 31 13 13-0102		Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) (32 31 13 13-0059)			
		Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.			
32 31 13 13-0103	LF	6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	93.24		4.27
		For Each Top Rail Fitting, Add	4.55		
		For Each Single Barbed Wire Arm, Add	7.15		
		For Each Double Barbed Wire Arm, Add	14.95		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	21.17		
		For Vinyl Coated, Add	50.80		
		For Powder Coated, Add	67.74		
		For Aluminum Coated, Add	105.84		
		For Schedule 20, Deduct	-16.93		
		For Schedule 80, Add	41.50		
32 31 13 13-0104	LF	6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	89.46		3.54
		For Each Top Rail Fitting, Add	4.55		
		For Each Single Barbed Wire Arm, Add	7.15		
		For Each Double Barbed Wire Arm, Add	14.95		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	20.57		
		For Vinyl Coated, Add	49.37		
		For Powder Coated, Add	65.82		
		For Aluminum Coated, Add	102.85		
		For Schedule 20, Deduct	-16.46		
		For Schedule 80, Add	40.21		
32 31 13 13-0105	LF	6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	87.04		2.93
		For Each Top Rail Fitting, Add	4.55		
		For Each Single Barbed Wire Arm, Add	7.15		
		For Each Double Barbed Wire Arm, Add	14.95		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	20.27		
		For Vinyl Coated, Add	48.65		
		For Powder Coated, Add	64.87		
		For Aluminum Coated, Add	101.36		
		For Schedule 20, Deduct	-16.22		
		For Schedule 80, Add	39.52		
32 31 13 13-0106	LF	6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	85.25		2.32
		For Each Top Rail Fitting, Add	4.55		
		For Each Single Barbed Wire Arm, Add	7.15		
		For Each Double Barbed Wire Arm, Add	14.95		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	20.12		
		For Vinyl Coated, Add	48.29		
		For Powder Coated, Add	64.39		
		For Aluminum Coated, Add	100.61		
		For Schedule 20, Deduct	-16.10		
		For Schedule 80, Add	39.11		
32 31 13 13-0107	LF	6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	84.27		2.07
		For Each Top Rail Fitting, Add	4.55		
		For Each Single Barbed Wire Arm, Add	7.15		
		For Each Double Barbed Wire Arm, Add	14.95		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	20.05		
		For Vinyl Coated, Add	48.12		
		For Powder Coated, Add	64.16		
		For Aluminum Coated, Add	100.25		
		For Schedule 20, Deduct	-16.04		
		For Schedule 80, Add	38.90		
32 31 13 13-0108	LF	6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length	83.53		1.71
		For Each Top Rail Fitting, Add	4.55		
		For Each Single Barbed Wire Arm, Add	7.15		
		For Each Double Barbed Wire Arm, Add	14.95		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	20.04		
		For Vinyl Coated, Add	48.08		
		For Powder Coated, Add	64.11		
		For Aluminum Coated, Add	100.18		
		For Schedule 20, Deduct	-16.03		
		For Schedule 80, Add	38.81		
32 31 13 13-0109		Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal) (32 31 13 13-0059)			
		Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.			
32 31 13 13-0110	LF	8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	182.64		4.76
		For Each Top Rail Fitting, Add	7.50		
		For Each Single Barbed Wire Arm, Add	9.15		
		For Each Double Barbed Wire Arm, Add	18.95		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	43.28		
		For Vinyl Coated, Add	103.88		
		For Powder Coated, Add	138.50		
		For Aluminum Coated, Add	216.41		
		For Schedule 20, Deduct	-34.63		
		For Schedule 80, Add	84.05		
32 31 13 13-0111	LF	8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	176.34		4.03
		For Each Top Rail Fitting, Add	7.50		
		For Each Single Barbed Wire Arm, Add	9.15		
		For Each Double Barbed Wire Arm, Add	18.95		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	42.10		
		For Vinyl Coated, Add	101.03		
		For Powder Coated, Add	134.70		
		For Aluminum Coated, Add	210.48		
		For Schedule 20, Deduct	-33.68		
		For Schedule 80, Add	81.62		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0112	LF	8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	172.61 7.50 9.15 18.95 41.50 99.61 132.81 207.51 -33.20 80.34	3.30
32 31 13	13-0113	LF	8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	170.06 7.50 9.15 18.95 41.21 98.90 131.86 206.04 -32.97 79.64	2.56
32 31 13	13-0114	LF	8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	168.76 7.50 9.15 18.95 41.06 98.54 131.38 205.29 -32.85 79.28	2.19
32 31 13	13-0115	LF	8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	167.88 7.50 9.15 18.95 41.03 98.47 131.29 205.14 -32.82 79.15	1.83
32 31 13	13-0116		Driven Post Supports (32 31 13 13) Note: OZ-Post.		
32 31 13	13-0117		Driven Post Support For Round Chain Link Fence Posts (32 31 13 13-0116)		
32 31 13	13-0118	EA	26" Driven Post Support For 1-5/8" Round Chain Link Fence Post..... Note: OZ-Post GB-700.	89.54	
32 31 13	13-0119	EA	26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post..... Note: OZ-Post HB-700.	89.54	
32 31 13	13-0120	EA	26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post..... Note: OZ-Post IS-600.	92.34	
32 31 13	13-0121	EA	32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post..... Note: OZ-Post ISW-850.	110.22	
32 31 13	13-0122		Driven Post Support For Square Ornamental Fence Posts (32 31 13 13-0116)		
32 31 13	13-0123	EA	34" Driven Post Support For 1-3/4" Square Ornamental Fence Post..... Note: OZ-Post C175-850.	101.80	
32 31 13	13-0124	EA	24" Driven Post Support For 2" Square Ornamental Fence Post..... Note: OZ-Post I2-600.	97.60	
32 31 13	13-0125	EA	34" Driven Post Support For 2" Square Ornamental Fence Post..... Note: OZ-Post I2-850.	102.65	
32 31 13	13-0126	EA	34" Driven Post Support For 2-1/2" Square Ornamental Fence Post..... Note: OZ-Post I25-850.	110.22	
32 31 13	13-0127	EA	34" Driven Post Support For 3" Square Ornamental Fence Post..... Note: OZ-Post I3-850.	110.22	
32 31 13	13-0128		Driven Post Support For Wooden Fence Posts (32 31 13 13-0116)		
32 31 13	13-0129	EA	24" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-600.	104.48	
32 31 13	13-0130	EA	34" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-850.	106.01	
32 31 13	13-0131	EA	34" Driven Post Support For 3-3/4" Square Wooden Fence Post..... Note: OZ-Post C4-850.	115.82	
32 31 13	13-0132	EA	34" Driven Post Support For 4" Square Wooden Fence Post..... Note: OZ-Post P4-850.	115.83	
32 31 13	13-0133	EA	36" Driven Post Support For 4" x 6" Wooden Fence Post..... Note: OZ-Post T46-850.	134.06	
32 31 13	13-0134	EA	36" Driven Post Support For 6" Square Wooden Fence Post..... Note: OZ-Post T6-850.	146.96	
32 31 13	13-0135		Driven Post Support For Vinyl Fence Posts (32 31 13 13-0116)		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0136	EA		24" Driven Post Support For 3-1/2" Square Vinyl Fence Post Note: OZ-Post T4-600.	104.48	
32 31 13 13-0137	EA		34" Driven Post Support For 3-1/2" Square Vinyl Fence Post Note: OZ-Post T4-850.	106.01	
32 31 13 13-0138	EA		34" Driven Post Support For 4" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	115.83	
32 31 13 13-0139	EA		34" Driven Post Support For 5" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	118.07	
32 31 13 13-0140			Chain Link Fence Assemblies (32 31 13 13)		
32 31 13 13-0141			Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts (32 31 13 13-0140) Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Excludes grounding. Demolition excludes concrete footing removal on posts and excavation. See CSI section 26 05 26 00-0000 for grounding, 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13- 0671 for barb wire attachments.		
32 31 13 13-0142			Galvanized (32 31 13 13-0141)		
32 31 13 13-0143	LF		3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	46.27	4.15
32 31 13 13-0144	LF		3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	48.08	4.15
32 31 13 13-0145	LF		4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	49.66	4.15



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0146	LF		5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	53.37 3.53 -12.53 -7.32 11.50 15.69 6.27 -3.14 -4.18 2.88 10.73 9.74 3.53 -1.77 -3.53 52.18	4.15
32 31 13 13-0147	LF		6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	57.69 3.81 -13.64 -7.97 12.52 17.07 6.83 -3.41 -4.55 3.11 11.58 10.50 3.81 -1.90 -3.81 61.52	4.15
32 31 13 13-0148	LF		7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	59.72 3.94 -14.11 -8.24 12.95 17.66 7.06 -3.53 -4.71 3.22 11.99 10.87 3.94 -1.97 -3.94 70.99	6.23
32 31 13 13-0149	LF		8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	67.83 4.41 -16.49 -9.63 15.14 20.64 8.26 -4.13 -5.50 3.64 13.53 12.21 4.41 -2.21 -4.41 80.56	7.27
32 31 13 13-0150	LF		9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	72.24 4.68 -17.69 -10.33 16.24 22.14 8.86 -4.43 -5.90 3.87 14.39 12.97 4.68 -2.34 -4.68 88.91	9.34

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0151	LF	10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	76.67		10.38
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.95		
		For 13 Gauge Fabric, Deduct	-18.89		
		For 11 Gauge Fabric, Deduct	-11.03		
		For 6 Gauge Fabric, Add	17.34		
		For 1" Mesh Fabric, Add	23.64		
		For 1-3/4" Mesh Fabric, Add	9.46		
		For 2-1/8" Mesh Fabric, Deduct	-4.73		
		For 2-3/8" Mesh Fabric, Deduct	-6.30		
		For Posts 8' On Centers, Add	4.10		
		For Posts 5' On Centers, Add	15.25		
		For Up To 100, Add	13.73		
		For >100 To 250, Add	4.95		
		For >2,500 To 5,000, Deduct	-2.47		
		For >5,000, Deduct	-4.95		
		For 3/8" Non-Climbable Mesh, Add	97.51		
32 31 13 13-0152	LF	12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	84.99		12.45
		For Each Additional Foot >12, Add	4.17		
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	5.46		
		For 13 Gauge Fabric, Deduct	-21.13		
		For 11 Gauge Fabric, Deduct	-12.34		
		For 6 Gauge Fabric, Add	19.40		
		For 1" Mesh Fabric, Add	26.45		
		For 1-3/4" Mesh Fabric, Add	10.58		
		For 2-1/8" Mesh Fabric, Deduct	-5.29		
		For 2-3/8" Mesh Fabric, Deduct	-7.05		
		For Posts 8' On Centers, Add	4.54		
		For Posts 5' On Centers, Add	16.87		
		For Up To 100, Add	15.17		
		For >100 To 250, Add	5.46		
		For >2,500 To 5,000, Deduct	-2.73		
		For >5,000, Deduct	-5.46		
		For 3/8" Non-Climbable Mesh, Add	105.76		
32 31 13 13-0153		Vinyl Coated (32 31 13 13-0141)			
32 31 13 13-0154	LF	4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	51.38		4.15
		For Powder Coated Framework (Posts, Rails, Hardware), Add	5.19		
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.41		
		For 13 Gauge Fabric, Deduct	-12.03		
		For 11 Gauge Fabric, Deduct	-7.03		
		For 6 Gauge Fabric, Add	11.04		
		For 1" Mesh Fabric, Add	15.06		
		For 1-3/4" Mesh Fabric, Add	6.02		
		For 2-1/8" Mesh Fabric, Deduct	-3.01		
		For 2-3/8" Mesh Fabric, Deduct	-4.01		
		For Posts 8' On Centers, Add	2.77		
		For Posts 5' On Centers, Add	10.34		
		For Up To 100, Add	9.38		
		For >100 To 250, Add	3.41		
		For >2,500 To 5,000, Deduct	-1.70		
		For >5,000, Deduct	-3.41		
		For 3/8" Non-Climbable Mesh, Add	48.17		
32 31 13 13-0155	LF	5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	55.53		4.15
		For Powder Coated Framework (Posts, Rails, Hardware), Add	5.73		
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.64		
		For 13 Gauge Fabric, Deduct	-13.28		
		For 11 Gauge Fabric, Deduct	-7.76		
		For 6 Gauge Fabric, Add	12.19		
		For 1" Mesh Fabric, Add	16.63		
		For 1-3/4" Mesh Fabric, Add	6.65		
		For 2-1/8" Mesh Fabric, Deduct	-3.33		
		For 2-3/8" Mesh Fabric, Deduct	-4.43		
		For Posts 8' On Centers, Add	2.98		
		For Posts 5' On Centers, Add	11.12		
		For Up To 100, Add	10.06		
		For >100 To 250, Add	3.64		
		For >2,500 To 5,000, Deduct	-1.82		
		For >5,000, Deduct	-3.64		
		For 3/8" Non-Climbable Mesh, Add	58.77		



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0156	LF		6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	62.09 6.55 4.03 -15.17 -8.86 13.92 18.99 7.60 -3.80 -5.06 3.33 12.37 11.16 4.03 -2.01 -4.03 69.41	4.15
32 31 13 13-0157	LF		7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	64.83 6.86 4.20 -15.88 -9.28 14.58 19.88 7.95 -3.98 -5.30 3.47 12.91 11.64 4.20 -2.10 -4.20 80.20	6.23
32 31 13 13-0158	LF		8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	73.79 8.01 4.71 -18.56 -10.84 17.04 23.23 9.29 -4.65 -6.20 3.93 14.61 13.11 4.71 -2.35 -4.71 91.09	7.27
32 31 13 13-0159	LF		9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	78.64 8.60 5.00 -19.91 -11.63 18.28 24.93 9.97 -4.99 -6.65 4.19 15.54 13.93 5.00 -2.50 -5.00 100.62	9.34

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0160	LF	10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	83.50	10.38
			For Powder Coated Framework (Posts, Rails, Hardware), Add	9.18	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	5.29	
			For 13 Gauge Fabric, Deduct	-21.26	
			For 11 Gauge Fabric, Deduct	-12.42	
			For 6 Gauge Fabric, Add	19.52	
			For 1" Mesh Fabric, Add	26.61	
			For 1-3/4" Mesh Fabric, Add	10.65	
			For 2-1/8" Mesh Fabric, Deduct	-5.32	
			For 2-3/8" Mesh Fabric, Deduct	-7.10	
			For Posts 8' On Centers, Add	4.44	
			For Posts 5' On Centers, Add	16.48	
			For Up To 100, Add	14.76	
			For >100 To 250, Add	5.29	
			For >2,500 To 5,000, Deduct	-2.65	
			For >5,000, Deduct	-5.29	
			For 3/8" Non-Climbable Mesh, Add	110.42	
32 31 13	13-0161	LF	12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	91.00	12.45
			For Each Additional Foot >12, Add	4.42	
			For Powder Coated Framework (Posts, Rails, Hardware), Add	10.02	
			For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	5.76	
			For 13 Gauge Fabric, Deduct	-23.22	
			For 11 Gauge Fabric, Deduct	-13.56	
			For 6 Gauge Fabric, Add	21.31	
			For 1" Mesh Fabric, Add	29.06	
			For 1-3/4" Mesh Fabric, Add	11.62	
			For 2-1/8" Mesh Fabric, Deduct	-5.81	
			For 2-3/8" Mesh Fabric, Deduct	-7.75	
			For Posts 8' On Centers, Add	4.84	
			For Posts 5' On Centers, Add	17.95	
			For Up To 100, Add	16.07	
			For >100 To 250, Add	5.76	
			For >2,500 To 5,000, Deduct	-2.88	
			For >5,000, Deduct	-5.76	
			For 3/8" Non-Climbable Mesh, Add	119.75	
32 31 13	13-0162		Rails (32 31 13 13) Note: Includes rail end fittings.		
32 31 13	13-0163		SS-20 Chain Link Fence Rails (32 31 13 13-0162) Note: Includes tie wires.		
32 31 13	13-0164	LF	1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	8.75	1.35
			For SS15, Deduct	-0.59	
			For SS40, Add	1.49	
32 31 13	13-0165	LF	1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	10.75	1.35
			For SS40, Add	0.79	
			For Powder Coated, Add	1.59	
			For Aluminum Coated, Add	3.18	
32 31 13	13-0166	LF	1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	10.96	1.52
			For SS15, Deduct	-0.79	
			For SS40, Add	1.98	
32 31 13	13-0167	LF	1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	13.63	1.52
			For SS40, Add	1.06	
			For Powder Coated, Add	2.12	
			For Aluminum Coated, Add	4.23	
32 31 13	13-0168	LF	2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	12.92	1.71
			For SS40, Add	2.38	
32 31 13	13-0169	LF	2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	16.12	1.71
			For SS40, Add	1.27	
			For Powder Coated, Add	2.54	
			For Aluminum Coated, Add	5.08	
32 31 13	13-0170		SS-20 Middle/Bottom Rail With Tie Wire (1.66" Nominal) (32 31 13 13-0162)		
32 31 13	13-0171	LF	1-5/8" Galvanized Steel Fence Rail, Tie Wire And Fittings.....	11.61	1.35
			For SS40, Add	2.14	
32 31 13	13-0172	LF	1-5/8" Vinyl Coated Fence Rail, Tie Wires And Fittings.....	14.28	1.35
			For SS40, Add	1.12	
			For Powder Coated, Add	2.25	
			For Aluminum Coated, Add	4.49	
32 31 13	13-0173		Fabric (32 31 13 13)		
32 31 13	13-0174		Fabric, Galvanized Chain Link (32 31 13 13-0173)		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0175	LF	3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	12.17	2.44
			For 1-1/4" Mesh Fabric, Add	1.18	
			For 2 Oz Galvanized Or Zinc Coating, Add	1.06	
			For 13 Gauge Fabric, Deduct	-1.90	
			For 11 Gauge Fabric, Deduct	-1.06	
			For 6 Gauge Fabric, Add	3.38	
			For 1" Mesh Fabric, Add	3.17	
			For 1-1/4" Mesh Fabric, Add	2.12	
			For 1-3/4" Mesh Fabric, Add	1.27	
			For 2-1/8" Mesh Fabric, Deduct	-0.63	
			For 2-3/8" Mesh Fabric, Deduct	-0.85	
			For 3/8" Non-Climbable Mesh, Add	34.26	
32 31 13	13-0176	LF	3'-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	13.48	2.75
			For 1-1/4" Mesh Fabric, Add	1.38	
			For 2 Oz Galvanized Or Zinc Coating, Add	1.23	
			For 13 Gauge Fabric, Deduct	-2.22	
			For 11 Gauge Fabric, Deduct	-1.23	
			For 6 Gauge Fabric, Add	3.94	
			For 1" Mesh Fabric, Add	3.70	
			For 1-1/4" Mesh Fabric, Add	2.47	
			For 1-3/4" Mesh Fabric, Add	1.48	
			For 2-1/8" Mesh Fabric, Deduct	-0.74	
			For 2-3/8" Mesh Fabric, Deduct	-0.99	
			For 3/8" Non-Climbable Mesh, Add	39.24	
32 31 13	13-0177	LF	4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	14.57	3.05
			For 1-1/4" Mesh Fabric, Add	1.52	
			For 2 Oz Galvanized Or Zinc Coating, Add	1.36	
			For 13 Gauge Fabric, Deduct	-2.44	
			For 11 Gauge Fabric, Deduct	-1.36	
			For 6 Gauge Fabric, Add	4.34	
			For 1" Mesh Fabric, Add	4.07	
			For 1-1/4" Mesh Fabric, Add	2.71	
			For 1-3/4" Mesh Fabric, Add	1.63	
			For 2-1/8" Mesh Fabric, Deduct	-0.81	
			For 2-3/8" Mesh Fabric, Deduct	-1.08	
			For 3/8" Non-Climbable Mesh, Add	44.27	
32 31 13	13-0178	LF	5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	16.53	3.66
			For 1-1/4" Mesh Fabric, Add	1.89	
			For 2 Oz Galvanized Or Zinc Coating, Add	1.69	
			For 13 Gauge Fabric, Deduct	-3.04	
			For 11 Gauge Fabric, Deduct	-1.69	
			For 6 Gauge Fabric, Add	5.41	
			For 1" Mesh Fabric, Add	5.07	
			For 1-1/4" Mesh Fabric, Add	3.38	
			For 1-3/4" Mesh Fabric, Add	2.03	
			For 2-1/8" Mesh Fabric, Deduct	-1.01	
			For 2-3/8" Mesh Fabric, Deduct	-1.35	
			For 3/8" Non-Climbable Mesh, Add	53.64	
32 31 13	13-0179	LF	6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	18.60	4.27
			For 1-1/4" Mesh Fabric, Add	2.28	
			For 2 Oz Galvanized Or Zinc Coating, Add	2.03	
			For 13 Gauge Fabric, Deduct	-3.66	
			For 11 Gauge Fabric, Deduct	-2.03	
			For 6 Gauge Fabric, Add	6.50	
			For 1" Mesh Fabric, Add	6.10	
			For 1-1/4" Mesh Fabric, Add	4.07	
			For 1-3/4" Mesh Fabric, Add	2.44	
			For 2-1/8" Mesh Fabric, Deduct	-1.22	
			For 2-3/8" Mesh Fabric, Deduct	-1.63	
			For 3/8" Non-Climbable Mesh, Add	63.10	
32 31 13	13-0180	LF	7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	20.73	4.89
			For 1-1/4" Mesh Fabric, Add	2.65	
			For 2 Oz Galvanized Or Zinc Coating, Add	2.37	
			For 13 Gauge Fabric, Deduct	-4.26	
			For 11 Gauge Fabric, Deduct	-2.37	
			For 6 Gauge Fabric, Add	7.57	
			For 1" Mesh Fabric, Add	7.10	
			For 1-1/4" Mesh Fabric, Add	4.73	
			For 1-3/4" Mesh Fabric, Add	2.84	
			For 2-1/8" Mesh Fabric, Deduct	-1.42	
			For 2-3/8" Mesh Fabric, Deduct	-1.89	
			For 3/8" Non-Climbable Mesh, Add	72.68	
32 31 13	13-0181	LF	8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	23.04	6.10
			For 1-1/4" Mesh Fabric, Add	3.03	
			For 2 Oz Galvanized Or Zinc Coating, Add	2.71	
			For 13 Gauge Fabric, Deduct	-4.87	
			For 11 Gauge Fabric, Deduct	-2.71	
			For 6 Gauge Fabric, Add	8.66	
			For 1" Mesh Fabric, Add	8.12	
			For 1-1/4" Mesh Fabric, Add	5.42	
			For 1-3/4" Mesh Fabric, Add	3.25	
			For 2-1/8" Mesh Fabric, Deduct	-1.62	
			For 2-3/8" Mesh Fabric, Deduct	-2.17	
			For 3/8" Non-Climbable Mesh, Add	82.40	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0182	LF	10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	27.53		6.72
		For 1-1/4" Mesh Fabric, Add	3.94		
		For 2 Oz Galvanized Or Zinc Coating, Add	3.52		
		For 13 Gauge Fabric, Deduct	-6.33		
		For 11 Gauge Fabric, Deduct	-3.52		
		For 6 Gauge Fabric, Add	11.25		
		For 1" Mesh Fabric, Add	10.55		
		For 1-1/4" Mesh Fabric, Add	7.03		
		For 1-3/4" Mesh Fabric, Add	4.22		
		For 2-1/8" Mesh Fabric, Deduct	-2.11		
		For 2-3/8" Mesh Fabric, Deduct	-2.81		
		For 3/8" Non-Climbable Mesh, Add	99.53		
32 31 13 13-0183	LF	12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	31.50		7.32
		For 1-1/4" Mesh Fabric, Add	4.72		
		For 2 Oz Galvanized Or Zinc Coating, Add	4.21		
		For 13 Gauge Fabric, Deduct	-7.58		
		For 11 Gauge Fabric, Deduct	-4.21		
		For 6 Gauge Fabric, Add	13.48		
		For 1" Mesh Fabric, Add	12.64		
		For 1-1/4" Mesh Fabric, Add	8.43		
		For 1-3/4" Mesh Fabric, Add	5.06		
		For 2-1/8" Mesh Fabric, Deduct	-2.53		
		For 2-3/8" Mesh Fabric, Deduct	-3.37		
		For 3/8" Non-Climbable Mesh, Add	107.95		
32 31 13 13-0184	LF	14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	35.19		8.55
		For 1-1/4" Mesh Fabric, Add	5.07		
		For 2 Oz Galvanized Or Zinc Coating, Add	4.53		
		For 13 Gauge Fabric, Deduct	-8.15		
		For 11 Gauge Fabric, Deduct	-4.53		
		For 6 Gauge Fabric, Add	14.48		
		For 1" Mesh Fabric, Add	13.58		
		For 1-1/4" Mesh Fabric, Add	9.05		
		For 1-3/4" Mesh Fabric, Add	5.43		
		For 2-1/8" Mesh Fabric, Deduct	-2.72		
		For 2-3/8" Mesh Fabric, Deduct	-3.62		
		For 3/8" Non-Climbable Mesh, Add	117.64		
32 31 13 13-0185	LF	16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	38.88		9.77
		For 1-1/4" Mesh Fabric, Add	5.42		
		For 2 Oz Galvanized Or Zinc Coating, Add	4.84		
		For 13 Gauge Fabric, Deduct	-8.71		
		For 11 Gauge Fabric, Deduct	-4.84		
		For 6 Gauge Fabric, Add	15.48		
		For 1" Mesh Fabric, Add	14.51		
		For 1-1/4" Mesh Fabric, Add	9.68		
		For 1-3/4" Mesh Fabric, Add	5.81		
		For 2-1/8" Mesh Fabric, Deduct	-2.90		
		For 2-3/8" Mesh Fabric, Deduct	-3.87		
		For 3/8" Non-Climbable Mesh, Add	127.34		
32 31 13 13-0186 Fabric, Vinyl Coated Chain Link (32 31 13 13-0173)					
32 31 13 13-0187	LF	4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	16.29		2.44
		For 1-1/4" Mesh Fabric, Add	2.00		
		For 13 Gauge Fabric, Deduct	-3.21		
		For 11 Gauge Fabric, Deduct	-1.79		
		For 6 Gauge Fabric, Add	5.71		
		For 1" Mesh Fabric, Add	5.36		
		For 1-1/4" Mesh Fabric, Add	3.57		
		For 1-3/4" Mesh Fabric, Add	2.14		
		For 2-1/8" Mesh Fabric, Deduct	-1.07		
		For 2-3/8" Mesh Fabric, Deduct	-1.43		
		For 3/8" Non-Climbable Mesh, Add	49.54		
		For Aluminum Coated, Add	2.86		
32 31 13 13-0188	LF	5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	18.70		3.66
		For 1-1/4" Mesh Fabric, Add	2.50		
		For 13 Gauge Fabric, Deduct	-4.02		
		For 11 Gauge Fabric, Deduct	-2.23		
		For 6 Gauge Fabric, Add	7.14		
		For 1" Mesh Fabric, Add	6.70		
		For 1-1/4" Mesh Fabric, Add	4.47		
		For 1-3/4" Mesh Fabric, Add	2.68		
		For 2-1/8" Mesh Fabric, Deduct	-1.34		
		For 2-3/8" Mesh Fabric, Deduct	-1.79		
		For 3/8" Non-Climbable Mesh, Add	60.23		
		For Aluminum Coated, Add	3.57		
32 31 13 13-0189	LF	6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	22.99		4.27
		For 1-1/4" Mesh Fabric, Add	3.51		
		For 13 Gauge Fabric, Deduct	-5.63		
		For 11 Gauge Fabric, Deduct	-3.13		
		For 6 Gauge Fabric, Add	10.02		
		For 1" Mesh Fabric, Add	9.39		
		For 1-1/4" Mesh Fabric, Add	6.26		
		For 1-3/4" Mesh Fabric, Add	3.76		
		For 2-1/8" Mesh Fabric, Deduct	-1.88		
		For 2-3/8" Mesh Fabric, Deduct	-2.50		
		For 3/8" Non-Climbable Mesh, Add	70.99		
		For Aluminum Coated, Add	5.01		



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 31 13 13-0190	LF	7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	25.85	4.89
		For 1-1/4" Mesh Fabric, Add	4.08	
		For 13 Gauge Fabric, Deduct	-6.56	
		For 11 Gauge Fabric, Deduct	-3.65	
		For 6 Gauge Fabric, Add	11.66	
		For 1" Mesh Fabric, Add	10.94	
		For 1-1/4" Mesh Fabric, Add	7.29	
		For 1-3/4" Mesh Fabric, Add	4.37	
		For 2-1/8" Mesh Fabric, Deduct	-2.19	
		For 2-3/8" Mesh Fabric, Deduct	-2.92	
		For 3/8" Non-Climbable Mesh, Add	81.89	
		For Aluminum Coated, Add	5.83	
32 31 13 13-0191	LF	8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	29.00	6.10
		For 1-1/4" Mesh Fabric, Add	4.70	
		For 13 Gauge Fabric, Deduct	-7.56	
		For 11 Gauge Fabric, Deduct	-4.20	
		For 6 Gauge Fabric, Add	13.43	
		For 1" Mesh Fabric, Add	12.59	
		For 1-1/4" Mesh Fabric, Add	8.40	
		For 1-3/4" Mesh Fabric, Add	5.04	
		For 2-1/8" Mesh Fabric, Deduct	-2.52	
		For 2-3/8" Mesh Fabric, Deduct	-3.36	
		For 3/8" Non-Climbable Mesh, Add	92.93	
		For Aluminum Coated, Add	6.72	
32 31 13 13-0192	LF	10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	34.36	6.72
		For 1-1/4" Mesh Fabric, Add	5.85	
		For 13 Gauge Fabric, Deduct	-9.40	
		For 11 Gauge Fabric, Deduct	-5.22	
		For 6 Gauge Fabric, Add	16.71	
		For 1" Mesh Fabric, Add	15.67	
		For 1-1/4" Mesh Fabric, Add	10.45	
		For 1-3/4" Mesh Fabric, Add	6.27	
		For 2-1/8" Mesh Fabric, Deduct	-3.13	
		For 2-3/8" Mesh Fabric, Deduct	-4.18	
		For 3/8" Non-Climbable Mesh, Add	112.44	
		For Aluminum Coated, Add	8.36	
32 31 13 13-0193	LF	12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	37.51	7.32
		For 1-1/4" Mesh Fabric, Add	6.40	
		For 13 Gauge Fabric, Deduct	-10.29	
		For 11 Gauge Fabric, Deduct	-5.72	
		For 6 Gauge Fabric, Add	18.29	
		For 1" Mesh Fabric, Add	17.15	
		For 1-1/4" Mesh Fabric, Add	11.43	
		For 1-3/4" Mesh Fabric, Add	6.86	
		For 2-1/8" Mesh Fabric, Deduct	-3.43	
		For 2-3/8" Mesh Fabric, Deduct	-4.57	
		For 3/8" Non-Climbable Mesh, Add	121.94	
		For Aluminum Coated, Add	9.14	
32 31 13 13-0194	LF	14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	42.25	8.55
		For 1-1/4" Mesh Fabric, Add	7.04	
		For 13 Gauge Fabric, Deduct	-11.32	
		For 11 Gauge Fabric, Deduct	-6.29	
		For 6 Gauge Fabric, Add	20.13	
		For 1" Mesh Fabric, Add	18.87	
		For 1-1/4" Mesh Fabric, Add	12.58	
		For 1-3/4" Mesh Fabric, Add	7.55	
		For 2-1/8" Mesh Fabric, Deduct	-3.77	
		For 2-3/8" Mesh Fabric, Deduct	-5.03	
		For 3/8" Non-Climbable Mesh, Add	132.73	
		For Aluminum Coated, Add	10.06	
32 31 13 13-0195	LF	16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	47.10	9.77
		For 1-1/4" Mesh Fabric, Add	7.72	
		For 13 Gauge Fabric, Deduct	-12.41	
		For 11 Gauge Fabric, Deduct	-6.89	
		For 6 Gauge Fabric, Add	22.06	
		For 1" Mesh Fabric, Add	20.68	
		For 1-1/4" Mesh Fabric, Add	13.79	
		For 1-3/4" Mesh Fabric, Add	8.27	
		For 2-1/8" Mesh Fabric, Deduct	-4.14	
		For 2-3/8" Mesh Fabric, Deduct	-5.51	
		For 3/8" Non-Climbable Mesh, Add	143.51	
		For Aluminum Coated, Add	11.03	
32 31 13 13-0196		Fabric, Aluminized Steel Chain Link (32 31 13 13-0173)		
32 31 13 13-0197	LF	3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	11.72	2.44
		For 6 Gauge Fabric, Add	3.02	
		For 1" Mesh Fabric, Add	3.97	
32 31 13 13-0198	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	12.94	2.75
		For 6 Gauge Fabric, Add	3.51	
		For 1" Mesh Fabric, Add	4.61	
32 31 13 13-0199	LF	4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	14.18	3.05
		For 6 Gauge Fabric, Add	4.02	
		For 1" Mesh Fabric, Add	5.28	
32 31 13 13-0200	LF	5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	16.05	3.66
		For 6 Gauge Fabric, Add	5.02	
		For 1" Mesh Fabric, Add	6.59	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0201	LF	6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	17.97 6.00 7.88	4.27
32 31 13 13-0202	LF	7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	20.05 7.02 9.22	4.89
32 31 13 13-0203	LF	8' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	22.24 8.02 10.53	6.10
32 31 13 13-0204	LF	10' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	26.00 10.02 13.16	6.72
32 31 13 13-0205	LF	12' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	29.68 12.02 15.78	7.32
32 31 13 13-0206 Fabric, All Aluminum Chain Link (32 31 13 13-0173)				
32 31 13 13-0207	LF	3' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	17.82 7.90 10.37	2.44
32 31 13 13-0208	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	20.07 9.22 12.10	2.75
32 31 13 13-0209	LF	4' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	22.32 10.54 13.83	3.05
32 31 13 13-0210	LF	5' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	26.23 13.17 17.28	3.66
32 31 13 13-0211	LF	6' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	30.22 15.80 20.74	4.27
32 31 13 13-0212	LF	7' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	34.31 18.43 24.19	4.89
32 31 13 13-0213	LF	8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	38.54 21.06 27.65	6.10
32 31 13 13-0214	LF	10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	46.39 26.34 34.57	6.72
32 31 13 13-0215	LF	12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	54.15 31.60 41.48	7.32
32 31 13 13-0216 Fence Inserts (32 31 13 13-0173)				
Note: For use with new or existing chain link fence, per lf of fence.				
32 31 13 13-0217 Vinyl Plastic Fence Inserts (32 31 13 13-0216)				
Note: Assorted colors.				
32 31 13 13-0218	LF	3' High Fence, Vinyl Plastic Fence Insert.....	10.60	
32 31 13 13-0219	LF	3-1/2' High Fence, Vinyl Plastic Fence Insert.....	12.10	
32 31 13 13-0220	LF	4' High Fence, Vinyl Plastic Fence Insert.....	13.34	
32 31 13 13-0221	LF	5' High Fence, Vinyl Plastic Fence Insert.....	16.73	
32 31 13 13-0222	LF	6' High Fence, Vinyl Plastic Fence Insert.....	20.02	
32 31 13 13-0223	LF	7' High Fence, Vinyl Plastic Fence Insert.....	23.42	
32 31 13 13-0224	LF	8' High Fence, Vinyl Plastic Fence Insert.....	26.70	
32 31 13 13-0225	LF	10' High Fence, Vinyl Plastic Fence Insert.....	32.33	
32 31 13 13-0226 Aluminum Fence Inserts (32 31 13 13-0216)				
Note: Assorted colors.				
32 31 13 13-0227	LF	3' High Fence, Aluminum Fence Insert.....	37.09	
32 31 13 13-0228	LF	3-1/2' High Fence, Aluminum Fence Insert.....	40.68	
32 31 13 13-0229	LF	4' High Fence, Aluminum Fence Insert.....	46.25	
32 31 13 13-0230	LF	5' High Fence, Aluminum Fence Insert.....	57.87	
32 31 13 13-0231	LF	6' High Fence, Aluminum Fence Insert.....	69.44	
32 31 13 13-0232	LF	7' High Fence, Aluminum Fence Insert.....	75.49	
32 31 13 13-0233	LF	8' High Fence, Aluminum Fence Insert.....	92.57	
32 31 13 13-0234	LF	10' High Fence, Aluminum Fence Insert.....	115.19	
32 31 13 13-0235 Redwood Fence Inserts (32 31 13 13-0216)				
32 31 13 13-0236	LF	4' High Fence, Redwood Fence Insert.....	15.71	
32 31 13 13-0237	LF	5' High Fence, Redwood Fence Insert.....	19.89	
32 31 13 13-0238	LF	6' High Fence, Redwood Fence Insert.....	23.89	
32 31 13 13-0239	LF	7' High Fence, Redwood Fence Insert.....	27.80	
32 31 13 13-0240	LF	8' High Fence, Redwood Fence Insert.....	31.82	
32 31 13 13-0241 Diagonal Flexible Polyethylene Inserts (32 31 13 13-0216)				



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0242	SF		Diagonal Polyethylene Fence Weave	4.22	
32 31 13 13-0243			Hedge Link Fence Inserts (32 31 13 13-0216)		
32 31 13 13-0244	LF		3' High Fence, Hedge Link Fence Insert.....	22.44	
32 31 13 13-0245	LF		3-1/2' High Fence, Hedge Link Fence Insert.....	25.55	
32 31 13 13-0246	LF		4' High Fence, Hedge Link Fence Insert.....	30.00	
32 31 13 13-0247	LF		5' High Fence, Hedge Link Fence Insert.....	37.01	
32 31 13 13-0248	LF		6' High Fence, Hedge Link Fence Insert.....	42.38	
32 31 13 13-0249	LF		7' High Fence, Hedge Link Fence Insert.....	53.44	
32 31 13 13-0250	LF		8' High Fence, Hedge Link Fence Insert.....	60.71	
32 31 13 13-0251	LF		10' High Fence, Hedge Link Fence Insert.....	72.50	
32 31 13 13-0252	LF		12' High Fence, Hedge Link Fence Insert.....	83.14	
32 31 13 13-0253			Fence Windscreen Fabric (32 31 13 13-0173)		
			Note: Includes plastic wire clips.		
32 31 13 13-0254	SF		Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY	1.45	0.66
			For Sewn Boxed Vent (Each), Add	29.76	
			For Welded Boxed Vent (Each), Add	14.88	
			For 4' x 4' One Color Logo (Each), Add	619.98	
32 31 13 13-0255			Non-Climbable Fabric, Galvanized Chain Link (32 31 13 13-0173)		
32 31 13 13-0256	LF		3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	34.26	2.44
			For 11 Gauge, Deduct	-5.26	
			For 10 Gauge, Deduct	-2.11	
			For 7 Gauge, Add	3.16	
			For 6 Gauge, Add	7.37	
			For 1/2" Mesh Fabric, Deduct	-1.32	
			For 5/8" Mesh Fabric, Deduct	-2.90	
			For 3/4" Mesh Fabric, Deduct	-4.21	
32 31 13 13-0257	LF		3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	39.24	2.75
			For 11 Gauge, Deduct	-6.14	
			For 10 Gauge, Deduct	-2.46	
			For 7 Gauge, Add	3.68	
			For 6 Gauge, Add	8.59	
			For 1/2" Mesh Fabric, Deduct	-1.53	
			For 5/8" Mesh Fabric, Deduct	-3.38	
			For 3/4" Mesh Fabric, Deduct	-4.91	
32 31 13 13-0258	LF		4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	44.27	3.05
			For 11 Gauge, Deduct	-7.02	
			For 10 Gauge, Deduct	-2.81	
			For 7 Gauge, Add	4.21	
			For 6 Gauge, Add	9.83	
			For 1/2" Mesh Fabric, Deduct	-1.76	
			For 5/8" Mesh Fabric, Deduct	-3.86	
			For 3/4" Mesh Fabric, Deduct	-5.62	
32 31 13 13-0259	LF		5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	53.64	3.66
			For 11 Gauge, Deduct	-8.77	
			For 10 Gauge, Deduct	-3.51	
			For 7 Gauge, Add	5.26	
			For 6 Gauge, Add	12.28	
			For 1/2" Mesh Fabric, Deduct	-2.19	
			For 5/8" Mesh Fabric, Deduct	-4.83	
			For 3/4" Mesh Fabric, Deduct	-7.02	
32 31 13 13-0260	LF		6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	63.10	4.27
			For 11 Gauge, Deduct	-10.53	
			For 10 Gauge, Deduct	-4.21	
			For 7 Gauge, Add	6.32	
			For 6 Gauge, Add	14.74	
			For 1/2" Mesh Fabric, Deduct	-2.63	
			For 5/8" Mesh Fabric, Deduct	-5.79	
			For 3/4" Mesh Fabric, Deduct	-8.42	
32 31 13 13-0261	LF		7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	72.68	4.89
			For 11 Gauge, Deduct	-12.28	
			For 10 Gauge, Deduct	-4.91	
			For 7 Gauge, Add	7.37	
			For 6 Gauge, Add	17.19	
			For 1/2" Mesh Fabric, Deduct	-3.07	
			For 5/8" Mesh Fabric, Deduct	-6.76	
			For 3/4" Mesh Fabric, Deduct	-9.83	
32 31 13 13-0262	LF		8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	82.40	6.10
			For 11 Gauge, Deduct	-14.04	
			For 10 Gauge, Deduct	-5.62	
			For 7 Gauge, Add	8.42	
			For 6 Gauge, Add	19.65	
			For 1/2" Mesh Fabric, Deduct	-3.51	
			For 5/8" Mesh Fabric, Deduct	-7.72	
			For 3/4" Mesh Fabric, Deduct	-11.23	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0263	LF		9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	90.95	6.41
			For 11 Gauge, Deduct	-15.63	
			For 10 Gauge, Deduct	-6.25	
			For 7 Gauge, Add	9.38	
			For 6 Gauge, Add	21.88	
			For 1/2" Mesh Fabric, Deduct	-3.91	
			For 5/8" Mesh Fabric, Deduct	-8.59	
			For 3/4" Mesh Fabric, Deduct	-12.50	
32 31 13 13-0264	LF		10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	99.53	6.72
			For 11 Gauge, Deduct	-17.21	
			For 10 Gauge, Deduct	-6.88	
			For 7 Gauge, Add	10.33	
			For 6 Gauge, Add	24.10	
			For 1/2" Mesh Fabric, Deduct	-4.30	
			For 5/8" Mesh Fabric, Deduct	-9.47	
			For 3/4" Mesh Fabric, Deduct	-13.77	
32 31 13 13-0265	LF		12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	107.95	7.32
			For 11 Gauge, Deduct	-18.66	
			For 10 Gauge, Deduct	-7.46	
			For 7 Gauge, Add	11.20	
			For 6 Gauge, Add	26.12	
			For 1/2" Mesh Fabric, Deduct	-4.67	
			For 5/8" Mesh Fabric, Deduct	-10.26	
			For 3/4" Mesh Fabric, Deduct	-14.93	
32 31 13 13-0266			Gates (32 31 13 13)		
			Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0267			Galvanized Steel Without Barbed Wire (32 31 13 13-0266)		
			Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0268			4' Fence Height (32 31 13 13-0267)		
32 31 13 13-0269	EA		3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	401.82	27.65
			For Gate With Single Barb Wire Arm, Add	34.70	
			For Gate With Double Barb Wire Arm, Add	50.47	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.14	
			For Aluminized Steel Gate And Post, Add	151.40	
			For Powder Coated Gate And Post, Add	82.01	
			For 1" Mesh Fabric, Add	137.21	
			For 1-1/4" Mesh Fabric, Add	88.32	
			For 1-3/4" Mesh Fabric, Add	54.88	
			For 2-1/8" Mesh Fabric, Deduct	-27.44	
32 31 13 13-0270	EA		4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	506.96	28.80
			For Gate With Single Barb Wire Arm, Add	46.26	
			For Gate With Double Barb Wire Arm, Add	67.29	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.86	
			For Aluminized Steel Gate And Post, Add	201.87	
			For Powder Coated Gate And Post, Add	109.35	
			For 1" Mesh Fabric, Add	182.94	
			For 1-1/4" Mesh Fabric, Add	117.76	
			For 1-3/4" Mesh Fabric, Add	73.18	
			For 2-1/8" Mesh Fabric, Deduct	-36.59	
32 31 13 13-0271	EA		5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	599.92	30.65
			For Gate With Single Barb Wire Arm, Add	55.85	
			For Gate With Double Barb Wire Arm, Add	81.24	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-95.20	
			For Aluminized Steel Gate And Post, Add	243.72	
			For Powder Coated Gate And Post, Add	132.02	
			For 1" Mesh Fabric, Add	220.87	
			For 1-1/4" Mesh Fabric, Add	142.17	
			For 1-3/4" Mesh Fabric, Add	88.35	
			For 2-1/8" Mesh Fabric, Deduct	-44.17	
32 31 13 13-0272	EA		6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	705.56	36.86
			For Gate With Single Barb Wire Arm, Add	65.44	
			For Gate With Double Barb Wire Arm, Add	95.19	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-111.55	
			For Aluminized Steel Gate And Post, Add	285.57	
			For Powder Coated Gate And Post, Add	154.68	
			For 1" Mesh Fabric, Add	258.80	
			For 1-1/4" Mesh Fabric, Add	166.58	
			For 1-3/4" Mesh Fabric, Add	103.52	
			For 2-1/8" Mesh Fabric, Deduct	-51.76	



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0273	EA	7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	811.17	42.97
			For Gate With Single Barb Wire Arm, Add	75.03	
			For Gate With Double Barb Wire Arm, Add	109.14	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-127.90	
			For Aluminized Steel Gate And Post, Add	327.42	
			For Powder Coated Gate And Post, Add	177.35	
			For 1" Mesh Fabric, Add	296.73	
			For 1-1/4" Mesh Fabric, Add	191.00	
			For 1-3/4" Mesh Fabric, Add	118.69	
			For 2-1/8" Mesh Fabric, Deduct	-59.35	
32 31 13	13-0274	EA	8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	920.38	49.08
			For Gate With Single Barb Wire Arm, Add	85.02	
			For Gate With Double Barb Wire Arm, Add	123.67	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-144.92	
			For Aluminized Steel Gate And Post, Add	371.00	
			For Powder Coated Gate And Post, Add	200.96	
			For 1" Mesh Fabric, Add	336.22	
			For 1-1/4" Mesh Fabric, Add	216.41	
			For 1-3/4" Mesh Fabric, Add	134.49	
			For 2-1/8" Mesh Fabric, Deduct	-67.24	
32 31 13	13-0275	EA	9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	1,025.99	55.29
			For Gate With Single Barb Wire Arm, Add	94.61	
			For Gate With Double Barb Wire Arm, Add	137.62	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.27	
			For Aluminized Steel Gate And Post, Add	412.85	
			For Powder Coated Gate And Post, Add	223.63	
			For 1" Mesh Fabric, Add	374.14	
			For 1-1/4" Mesh Fabric, Add	240.83	
			For 1-3/4" Mesh Fabric, Add	149.66	
			For 2-1/8" Mesh Fabric, Deduct	-74.83	
32 31 13	13-0276	EA	10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	1,133.15	61.40
			For Gate With Single Barb Wire Arm, Add	104.37	
			For Gate With Double Barb Wire Arm, Add	151.81	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-177.91	
			For Aluminized Steel Gate And Post, Add	455.44	
			For Powder Coated Gate And Post, Add	246.70	
			For 1" Mesh Fabric, Add	412.74	
			For 1-1/4" Mesh Fabric, Add	265.67	
			For 1-3/4" Mesh Fabric, Add	165.10	
			For 2-1/8" Mesh Fabric, Deduct	-82.55	
32 31 13	13-0277	EA	10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,446.01	61.40
			For Gate With Single Barb Wire Arm, Add	138.78	
			For Gate With Double Barb Wire Arm, Add	201.87	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-236.57	
			For Aluminized Steel Gate And Post, Add	605.61	
			For Powder Coated Gate And Post, Add	328.04	
			For 1" Mesh Fabric, Add	548.83	
			For 1-1/4" Mesh Fabric, Add	353.27	
			For 1-3/4" Mesh Fabric, Add	219.53	
			For 2-1/8" Mesh Fabric, Deduct	-109.77	
32 31 13	13-0278	EA	12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,711.52	65.79
			For Gate With Single Barb Wire Arm, Add	166.54	
			For Gate With Double Barb Wire Arm, Add	242.24	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-283.88	
			For Aluminized Steel Gate And Post, Add	726.73	
			For Powder Coated Gate And Post, Add	393.65	
			For 1" Mesh Fabric, Add	658.60	
			For 1-1/4" Mesh Fabric, Add	423.93	
			For 1-3/4" Mesh Fabric, Add	263.44	
			For 2-1/8" Mesh Fabric, Deduct	-131.72	
32 31 13	13-0279	EA	14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,979.05	70.85
			For Gate With Single Barb Wire Arm, Add	194.30	
			For Gate With Double Barb Wire Arm, Add	282.62	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-331.19	
			For Aluminized Steel Gate And Post, Add	847.85	
			For Powder Coated Gate And Post, Add	459.25	
			For 1" Mesh Fabric, Add	768.37	
			For 1-1/4" Mesh Fabric, Add	494.58	
			For 1-3/4" Mesh Fabric, Add	307.35	
			For 2-1/8" Mesh Fabric, Deduct	-153.67	
32 31 13	13-0280	EA	16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,249.11	76.72
			For Gate With Single Barb Wire Arm, Add	222.06	
			For Gate With Double Barb Wire Arm, Add	322.99	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-378.51	
			For Aluminized Steel Gate And Post, Add	968.98	
			For Powder Coated Gate And Post, Add	524.86	
			For 1" Mesh Fabric, Add	878.13	
			For 1-1/4" Mesh Fabric, Add	565.24	
			For 1-3/4" Mesh Fabric, Add	351.25	
			For 2-1/8" Mesh Fabric, Deduct	-175.63	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 31 13 13-0281	EA 18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,555.63		94.72	
	For Gate With Single Barb Wire Arm, Add	249.81			
	For Gate With Double Barb Wire Arm, Add	363.36			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-425.82			
	For Aluminized Steel Gate And Post, Add	1,090.09			
	For Powder Coated Gate And Post, Add	590.47			
	For 1" Mesh Fabric, Add	987.90			
	For 1-1/4" Mesh Fabric, Add	635.89			
	For 1-3/4" Mesh Fabric, Add	395.16			
	For 2-1/8" Mesh Fabric, Deduct	-197.58			
32 31 13 13-0282	EA 20' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,828.30		101.52	
	For Gate With Single Barb Wire Arm, Add	277.57			
	For Gate With Double Barb Wire Arm, Add	403.74			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-473.13			
	For Aluminized Steel Gate And Post, Add	1,211.22			
	For Powder Coated Gate And Post, Add	656.08			
	For 1" Mesh Fabric, Add	1,097.67			
	For 1-1/4" Mesh Fabric, Add	706.54			
	For 1-3/4" Mesh Fabric, Add	439.07			
	For 2-1/8" Mesh Fabric, Deduct	-219.53			
32 31 13 13-0283	EA 22' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,097.93		109.39	
	For Gate With Single Barb Wire Arm, Add	304.65			
	For Gate With Double Barb Wire Arm, Add	443.13			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-519.29			
	For Aluminized Steel Gate And Post, Add	1,329.38			
	For Powder Coated Gate And Post, Add	720.08			
	For 1" Mesh Fabric, Add	1,204.75			
	For 1-1/4" Mesh Fabric, Add	775.47			
	For 1-3/4" Mesh Fabric, Add	481.90			
	For 2-1/8" Mesh Fabric, Deduct	-240.95			
32 31 13 13-0284	EA 24' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,371.47		118.47	
	For Gate With Single Barb Wire Arm, Add	331.73			
	For Gate With Double Barb Wire Arm, Add	482.52			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-565.45			
	For Aluminized Steel Gate And Post, Add	1,447.55			
	For Powder Coated Gate And Post, Add	784.09			
	For 1" Mesh Fabric, Add	1,311.84			
	For 1-1/4" Mesh Fabric, Add	844.40			
	For 1-3/4" Mesh Fabric, Add	524.74			
	For 2-1/8" Mesh Fabric, Deduct	-262.37			
32 31 13 13-0285	EA 26' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,650.01		129.27	
	For Gate With Single Barb Wire Arm, Add	358.81			
	For Gate With Double Barb Wire Arm, Add	521.91			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-611.61			
	For Aluminized Steel Gate And Post, Add	1,565.72			
	For Powder Coated Gate And Post, Add	848.10			
	For 1" Mesh Fabric, Add	1,418.94			
	For 1-1/4" Mesh Fabric, Add	913.34			
	For 1-3/4" Mesh Fabric, Add	567.57			
	For 2-1/8" Mesh Fabric, Deduct	-283.79			
32 31 13 13-0286	EA 28' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,842.68		142.21	
	For Gate With Single Barb Wire Arm, Add	375.74			
	For Gate With Double Barb Wire Arm, Add	546.52			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-640.46			
	For Aluminized Steel Gate And Post, Add	1,639.57			
	For Powder Coated Gate And Post, Add	888.10			
	For 1" Mesh Fabric, Add	1,485.86			
	For 1-1/4" Mesh Fabric, Add	956.42			
	For 1-3/4" Mesh Fabric, Add	594.35			
	For 2-1/8" Mesh Fabric, Deduct	-297.17			
32 31 13 13-0287	EA 30' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	4,259.38		157.95	
	For Gate With Single Barb Wire Arm, Add	416.36			
	For Gate With Double Barb Wire Arm, Add	605.61			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-709.70			
	For Aluminized Steel Gate And Post, Add	1,816.82			
	For Powder Coated Gate And Post, Add	984.11			
	For 1" Mesh Fabric, Add	1,646.50			
	For 1-1/4" Mesh Fabric, Add	1,059.81			
	For 1-3/4" Mesh Fabric, Add	658.60			
	For 2-1/8" Mesh Fabric, Deduct	-329.30			
32 31 13 13-0288	5' Fence Height (32 31 13 13-0267)				
32 31 13 13-0289	EA 3' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	481.96		30.65	
	For Gate With Single Barb Wire Arm, Add	42.88			
	For Gate With Double Barb Wire Arm, Add	62.37			
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-73.09			
	For Aluminized Steel Gate And Post, Add	187.10			
	For Powder Coated Gate And Post, Add	101.35			
	For 1" Mesh Fabric, Add	169.56			
	For 1-1/4" Mesh Fabric, Add	109.14			
	For 1-3/4" Mesh Fabric, Add	67.82			
	For 2-1/8" Mesh Fabric, Deduct	-33.91			



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0290	EA	4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	610.18	30.65
			For Gate With Single Barb Wire Arm, Add	56.98	
			For Gate With Double Barb Wire Arm, Add	82.88	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-97.13	
			For Aluminized Steel Gate And Post, Add	248.64	
			For Powder Coated Gate And Post, Add	134.68	
			For 1" Mesh Fabric, Add	225.33	
			For 1-1/4" Mesh Fabric, Add	145.04	
			For 1-3/4" Mesh Fabric, Add	90.13	
			For 2-1/8" Mesh Fabric, Deduct	-45.07	
32 31 13	13-0291	EA	5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	713.40	32.61
			For Gate With Single Barb Wire Arm, Add	67.70	
			For Gate With Double Barb Wire Arm, Add	98.47	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-115.40	
			For Aluminized Steel Gate And Post, Add	295.42	
			For Powder Coated Gate And Post, Add	160.02	
			For 1" Mesh Fabric, Add	267.73	
			For 1-1/4" Mesh Fabric, Add	172.33	
			For 1-3/4" Mesh Fabric, Add	107.09	
			For 2-1/8" Mesh Fabric, Deduct	-53.55	
32 31 13	13-0292	EA	6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	835.55	39.17
			For Gate With Single Barb Wire Arm, Add	78.98	
			For Gate With Double Barb Wire Arm, Add	114.88	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-134.63	
			For Aluminized Steel Gate And Post, Add	344.65	
			For Powder Coated Gate And Post, Add	186.69	
			For 1" Mesh Fabric, Add	312.34	
			For 1-1/4" Mesh Fabric, Add	201.05	
			For 1-3/4" Mesh Fabric, Add	124.94	
			For 2-1/8" Mesh Fabric, Deduct	-62.47	
32 31 13	13-0293	EA	7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	947.45	45.63
			For Gate With Single Barb Wire Arm, Add	89.14	
			For Gate With Double Barb Wire Arm, Add	129.66	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-151.94	
			For Aluminized Steel Gate And Post, Add	388.97	
			For Powder Coated Gate And Post, Add	210.69	
			For 1" Mesh Fabric, Add	352.50	
			For 1-1/4" Mesh Fabric, Add	226.90	
			For 1-3/4" Mesh Fabric, Add	141.00	
			For 2-1/8" Mesh Fabric, Deduct	-70.50	
32 31 13	13-0294	EA	8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,070.76	52.54
			For Gate With Single Barb Wire Arm, Add	100.42	
			For Gate With Double Barb Wire Arm, Add	146.07	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-171.17	
			For Aluminized Steel Gate And Post, Add	438.21	
			For Powder Coated Gate And Post, Add	237.36	
			For 1" Mesh Fabric, Add	397.12	
			For 1-1/4" Mesh Fabric, Add	255.62	
			For 1-3/4" Mesh Fabric, Add	158.85	
			For 2-1/8" Mesh Fabric, Deduct	-79.42	
32 31 13	13-0295	EA	9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,187.78	59.10
			For Gate With Single Barb Wire Arm, Add	111.14	
			For Gate With Double Barb Wire Arm, Add	161.66	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-189.44	
			For Aluminized Steel Gate And Post, Add	484.98	
			For Powder Coated Gate And Post, Add	262.70	
			For 1" Mesh Fabric, Add	439.51	
			For 1-1/4" Mesh Fabric, Add	282.90	
			For 1-3/4" Mesh Fabric, Add	175.80	
			For 2-1/8" Mesh Fabric, Deduct	-87.90	
32 31 13	13-0296	EA	10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,304.82	65.56
			For Gate With Single Barb Wire Arm, Add	121.86	
			For Gate With Double Barb Wire Arm, Add	177.25	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-207.72	
			For Aluminized Steel Gate And Post, Add	531.75	
			For Powder Coated Gate And Post, Add	288.03	
			For 1" Mesh Fabric, Add	481.90	
			For 1-1/4" Mesh Fabric, Add	310.19	
			For 1-3/4" Mesh Fabric, Add	192.76	
			For 2-1/8" Mesh Fabric, Deduct	-96.38	
32 31 13	13-0297	EA	10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,760.76	65.79
			For Gate With Single Barb Wire Arm, Add	171.96	
			For Gate With Double Barb Wire Arm, Add	250.12	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-293.11	
			For Aluminized Steel Gate And Post, Add	750.36	
			For Powder Coated Gate And Post, Add	406.45	
			For 1" Mesh Fabric, Add	680.02	
			For 1-1/4" Mesh Fabric, Add	437.71	
			For 1-3/4" Mesh Fabric, Add	272.01	
			For 2-1/8" Mesh Fabric, Deduct	-136.00	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0298	EA	12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,089.83		70.85
		For Gate With Single Barb Wire Arm, Add	206.49		
		For Gate With Double Barb Wire Arm, Add	300.34		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-351.96		
		For Aluminized Steel Gate And Post, Add	901.03		
		For Powder Coated Gate And Post, Add	488.06		
		For 1" Mesh Fabric, Add	816.56		
		For 1-1/4" Mesh Fabric, Add	525.60		
		For 1-3/4" Mesh Fabric, Add	326.62		
		For 2-1/8" Mesh Fabric, Deduct	-163.31		
32 31 13 13-0299	EA	14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,421.43		76.72
		For Gate With Single Barb Wire Arm, Add	241.01		
		For Gate With Double Barb Wire Arm, Add	350.56		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-410.82		
		For Aluminized Steel Gate And Post, Add	1,051.69		
		For Powder Coated Gate And Post, Add	569.67		
		For 1" Mesh Fabric, Add	953.09		
		For 1-1/4" Mesh Fabric, Add	613.49		
		For 1-3/4" Mesh Fabric, Add	381.24		
		For 2-1/8" Mesh Fabric, Deduct	-190.62		
32 31 13 13-0300	EA	16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,789.51		94.72
		For Gate With Single Barb Wire Arm, Add	275.54		
		For Gate With Double Barb Wire Arm, Add	400.79		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-469.67		
		For Aluminized Steel Gate And Post, Add	1,202.36		
		For Powder Coated Gate And Post, Add	651.28		
		For 1" Mesh Fabric, Add	1,089.64		
		For 1-1/4" Mesh Fabric, Add	701.37		
		For 1-3/4" Mesh Fabric, Add	435.85		
		For 2-1/8" Mesh Fabric, Deduct	-217.93		
32 31 13 13-0301	EA	18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,117.56		101.52
		For Gate With Single Barb Wire Arm, Add	309.39		
		For Gate With Double Barb Wire Arm, Add	450.02		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-527.37		
		For Aluminized Steel Gate And Post, Add	1,350.06		
		For Powder Coated Gate And Post, Add	731.28		
		For 1" Mesh Fabric, Add	1,223.49		
		For 1-1/4" Mesh Fabric, Add	787.54		
		For 1-3/4" Mesh Fabric, Add	489.40		
		For 2-1/8" Mesh Fabric, Deduct	-244.70		
32 31 13 13-0302	EA	20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,461.05		109.39
		For Gate With Single Barb Wire Arm, Add	344.59		
		For Gate With Double Barb Wire Arm, Add	501.23		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-587.38		
		For Aluminized Steel Gate And Post, Add	1,503.68		
		For Powder Coated Gate And Post, Add	814.49		
		For 1" Mesh Fabric, Add	1,362.71		
		For 1-1/4" Mesh Fabric, Add	877.15		
		For 1-3/4" Mesh Fabric, Add	545.08		
		For 2-1/8" Mesh Fabric, Deduct	-272.54		
32 31 13 13-0303	EA	22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,802.29		118.47
		For Gate With Single Barb Wire Arm, Add	379.12		
		For Gate With Double Barb Wire Arm, Add	551.45		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-646.23		
		For Aluminized Steel Gate And Post, Add	1,654.34		
		For Powder Coated Gate And Post, Add	896.10		
		For 1" Mesh Fabric, Add	1,499.25		
		For 1-1/4" Mesh Fabric, Add	965.03		
		For 1-3/4" Mesh Fabric, Add	599.70		
		For 2-1/8" Mesh Fabric, Deduct	-299.85		
32 31 13 13-0304	EA	24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,142.37		129.27
		For Gate With Single Barb Wire Arm, Add	412.97		
		For Gate With Double Barb Wire Arm, Add	600.68		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-703.93		
		For Aluminized Steel Gate And Post, Add	1,802.05		
		For Powder Coated Gate And Post, Add	976.11		
		For 1" Mesh Fabric, Add	1,633.11		
		For 1-1/4" Mesh Fabric, Add	1,051.20		
		For 1-3/4" Mesh Fabric, Add	653.24		
		For 2-1/8" Mesh Fabric, Deduct	-326.62		
32 31 13 13-0305	EA	26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,501.22		142.21
		For Gate With Single Barb Wire Arm, Add	448.18		
		For Gate With Double Barb Wire Arm, Add	651.89		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-763.94		
		For Aluminized Steel Gate And Post, Add	1,955.67		
		For Powder Coated Gate And Post, Add	1,059.32		
		For 1" Mesh Fabric, Add	1,772.33		
		For 1-1/4" Mesh Fabric, Add	1,140.81		
		For 1-3/4" Mesh Fabric, Add	708.93		
		For 2-1/8" Mesh Fabric, Deduct	-354.47		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0306	EA	28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,858.65	157.95
			For Gate With Single Barb Wire Arm, Add	482.28	
			For Gate With Double Barb Wire Arm, Add	701.49	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-822.06	
			For Aluminized Steel Gate And Post, Add	2,104.47	
			For Powder Coated Gate And Post, Add	1,139.92	
			For 1" Mesh Fabric, Add	1,907.18	
			For 1-1/4" Mesh Fabric, Add	1,227.61	
			For 1-3/4" Mesh Fabric, Add	762.87	
			For 2-1/8" Mesh Fabric, Deduct	-381.44	
32 31 13	13-0307	EA	30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	5,223.39	177.70
			For Gate With Single Barb Wire Arm, Add	515.87	
			For Gate With Double Barb Wire Arm, Add	750.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-879.33	
			For Aluminized Steel Gate And Post, Add	2,251.09	
			For Powder Coated Gate And Post, Add	1,219.34	
			For 1" Mesh Fabric, Add	2,040.05	
			For 1-1/4" Mesh Fabric, Add	1,313.14	
			For 1-3/4" Mesh Fabric, Add	816.02	
			For 2-1/8" Mesh Fabric, Deduct	-408.01	
32 31 13	13-0308		6' Fence Height (32 31 13 13-0267)		
32 31 13	13-0309	EA	3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	516.75	32.84
			For Gate With Single Barb Wire Arm, Add	45.98	
			For Gate With Double Barb Wire Arm, Add	66.88	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.38	
			For Aluminized Steel Gate And Post, Add	200.64	
			For Powder Coated Gate And Post, Add	108.68	
			For 1" Mesh Fabric, Add	181.83	
			For 1-1/4" Mesh Fabric, Add	117.04	
			For 1-3/4" Mesh Fabric, Add	72.73	
			For 2-1/8" Mesh Fabric, Deduct	-36.37	
32 31 13	13-0310	EA	4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	655.22	32.84
			For Gate With Single Barb Wire Arm, Add	61.21	
			For Gate With Double Barb Wire Arm, Add	89.04	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-104.34	
			For Aluminized Steel Gate And Post, Add	267.11	
			For Powder Coated Gate And Post, Add	144.68	
			For 1" Mesh Fabric, Add	242.06	
			For 1-1/4" Mesh Fabric, Add	155.81	
			For 1-3/4" Mesh Fabric, Add	96.83	
			For 2-1/8" Mesh Fabric, Deduct	-48.41	
32 31 13	13-0311	EA	5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	767.22	34.91
			For Gate With Single Barb Wire Arm, Add	72.86	
			For Gate With Double Barb Wire Arm, Add	105.98	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-124.20	
			For Aluminized Steel Gate And Post, Add	317.94	
			For Powder Coated Gate And Post, Add	172.22	
			For 1" Mesh Fabric, Add	288.14	
			For 1-1/4" Mesh Fabric, Add	185.47	
			For 1-3/4" Mesh Fabric, Add	115.25	
			For 2-1/8" Mesh Fabric, Deduct	-57.63	
32 31 13	13-0312	EA	6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	890.92	42.16
			For Gate With Single Barb Wire Arm, Add	84.06	
			For Gate With Double Barb Wire Arm, Add	122.27	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-143.29	
			For Aluminized Steel Gate And Post, Add	366.81	
			For Powder Coated Gate And Post, Add	198.69	
			For 1" Mesh Fabric, Add	332.42	
			For 1-1/4" Mesh Fabric, Add	213.97	
			For 1-3/4" Mesh Fabric, Add	132.97	
			For 2-1/8" Mesh Fabric, Deduct	-66.48	
32 31 13	13-0313	EA	7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,020.51	49.54
			For Gate With Single Barb Wire Arm, Add	95.91	
			For Gate With Double Barb Wire Arm, Add	139.50	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-163.48	
			For Aluminized Steel Gate And Post, Add	418.51	
			For Powder Coated Gate And Post, Add	226.69	
			For 1" Mesh Fabric, Add	379.28	
			For 1-1/4" Mesh Fabric, Add	244.13	
			For 1-3/4" Mesh Fabric, Add	151.71	
			For 2-1/8" Mesh Fabric, Deduct	-75.86	
32 31 13	13-0314	EA	8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,143.81	56.45
			For Gate With Single Barb Wire Arm, Add	107.19	
			For Gate With Double Barb Wire Arm, Add	155.92	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-182.71	
			For Aluminized Steel Gate And Post, Add	467.75	
			For Powder Coated Gate And Post, Add	253.36	
			For 1" Mesh Fabric, Add	423.89	
			For 1-1/4" Mesh Fabric, Add	272.85	
			For 1-3/4" Mesh Fabric, Add	169.56	
			For 2-1/8" Mesh Fabric, Deduct	-84.78	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0315	EA	9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,268.30		63.70
		For Gate With Single Barb Wire Arm, Add	118.48		
		For Gate With Double Barb Wire Arm, Add	172.33		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-201.95		
		For Aluminized Steel Gate And Post, Add	516.98		
		For Powder Coated Gate And Post, Add	280.03		
		For 1" Mesh Fabric, Add	468.52		
		For 1-1/4" Mesh Fabric, Add	301.57		
		For 1-3/4" Mesh Fabric, Add	187.41		
		For 2-1/8" Mesh Fabric, Deduct	-93.70		
32 31 13 13-0316	EA	10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,346.58		70.97
		For Gate With Single Barb Wire Arm, Add	124.68		
		For Gate With Double Barb Wire Arm, Add	181.35		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-212.52		
		For Aluminized Steel Gate And Post, Add	544.06		
		For Powder Coated Gate And Post, Add	294.70		
		For 1" Mesh Fabric, Add	493.06		
		For 1-1/4" Mesh Fabric, Add	317.37		
		For 1-3/4" Mesh Fabric, Add	197.22		
		For 2-1/8" Mesh Fabric, Deduct	-98.61		
32 31 13 13-0317	EA	10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,880.58		70.85
		For Gate With Single Barb Wire Arm, Add	183.47		
		For Gate With Double Barb Wire Arm, Add	266.86		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-312.73		
		For Aluminized Steel Gate And Post, Add	800.59		
		For Powder Coated Gate And Post, Add	433.65		
		For 1" Mesh Fabric, Add	725.53		
		For 1-1/4" Mesh Fabric, Add	467.01		
		For 1-3/4" Mesh Fabric, Add	290.21		
		For 2-1/8" Mesh Fabric, Deduct	-145.11		
32 31 13 13-0318	EA	12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,230.64		76.72
		For Gate With Single Barb Wire Arm, Add	220.03		
		For Gate With Double Barb Wire Arm, Add	320.04		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-375.04		
		For Aluminized Steel Gate And Post, Add	960.11		
		For Powder Coated Gate And Post, Add	520.06		
		For 1" Mesh Fabric, Add	870.10		
		For 1-1/4" Mesh Fabric, Add	560.06		
		For 1-3/4" Mesh Fabric, Add	348.04		
		For 2-1/8" Mesh Fabric, Deduct	-174.02		
32 31 13 13-0319	EA	14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,643.66		101.52
		For Gate With Single Barb Wire Arm, Add	257.26		
		For Gate With Double Barb Wire Arm, Add	374.20		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-438.51		
		For Aluminized Steel Gate And Post, Add	1,122.59		
		For Powder Coated Gate And Post, Add	608.07		
		For 1" Mesh Fabric, Add	1,017.35		
		For 1-1/4" Mesh Fabric, Add	654.84		
		For 1-3/4" Mesh Fabric, Add	406.94		
		For 2-1/8" Mesh Fabric, Deduct	-203.47		
32 31 13 13-0320	EA	16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,999.46		109.39
		For Gate With Single Barb Wire Arm, Add	293.82		
		For Gate With Double Barb Wire Arm, Add	427.37		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-500.83		
		For Aluminized Steel Gate And Post, Add	1,282.12		
		For Powder Coated Gate And Post, Add	694.48		
		For 1" Mesh Fabric, Add	1,161.92		
		For 1-1/4" Mesh Fabric, Add	747.90		
		For 1-3/4" Mesh Fabric, Add	464.77		
		For 2-1/8" Mesh Fabric, Deduct	-232.38		
32 31 13 13-0321	EA	18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,365.32		118.47
		For Gate With Single Barb Wire Arm, Add	331.05		
		For Gate With Double Barb Wire Arm, Add	481.53		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-564.30		
		For Aluminized Steel Gate And Post, Add	1,444.60		
		For Powder Coated Gate And Post, Add	782.49		
		For 1" Mesh Fabric, Add	1,309.17		
		For 1-1/4" Mesh Fabric, Add	842.68		
		For 1-3/4" Mesh Fabric, Add	523.67		
		For 2-1/8" Mesh Fabric, Deduct	-261.83		
32 31 13 13-0322	EA	20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,736.17		129.27
		For Gate With Single Barb Wire Arm, Add	368.29		
		For Gate With Double Barb Wire Arm, Add	535.69		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-627.77		
		For Aluminized Steel Gate And Post, Add	1,607.08		
		For Powder Coated Gate And Post, Add	870.50		
		For 1" Mesh Fabric, Add	1,456.41		
		For 1-1/4" Mesh Fabric, Add	937.46		
		For 1-3/4" Mesh Fabric, Add	582.57		
		For 2-1/8" Mesh Fabric, Deduct	-291.28		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0323	EA	22'	Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,107.33	142.21
			For Gate With Single Barb Wire Arm, Add	404.85	
			For Gate With Double Barb Wire Arm, Add	588.87	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-690.08	
			For Aluminized Steel Gate And Post, Add	1,766.61	
			For Powder Coated Gate And Post, Add	956.91	
			For 1" Mesh Fabric, Add	1,600.99	
			For 1-1/4" Mesh Fabric, Add	1,030.52	
			For 1-3/4" Mesh Fabric, Add	640.39	
			For 2-1/8" Mesh Fabric, Deduct	-320.20	
32 31 13 13-0324	EA	24'	Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,490.18	157.95
			For Gate With Single Barb Wire Arm, Add	441.74	
			For Gate With Double Barb Wire Arm, Add	642.54	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-752.97	
			For Aluminized Steel Gate And Post, Add	1,927.61	
			For Powder Coated Gate And Post, Add	1,044.12	
			For 1" Mesh Fabric, Add	1,746.89	
			For 1-1/4" Mesh Fabric, Add	1,124.44	
			For 1-3/4" Mesh Fabric, Add	698.76	
			For 2-1/8" Mesh Fabric, Deduct	-349.38	
32 31 13 13-0325	EA	26'	Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,881.20	177.70
			For Gate With Single Barb Wire Arm, Add	478.23	
			For Gate With Double Barb Wire Arm, Add	695.61	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-815.17	
			For Aluminized Steel Gate And Post, Add	2,086.84	
			For Powder Coated Gate And Post, Add	1,130.37	
			For 1" Mesh Fabric, Add	1,891.20	
			For 1-1/4" Mesh Fabric, Add	1,217.32	
			For 1-3/4" Mesh Fabric, Add	756.48	
			For 2-1/8" Mesh Fabric, Deduct	-378.24	
32 31 13 13-0326	EA	28'	Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	5,293.47	203.04
			For Gate With Single Barb Wire Arm, Add	515.20	
			For Gate With Double Barb Wire Arm, Add	749.38	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-878.18	
			For Aluminized Steel Gate And Post, Add	2,248.14	
			For Powder Coated Gate And Post, Add	1,217.74	
			For 1" Mesh Fabric, Add	2,037.37	
			For 1-1/4" Mesh Fabric, Add	1,311.41	
			For 1-3/4" Mesh Fabric, Add	814.95	
			For 2-1/8" Mesh Fabric, Deduct	-407.47	
32 31 13 13-0327	EA	30'	Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	5,731.76	236.93
			For Gate With Single Barb Wire Arm, Add	552.23	
			For Gate With Double Barb Wire Arm, Add	803.24	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-941.30	
			For Aluminized Steel Gate And Post, Add	2,409.73	
			For Powder Coated Gate And Post, Add	1,305.27	
			For 1" Mesh Fabric, Add	2,183.62	
			For 1-1/4" Mesh Fabric, Add	1,405.68	
			For 1-3/4" Mesh Fabric, Add	873.53	
			For 2-1/8" Mesh Fabric, Deduct	-436.76	
32 31 13 13-0328			7' Fence Height (32 31 13 13-0267)		
32 31 13 13-0329	EA	3'	Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	542.29	35.36
			For Gate With Single Barb Wire Arm, Add	47.95	
			For Gate With Double Barb Wire Arm, Add	69.75	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.74	
			For Aluminized Steel Gate And Post, Add	209.26	
			For Powder Coated Gate And Post, Add	113.35	
			For 1" Mesh Fabric, Add	189.64	
			For 1-1/4" Mesh Fabric, Add	122.07	
			For 1-3/4" Mesh Fabric, Add	75.86	
			For 2-1/8" Mesh Fabric, Deduct	-37.93	
32 31 13 13-0330	EA	4'	Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	685.89	35.36
			For Gate With Single Barb Wire Arm, Add	63.75	
			For Gate With Double Barb Wire Arm, Add	92.73	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-108.67	
			For Aluminized Steel Gate And Post, Add	278.18	
			For Powder Coated Gate And Post, Add	150.68	
			For 1" Mesh Fabric, Add	252.10	
			For 1-1/4" Mesh Fabric, Add	162.27	
			For 1-3/4" Mesh Fabric, Add	100.84	
			For 2-1/8" Mesh Fabric, Deduct	-50.42	
32 31 13 13-0331	EA	5'	Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	807.62	37.21
			For Gate With Single Barb Wire Arm, Add	76.55	
			For Gate With Double Barb Wire Arm, Add	111.34	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-130.48	
			For Aluminized Steel Gate And Post, Add	334.02	
			For Powder Coated Gate And Post, Add	180.93	
			For 1" Mesh Fabric, Add	302.71	
			For 1-1/4" Mesh Fabric, Add	194.85	
			For 1-3/4" Mesh Fabric, Add	121.08	
			For 2-1/8" Mesh Fabric, Deduct	-60.54	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0332	EA	6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	989.78		45.27
		For Gate With Single Barb Wire Arm, Add	93.92		
		For Gate With Double Barb Wire Arm, Add	136.61		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-160.10		
		For Aluminized Steel Gate And Post, Add	409.84		
		For Powder Coated Gate And Post, Add	222.00		
		For 1" Mesh Fabric, Add	371.42		
		For 1-1/4" Mesh Fabric, Add	239.08		
		For 1-3/4" Mesh Fabric, Add	148.57		
		For 2-1/8" Mesh Fabric, Deduct	-74.28		
32 31 13 13-0333	EA	7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,170.84		52.99
		For Gate With Single Barb Wire Arm, Add	111.30		
		For Gate With Double Barb Wire Arm, Add	161.90		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-189.72		
		For Aluminized Steel Gate And Post, Add	485.69		
		For Powder Coated Gate And Post, Add	263.08		
		For 1" Mesh Fabric, Add	440.16		
		For 1-1/4" Mesh Fabric, Add	283.32		
		For 1-3/4" Mesh Fabric, Add	176.06		
		For 2-1/8" Mesh Fabric, Deduct	-88.03		
32 31 13 13-0334	EA	8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,353.01		60.95
		For Gate With Single Barb Wire Arm, Add	128.68		
		For Gate With Double Barb Wire Arm, Add	187.17		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-219.34		
		For Aluminized Steel Gate And Post, Add	561.52		
		For Powder Coated Gate And Post, Add	304.16		
		For 1" Mesh Fabric, Add	508.88		
		For 1-1/4" Mesh Fabric, Add	327.55		
		For 1-3/4" Mesh Fabric, Add	203.55		
		For 2-1/8" Mesh Fabric, Deduct	-101.78		
32 31 13 13-0335	EA	9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,534.06		68.66
		For Gate With Single Barb Wire Arm, Add	146.06		
		For Gate With Double Barb Wire Arm, Add	212.46		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-248.97		
		For Aluminized Steel Gate And Post, Add	637.37		
		For Powder Coated Gate And Post, Add	345.24		
		For 1" Mesh Fabric, Add	577.61		
		For 1-1/4" Mesh Fabric, Add	371.80		
		For 1-3/4" Mesh Fabric, Add	231.05		
		For 2-1/8" Mesh Fabric, Deduct	-115.52		
32 31 13 13-0336	EA	10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,687.76		76.72
		For Gate With Single Barb Wire Arm, Add	160.31		
		For Gate With Double Barb Wire Arm, Add	233.18		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-273.25		
		For Aluminized Steel Gate And Post, Add	699.53		
		For Powder Coated Gate And Post, Add	378.91		
		For 1" Mesh Fabric, Add	633.95		
		For 1-1/4" Mesh Fabric, Add	408.06		
		For 1-3/4" Mesh Fabric, Add	253.58		
		For 2-1/8" Mesh Fabric, Deduct	-126.79		
32 31 13 13-0337	EA	10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,143.36		76.72
		For Gate With Single Barb Wire Arm, Add	210.42		
		For Gate With Double Barb Wire Arm, Add	306.07		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-358.68		
		For Aluminized Steel Gate And Post, Add	918.22		
		For Powder Coated Gate And Post, Add	497.37		
		For 1" Mesh Fabric, Add	832.13		
		For 1-1/4" Mesh Fabric, Add	535.63		
		For 1-3/4" Mesh Fabric, Add	332.85		
		For 2-1/8" Mesh Fabric, Deduct	-166.43		
32 31 13 13-0338	EA	12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,431.98		101.52
		For Gate With Single Barb Wire Arm, Add	233.98		
		For Gate With Double Barb Wire Arm, Add	340.33		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-398.82		
		For Aluminized Steel Gate And Post, Add	1,020.98		
		For Powder Coated Gate And Post, Add	553.03		
		For 1" Mesh Fabric, Add	925.27		
		For 1-1/4" Mesh Fabric, Add	595.57		
		For 1-3/4" Mesh Fabric, Add	370.11		
		For 2-1/8" Mesh Fabric, Deduct	-185.05		
32 31 13 13-0339	EA	14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,809.94		109.39
		For Gate With Single Barb Wire Arm, Add	272.97		
		For Gate With Double Barb Wire Arm, Add	397.05		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-465.29		
		For Aluminized Steel Gate And Post, Add	1,191.15		
		For Powder Coated Gate And Post, Add	645.21		
		For 1" Mesh Fabric, Add	1,079.48		
		For 1-1/4" Mesh Fabric, Add	694.84		
		For 1-3/4" Mesh Fabric, Add	431.79		
		For 2-1/8" Mesh Fabric, Deduct	-215.90		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0340	EA	16'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,162.22	118.47
			For Gate With Single Barb Wire Arm, Add	308.71	
			For Gate With Double Barb Wire Arm, Add	449.04	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-526.22	
			For Aluminized Steel Gate And Post, Add	1,347.11	
			For Powder Coated Gate And Post, Add	729.68	
			For 1" Mesh Fabric, Add	1,220.82	
			For 1-1/4" Mesh Fabric, Add	785.81	
			For 1-3/4" Mesh Fabric, Add	488.33	
			For 2-1/8" Mesh Fabric, Deduct	-244.16	
32 31 13 13-0341	EA	18'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,551.53	129.27
			For Gate With Single Barb Wire Arm, Add	347.98	
			For Gate With Double Barb Wire Arm, Add	506.15	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-593.15	
			For Aluminized Steel Gate And Post, Add	1,518.45	
			For Powder Coated Gate And Post, Add	822.49	
			For 1" Mesh Fabric, Add	1,376.10	
			For 1-1/4" Mesh Fabric, Add	885.76	
			For 1-3/4" Mesh Fabric, Add	550.44	
			For 2-1/8" Mesh Fabric, Deduct	-275.22	
32 31 13 13-0342	EA	20'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,941.15	142.21
			For Gate With Single Barb Wire Arm, Add	386.57	
			For Gate With Double Barb Wire Arm, Add	562.28	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-658.92	
			For Aluminized Steel Gate And Post, Add	1,686.84	
			For Powder Coated Gate And Post, Add	913.71	
			For 1" Mesh Fabric, Add	1,528.70	
			For 1-1/4" Mesh Fabric, Add	983.99	
			For 1-3/4" Mesh Fabric, Add	611.48	
			For 2-1/8" Mesh Fabric, Deduct	-305.74	
32 31 13 13-0343	EA	22'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,339.39	157.95
			For Gate With Single Barb Wire Arm, Add	425.16	
			For Gate With Double Barb Wire Arm, Add	618.41	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-724.70	
			For Aluminized Steel Gate And Post, Add	1,855.23	
			For Powder Coated Gate And Post, Add	1,004.92	
			For 1" Mesh Fabric, Add	1,681.30	
			For 1-1/4" Mesh Fabric, Add	1,082.22	
			For 1-3/4" Mesh Fabric, Add	672.52	
			For 2-1/8" Mesh Fabric, Deduct	-336.26	
32 31 13 13-0344	EA	24'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,749.49	177.70
			For Gate With Single Barb Wire Arm, Add	463.75	
			For Gate With Double Barb Wire Arm, Add	674.54	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-790.48	
			For Aluminized Steel Gate And Post, Add	2,023.62	
			For Powder Coated Gate And Post, Add	1,096.13	
			For 1" Mesh Fabric, Add	1,833.90	
			For 1-1/4" Mesh Fabric, Add	1,180.44	
			For 1-3/4" Mesh Fabric, Add	733.56	
			For 2-1/8" Mesh Fabric, Deduct	-366.78	
32 31 13 13-0345	EA	26'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	5,176.53	203.04
			For Gate With Single Barb Wire Arm, Add	502.33	
			For Gate With Double Barb Wire Arm, Add	730.67	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-856.25	
			For Aluminized Steel Gate And Post, Add	2,192.01	
			For Powder Coated Gate And Post, Add	1,187.34	
			For 1" Mesh Fabric, Add	1,986.51	
			For 1-1/4" Mesh Fabric, Add	1,278.67	
			For 1-3/4" Mesh Fabric, Add	794.60	
			For 2-1/8" Mesh Fabric, Deduct	-397.30	
32 31 13 13-0346	EA	28'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	5,628.98	236.93
			For Gate With Single Barb Wire Arm, Add	540.92	
			For Gate With Double Barb Wire Arm, Add	786.80	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-922.03	
			For Aluminized Steel Gate And Post, Add	2,360.40	
			For Powder Coated Gate And Post, Add	1,278.55	
			For 1" Mesh Fabric, Add	2,139.11	
			For 1-1/4" Mesh Fabric, Add	1,376.90	
			For 1-3/4" Mesh Fabric, Add	855.64	
			For 2-1/8" Mesh Fabric, Deduct	-427.82	
32 31 13 13-0347	EA	30'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	6,122.09	284.28
			For Gate With Single Barb Wire Arm, Add	579.51	
			For Gate With Double Barb Wire Arm, Add	842.93	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-987.81	
			For Aluminized Steel Gate And Post, Add	2,528.78	
			For Powder Coated Gate And Post, Add	1,369.76	
			For 1" Mesh Fabric, Add	2,291.71	
			For 1-1/4" Mesh Fabric, Add	1,475.12	
			For 1-3/4" Mesh Fabric, Add	916.68	
			For 2-1/8" Mesh Fabric, Deduct	-458.34	

32 31 13 13-0348 8' Fence Height (32 31 13 13-0267)

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0349	EA	3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	635.86		38.36
		For Gate With Single Barb Wire Arm, Add	57.27		
		For Gate With Double Barb Wire Arm, Add	83.30		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-97.62		
		For Aluminized Steel Gate And Post, Add	249.91		
		For Powder Coated Gate And Post, Add	135.37		
		For 1" Mesh Fabric, Add	226.48		
		For 1-1/4" Mesh Fabric, Add	145.78		
		For 1-3/4" Mesh Fabric, Add	90.59		
		For 2-1/8" Mesh Fabric, Deduct	-45.30		
32 31 13 13-0350	EA	4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	809.41		38.36
		For Gate With Single Barb Wire Arm, Add	76.36		
		For Gate With Double Barb Wire Arm, Add	111.07		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-130.16		
		For Aluminized Steel Gate And Post, Add	333.22		
		For Powder Coated Gate And Post, Add	180.49		
		For 1" Mesh Fabric, Add	301.98		
		For 1-1/4" Mesh Fabric, Add	194.38		
		For 1-3/4" Mesh Fabric, Add	120.79		
		For 2-1/8" Mesh Fabric, Deduct	-60.40		
32 31 13 13-0351	EA	5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	944.91		42.74
		For Gate With Single Barb Wire Arm, Add	89.81		
		For Gate With Double Barb Wire Arm, Add	130.63		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-153.08		
		For Aluminized Steel Gate And Post, Add	391.90		
		For Powder Coated Gate And Post, Add	212.28		
		For 1" Mesh Fabric, Add	355.16		
		For 1-1/4" Mesh Fabric, Add	228.61		
		For 1-3/4" Mesh Fabric, Add	142.06		
		For 2-1/8" Mesh Fabric, Deduct	-71.03		
32 31 13 13-0352	EA	6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,083.88		48.38
		For Gate With Single Barb Wire Arm, Add	103.26		
		For Gate With Double Barb Wire Arm, Add	150.20		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-176.01		
		For Aluminized Steel Gate And Post, Add	450.59		
		For Powder Coated Gate And Post, Add	244.07		
		For 1" Mesh Fabric, Add	408.34		
		For 1-1/4" Mesh Fabric, Add	262.84		
		For 1-3/4" Mesh Fabric, Add	163.34		
		For 2-1/8" Mesh Fabric, Deduct	-81.67		
32 31 13 13-0353	EA	7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,236.10		58.29
		For Gate With Single Barb Wire Arm, Add	116.71		
		For Gate With Double Barb Wire Arm, Add	169.76		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-198.94		
		For Aluminized Steel Gate And Post, Add	509.28		
		For Powder Coated Gate And Post, Add	275.86		
		For 1" Mesh Fabric, Add	461.53		
		For 1-1/4" Mesh Fabric, Add	297.08		
		For 1-3/4" Mesh Fabric, Add	184.61		
		For 2-1/8" Mesh Fabric, Deduct	-92.31		
32 31 13 13-0354	EA	8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,387.18		67.86
		For Gate With Single Barb Wire Arm, Add	130.16		
		For Gate With Double Barb Wire Arm, Add	189.32		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-221.86		
		For Aluminized Steel Gate And Post, Add	567.97		
		For Powder Coated Gate And Post, Add	307.65		
		For 1" Mesh Fabric, Add	514.72		
		For 1-1/4" Mesh Fabric, Add	331.32		
		For 1-3/4" Mesh Fabric, Add	205.89		
		For 2-1/8" Mesh Fabric, Deduct	-102.94		
32 31 13 13-0355	EA	9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,539.41		77.88
		For Gate With Single Barb Wire Arm, Add	143.61		
		For Gate With Double Barb Wire Arm, Add	208.89		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-244.79		
		For Aluminized Steel Gate And Post, Add	626.66		
		For Powder Coated Gate And Post, Add	339.44		
		For 1" Mesh Fabric, Add	567.91		
		For 1-1/4" Mesh Fabric, Add	365.55		
		For 1-3/4" Mesh Fabric, Add	227.16		
		For 2-1/8" Mesh Fabric, Deduct	-113.58		
32 31 13 13-0356	EA	10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,691.62		87.90
		For Gate With Single Barb Wire Arm, Add	157.06		
		For Gate With Double Barb Wire Arm, Add	228.45		
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-267.71		
		For Aluminized Steel Gate And Post, Add	685.35		
		For Powder Coated Gate And Post, Add	371.23		
		For 1" Mesh Fabric, Add	621.10		
		For 1-1/4" Mesh Fabric, Add	399.79		
		For 1-3/4" Mesh Fabric, Add	248.44		
		For 2-1/8" Mesh Fabric, Deduct	-124.22		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0357	EA	10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,446.67	101.52
			For Gate With Single Barb Wire Arm, Add	235.59	
			For Gate With Double Barb Wire Arm, Add	342.68	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-401.58	
			For Aluminized Steel Gate And Post, Add	1,028.04	
			For Powder Coated Gate And Post, Add	556.85	
			For 1" Mesh Fabric, Add	931.66	
			For 1-1/4" Mesh Fabric, Add	599.69	
			For 1-3/4" Mesh Fabric, Add	372.66	
			For 2-1/8" Mesh Fabric, Deduct	-186.33	
32 31 13	13-0358	EA	12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,882.52	109.39
			For Gate With Single Barb Wire Arm, Add	280.96	
			For Gate With Double Barb Wire Arm, Add	408.66	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-478.90	
			For Aluminized Steel Gate And Post, Add	1,225.99	
			For Powder Coated Gate And Post, Add	664.08	
			For 1" Mesh Fabric, Add	1,111.05	
			For 1-1/4" Mesh Fabric, Add	715.16	
			For 1-3/4" Mesh Fabric, Add	444.42	
			For 2-1/8" Mesh Fabric, Deduct	-222.21	
32 31 13	13-0359	EA	14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,328.39	118.47
			For Gate With Single Barb Wire Arm, Add	326.99	
			For Gate With Double Barb Wire Arm, Add	475.62	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-557.37	
			For Aluminized Steel Gate And Post, Add	1,426.87	
			For Powder Coated Gate And Post, Add	772.89	
			For 1" Mesh Fabric, Add	1,293.10	
			For 1-1/4" Mesh Fabric, Add	832.34	
			For 1-3/4" Mesh Fabric, Add	517.24	
			For 2-1/8" Mesh Fabric, Deduct	-258.62	
32 31 13	13-0360	EA	16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,791.56	129.27
			For Gate With Single Barb Wire Arm, Add	374.38	
			For Gate With Double Barb Wire Arm, Add	544.56	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-638.15	
			For Aluminized Steel Gate And Post, Add	1,633.67	
			For Powder Coated Gate And Post, Add	884.90	
			For 1" Mesh Fabric, Add	1,480.51	
			For 1-1/4" Mesh Fabric, Add	952.97	
			For 1-3/4" Mesh Fabric, Add	592.20	
			For 2-1/8" Mesh Fabric, Deduct	-296.10	
32 31 13	13-0361	EA	18 Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	4,261.19	142.21
			For Gate With Single Barb Wire Arm, Add	421.77	
			For Gate With Double Barb Wire Arm, Add	613.49	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-718.93	
			For Aluminized Steel Gate And Post, Add	1,840.46	
			For Powder Coated Gate And Post, Add	996.92	
			For 1" Mesh Fabric, Add	1,667.92	
			For 1-1/4" Mesh Fabric, Add	1,073.60	
			For 1-3/4" Mesh Fabric, Add	667.17	
			For 2-1/8" Mesh Fabric, Deduct	-333.58	
32 31 13	13-0362	EA	20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,733.29	157.95
			For Gate With Single Barb Wire Arm, Add	468.49	
			For Gate With Double Barb Wire Arm, Add	681.43	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-798.56	
			For Aluminized Steel Gate And Post, Add	2,044.30	
			For Powder Coated Gate And Post, Add	1,107.33	
			For 1" Mesh Fabric, Add	1,852.65	
			For 1-1/4" Mesh Fabric, Add	1,192.51	
			For 1-3/4" Mesh Fabric, Add	741.06	
			For 2-1/8" Mesh Fabric, Deduct	-370.53	
32 31 13	13-0363	EA	22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,211.09	177.70
			For Gate With Single Barb Wire Arm, Add	514.52	
			For Gate With Double Barb Wire Arm, Add	748.40	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-877.03	
			For Aluminized Steel Gate And Post, Add	2,245.19	
			For Powder Coated Gate And Post, Add	1,216.14	
			For 1" Mesh Fabric, Add	2,034.70	
			For 1-1/4" Mesh Fabric, Add	1,309.69	
			For 1-3/4" Mesh Fabric, Add	813.88	
			For 2-1/8" Mesh Fabric, Deduct	-406.94	
32 31 13	13-0364	EA	24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,718.13	203.04
			For Gate With Single Barb Wire Arm, Add	561.91	
			For Gate With Double Barb Wire Arm, Add	817.32	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-957.80	
			For Aluminized Steel Gate And Post, Add	2,451.97	
			For Powder Coated Gate And Post, Add	1,328.15	
			For 1" Mesh Fabric, Add	2,222.10	
			For 1-1/4" Mesh Fabric, Add	1,430.32	
			For 1-3/4" Mesh Fabric, Add	888.84	
			For 2-1/8" Mesh Fabric, Deduct	-444.42	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0365	EA	26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	6,250.59	236.93
			For Gate With Single Barb Wire Arm, Add	609.30	
			For Gate With Double Barb Wire Arm, Add	886.26	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,038.58	
			For Aluminized Steel Gate And Post, Add	2,658.77	
			For Powder Coated Gate And Post, Add	1,440.17	
			For 1" Mesh Fabric, Add	2,409.51	
			For 1-1/4" Mesh Fabric, Add	1,550.95	
			For 1-3/4" Mesh Fabric, Add	963.80	
			For 2-1/8" Mesh Fabric, Deduct	-481.90	
32 31 13	13-0366	EA	28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	6,817.56	284.28
			For Gate With Single Barb Wire Arm, Add	656.01	
			For Gate With Double Barb Wire Arm, Add	954.20	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,118.21	
			For Aluminized Steel Gate And Post, Add	2,862.61	
			For Powder Coated Gate And Post, Add	1,550.58	
			For 1" Mesh Fabric, Add	2,594.24	
			For 1-1/4" Mesh Fabric, Add	1,669.86	
			For 1-3/4" Mesh Fabric, Add	1,037.70	
			For 2-1/8" Mesh Fabric, Deduct	-518.85	
32 31 13	13-0367	EA	30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	7,455.67	355.39
			For Gate With Single Barb Wire Arm, Add	702.73	
			For Gate With Double Barb Wire Arm, Add	1,022.15	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,197.83	
			For Aluminized Steel Gate And Post, Add	3,066.45	
			For Powder Coated Gate And Post, Add	1,660.99	
			For 1" Mesh Fabric, Add	2,778.97	
			For 1-1/4" Mesh Fabric, Add	1,788.76	
			For 1-3/4" Mesh Fabric, Add	1,111.59	
			For 2-1/8" Mesh Fabric, Deduct	-555.79	
32 31 13	13-0368		10' Fence Height (32 31 13 13-0267)		
32 31 13	13-0369	EA	3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	801.27	42.63
			For Gate With Single Barb Wire Arm, Add	74.06	
			For Gate With Double Barb Wire Arm, Add	107.72	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-126.24	
			For Aluminized Steel Gate And Post, Add	323.17	
			For Powder Coated Gate And Post, Add	175.05	
			For 1" Mesh Fabric, Add	292.87	
			For 1-1/4" Mesh Fabric, Add	188.52	
			For 1-3/4" Mesh Fabric, Add	117.15	
			For 2-1/8" Mesh Fabric, Deduct	-58.57	
32 31 13	13-0370	EA	4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,025.69	42.63
			For Gate With Single Barb Wire Arm, Add	98.75	
			For Gate With Double Barb Wire Arm, Add	143.63	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-168.32	
			For Aluminized Steel Gate And Post, Add	430.89	
			For Powder Coated Gate And Post, Add	233.40	
			For 1" Mesh Fabric, Add	390.50	
			For 1-1/4" Mesh Fabric, Add	251.35	
			For 1-3/4" Mesh Fabric, Add	156.20	
			For 2-1/8" Mesh Fabric, Deduct	-78.10	
32 31 13	13-0371	EA	5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,189.45	44.47
			For Gate With Single Barb Wire Arm, Add	116.14	
			For Gate With Double Barb Wire Arm, Add	168.93	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-197.96	
			For Aluminized Steel Gate And Post, Add	506.79	
			For Powder Coated Gate And Post, Add	274.51	
			For 1" Mesh Fabric, Add	459.28	
			For 1-1/4" Mesh Fabric, Add	295.63	
			For 1-3/4" Mesh Fabric, Add	183.71	
			For 2-1/8" Mesh Fabric, Deduct	-91.86	
32 31 13	13-0372	EA	6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,379.83	55.29
			For Gate With Single Barb Wire Arm, Add	133.53	
			For Gate With Double Barb Wire Arm, Add	194.23	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-227.61	
			For Aluminized Steel Gate And Post, Add	582.69	
			For Powder Coated Gate And Post, Add	315.62	
			For 1" Mesh Fabric, Add	528.06	
			For 1-1/4" Mesh Fabric, Add	339.90	
			For 1-3/4" Mesh Fabric, Add	211.23	
			For 2-1/8" Mesh Fabric, Deduct	-105.61	
32 31 13	13-0373	EA	7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,569.51	65.56
			For Gate With Single Barb Wire Arm, Add	150.92	
			For Gate With Double Barb Wire Arm, Add	219.52	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-257.25	
			For Aluminized Steel Gate And Post, Add	658.56	
			For Powder Coated Gate And Post, Add	356.72	
			For 1" Mesh Fabric, Add	596.82	
			For 1-1/4" Mesh Fabric, Add	384.16	
			For 1-3/4" Mesh Fabric, Add	238.73	
			For 2-1/8" Mesh Fabric, Deduct	-119.36	



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0374	EA	8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,759.38	76.38
			For Gate With Single Barb Wire Arm, Add	168.31	
			For Gate With Double Barb Wire Arm, Add	244.62	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-286.90	
			For Aluminized Steel Gate And Post, Add	734.46	
			For Powder Coated Gate And Post, Add	397.83	
			For 1" Mesh Fabric, Add	665.61	
			For 1-1/4" Mesh Fabric, Add	428.44	
			For 1-3/4" Mesh Fabric, Add	266.24	
			For 2-1/8" Mesh Fabric, Deduct	-133.12	
32 31 13	13-0375	EA	9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,948.60	86.75
			For Gate With Single Barb Wire Arm, Add	185.71	
			For Gate With Double Barb Wire Arm, Add	270.12	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-316.55	
			For Aluminized Steel Gate And Post, Add	810.36	
			For Powder Coated Gate And Post, Add	438.95	
			For 1" Mesh Fabric, Add	734.39	
			For 1-1/4" Mesh Fabric, Add	472.71	
			For 1-3/4" Mesh Fabric, Add	293.76	
			For 2-1/8" Mesh Fabric, Deduct	-146.88	
32 31 13	13-0376	EA	10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	2,139.00	97.47
			For Gate With Single Barb Wire Arm, Add	203.10	
			For Gate With Double Barb Wire Arm, Add	295.42	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-346.19	
			For Aluminized Steel Gate And Post, Add	886.26	
			For Powder Coated Gate And Post, Add	480.06	
			For 1" Mesh Fabric, Add	803.17	
			For 1-1/4" Mesh Fabric, Add	516.98	
			For 1-3/4" Mesh Fabric, Add	321.27	
			For 2-1/8" Mesh Fabric, Deduct	-160.63	
32 31 13	13-0377	EA	10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,108.33	112.86
			For Gate With Single Barb Wire Arm, Add	304.65	
			For Gate With Double Barb Wire Arm, Add	443.12	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-519.29	
			For Aluminized Steel Gate And Post, Add	1,329.37	
			For Powder Coated Gate And Post, Add	720.08	
			For 1" Mesh Fabric, Add	1,204.75	
			For 1-1/4" Mesh Fabric, Add	775.47	
			For 1-3/4" Mesh Fabric, Add	481.90	
			For 2-1/8" Mesh Fabric, Deduct	-240.95	
32 31 13	13-0378	EA	12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,380.53	121.39
			For Gate With Single Barb Wire Arm, Add	331.74	
			For Gate With Double Barb Wire Arm, Add	482.52	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-565.46	
			For Aluminized Steel Gate And Post, Add	1,447.57	
			For Powder Coated Gate And Post, Add	784.10	
			For 1" Mesh Fabric, Add	1,311.66	
			For 1-1/4" Mesh Fabric, Add	844.42	
			For 1-3/4" Mesh Fabric, Add	524.75	
			For 2-1/8" Mesh Fabric, Deduct	-262.37	
32 31 13	13-0379	EA	14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,854.13	131.67
			For Gate With Single Barb Wire Arm, Add	380.47	
			For Gate With Double Barb Wire Arm, Add	553.42	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-648.54	
			For Aluminized Steel Gate And Post, Add	1,660.25	
			For Powder Coated Gate And Post, Add	899.30	
			For 1" Mesh Fabric, Add	1,504.60	
			For 1-1/4" Mesh Fabric, Add	968.48	
			For 1-3/4" Mesh Fabric, Add	601.84	
			For 2-1/8" Mesh Fabric, Deduct	-300.92	
32 31 13	13-0380	EA	16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,382.27	143.54
			For Gate With Single Barb Wire Arm, Add	434.64	
			For Gate With Double Barb Wire Arm, Add	632.20	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-740.86	
			For Aluminized Steel Gate And Post, Add	1,896.59	
			For Powder Coated Gate And Post, Add	1,027.32	
			For 1" Mesh Fabric, Add	1,718.79	
			For 1-1/4" Mesh Fabric, Add	1,106.34	
			For 1-3/4" Mesh Fabric, Add	687.51	
			For 2-1/8" Mesh Fabric, Deduct	-343.76	
32 31 13	13-0381	EA	18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,917.92	157.95
			For Gate With Single Barb Wire Arm, Add	488.79	
			For Gate With Double Barb Wire Arm, Add	710.97	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-833.17	
			For Aluminized Steel Gate And Post, Add	2,132.92	
			For Powder Coated Gate And Post, Add	1,155.33	
			For 1" Mesh Fabric, Add	1,932.96	
			For 1-1/4" Mesh Fabric, Add	1,244.21	
			For 1-3/4" Mesh Fabric, Add	773.18	
			For 2-1/8" Mesh Fabric, Deduct	-386.59	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0382	EA		20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,465.80	175.43
			For Gate With Single Barb Wire Arm, Add	543.29	
			For Gate With Double Barb Wire Arm, Add	790.24	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-926.07	
			For Aluminized Steel Gate And Post, Add	2,370.73	
			For Powder Coated Gate And Post, Add	1,284.15	
			For 1" Mesh Fabric, Add	2,148.48	
			For 1-1/4" Mesh Fabric, Add	1,382.93	
			For 1-3/4" Mesh Fabric, Add	859.39	
			For 2-1/8" Mesh Fabric, Deduct	-429.70	
32 31 13 13-0383	EA		22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,027.39	197.44
			For Gate With Single Barb Wire Arm, Add	597.79	
			For Gate With Double Barb Wire Arm, Add	869.52	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,018.97	
			For Aluminized Steel Gate And Post, Add	2,608.55	
			For Powder Coated Gate And Post, Add	1,412.96	
			For 1" Mesh Fabric, Add	2,364.00	
			For 1-1/4" Mesh Fabric, Add	1,521.65	
			For 1-3/4" Mesh Fabric, Add	945.60	
			For 2-1/8" Mesh Fabric, Deduct	-472.80	
32 31 13 13-0384	EA		24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,604.02	225.45
			For Gate With Single Barb Wire Arm, Add	651.95	
			For Gate With Double Barb Wire Arm, Add	948.29	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,111.28	
			For Aluminized Steel Gate And Post, Add	2,844.88	
			For Powder Coated Gate And Post, Add	1,540.98	
			For 1" Mesh Fabric, Add	2,578.18	
			For 1-1/4" Mesh Fabric, Add	1,659.52	
			For 1-3/4" Mesh Fabric, Add	1,031.27	
			For 2-1/8" Mesh Fabric, Deduct	-515.64	
32 31 13 13-0385	EA		26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	7,209.75	263.21
			For Gate With Single Barb Wire Arm, Add	706.11	
			For Gate With Double Barb Wire Arm, Add	1,027.07	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,203.60	
			For Aluminized Steel Gate And Post, Add	3,081.22	
			For Powder Coated Gate And Post, Add	1,668.99	
			For 1" Mesh Fabric, Add	2,792.36	
			For 1-1/4" Mesh Fabric, Add	1,797.38	
			For 1-3/4" Mesh Fabric, Add	1,116.94	
			For 2-1/8" Mesh Fabric, Deduct	-558.47	
32 31 13 13-0386	EA		28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	7,859.38	315.64
			For Gate With Single Barb Wire Arm, Add	760.27	
			For Gate With Double Barb Wire Arm, Add	1,105.85	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,295.92	
			For Aluminized Steel Gate And Post, Add	3,317.55	
			For Powder Coated Gate And Post, Add	1,797.01	
			For 1" Mesh Fabric, Add	3,006.53	
			For 1-1/4" Mesh Fabric, Add	1,935.24	
			For 1-3/4" Mesh Fabric, Add	1,202.61	
			For 2-1/8" Mesh Fabric, Deduct	-601.31	
32 31 13 13-0387	EA		30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	8,595.90	394.88
			For Gate With Single Barb Wire Arm, Add	815.11	
			For Gate With Double Barb Wire Arm, Add	1,185.61	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,389.39	
			For Aluminized Steel Gate And Post, Add	3,556.84	
			For Powder Coated Gate And Post, Add	1,926.62	
			For 1" Mesh Fabric, Add	3,223.39	
			For 1-1/4" Mesh Fabric, Add	2,074.83	
			For 1-3/4" Mesh Fabric, Add	1,289.36	
			For 2-1/8" Mesh Fabric, Deduct	-644.68	
32 31 13 13-0388			12' Fence Height (32 31 13 13-0267)		
32 31 13 13-0389	EA		3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,004.01	47.35
			For Gate With Single Barb Wire Arm, Add	94.80	
			For Gate With Double Barb Wire Arm, Add	137.89	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.59	
			For Aluminized Steel Gate And Post, Add	413.66	
			For Powder Coated Gate And Post, Add	224.07	
			For 1" Mesh Fabric, Add	374.88	
			For 1-1/4" Mesh Fabric, Add	241.30	
			For 1-3/4" Mesh Fabric, Add	149.95	
			For 2-1/8" Mesh Fabric, Deduct	-74.98	
32 31 13 13-0390	EA		4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,291.25	47.35
			For Gate With Single Barb Wire Arm, Add	126.39	
			For Gate With Double Barb Wire Arm, Add	183.84	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-215.44	
			For Aluminized Steel Gate And Post, Add	551.53	
			For Powder Coated Gate And Post, Add	298.75	
			For 1" Mesh Fabric, Add	499.83	
			For 1-1/4" Mesh Fabric, Add	321.73	
			For 1-3/4" Mesh Fabric, Add	199.93	
			For 2-1/8" Mesh Fabric, Deduct	-99.97	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0391	EA	5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,498.90	49.08
			For Gate With Single Barb Wire Arm, Add	148.66	
			For Gate With Double Barb Wire Arm, Add	216.23	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-253.40	
			For Aluminized Steel Gate And Post, Add	648.69	
			For Powder Coated Gate And Post, Add	351.37	
			For 1" Mesh Fabric, Add	587.88	
			For 1-1/4" Mesh Fabric, Add	378.40	
			For 1-3/4" Mesh Fabric, Add	235.15	
			For 2-1/8" Mesh Fabric, Deduct	-117.58	
32 31 13	13-0392	EA	6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,737.00	60.95
			For Gate With Single Barb Wire Arm, Add	170.92	
			For Gate With Double Barb Wire Arm, Add	248.61	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-291.34	
			For Aluminized Steel Gate And Post, Add	745.83	
			For Powder Coated Gate And Post, Add	403.99	
			For 1" Mesh Fabric, Add	675.91	
			For 1-1/4" Mesh Fabric, Add	435.07	
			For 1-3/4" Mesh Fabric, Add	270.36	
			For 2-1/8" Mesh Fabric, Deduct	-135.18	
32 31 13	13-0393	EA	7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	713.64	72.92
			For Gate With Single Barb Wire Arm, Add	54.42	
			For Gate With Double Barb Wire Arm, Add	79.16	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-92.77	
			For Aluminized Steel Gate And Post, Add	237.48	
			For Powder Coated Gate And Post, Add	128.64	
			For 1" Mesh Fabric, Add	215.22	
			For 1-1/4" Mesh Fabric, Add	138.53	
			For 1-3/4" Mesh Fabric, Add	86.09	
			For 2-1/8" Mesh Fabric, Deduct	-43.04	
32 31 13	13-0394	EA	8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	805.22	84.45
			For Gate With Single Barb Wire Arm, Add	60.69	
			For Gate With Double Barb Wire Arm, Add	88.28	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-103.46	
			For Aluminized Steel Gate And Post, Add	264.84	
			For Powder Coated Gate And Post, Add	143.46	
			For 1" Mesh Fabric, Add	240.02	
			For 1-1/4" Mesh Fabric, Add	154.49	
			For 1-3/4" Mesh Fabric, Add	96.01	
			For 2-1/8" Mesh Fabric, Deduct	-48.00	
32 31 13	13-0395	EA	9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	897.95	96.31
			For Gate With Single Barb Wire Arm, Add	66.97	
			For Gate With Double Barb Wire Arm, Add	97.40	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-114.15	
			For Aluminized Steel Gate And Post, Add	292.21	
			For Powder Coated Gate And Post, Add	158.28	
			For 1" Mesh Fabric, Add	264.62	
			For 1-1/4" Mesh Fabric, Add	170.46	
			For 1-3/4" Mesh Fabric, Add	105.93	
			For 2-1/8" Mesh Fabric, Deduct	-52.96	
32 31 13	13-0396	EA	10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	990.69	108.17
			For Gate With Single Barb Wire Arm, Add	73.24	
			For Gate With Double Barb Wire Arm, Add	106.53	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-124.84	
			For Aluminized Steel Gate And Post, Add	319.58	
			For Powder Coated Gate And Post, Add	173.11	
			For 1" Mesh Fabric, Add	289.62	
			For 1-1/4" Mesh Fabric, Add	186.42	
			For 1-3/4" Mesh Fabric, Add	115.85	
			For 2-1/8" Mesh Fabric, Deduct	-57.92	
32 31 13	13-0397	EA	10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,304.08	125.40
			For Gate With Single Barb Wire Arm, Add	102.04	
			For Gate With Double Barb Wire Arm, Add	148.42	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-173.93	
			For Aluminized Steel Gate And Post, Add	445.26	
			For Powder Coated Gate And Post, Add	241.18	
			For 1" Mesh Fabric, Add	403.52	
			For 1-1/4" Mesh Fabric, Add	259.74	
			For 1-3/4" Mesh Fabric, Add	161.41	
			For 2-1/8" Mesh Fabric, Deduct	-80.70	
32 31 13	13-0398	EA	12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,424.70	135.00
			For Gate With Single Barb Wire Arm, Add	112.15	
			For Gate With Double Barb Wire Arm, Add	163.12	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-191.16	
			For Aluminized Steel Gate And Post, Add	489.37	
			For Powder Coated Gate And Post, Add	265.08	
			For 1" Mesh Fabric, Add	443.49	
			For 1-1/4" Mesh Fabric, Add	285.47	
			For 1-3/4" Mesh Fabric, Add	177.40	
			For 2-1/8" Mesh Fabric, Deduct	-88.70	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0399	EA	14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,607.83	146.21
			For Gate With Single Barb Wire Arm, Add	128.55	
			For Gate With Double Barb Wire Arm, Add	186.98	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-219.12	
			For Aluminized Steel Gate And Post, Add	560.95	
			For Powder Coated Gate And Post, Add	303.85	
			For 1" Mesh Fabric, Add	508.36	
			For 1-1/4" Mesh Fabric, Add	327.22	
			For 1-3/4" Mesh Fabric, Add	203.34	
			For 2-1/8" Mesh Fabric, Deduct	-101.67	
32 31 13	13-0400	EA	16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,814.10	159.41
			For Gate With Single Barb Wire Arm, Add	146.86	
			For Gate With Double Barb Wire Arm, Add	213.61	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-250.33	
			For Aluminized Steel Gate And Post, Add	640.84	
			For Powder Coated Gate And Post, Add	347.12	
			For 1" Mesh Fabric, Add	580.76	
			For 1-1/4" Mesh Fabric, Add	373.83	
			For 1-3/4" Mesh Fabric, Add	232.31	
			For 2-1/8" Mesh Fabric, Deduct	-116.15	
32 31 13	13-0401	EA	18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,856.62	175.56
			For Gate With Single Barb Wire Arm, Add	586.28	
			For Gate With Double Barb Wire Arm, Add	852.78	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-999.35	
			For Aluminized Steel Gate And Post, Add	2,558.33	
			For Powder Coated Gate And Post, Add	1,385.76	
			For 1" Mesh Fabric, Add	2,318.48	
			For 1-1/4" Mesh Fabric, Add	1,492.36	
			For 1-3/4" Mesh Fabric, Add	927.39	
			For 2-1/8" Mesh Fabric, Deduct	-463.70	
32 31 13	13-0402	EA	20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,511.94	194.90
			For Gate With Single Barb Wire Arm, Add	651.95	
			For Gate With Double Barb Wire Arm, Add	948.29	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,111.28	
			For Aluminized Steel Gate And Post, Add	2,844.88	
			For Powder Coated Gate And Post, Add	1,540.98	
			For 1" Mesh Fabric, Add	2,578.18	
			For 1-1/4" Mesh Fabric, Add	1,659.52	
			For 1-3/4" Mesh Fabric, Add	1,031.27	
			For 2-1/8" Mesh Fabric, Deduct	-515.64	
32 31 13	13-0403	EA	22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,176.47	219.31
			For Gate With Single Barb Wire Arm, Add	716.94	
			For Gate With Double Barb Wire Arm, Add	1,042.83	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,222.07	
			For Aluminized Steel Gate And Post, Add	3,128.49	
			For Powder Coated Gate And Post, Add	1,694.60	
			For 1" Mesh Fabric, Add	2,835.19	
			For 1-1/4" Mesh Fabric, Add	1,824.95	
			For 1-3/4" Mesh Fabric, Add	1,134.08	
			For 2-1/8" Mesh Fabric, Deduct	-567.04	
32 31 13	13-0404	EA	24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,867.10	250.53
			For Gate With Single Barb Wire Arm, Add	782.61	
			For Gate With Double Barb Wire Arm, Add	1,138.35	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,334.00	
			For Aluminized Steel Gate And Post, Add	3,415.04	
			For Powder Coated Gate And Post, Add	1,849.81	
			For 1" Mesh Fabric, Add	3,094.88	
			For 1-1/4" Mesh Fabric, Add	1,992.11	
			For 1-3/4" Mesh Fabric, Add	1,237.95	
			For 2-1/8" Mesh Fabric, Deduct	-618.98	
32 31 13	13-0405	EA	26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	8,577.73	292.56
			For Gate With Single Barb Wire Arm, Add	846.93	
			For Gate With Double Barb Wire Arm, Add	1,231.90	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,443.63	
			For Aluminized Steel Gate And Post, Add	3,695.69	
			For Powder Coated Gate And Post, Add	2,001.83	
			For 1" Mesh Fabric, Add	3,349.22	
			For 1-1/4" Mesh Fabric, Add	2,155.82	
			For 1-3/4" Mesh Fabric, Add	1,339.69	
			For 2-1/8" Mesh Fabric, Deduct	-669.84	
32 31 13	13-0406	EA	28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	9,343.32	350.72
			For Gate With Single Barb Wire Arm, Add	911.92	
			For Gate With Double Barb Wire Arm, Add	1,326.43	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,554.41	
			For Aluminized Steel Gate And Post, Add	3,979.29	
			For Powder Coated Gate And Post, Add	2,155.45	
			For 1" Mesh Fabric, Add	3,606.23	
			For 1-1/4" Mesh Fabric, Add	2,321.25	
			For 1-3/4" Mesh Fabric, Add	1,442.49	
			For 2-1/8" Mesh Fabric, Deduct	-721.25	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0407	EA		30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	10,204.76	438.77
			For Gate With Single Barb Wire Arm, Add	977.59	
			For Gate With Double Barb Wire Arm, Add	1,421.95	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,666.35	
			For Aluminized Steel Gate And Post, Add	4,265.85	
			For Powder Coated Gate And Post, Add	2,310.67	
			For 1" Mesh Fabric, Add	3,865.92	
			For 1-1/4" Mesh Fabric, Add	2,488.41	
			For 1-3/4" Mesh Fabric, Add	1,546.37	
			For 2-1/8" Mesh Fabric, Deduct	-773.18	
32 31 13 13-0408			Vinyl Coated Without Barb Wire Arm (32 31 13 13-0266)		
			Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0409			4' Fence Height (32 31 13 13-0408)		
32 31 13 13-0410	EA		3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	202.10	28.80
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-21.69	
			For 1" Mesh Fabric, Add	50.33	
			For 1-1/4" Mesh Fabric, Add	32.40	
			For 1-3/4" Mesh Fabric, Add	20.13	
			For 2-1/8" Mesh Fabric, Deduct	-10.07	
			For Gate With Single Barb Wire Arm, Add	12.73	
			For Gate With Double Barb Wire Arm, Add	18.51	
32 31 13 13-0411	EA		4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	240.66	28.80
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-28.92	
			For 1" Mesh Fabric, Add	67.10	
			For 1-1/4" Mesh Fabric, Add	43.19	
			For 1-3/4" Mesh Fabric, Add	26.84	
			For 2-1/8" Mesh Fabric, Deduct	-13.42	
			For Gate With Single Barb Wire Arm, Add	16.97	
			For Gate With Double Barb Wire Arm, Add	24.68	
32 31 13 13-0412	EA		5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	278.58	30.65
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.95	
			For 1" Mesh Fabric, Add	81.09	
			For 1-1/4" Mesh Fabric, Add	52.19	
			For 1-3/4" Mesh Fabric, Add	32.44	
			For 2-1/8" Mesh Fabric, Deduct	-16.22	
			For Gate With Single Barb Wire Arm, Add	20.51	
			For Gate With Double Barb Wire Arm, Add	29.83	
32 31 13 13-0413	EA		6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	329.14	36.86
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-40.98	
			For 1" Mesh Fabric, Add	95.06	
			For 1-1/4" Mesh Fabric, Add	61.19	
			For 1-3/4" Mesh Fabric, Add	38.03	
			For 2-1/8" Mesh Fabric, Deduct	-19.01	
			For Gate With Single Barb Wire Arm, Add	24.04	
			For Gate With Double Barb Wire Arm, Add	34.97	
32 31 13 13-0414	EA		7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	379.71	42.97
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-47.00	
			For 1" Mesh Fabric, Add	109.05	
			For 1-1/4" Mesh Fabric, Add	70.19	
			For 1-3/4" Mesh Fabric, Add	43.62	
			For 2-1/8" Mesh Fabric, Deduct	-21.81	
			For Gate With Single Barb Wire Arm, Add	27.57	
			For Gate With Double Barb Wire Arm, Add	40.11	
32 31 13 13-0415	EA		8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	430.28	49.08
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.03	
			For 1" Mesh Fabric, Add	123.03	
			For 1-1/4" Mesh Fabric, Add	79.19	
			For 1-3/4" Mesh Fabric, Add	49.21	
			For 2-1/8" Mesh Fabric, Deduct	-24.61	
			For Gate With Single Barb Wire Arm, Add	31.11	
			For Gate With Double Barb Wire Arm, Add	45.25	
32 31 13 13-0416	EA		9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	480.86	55.29
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.06	
			For 1" Mesh Fabric, Add	137.01	
			For 1-1/4" Mesh Fabric, Add	88.19	
			For 1-3/4" Mesh Fabric, Add	54.80	
			For 2-1/8" Mesh Fabric, Deduct	-27.40	
			For Gate With Single Barb Wire Arm, Add	34.65	
			For Gate With Double Barb Wire Arm, Add	50.39	
32 31 13 13-0417	EA		10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	531.42	61.40
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-65.08	
			For 1" Mesh Fabric, Add	150.98	
			For 1-1/4" Mesh Fabric, Add	97.19	
			For 1-3/4" Mesh Fabric, Add	60.39	
			For 2-1/8" Mesh Fabric, Deduct	-30.20	
			For Gate With Single Barb Wire Arm, Add	38.18	
			For Gate With Double Barb Wire Arm, Add	55.53	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0418	EA	10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	647.13		61.40
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-86.78		
		For 1" Mesh Fabric, Add	201.32		
		For 1-1/4" Mesh Fabric, Add	129.58		
		For 1-3/4" Mesh Fabric, Add	80.53		
		For 2-1/8" Mesh Fabric, Deduct	-40.26		
		For Gate With Single Barb Wire Arm, Add	50.91		
		For Gate With Double Barb Wire Arm, Add	74.05		
32 31 13 13-0419	EA	12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	752.85		65.79
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-104.13		
		For 1" Mesh Fabric, Add	241.58		
		For 1-1/4" Mesh Fabric, Add	155.50		
		For 1-3/4" Mesh Fabric, Add	96.63		
		For 2-1/8" Mesh Fabric, Deduct	-48.32		
		For Gate With Single Barb Wire Arm, Add	61.09		
		For Gate With Double Barb Wire Arm, Add	88.86		
32 31 13 13-0420	EA	14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	860.60		70.85
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-121.48		
		For 1" Mesh Fabric, Add	281.84		
		For 1-1/4" Mesh Fabric, Add	181.41		
		For 1-3/4" Mesh Fabric, Add	112.74		
		For 2-1/8" Mesh Fabric, Deduct	-56.37		
		For Gate With Single Barb Wire Arm, Add	71.27		
		For Gate With Double Barb Wire Arm, Add	103.67		
32 31 13 13-0421	EA	16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	970.88		76.72
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-138.84		
		For 1" Mesh Fabric, Add	322.10		
		For 1-1/4" Mesh Fabric, Add	207.33		
		For 1-3/4" Mesh Fabric, Add	128.84		
		For 2-1/8" Mesh Fabric, Deduct	-64.42		
		For Gate With Single Barb Wire Arm, Add	81.45		
		For Gate With Double Barb Wire Arm, Add	118.48		
32 31 13 13-0422	EA	18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,117.63		94.72
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-156.19		
		For 1" Mesh Fabric, Add	362.37		
		For 1-1/4" Mesh Fabric, Add	233.25		
		For 1-3/4" Mesh Fabric, Add	144.95		
		For 2-1/8" Mesh Fabric, Deduct	-72.47		
		For Gate With Single Barb Wire Arm, Add	91.63		
		For Gate With Double Barb Wire Arm, Add	133.28		
32 31 13 13-0423	EA	20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,230.52		101.52
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-173.55		
		For 1" Mesh Fabric, Add	402.63		
		For 1-1/4" Mesh Fabric, Add	259.17		
		For 1-3/4" Mesh Fabric, Add	161.05		
		For 2-1/8" Mesh Fabric, Deduct	-80.53		
		For Gate With Single Barb Wire Arm, Add	101.81		
		For Gate With Double Barb Wire Arm, Add	148.09		
32 31 13 13-0424	EA	22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,346.53		109.39
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-190.90		
		For 1" Mesh Fabric, Add	442.90		
		For 1-1/4" Mesh Fabric, Add	285.08		
		For 1-3/4" Mesh Fabric, Add	177.16		
		For 2-1/8" Mesh Fabric, Deduct	-88.58		
		For Gate With Single Barb Wire Arm, Add	112.00		
		For Gate With Double Barb Wire Arm, Add	162.90		
32 31 13 13-0425	EA	24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,466.45		118.47
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-208.26		
		For 1" Mesh Fabric, Add	483.16		
		For 1-1/4" Mesh Fabric, Add	311.00		
		For 1-3/4" Mesh Fabric, Add	193.26		
		For 2-1/8" Mesh Fabric, Deduct	-96.63		
		For Gate With Single Barb Wire Arm, Add	122.18		
		For Gate With Double Barb Wire Arm, Add	177.71		
32 31 13 13-0426	EA	26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,591.36		129.27
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-225.61		
		For 1" Mesh Fabric, Add	523.42		
		For 1-1/4" Mesh Fabric, Add	336.92		
		For 1-3/4" Mesh Fabric, Add	209.37		
		For 2-1/8" Mesh Fabric, Deduct	-104.68		
		For Gate With Single Barb Wire Arm, Add	132.36		
		For Gate With Double Barb Wire Arm, Add	192.52		
32 31 13 13-0427	EA	28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,722.73		142.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-242.97		
		For 1" Mesh Fabric, Add	563.69		
		For 1-1/4" Mesh Fabric, Add	362.83		
		For 1-3/4" Mesh Fabric, Add	225.47		
		For 2-1/8" Mesh Fabric, Deduct	-112.74		
		For Gate With Single Barb Wire Arm, Add	142.54		
		For Gate With Double Barb Wire Arm, Add	207.33		



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0428	EA	30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,862.72 -260.32 603.95 388.75 241.58 -120.79 152.72 222.14	157.95
32 31 13	13-0429		5' Fence Height (32 31 13 13-0408)		
32 31 13	13-0430	EA	3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	235.54 -26.88 62.37 40.14 24.95 -12.47 15.77 22.94	30.65
32 31 13	13-0431	EA	4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	283.33 -35.84 83.15 53.52 33.26 -16.63 21.03 30.59	30.65
32 31 13	13-0432	EA	5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	324.93 -42.56 98.75 63.56 39.50 -19.75 24.97 36.32	32.61
32 31 13	13-0433	EA	6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	380.35 -49.28 114.34 73.60 45.73 -22.87 28.91 42.05	39.17
32 31 13	13-0434	EA	7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	435.79 -56.00 129.93 83.63 51.97 -25.99 32.86 47.79	45.63
32 31 13	13-0435	EA	8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	492.35 -62.72 145.52 93.67 58.21 -29.10 36.80 53.52	52.54
32 31 13	13-0436	EA	9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	547.78 -69.44 161.11 103.70 64.44 -32.22 40.74 59.26	59.10
32 31 13	13-0437	EA	10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	603.20 -76.16 176.70 113.74 70.68 -35.34 44.68 64.99	65.56
32 31 13	13-0438	EA	10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	770.97 -107.53 249.46 160.57 99.78 -49.89 63.08 91.76	65.79

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0439	EA	12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	900.85		70.85
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-129.03		
		For 1" Mesh Fabric, Add	299.35		
		For 1-1/4" Mesh Fabric, Add	192.68		
		For 1-3/4" Mesh Fabric, Add	119.74		
		For 2-1/8" Mesh Fabric, Deduct	-59.87		
		For Gate With Single Barb Wire Arm, Add	75.70		
		For Gate With Double Barb Wire Arm, Add	110.11		
32 31 13 13-0440	EA	14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,033.26		76.72
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-150.53		
		For 1" Mesh Fabric, Add	349.24		
		For 1-1/4" Mesh Fabric, Add	224.80		
		For 1-3/4" Mesh Fabric, Add	139.70		
		For 2-1/8" Mesh Fabric, Deduct	-69.85		
		For Gate With Single Barb Wire Arm, Add	88.31		
		For Gate With Double Barb Wire Arm, Add	128.46		
32 31 13 13-0441	EA	16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,202.14		94.72
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-172.04		
		For 1" Mesh Fabric, Add	399.13		
		For 1-1/4" Mesh Fabric, Add	256.91		
		For 1-3/4" Mesh Fabric, Add	159.65		
		For 2-1/8" Mesh Fabric, Deduct	-79.83		
		For Gate With Single Barb Wire Arm, Add	100.93		
		For Gate With Double Barb Wire Arm, Add	146.81		
32 31 13 13-0442	EA	18' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,337.17		101.52
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-193.55		
		For 1" Mesh Fabric, Add	449.02		
		For 1-1/4" Mesh Fabric, Add	289.03		
		For 1-3/4" Mesh Fabric, Add	179.61		
		For 2-1/8" Mesh Fabric, Deduct	-89.80		
		For Gate With Single Barb Wire Arm, Add	113.55		
		For Gate With Double Barb Wire Arm, Add	165.16		
32 31 13 13-0443	EA	20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,475.31		109.39
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-215.05		
		For 1" Mesh Fabric, Add	498.91		
		For 1-1/4" Mesh Fabric, Add	321.14		
		For 1-3/4" Mesh Fabric, Add	199.57		
		For 2-1/8" Mesh Fabric, Deduct	-99.78		
		For Gate With Single Barb Wire Arm, Add	126.16		
		For Gate With Double Barb Wire Arm, Add	183.51		
32 31 13 13-0444	EA	22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,617.36		118.47
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-236.55		
		For 1" Mesh Fabric, Add	548.80		
		For 1-1/4" Mesh Fabric, Add	353.25		
		For 1-3/4" Mesh Fabric, Add	219.52		
		For 2-1/8" Mesh Fabric, Deduct	-109.76		
		For Gate With Single Barb Wire Arm, Add	138.78		
		For Gate With Double Barb Wire Arm, Add	201.86		
32 31 13 13-0445	EA	24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,764.41		129.27
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-258.06		
		For 1" Mesh Fabric, Add	598.70		
		For 1-1/4" Mesh Fabric, Add	385.37		
		For 1-3/4" Mesh Fabric, Add	239.48		
		For 2-1/8" Mesh Fabric, Deduct	-119.74		
		For Gate With Single Barb Wire Arm, Add	151.40		
		For Gate With Double Barb Wire Arm, Add	220.21		
32 31 13 13-0446	EA	26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,917.91		142.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-279.56		
		For 1" Mesh Fabric, Add	648.59		
		For 1-1/4" Mesh Fabric, Add	417.48		
		For 1-3/4" Mesh Fabric, Add	259.44		
		For 2-1/8" Mesh Fabric, Deduct	-129.72		
		For Gate With Single Barb Wire Arm, Add	164.01		
		For Gate With Double Barb Wire Arm, Add	238.56		
32 31 13 13-0447	EA	28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,080.03		157.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-301.07		
		For 1" Mesh Fabric, Add	698.48		
		For 1-1/4" Mesh Fabric, Add	449.60		
		For 1-3/4" Mesh Fabric, Add	279.39		
		For 2-1/8" Mesh Fabric, Deduct	-139.70		
		For Gate With Single Barb Wire Arm, Add	176.63		
		For Gate With Double Barb Wire Arm, Add	256.91		
32 31 13 13-0448	EA	30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,254.02		177.70
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-322.58		
		For 1" Mesh Fabric, Add	748.37		
		For 1-1/4" Mesh Fabric, Add	481.71		
		For 1-3/4" Mesh Fabric, Add	299.35		
		For 2-1/8" Mesh Fabric, Deduct	-149.67		
		For Gate With Single Barb Wire Arm, Add	189.24		
		For Gate With Double Barb Wire Arm, Add	275.26		

32 31 13 13-0449 6' Fence Height (32 31 13 13-0408)



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0450	EA	3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm		251.97	32.84
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-28.73	
		For 1" Mesh Fabric, Add	.....	66.65	
		For 1-1/4" Mesh Fabric, Add	.....	42.90	
		For 1-3/4" Mesh Fabric, Add	.....	26.66	
		For 2-1/8" Mesh Fabric, Deduct	.....	-13.33	
		For Gate With Single Barb Wire Arm, Add	.....	16.85	
		For Gate With Double Barb Wire Arm, Add	.....	24.52	
32 31 13 13-0451	EA	4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	303.04	32.84
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-38.30	
		For 1" Mesh Fabric, Add	.....	88.87	
		For 1-1/4" Mesh Fabric, Add	.....	57.20	
		For 1-3/4" Mesh Fabric, Add	.....	35.55	
		For 2-1/8" Mesh Fabric, Deduct	.....	-17.77	
		For Gate With Single Barb Wire Arm, Add	.....	22.47	
		For Gate With Double Barb Wire Arm, Add	.....	32.69	
32 31 13 13-0452	EA	5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	347.43	34.91
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-45.49	
		For 1" Mesh Fabric, Add	.....	105.53	
		For 1-1/4" Mesh Fabric, Add	.....	67.93	
		For 1-3/4" Mesh Fabric, Add	.....	42.21	
		For 2-1/8" Mesh Fabric, Deduct	.....	-21.11	
		For Gate With Single Barb Wire Arm, Add	.....	26.69	
		For Gate With Double Barb Wire Arm, Add	.....	38.82	
32 31 13 13-0453	EA	6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	407.63	42.16
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-52.67	
		For 1" Mesh Fabric, Add	.....	122.19	
		For 1-1/4" Mesh Fabric, Add	.....	78.65	
		For 1-3/4" Mesh Fabric, Add	.....	48.88	
		For 2-1/8" Mesh Fabric, Deduct	.....	-24.44	
		For Gate With Single Barb Wire Arm, Add	.....	30.90	
		For Gate With Double Barb Wire Arm, Add	.....	44.94	
32 31 13 13-0454	EA	7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	467.83	49.54
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-59.85	
		For 1" Mesh Fabric, Add	.....	138.86	
		For 1-1/4" Mesh Fabric, Add	.....	89.38	
		For 1-3/4" Mesh Fabric, Add	.....	55.54	
		For 2-1/8" Mesh Fabric, Deduct	.....	-27.77	
		For Gate With Single Barb Wire Arm, Add	.....	35.11	
		For Gate With Double Barb Wire Arm, Add	.....	51.07	
32 31 13 13-0455	EA	8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	526.85	56.45
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-67.03	
		For 1" Mesh Fabric, Add	.....	155.52	
		For 1-1/4" Mesh Fabric, Add	.....	100.10	
		For 1-3/4" Mesh Fabric, Add	.....	62.21	
		For 2-1/8" Mesh Fabric, Deduct	.....	-31.10	
		For Gate With Single Barb Wire Arm, Add	.....	39.33	
		For Gate With Double Barb Wire Arm, Add	.....	57.20	
32 31 13 13-0456	EA	9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	587.07	63.70
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-74.22	
		For 1" Mesh Fabric, Add	.....	172.18	
		For 1-1/4" Mesh Fabric, Add	.....	110.83	
		For 1-3/4" Mesh Fabric, Add	.....	68.87	
		For 2-1/8" Mesh Fabric, Deduct	.....	-34.44	
		For Gate With Single Barb Wire Arm, Add	.....	43.54	
		For Gate With Double Barb Wire Arm, Add	.....	63.33	
32 31 13 13-0457	EA	10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	.....	647.26	70.97
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-81.40	
		For 1" Mesh Fabric, Add	.....	188.84	
		For 1-1/4" Mesh Fabric, Add	.....	121.55	
		For 1-3/4" Mesh Fabric, Add	.....	75.54	
		For 2-1/8" Mesh Fabric, Deduct	.....	-37.77	
		For Gate With Single Barb Wire Arm, Add	.....	47.75	
		For Gate With Double Barb Wire Arm, Add	.....	69.46	
32 31 13 13-0458	EA	10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	825.56	70.85
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-114.91	
		For 1" Mesh Fabric, Add	.....	266.60	
		For 1-1/4" Mesh Fabric, Add	.....	171.60	
		For 1-3/4" Mesh Fabric, Add	.....	106.64	
		For 2-1/8" Mesh Fabric, Deduct	.....	-53.32	
		For Gate With Single Barb Wire Arm, Add	.....	67.42	
		For Gate With Double Barb Wire Arm, Add	.....	98.06	
32 31 13 13-0459	EA	12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	.....	965.85	76.72
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	.....	-137.90	
		For 1" Mesh Fabric, Add	.....	319.92	
		For 1-1/4" Mesh Fabric, Add	.....	205.92	
		For 1-3/4" Mesh Fabric, Add	.....	127.97	
		For 2-1/8" Mesh Fabric, Deduct	.....	-63.98	
		For Gate With Single Barb Wire Arm, Add	.....	80.90	
		For Gate With Double Barb Wire Arm, Add	.....	117.67	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0460	EA	14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,162.95		101.52
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-160.88		
		For 1" Mesh Fabric, Add	373.24		
		For 1-1/4" Mesh Fabric, Add	240.25		
		For 1-3/4" Mesh Fabric, Add	149.30		
		For 2-1/8" Mesh Fabric, Deduct	-74.65		
		For Gate With Single Barb Wire Arm, Add	94.38		
		For Gate With Double Barb Wire Arm, Add	137.28		
32 31 13 13-0461	EA	16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,308.97		109.39
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-183.86		
		For 1" Mesh Fabric, Add	426.56		
		For 1-1/4" Mesh Fabric, Add	274.57		
		For 1-3/4" Mesh Fabric, Add	170.62		
		For 2-1/8" Mesh Fabric, Deduct	-85.31		
		For Gate With Single Barb Wire Arm, Add	107.86		
		For Gate With Double Barb Wire Arm, Add	156.89		
32 31 13 13-0462	EA	18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,458.91		118.47
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-206.84		
		For 1" Mesh Fabric, Add	479.88		
		For 1-1/4" Mesh Fabric, Add	308.89		
		For 1-3/4" Mesh Fabric, Add	191.95		
		For 2-1/8" Mesh Fabric, Deduct	-95.98		
		For Gate With Single Barb Wire Arm, Add	121.35		
		For Gate With Double Barb Wire Arm, Add	176.51		
32 31 13 13-0463	EA	20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,636.48		129.27
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-234.07		
		For 1" Mesh Fabric, Add	543.05		
		For 1-1/4" Mesh Fabric, Add	349.55		
		For 1-3/4" Mesh Fabric, Add	217.22		
		For 2-1/8" Mesh Fabric, Deduct	-108.61		
		For Gate With Single Barb Wire Arm, Add	137.32		
		For Gate With Double Barb Wire Arm, Add	199.74		
32 31 13 13-0464	EA	22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,779.33		142.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-253.58		
		For 1" Mesh Fabric, Add	588.31		
		For 1-1/4" Mesh Fabric, Add	378.68		
		For 1-3/4" Mesh Fabric, Add	235.32		
		For 2-1/8" Mesh Fabric, Deduct	-117.66		
		For Gate With Single Barb Wire Arm, Add	148.77		
		For Gate With Double Barb Wire Arm, Add	216.39		
32 31 13 13-0465	EA	24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,945.22		157.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-275.79		
		For 1" Mesh Fabric, Add	639.84		
		For 1-1/4" Mesh Fabric, Add	411.85		
		For 1-3/4" Mesh Fabric, Add	255.93		
		For 2-1/8" Mesh Fabric, Deduct	-127.97		
		For Gate With Single Barb Wire Arm, Add	161.80		
		For Gate With Double Barb Wire Arm, Add	235.34		
32 31 13 13-0466	EA	26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,127.08		177.70
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-298.77		
		For 1" Mesh Fabric, Add	693.16		
		For 1-1/4" Mesh Fabric, Add	446.17		
		For 1-3/4" Mesh Fabric, Add	277.26		
		For 2-1/8" Mesh Fabric, Deduct	-138.63		
		For Gate With Single Barb Wire Arm, Add	175.28		
		For Gate With Double Barb Wire Arm, Add	254.95		
32 31 13 13-0467	EA	28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,325.89		203.04
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-321.76		
		For 1" Mesh Fabric, Add	746.48		
		For 1-1/4" Mesh Fabric, Add	480.49		
		For 1-3/4" Mesh Fabric, Add	298.59		
		For 2-1/8" Mesh Fabric, Deduct	-149.30		
		For Gate With Single Barb Wire Arm, Add	188.76		
		For Gate With Double Barb Wire Arm, Add	274.57		
32 31 13 13-0468	EA	30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,550.10		236.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-344.74		
		For 1" Mesh Fabric, Add	799.80		
		For 1-1/4" Mesh Fabric, Add	514.81		
		For 1-3/4" Mesh Fabric, Add	319.92		
		For 2-1/8" Mesh Fabric, Deduct	-159.96		
		For Gate With Single Barb Wire Arm, Add	202.25		
		For Gate With Double Barb Wire Arm, Add	294.18		
32 31 13 13-0469		7' Fence Height (32 31 13 13-0408)			
32 31 13 13-0470	EA	3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	267.27		35.36
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-30.17		
		For 1" Mesh Fabric, Add	70.00		
		For 1-1/4" Mesh Fabric, Add	45.06		
		For 1-3/4" Mesh Fabric, Add	28.00		
		For 2-1/8" Mesh Fabric, Deduct	-14.00		
		For Gate With Single Barb Wire Arm, Add	17.70		
		For Gate With Double Barb Wire Arm, Add	25.75		



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0471	EA	4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	320.92	35.36
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-40.23	
			For 1" Mesh Fabric, Add	93.34	
			For 1-1/4" Mesh Fabric, Add	60.08	
			For 1-3/4" Mesh Fabric, Add	37.34	
			For 2-1/8" Mesh Fabric, Deduct	-18.67	
			For Gate With Single Barb Wire Arm, Add	23.60	
			For Gate With Double Barb Wire Arm, Add	34.33	
32 31 13	13-0472	EA	5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	366.56	37.21
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-47.78	
			For 1" Mesh Fabric, Add	110.85	
			For 1-1/4" Mesh Fabric, Add	71.35	
			For 1-3/4" Mesh Fabric, Add	44.34	
			For 2-1/8" Mesh Fabric, Deduct	-22.17	
			For Gate With Single Barb Wire Arm, Add	28.03	
			For Gate With Double Barb Wire Arm, Add	40.77	
32 31 13	13-0473	EA	6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	430.99	45.27
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-55.32	
			For 1" Mesh Fabric, Add	128.35	
			For 1-1/4" Mesh Fabric, Add	82.61	
			For 1-3/4" Mesh Fabric, Add	51.34	
			For 2-1/8" Mesh Fabric, Deduct	-25.67	
			For Gate With Single Barb Wire Arm, Add	32.46	
			For Gate With Double Barb Wire Arm, Add	47.21	
32 31 13	13-0474	EA	7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	494.27	52.99
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.87	
			For 1" Mesh Fabric, Add	145.85	
			For 1-1/4" Mesh Fabric, Add	93.88	
			For 1-3/4" Mesh Fabric, Add	58.34	
			For 2-1/8" Mesh Fabric, Deduct	-29.17	
			For Gate With Single Barb Wire Arm, Add	36.88	
			For Gate With Double Barb Wire Arm, Add	53.65	
32 31 13	13-0475	EA	8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	558.71	60.95
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-70.41	
			For 1" Mesh Fabric, Add	163.36	
			For 1-1/4" Mesh Fabric, Add	105.15	
			For 1-3/4" Mesh Fabric, Add	65.34	
			For 2-1/8" Mesh Fabric, Deduct	-32.67	
			For Gate With Single Barb Wire Arm, Add	41.31	
			For Gate With Double Barb Wire Arm, Add	60.08	
32 31 13	13-0476	EA	9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	621.97	68.66
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.96	
			For 1" Mesh Fabric, Add	180.86	
			For 1-1/4" Mesh Fabric, Add	116.41	
			For 1-3/4" Mesh Fabric, Add	72.34	
			For 2-1/8" Mesh Fabric, Deduct	-36.17	
			For Gate With Single Barb Wire Arm, Add	45.73	
			For Gate With Double Barb Wire Arm, Add	66.52	
32 31 13	13-0477	EA	10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	686.41	76.72
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-85.50	
			For 1" Mesh Fabric, Add	198.36	
			For 1-1/4" Mesh Fabric, Add	127.68	
			For 1-3/4" Mesh Fabric, Add	79.34	
			For 2-1/8" Mesh Fabric, Deduct	-39.67	
			For Gate With Single Barb Wire Arm, Add	50.16	
			For Gate With Double Barb Wire Arm, Add	72.96	
32 31 13	13-0478	EA	10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	874.16	76.72
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-120.70	
			For 1" Mesh Fabric, Add	280.03	
			For 1-1/4" Mesh Fabric, Add	180.25	
			For 1-3/4" Mesh Fabric, Add	112.01	
			For 2-1/8" Mesh Fabric, Deduct	-56.01	
			For Gate With Single Barb Wire Arm, Add	70.81	
			For Gate With Double Barb Wire Arm, Add	103.00	
32 31 13	13-0479	EA	12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,077.41	101.52
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-144.84	
			For 1" Mesh Fabric, Add	336.03	
			For 1-1/4" Mesh Fabric, Add	216.29	
			For 1-3/4" Mesh Fabric, Add	134.41	
			For 2-1/8" Mesh Fabric, Deduct	-67.21	
			For Gate With Single Barb Wire Arm, Add	84.97	
			For Gate With Double Barb Wire Arm, Add	123.60	
32 31 13	13-0480	EA	14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,229.62	109.39
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-168.98	
			For 1" Mesh Fabric, Add	392.04	
			For 1-1/4" Mesh Fabric, Add	252.35	
			For 1-3/4" Mesh Fabric, Add	156.82	
			For 2-1/8" Mesh Fabric, Deduct	-78.41	
			For Gate With Single Barb Wire Arm, Add	99.14	
			For Gate With Double Barb Wire Arm, Add	144.20	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0481	EA	16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,385.71		118.47
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-193.12		
		For 1" Mesh Fabric, Add	448.04		
		For 1-1/4" Mesh Fabric, Add	288.39		
		For 1-3/4" Mesh Fabric, Add	179.21		
		For 2-1/8" Mesh Fabric, Deduct	-89.61		
		For Gate With Single Barb Wire Arm, Add	113.30		
		For Gate With Double Barb Wire Arm, Add	164.80		
32 31 13 13-0482	EA	18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,546.82		129.27
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-217.26		
		For 1" Mesh Fabric, Add	504.05		
		For 1-1/4" Mesh Fabric, Add	324.44		
		For 1-3/4" Mesh Fabric, Add	201.62		
		For 2-1/8" Mesh Fabric, Deduct	-100.81		
		For Gate With Single Barb Wire Arm, Add	127.46		
		For Gate With Double Barb Wire Arm, Add	185.40		
32 31 13 13-0483	EA	20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,714.36		142.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-241.40		
		For 1" Mesh Fabric, Add	560.05		
		For 1-1/4" Mesh Fabric, Add	360.49		
		For 1-3/4" Mesh Fabric, Add	224.02		
		For 2-1/8" Mesh Fabric, Deduct	-112.01		
		For Gate With Single Barb Wire Arm, Add	141.62		
		For Gate With Double Barb Wire Arm, Add	205.99		
32 31 13 13-0484	EA	22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,890.52		157.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-265.54		
		For 1" Mesh Fabric, Add	616.04		
		For 1-1/4" Mesh Fabric, Add	396.53		
		For 1-3/4" Mesh Fabric, Add	246.42		
		For 2-1/8" Mesh Fabric, Deduct	-123.21		
		For Gate With Single Barb Wire Arm, Add	155.78		
		For Gate With Double Barb Wire Arm, Add	226.59		
32 31 13 13-0485	EA	24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,078.57		177.70
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-289.68		
		For 1" Mesh Fabric, Add	672.05		
		For 1-1/4" Mesh Fabric, Add	432.59		
		For 1-3/4" Mesh Fabric, Add	268.82		
		For 2-1/8" Mesh Fabric, Deduct	-134.41		
		For Gate With Single Barb Wire Arm, Add	169.94		
		For Gate With Double Barb Wire Arm, Add	247.19		
32 31 13 13-0486	EA	26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,283.57		203.04
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-313.82		
		For 1" Mesh Fabric, Add	728.07		
		For 1-1/4" Mesh Fabric, Add	468.64		
		For 1-3/4" Mesh Fabric, Add	291.23		
		For 2-1/8" Mesh Fabric, Deduct	-145.61		
		For Gate With Single Barb Wire Arm, Add	184.11		
		For Gate With Double Barb Wire Arm, Add	267.80		
32 31 13 13-0487	EA	28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,513.94		236.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-337.96		
		For 1" Mesh Fabric, Add	784.07		
		For 1-1/4" Mesh Fabric, Add	504.69		
		For 1-3/4" Mesh Fabric, Add	313.63		
		For 2-1/8" Mesh Fabric, Deduct	-156.81		
		For Gate With Single Barb Wire Arm, Add	198.27		
		For Gate With Double Barb Wire Arm, Add	288.39		
32 31 13 13-0488	EA	30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,785.00		284.28
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-362.10		
		For 1" Mesh Fabric, Add	840.08		
		For 1-1/4" Mesh Fabric, Add	540.74		
		For 1-3/4" Mesh Fabric, Add	336.03		
		For 2-1/8" Mesh Fabric, Deduct	-168.02		
		For Gate With Single Barb Wire Arm, Add	212.43		
		For Gate With Double Barb Wire Arm, Add	308.99		
32 31 13 13-0489		8' Fence Height (32 31 13 13-0408)			
32 31 13 13-0490	EA	3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	310.27		38.36
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-36.57		
		For 1" Mesh Fabric, Add	84.85		
		For 1-1/4" Mesh Fabric, Add	54.62		
		For 1-3/4" Mesh Fabric, Add	33.94		
		For 2-1/8" Mesh Fabric, Deduct	-16.97		
		For Gate With Single Barb Wire Arm, Add	21.46		
		For Gate With Double Barb Wire Arm, Add	31.21		
32 31 13 13-0491	EA	4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	375.29		38.36
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-48.77		
		For 1" Mesh Fabric, Add	113.13		
		For 1-1/4" Mesh Fabric, Add	72.82		
		For 1-3/4" Mesh Fabric, Add	45.25		
		For 2-1/8" Mesh Fabric, Deduct	-22.63		
		For Gate With Single Barb Wire Arm, Add	28.61		
		For Gate With Double Barb Wire Arm, Add	41.61		



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0492	EA	5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	418.64	38.36
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-56.89	
			For 1" Mesh Fabric, Add	131.99	
			For 1-1/4" Mesh Fabric, Add	84.96	
			For 1-3/4" Mesh Fabric, Add	52.80	
			For 2-1/8" Mesh Fabric, Deduct	-26.40	
			For Gate With Single Barb Wire Arm, Add	33.38	
			For Gate With Double Barb Wire Arm, Add	48.55	
32 31 13	13-0493	EA	6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	491.94	48.38
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-65.02	
			For 1" Mesh Fabric, Add	150.85	
			For 1-1/4" Mesh Fabric, Add	97.10	
			For 1-3/4" Mesh Fabric, Add	60.34	
			For 2-1/8" Mesh Fabric, Deduct	-30.17	
			For Gate With Single Barb Wire Arm, Add	38.15	
			For Gate With Double Barb Wire Arm, Add	55.48	
32 31 13	13-0494	EA	7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	565.23	58.29
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-73.15	
			For 1" Mesh Fabric, Add	169.70	
			For 1-1/4" Mesh Fabric, Add	109.23	
			For 1-3/4" Mesh Fabric, Add	67.88	
			For 2-1/8" Mesh Fabric, Deduct	-33.94	
			For Gate With Single Barb Wire Arm, Add	42.91	
			For Gate With Double Barb Wire Arm, Add	62.42	
32 31 13	13-0495	EA	8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	637.38	67.86
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.28	
			For 1" Mesh Fabric, Add	188.56	
			For 1-1/4" Mesh Fabric, Add	121.37	
			For 1-3/4" Mesh Fabric, Add	75.42	
			For 2-1/8" Mesh Fabric, Deduct	-37.71	
			For Gate With Single Barb Wire Arm, Add	47.68	
			For Gate With Double Barb Wire Arm, Add	69.36	
32 31 13	13-0496	EA	9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	710.69	77.88
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-89.40	
			For 1" Mesh Fabric, Add	207.42	
			For 1-1/4" Mesh Fabric, Add	133.51	
			For 1-3/4" Mesh Fabric, Add	82.97	
			For 2-1/8" Mesh Fabric, Deduct	-41.48	
			For Gate With Single Barb Wire Arm, Add	52.45	
			For Gate With Double Barb Wire Arm, Add	76.29	
32 31 13	13-0497	EA	10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	783.97	87.90
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-97.53	
			For 1" Mesh Fabric, Add	226.27	
			For 1-1/4" Mesh Fabric, Add	145.64	
			For 1-3/4" Mesh Fabric, Add	90.51	
			For 2-1/8" Mesh Fabric, Deduct	-45.25	
			For Gate With Single Barb Wire Arm, Add	57.22	
			For Gate With Double Barb Wire Arm, Add	83.23	
32 31 13	13-0498	EA	10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,085.17	101.52
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-146.30	
			For 1" Mesh Fabric, Add	339.40	
			For 1-1/4" Mesh Fabric, Add	218.47	
			For 1-3/4" Mesh Fabric, Add	135.76	
			For 2-1/8" Mesh Fabric, Deduct	-67.88	
			For Gate With Single Barb Wire Arm, Add	85.83	
			For Gate With Double Barb Wire Arm, Add	124.84	
32 31 13	13-0499	EA	12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,264.66	109.39
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-175.55	
			For 1" Mesh Fabric, Add	407.28	
			For 1-1/4" Mesh Fabric, Add	262.16	
			For 1-3/4" Mesh Fabric, Add	162.91	
			For 2-1/8" Mesh Fabric, Deduct	-81.46	
			For Gate With Single Barb Wire Arm, Add	102.99	
			For Gate With Double Barb Wire Arm, Add	149.80	
32 31 13	13-0500	EA	14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,448.07	118.47
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-204.81	
			For 1" Mesh Fabric, Add	475.16	
			For 1-1/4" Mesh Fabric, Add	305.85	
			For 1-3/4" Mesh Fabric, Add	190.07	
			For 2-1/8" Mesh Fabric, Deduct	-95.03	
			For Gate With Single Barb Wire Arm, Add	120.16	
			For Gate With Double Barb Wire Arm, Add	174.77	
32 31 13	13-0501	EA	16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,636.47	129.27
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-234.07	
			For 1" Mesh Fabric, Add	543.05	
			For 1-1/4" Mesh Fabric, Add	349.55	
			For 1-3/4" Mesh Fabric, Add	217.22	
			For 2-1/8" Mesh Fabric, Deduct	-108.61	
			For Gate With Single Barb Wire Arm, Add	137.32	
			For Gate With Double Barb Wire Arm, Add	199.74	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0502	EA		18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,831.32	142.21
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-263.33	
			For 1" Mesh Fabric, Add	610.92	
			For 1-1/4" Mesh Fabric, Add	393.24	
			For 1-3/4" Mesh Fabric, Add	244.37	
			For 2-1/8" Mesh Fabric, Deduct	-122.18	
			For Gate With Single Barb Wire Arm, Add	154.49	
			For Gate With Double Barb Wire Arm, Add	224.71	
32 31 13 13-0503	EA		20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,034.80	157.95
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-292.59	
			For 1" Mesh Fabric, Add	678.80	
			For 1-1/4" Mesh Fabric, Add	436.93	
			For 1-3/4" Mesh Fabric, Add	271.52	
			For 2-1/8" Mesh Fabric, Deduct	-135.76	
			For Gate With Single Barb Wire Arm, Add	171.65	
			For Gate With Double Barb Wire Arm, Add	249.68	
32 31 13 13-0504	EA		22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,250.14	177.70
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-321.85	
			For 1" Mesh Fabric, Add	746.69	
			For 1-1/4" Mesh Fabric, Add	480.63	
			For 1-3/4" Mesh Fabric, Add	298.67	
			For 2-1/8" Mesh Fabric, Deduct	-149.34	
			For Gate With Single Barb Wire Arm, Add	188.82	
			For Gate With Double Barb Wire Arm, Add	274.64	
32 31 13 13-0505	EA		24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,482.42	203.04
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-351.11	
			For 1" Mesh Fabric, Add	814.57	
			For 1-1/4" Mesh Fabric, Add	524.32	
			For 1-3/4" Mesh Fabric, Add	325.83	
			For 2-1/8" Mesh Fabric, Deduct	-162.91	
			For Gate With Single Barb Wire Arm, Add	205.98	
			For Gate With Double Barb Wire Arm, Add	299.61	
32 31 13 13-0506	EA		26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,740.10	236.93
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-380.36	
			For 1" Mesh Fabric, Add	882.45	
			For 1-1/4" Mesh Fabric, Add	568.01	
			For 1-3/4" Mesh Fabric, Add	352.98	
			For 2-1/8" Mesh Fabric, Deduct	-176.49	
			For Gate With Single Barb Wire Arm, Add	223.15	
			For Gate With Double Barb Wire Arm, Add	324.58	
32 31 13 13-0507	EA		28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,038.45	284.28
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-409.62	
			For 1" Mesh Fabric, Add	950.33	
			For 1-1/4" Mesh Fabric, Add	611.70	
			For 1-3/4" Mesh Fabric, Add	380.13	
			For 2-1/8" Mesh Fabric, Deduct	-190.07	
			For Gate With Single Barb Wire Arm, Add	240.31	
			For Gate With Double Barb Wire Arm, Add	349.55	
32 31 13 13-0508	EA		30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,407.95	355.39
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-438.88	
			For 1" Mesh Fabric, Add	1,018.21	
			For 1-1/4" Mesh Fabric, Add	655.40	
			For 1-3/4" Mesh Fabric, Add	407.28	
			For 2-1/8" Mesh Fabric, Deduct	-203.64	
			For Gate With Single Barb Wire Arm, Add	257.48	
			For Gate With Double Barb Wire Arm, Add	374.51	
32 31 13 13-0509			10' Fence Height (32 31 13 13-0408)		
32 31 13 13-0510	EA		3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	354.28	42.63
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-42.43	
			For 1" Mesh Fabric, Add	98.43	
			For 1-1/4" Mesh Fabric, Add	63.36	
			For 1-3/4" Mesh Fabric, Add	39.37	
			For 2-1/8" Mesh Fabric, Deduct	-19.69	
			For Gate With Single Barb Wire Arm, Add	24.89	
			For Gate With Double Barb Wire Arm, Add	36.20	
32 31 13 13-0511	EA		4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	429.70	42.63
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-56.57	
			For 1" Mesh Fabric, Add	131.24	
			For 1-1/4" Mesh Fabric, Add	84.48	
			For 1-3/4" Mesh Fabric, Add	52.50	
			For 2-1/8" Mesh Fabric, Deduct	-26.25	
			For Gate With Single Barb Wire Arm, Add	33.19	
			For Gate With Double Barb Wire Arm, Add	48.27	
32 31 13 13-0512	EA		5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm	485.63	44.47
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.00	
			For 1" Mesh Fabric, Add	153.12	
			For 1-1/4" Mesh Fabric, Add	98.56	
			For 1-3/4" Mesh Fabric, Add	61.25	
			For 2-1/8" Mesh Fabric, Deduct	-30.62	
			For Gate With Single Barb Wire Arm, Add	38.72	
			For Gate With Double Barb Wire Arm, Add	56.32	



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 31 13 13-0513	EA	6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	568.16	55.29
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-75.43	
		For 1" Mesh Fabric, Add	174.99	
		For 1-1/4" Mesh Fabric, Add	112.64	
		For 1-3/4" Mesh Fabric, Add	69.99	
		For 2-1/8" Mesh Fabric, Deduct	-35.00	
		For Gate With Single Barb Wire Arm, Add	44.25	
		For Gate With Double Barb Wire Arm, Add	64.36	
32 31 13 13-0514	EA	7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	649.56	65.56
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-84.86	
		For 1" Mesh Fabric, Add	196.86	
		For 1-1/4" Mesh Fabric, Add	126.72	
		For 1-3/4" Mesh Fabric, Add	78.75	
		For 2-1/8" Mesh Fabric, Deduct	-39.37	
		For Gate With Single Barb Wire Arm, Add	49.78	
		For Gate With Double Barb Wire Arm, Add	72.41	
32 31 13 13-0515	EA	8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	732.10	76.38
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.28	
		For 1" Mesh Fabric, Add	218.74	
		For 1-1/4" Mesh Fabric, Add	140.80	
		For 1-3/4" Mesh Fabric, Add	87.50	
		For 2-1/8" Mesh Fabric, Deduct	-43.75	
		For Gate With Single Barb Wire Arm, Add	55.31	
		For Gate With Double Barb Wire Arm, Add	80.46	
32 31 13 13-0516	EA	9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	813.49	86.75
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-103.71	
		For 1" Mesh Fabric, Add	240.62	
		For 1-1/4" Mesh Fabric, Add	154.88	
		For 1-3/4" Mesh Fabric, Add	96.25	
		For 2-1/8" Mesh Fabric, Deduct	-48.12	
		For Gate With Single Barb Wire Arm, Add	60.85	
		For Gate With Double Barb Wire Arm, Add	88.50	
32 31 13 13-0517	EA	10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	896.05	97.47
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.14	
		For 1" Mesh Fabric, Add	262.49	
		For 1-1/4" Mesh Fabric, Add	168.96	
		For 1-3/4" Mesh Fabric, Add	105.00	
		For 2-1/8" Mesh Fabric, Deduct	-52.50	
		For Gate With Single Barb Wire Arm, Add	66.38	
		For Gate With Double Barb Wire Arm, Add	96.55	
32 31 13 13-0518	EA	10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,243.91	112.86
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-169.71	
		For 1" Mesh Fabric, Add	393.72	
		For 1-1/4" Mesh Fabric, Add	253.43	
		For 1-3/4" Mesh Fabric, Add	157.49	
		For 2-1/8" Mesh Fabric, Deduct	-78.74	
		For Gate With Single Barb Wire Arm, Add	99.56	
		For Gate With Double Barb Wire Arm, Add	144.82	
32 31 13 13-0519	EA	12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,450.89	121.39
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-203.65	
		For 1" Mesh Fabric, Add	472.47	
		For 1-1/4" Mesh Fabric, Add	304.12	
		For 1-3/4" Mesh Fabric, Add	188.99	
		For 2-1/8" Mesh Fabric, Deduct	-94.49	
		For Gate With Single Barb Wire Arm, Add	119.48	
		For Gate With Double Barb Wire Arm, Add	173.78	
32 31 13 13-0520	EA	14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,662.43	131.67
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-237.59	
		For 1" Mesh Fabric, Add	551.21	
		For 1-1/4" Mesh Fabric, Add	354.80	
		For 1-3/4" Mesh Fabric, Add	220.49	
		For 2-1/8" Mesh Fabric, Deduct	-110.24	
		For Gate With Single Barb Wire Arm, Add	139.39	
		For Gate With Double Barb Wire Arm, Add	202.75	
32 31 13 13-0521	EA	16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,879.22	143.54
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-271.53	
		For 1" Mesh Fabric, Add	629.96	
		For 1-1/4" Mesh Fabric, Add	405.49	
		For 1-3/4" Mesh Fabric, Add	251.98	
		For 2-1/8" Mesh Fabric, Deduct	-125.99	
		For Gate With Single Barb Wire Arm, Add	159.30	
		For Gate With Double Barb Wire Arm, Add	231.71	
32 31 13 13-0522	EA	18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,103.53	157.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-305.48	
		For 1" Mesh Fabric, Add	708.70	
		For 1-1/4" Mesh Fabric, Add	456.18	
		For 1-3/4" Mesh Fabric, Add	283.48	
		For 2-1/8" Mesh Fabric, Deduct	-141.74	
		For Gate With Single Barb Wire Arm, Add	179.21	
		For Gate With Double Barb Wire Arm, Add	260.67	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0523	EA	20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,336.99	175.43
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-339.42	
		For 1" Mesh Fabric, Add	787.45	
		For 1-1/4" Mesh Fabric, Add	506.86	
		For 1-3/4" Mesh Fabric, Add	314.98	
		For 2-1/8" Mesh Fabric, Deduct	-157.49	
		For Gate With Single Barb Wire Arm, Add	199.12	
		For Gate With Double Barb Wire Arm, Add	289.64	
32 31 13 13-0524	EA	22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,584.16	197.44
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-373.36	
		For 1" Mesh Fabric, Add	866.19	
		For 1-1/4" Mesh Fabric, Add	557.55	
		For 1-3/4" Mesh Fabric, Add	346.48	
		For 2-1/8" Mesh Fabric, Deduct	-173.24	
		For Gate With Single Barb Wire Arm, Add	219.04	
		For Gate With Double Barb Wire Arm, Add	318.60	
32 31 13 13-0525	EA	24' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,849.45	225.45
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-407.30	
		For 1" Mesh Fabric, Add	944.94	
		For 1-1/4" Mesh Fabric, Add	608.24	
		For 1-3/4" Mesh Fabric, Add	377.97	
		For 2-1/8" Mesh Fabric, Deduct	-188.99	
		For Gate With Single Barb Wire Arm, Add	238.95	
		For Gate With Double Barb Wire Arm, Add	347.56	
32 31 13 13-0526	EA	26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,143.83	263.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-441.24	
		For 1" Mesh Fabric, Add	1,023.68	
		For 1-1/4" Mesh Fabric, Add	658.92	
		For 1-3/4" Mesh Fabric, Add	409.47	
		For 2-1/8" Mesh Fabric, Deduct	-204.74	
		For Gate With Single Barb Wire Arm, Add	258.86	
		For Gate With Double Barb Wire Arm, Add	376.53	
32 31 13 13-0527	EA	28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,482.12	315.64
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-475.18	
		For 1" Mesh Fabric, Add	1,102.42	
		For 1-1/4" Mesh Fabric, Add	709.61	
		For 1-3/4" Mesh Fabric, Add	440.97	
		For 2-1/8" Mesh Fabric, Deduct	-220.48	
		For Gate With Single Barb Wire Arm, Add	278.77	
		For Gate With Double Barb Wire Arm, Add	405.49	
32 31 13 13-0528	EA	30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,901.15	394.88
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-509.13	
		For 1" Mesh Fabric, Add	1,181.17	
		For 1-1/4" Mesh Fabric, Add	760.30	
		For 1-3/4" Mesh Fabric, Add	472.47	
		For 2-1/8" Mesh Fabric, Deduct	-236.23	
		For Gate With Single Barb Wire Arm, Add	298.69	
		For Gate With Double Barb Wire Arm, Add	434.45	
32 31 13 13-0529 12' Fence Height (32 31 13 13-0408)				
32 31 13 13-0530	EA	3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	457.79	47.35
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.17	
		For 1" Mesh Fabric, Add	137.27	
		For 1-1/4" Mesh Fabric, Add	88.36	
		For 1-3/4" Mesh Fabric, Add	54.91	
		For 2-1/8" Mesh Fabric, Deduct	-27.45	
		For Gate With Single Barb Wire Arm, Add	34.71	
		For Gate With Double Barb Wire Arm, Add	50.49	
32 31 13 13-0531	EA	4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	562.69	47.35
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.84	
		For 1" Mesh Fabric, Add	182.90	
		For 1-1/4" Mesh Fabric, Add	117.73	
		For 1-3/4" Mesh Fabric, Add	73.16	
		For 2-1/8" Mesh Fabric, Deduct	-36.58	
		For Gate With Single Barb Wire Arm, Add	46.25	
		For Gate With Double Barb Wire Arm, Add	67.28	
32 31 13 13-0532	EA	5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	645.95	49.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-93.47	
		For 1" Mesh Fabric, Add	216.84	
		For 1-1/4" Mesh Fabric, Add	139.58	
		For 1-3/4" Mesh Fabric, Add	86.74	
		For 2-1/8" Mesh Fabric, Deduct	-43.37	
		For Gate With Single Barb Wire Arm, Add	54.83	
		For Gate With Double Barb Wire Arm, Add	79.76	
32 31 13 13-0533	EA	6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	746.69	60.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-105.66	
		For 1" Mesh Fabric, Add	245.13	
		For 1-1/4" Mesh Fabric, Add	157.78	
		For 1-3/4" Mesh Fabric, Add	98.05	
		For 2-1/8" Mesh Fabric, Deduct	-49.03	
		For Gate With Single Barb Wire Arm, Add	61.99	
		For Gate With Double Barb Wire Arm, Add	90.16	



Exterior Improvements			32	32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32	31	13	13-0534 EA 7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	854.65	72.92
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-119.21	
			For 1" Mesh Fabric, Add	276.56	
			For 1-1/4" Mesh Fabric, Add	178.01	
			For 1-3/4" Mesh Fabric, Add	110.62	
			For 2-1/8" Mesh Fabric, Deduct	-55.31	
			For Gate With Single Barb Wire Arm, Add	69.93	
			For Gate With Double Barb Wire Arm, Add	101.72	
32	31	13	13-0535 EA 8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	961.46	84.45
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.75	
			For 1" Mesh Fabric, Add	307.98	
			For 1-1/4" Mesh Fabric, Add	198.24	
			For 1-3/4" Mesh Fabric, Add	123.19	
			For 2-1/8" Mesh Fabric, Deduct	-61.60	
			For Gate With Single Barb Wire Arm, Add	77.88	
			For Gate With Double Barb Wire Arm, Add	113.28	
32	31	13	13-0536 EA 9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	1,069.42	96.31
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-146.30	
			For 1" Mesh Fabric, Add	339.41	
			For 1-1/4" Mesh Fabric, Add	218.47	
			For 1-3/4" Mesh Fabric, Add	135.76	
			For 2-1/8" Mesh Fabric, Deduct	-67.88	
			For Gate With Single Barb Wire Arm, Add	85.83	
			For Gate With Double Barb Wire Arm, Add	124.84	
32	31	13	13-0537 EA 10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	1,170.16	108.17
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-158.49	
			For 1" Mesh Fabric, Add	367.69	
			For 1-1/4" Mesh Fabric, Add	236.68	
			For 1-3/4" Mesh Fabric, Add	147.08	
			For 2-1/8" Mesh Fabric, Deduct	-73.54	
			For Gate With Single Barb Wire Arm, Add	92.98	
			For Gate With Double Barb Wire Arm, Add	135.24	
32	31	13	13-0538 EA 10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,643.79	125.40
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-237.65	
			For 1" Mesh Fabric, Add	551.35	
			For 1-1/4" Mesh Fabric, Add	354.89	
			For 1-3/4" Mesh Fabric, Add	220.54	
			For 2-1/8" Mesh Fabric, Deduct	-110.27	
			For Gate With Single Barb Wire Arm, Add	139.42	
			For Gate With Double Barb Wire Arm, Add	202.80	
32	31	13	13-0539 EA 12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,967.41	135.00
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-292.92	
			For 1" Mesh Fabric, Add	679.57	
			For 1-1/4" Mesh Fabric, Add	437.42	
			For 1-3/4" Mesh Fabric, Add	271.83	
			For 2-1/8" Mesh Fabric, Deduct	-135.91	
			For Gate With Single Barb Wire Arm, Add	171.85	
			For Gate With Double Barb Wire Arm, Add	249.96	
32	31	13	13-0540 EA 14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,263.23	146.21
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-342.01	
			For 1" Mesh Fabric, Add	793.46	
			For 1-1/4" Mesh Fabric, Add	510.73	
			For 1-3/4" Mesh Fabric, Add	317.38	
			For 2-1/8" Mesh Fabric, Deduct	-158.69	
			For Gate With Single Barb Wire Arm, Add	200.64	
			For Gate With Double Barb Wire Arm, Add	291.85	
32	31	13	13-0541 EA 16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,563.13	159.41
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-390.77	
			For 1" Mesh Fabric, Add	906.59	
			For 1-1/4" Mesh Fabric, Add	583.55	
			For 1-3/4" Mesh Fabric, Add	362.64	
			For 2-1/8" Mesh Fabric, Deduct	-181.32	
			For Gate With Single Barb Wire Arm, Add	229.25	
			For Gate With Double Barb Wire Arm, Add	333.46	
32	31	13	13-0542 EA 18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,867.77	175.56
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-438.89	
			For 1" Mesh Fabric, Add	1,018.22	
			For 1-1/4" Mesh Fabric, Add	655.41	
			For 1-3/4" Mesh Fabric, Add	407.29	
			For 2-1/8" Mesh Fabric, Deduct	-203.64	
			For Gate With Single Barb Wire Arm, Add	257.48	
			For Gate With Double Barb Wire Arm, Add	374.52	
32	31	13	13-0543 EA 20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	3,185.92	194.90
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-487.65	
			For 1" Mesh Fabric, Add	1,131.36	
			For 1-1/4" Mesh Fabric, Add	728.23	
			For 1-3/4" Mesh Fabric, Add	452.54	
			For 2-1/8" Mesh Fabric, Deduct	-226.27	
			For Gate With Single Barb Wire Arm, Add	286.09	
			For Gate With Double Barb Wire Arm, Add	416.13	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0544	EA	22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,519.69	219.31
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-536.42	
		For 1" Mesh Fabric, Add	1,244.49	
		For 1-1/4" Mesh Fabric, Add	801.05	
		For 1-3/4" Mesh Fabric, Add	497.80	
		For 2-1/8" Mesh Fabric, Deduct	-248.90	
		For Gate With Single Barb Wire Arm, Add	314.70	
		For Gate With Double Barb Wire Arm, Add	457.74	
32 31 13 13-0545	EA	24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,873.41	250.53
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-585.18	
		For 1" Mesh Fabric, Add	1,357.63	
		For 1-1/4" Mesh Fabric, Add	873.87	
		For 1-3/4" Mesh Fabric, Add	543.05	
		For 2-1/8" Mesh Fabric, Deduct	-271.53	
		For Gate With Single Barb Wire Arm, Add	343.31	
		For Gate With Double Barb Wire Arm, Add	499.36	
32 31 13 13-0546	EA	26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,268.12	292.56
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-635.58	
		For 1" Mesh Fabric, Add	1,474.54	
		For 1-1/4" Mesh Fabric, Add	949.13	
		For 1-3/4" Mesh Fabric, Add	589.81	
		For 2-1/8" Mesh Fabric, Deduct	-294.91	
		For Gate With Single Barb Wire Arm, Add	372.87	
		For Gate With Double Barb Wire Arm, Add	542.36	
32 31 13 13-0547	EA	28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,702.95	350.72
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-684.34	
		For 1" Mesh Fabric, Add	1,587.67	
		For 1-1/4" Mesh Fabric, Add	1,021.95	
		For 1-3/4" Mesh Fabric, Add	635.07	
		For 2-1/8" Mesh Fabric, Deduct	-317.53	
		For Gate With Single Barb Wire Arm, Add	401.48	
		For Gate With Double Barb Wire Arm, Add	583.97	
32 31 13 13-0548	EA	30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	5,227.48	438.77
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-733.11	
		For 1" Mesh Fabric, Add	1,700.81	
		For 1-1/4" Mesh Fabric, Add	1,094.77	
		For 1-3/4" Mesh Fabric, Add	680.32	
		For 2-1/8" Mesh Fabric, Deduct	-340.16	
		For Gate With Single Barb Wire Arm, Add	430.09	
		For Gate With Double Barb Wire Arm, Add	625.58	
32 31 13 13-0549		Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0266)		
		Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0645 for additional gate accessories, 32 31 13 13-0730 for gate replacement parts.		
32 31 13 13-0550		4' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0549)		
32 31 13 13-0551	EA	10' Long x 4' High Chain Link Galvanized Steel Sliding Gate	2,719.40	433.03
		For 1" Mesh Fabric, Add	806.18	
		For 1-1/4" Mesh Fabric, Add	518.92	
		For 1-3/4" Mesh Fabric, Add	322.47	
		For 2-1/8" Mesh Fabric, Deduct	-161.24	
		For Gate With Barb Wire Arm, Add	203.86	
		For Vinyl Coated, Add	555.98	
32 31 13 13-0552	EA	12' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,269.43	522.82
		For 1" Mesh Fabric, Add	967.41	
		For 1-1/4" Mesh Fabric, Add	622.70	
		For 1-3/4" Mesh Fabric, Add	386.97	
		For 2-1/8" Mesh Fabric, Deduct	-193.48	
		For Gate With Barb Wire Arm, Add	244.63	
		For Vinyl Coated, Add	667.18	
32 31 13 13-0553	EA	14' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,814.57	609.92
		For 1" Mesh Fabric, Add	1,128.65	
		For 1-1/4" Mesh Fabric, Add	726.49	
		For 1-3/4" Mesh Fabric, Add	451.46	
		For 2-1/8" Mesh Fabric, Deduct	-225.73	
		For Gate With Barb Wire Arm, Add	285.41	
		For Vinyl Coated, Add	778.38	
32 31 13 13-0554	EA	16' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,367.31	701.04
		For 1" Mesh Fabric, Add	1,289.89	
		For 1-1/4" Mesh Fabric, Add	830.27	
		For 1-3/4" Mesh Fabric, Add	515.96	
		For 2-1/8" Mesh Fabric, Deduct	-257.98	
		For Gate With Barb Wire Arm, Add	326.18	
		For Vinyl Coated, Add	889.58	
32 31 13 13-0555	EA	18' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,913.28	788.68
		For 1" Mesh Fabric, Add	1,451.13	
		For 1-1/4" Mesh Fabric, Add	934.06	
		For 1-3/4" Mesh Fabric, Add	580.45	
		For 2-1/8" Mesh Fabric, Deduct	-290.23	
		For Gate With Barb Wire Arm, Add	366.95	
		For Vinyl Coated, Add	1,000.78	



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0556	EA	20'	Long x 4' High Chain Link Galvanized Steel Sliding Gate	5,443.05	868.20
			For 1" Mesh Fabric, Add	1,612.36	
			For 1-1/4" Mesh Fabric, Add	1,037.84	
			For 1-3/4" Mesh Fabric, Add	644.94	
			For 2-1/8" Mesh Fabric, Deduct	-322.47	
			For Gate With Barb Wire Arm, Add	407.72	
			For Vinyl Coated, Add	1,111.97	
32 31 13 13-0557	EA	24'	Long x 4' High Chain Link Galvanized Steel Sliding Gate	6,506.23	1,045.49
			For 1" Mesh Fabric, Add	1,920.63	
			For 1-1/4" Mesh Fabric, Add	1,236.27	
			For 1-3/4" Mesh Fabric, Add	768.25	
			For 2-1/8" Mesh Fabric, Deduct	-384.13	
			For Gate With Barb Wire Arm, Add	485.68	
			For Vinyl Coated, Add	1,324.58	
32 31 13 13-0558	EA	30'	Long x 4' High Chain Link Galvanized Steel Sliding Gate	9,506.74	1,973.45
			For 1" Mesh Fabric, Add	2,418.54	
			For 1-1/4" Mesh Fabric, Add	1,556.76	
			For 1-3/4" Mesh Fabric, Add	967.42	
			For 2-1/8" Mesh Fabric, Deduct	-483.71	
			For Gate With Barb Wire Arm, Add	611.58	
			For Vinyl Coated, Add	1,667.96	
32 31 13 13-0559	EA	40'	Long x 4' High Chain Link Galvanized Steel Sliding Gate	12,675.65	2,631.27
			For 1" Mesh Fabric, Add	3,224.72	
			For 1-1/4" Mesh Fabric, Add	2,075.68	
			For 1-3/4" Mesh Fabric, Add	1,289.89	
			For 2-1/8" Mesh Fabric, Deduct	-644.94	
			For Gate With Barb Wire Arm, Add	815.45	
			For Vinyl Coated, Add	2,223.95	
32 31 13 13-0560			5' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0549)		
32 31 13 13-0561	EA	10'	Long x 5' High Chain Link Galvanized Steel Sliding Gate	2,850.37	471.32
			For 1" Mesh Fabric, Add	829.87	
			For 1-1/4" Mesh Fabric, Add	534.17	
			For 1-3/4" Mesh Fabric, Add	331.95	
			For 2-1/8" Mesh Fabric, Deduct	-165.97	
			For Gate With Barb Wire Arm, Add	209.85	
			For Vinyl Coated, Add	572.33	
32 31 13 13-0562	EA	12'	Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,419.13	564.97
			For 1" Mesh Fabric, Add	995.85	
			For 1-1/4" Mesh Fabric, Add	641.01	
			For 1-3/4" Mesh Fabric, Add	398.34	
			For 2-1/8" Mesh Fabric, Deduct	-199.17	
			For Gate With Barb Wire Arm, Add	251.82	
			For Vinyl Coated, Add	686.79	
32 31 13 13-0563	EA	14'	Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,988.76	659.02
			For 1" Mesh Fabric, Add	1,161.82	
			For 1-1/4" Mesh Fabric, Add	747.84	
			For 1-3/4" Mesh Fabric, Add	464.73	
			For 2-1/8" Mesh Fabric, Deduct	-232.36	
			For Gate With Barb Wire Arm, Add	293.79	
			For Vinyl Coated, Add	801.26	
32 31 13 13-0564	EA	16'	Long x 5' High Chain Link Galvanized Steel Sliding Gate	4,558.97	753.34
			For 1" Mesh Fabric, Add	1,327.80	
			For 1-1/4" Mesh Fabric, Add	854.68	
			For 1-3/4" Mesh Fabric, Add	531.12	
			For 2-1/8" Mesh Fabric, Deduct	-265.56	
			For Gate With Barb Wire Arm, Add	335.77	
			For Vinyl Coated, Add	915.73	
32 31 13 13-0565	EA	18'	Long x 5' High Chain Link Galvanized Steel Sliding Gate	5,128.52	847.25
			For 1" Mesh Fabric, Add	1,493.77	
			For 1-1/4" Mesh Fabric, Add	961.51	
			For 1-3/4" Mesh Fabric, Add	597.51	
			For 2-1/8" Mesh Fabric, Deduct	-298.75	
			For Gate With Barb Wire Arm, Add	377.73	
			For Vinyl Coated, Add	1,030.19	
32 31 13 13-0566	EA	20'	Long x 5' High Chain Link Galvanized Steel Sliding Gate	5,698.42	941.43
			For 1" Mesh Fabric, Add	1,659.75	
			For 1-1/4" Mesh Fabric, Add	1,068.34	
			For 1-3/4" Mesh Fabric, Add	663.90	
			For 2-1/8" Mesh Fabric, Deduct	-331.95	
			For Gate With Barb Wire Arm, Add	419.71	
			For Vinyl Coated, Add	1,144.65	
32 31 13 13-0567	EA	24'	Long x 5' High Chain Link Galvanized Steel Sliding Gate	6,807.07	1,131.00
			For 1" Mesh Fabric, Add	1,977.08	
			For 1-1/4" Mesh Fabric, Add	1,272.61	
			For 1-3/4" Mesh Fabric, Add	790.83	
			For 2-1/8" Mesh Fabric, Deduct	-395.42	
			For Gate With Barb Wire Arm, Add	499.95	
			For Vinyl Coated, Add	1,363.51	
32 31 13 13-0568	EA	30'	Long x 5' High Chain Link Galvanized Steel Sliding Gate	8,548.13	1,412.49
			For 1" Mesh Fabric, Add	2,489.62	
			For 1-1/4" Mesh Fabric, Add	1,602.51	
			For 1-3/4" Mesh Fabric, Add	995.85	
			For 2-1/8" Mesh Fabric, Deduct	-497.92	
			For Gate With Barb Wire Arm, Add	629.56	
			For Vinyl Coated, Add	1,716.98	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0569	EA	40' Long x 5' High Chain Link Galvanized Steel Sliding Gate	11,396.84		1,882.87
		For 1" Mesh Fabric, Add	3,319.49		
		For 1-1/4" Mesh Fabric, Add	2,136.68		
		For 1-3/4" Mesh Fabric, Add	1,327.80		
		For 2-1/8" Mesh Fabric, Deduct	-663.90		
		For Gate With Barb Wire Arm, Add	839.41		
		For Vinyl Coated, Add	2,289.30		
32 31 13 13-0570 6' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0549)					
32 31 13 13-0571	EA	10' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,050.91		552.56
		For 1" Mesh Fabric, Add	846.46		
		For 1-1/4" Mesh Fabric, Add	544.85		
		For 1-3/4" Mesh Fabric, Add	338.58		
		For 2-1/8" Mesh Fabric, Deduct	-169.29		
		For Gate With Barb Wire Arm, Add	214.05		
		For Vinyl Coated, Add	583.76		
32 31 13 13-0572	EA	12' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,657.21		661.02
		For 1" Mesh Fabric, Add	1,015.75		
		For 1-1/4" Mesh Fabric, Add	653.82		
		For 1-3/4" Mesh Fabric, Add	406.30		
		For 2-1/8" Mesh Fabric, Deduct	-203.15		
		For Gate With Barb Wire Arm, Add	256.86		
		For Vinyl Coated, Add	700.52		
32 31 13 13-0573	EA	14' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,266.49		771.07
		For 1" Mesh Fabric, Add	1,185.04		
		For 1-1/4" Mesh Fabric, Add	762.79		
		For 1-3/4" Mesh Fabric, Add	474.02		
		For 2-1/8" Mesh Fabric, Deduct	-237.01		
		For Gate With Barb Wire Arm, Add	299.67		
		For Vinyl Coated, Add	817.27		
32 31 13 13-0574	EA	16' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,876.27		881.40
		For 1" Mesh Fabric, Add	1,354.33		
		For 1-1/4" Mesh Fabric, Add	871.75		
		For 1-3/4" Mesh Fabric, Add	541.73		
		For 2-1/8" Mesh Fabric, Deduct	-270.87		
		For Gate With Barb Wire Arm, Add	342.48		
		For Vinyl Coated, Add	934.02		
32 31 13 13-0575	EA	18' Long x 6' High Chain Link Galvanized Steel Sliding Gate	5,485.56		991.46
		For 1" Mesh Fabric, Add	1,523.63		
		For 1-1/4" Mesh Fabric, Add	980.73		
		For 1-3/4" Mesh Fabric, Add	609.45		
		For 2-1/8" Mesh Fabric, Deduct	-304.73		
		For Gate With Barb Wire Arm, Add	385.28		
		For Vinyl Coated, Add	1,050.78		
32 31 13 13-0576	EA	20' Long x 6' High Chain Link Galvanized Steel Sliding Gate	6,102.28		1,105.26
		For 1" Mesh Fabric, Add	1,692.92		
		For 1-1/4" Mesh Fabric, Add	1,089.70		
		For 1-3/4" Mesh Fabric, Add	677.17		
		For 2-1/8" Mesh Fabric, Deduct	-338.58		
		For Gate With Barb Wire Arm, Add	428.09		
		For Vinyl Coated, Add	1,167.53		
32 31 13 13-0577	EA	24' Long x 6' High Chain Link Galvanized Steel Sliding Gate	7,280.15		1,322.17
		For 1" Mesh Fabric, Add	2,016.60		
		For 1-1/4" Mesh Fabric, Add	1,298.04		
		For 1-3/4" Mesh Fabric, Add	806.64		
		For 2-1/8" Mesh Fabric, Deduct	-403.32		
		For Gate With Barb Wire Arm, Add	509.94		
		For Vinyl Coated, Add	1,390.76		
32 31 13 13-0578	EA	30' Long x 6' High Chain Link Galvanized Steel Sliding Gate	9,143.83		1,653.14
		For 1" Mesh Fabric, Add	2,539.38		
		For 1-1/4" Mesh Fabric, Add	1,634.54		
		For 1-3/4" Mesh Fabric, Add	1,015.75		
		For 2-1/8" Mesh Fabric, Deduct	-507.88		
		For Gate With Barb Wire Arm, Add	642.14		
		For Vinyl Coated, Add	1,751.30		
32 31 13 13-0579	EA	40' Long x 6' High Chain Link Galvanized Steel Sliding Gate	12,189.95		2,203.18
		For 1" Mesh Fabric, Add	3,385.84		
		For 1-1/4" Mesh Fabric, Add	2,179.39		
		For 1-3/4" Mesh Fabric, Add	1,354.33		
		For 2-1/8" Mesh Fabric, Deduct	-677.17		
		For Gate With Barb Wire Arm, Add	856.19		
		For Vinyl Coated, Add	2,335.06		
32 31 13 13-0580 7' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0549)					
32 31 13 13-0581	EA	10' Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,254.80		616.32
		For 1" Mesh Fabric, Add	879.63		
		For 1-1/4" Mesh Fabric, Add	566.20		
		For 1-3/4" Mesh Fabric, Add	351.85		
		For 2-1/8" Mesh Fabric, Deduct	-175.93		
		For Gate With Barb Wire Arm, Add	222.44		
		For Vinyl Coated, Add	606.64		



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0582	EA	12'	Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,904.81	739.06
			For 1" Mesh Fabric, Add	1,055.59	
			For 1-1/4" Mesh Fabric, Add	679.46	
			For 1-3/4" Mesh Fabric, Add	422.24	
			For 2-1/8" Mesh Fabric, Deduct	-211.12	
			For Gate With Barb Wire Arm, Add	266.93	
			For Vinyl Coated, Add	727.99	
32 31 13 13-0583	EA	14'	Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,556.79	862.86
			For 1" Mesh Fabric, Add	1,231.48	
			For 1-1/4" Mesh Fabric, Add	792.68	
			For 1-3/4" Mesh Fabric, Add	492.59	
			For 2-1/8" Mesh Fabric, Deduct	-246.30	
			For Gate With Barb Wire Arm, Add	311.41	
			For Vinyl Coated, Add	849.30	
32 31 13 13-0584	EA	16'	Long x 7' High Chain Link Galvanized Steel Sliding Gate	5,206.67	985.59
			For 1" Mesh Fabric, Add	1,407.41	
			For 1-1/4" Mesh Fabric, Add	905.92	
			For 1-3/4" Mesh Fabric, Add	562.96	
			For 2-1/8" Mesh Fabric, Deduct	-281.48	
			For Gate With Barb Wire Arm, Add	355.90	
			For Vinyl Coated, Add	970.63	
32 31 13 13-0585	EA	18'	Long x 7' High Chain Link Galvanized Steel Sliding Gate	5,857.71	1,109.00
			For 1" Mesh Fabric, Add	1,583.33	
			For 1-1/4" Mesh Fabric, Add	1,019.16	
			For 1-3/4" Mesh Fabric, Add	633.33	
			For 2-1/8" Mesh Fabric, Deduct	-316.67	
			For Gate With Barb Wire Arm, Add	400.38	
			For Vinyl Coated, Add	1,091.96	
32 31 13 13-0586	EA	20'	Long x 7' High Chain Link Galvanized Steel Sliding Gate	6,507.89	1,231.85
			For 1" Mesh Fabric, Add	1,759.26	
			For 1-1/4" Mesh Fabric, Add	1,132.40	
			For 1-3/4" Mesh Fabric, Add	703.70	
			For 2-1/8" Mesh Fabric, Deduct	-351.85	
			For Gate With Barb Wire Arm, Add	444.87	
			For Vinyl Coated, Add	1,213.28	
32 31 13 13-0587	EA	24'	Long x 7' High Chain Link Galvanized Steel Sliding Gate	7,773.86	1,478.12
			For 1" Mesh Fabric, Add	2,095.63	
			For 1-1/4" Mesh Fabric, Add	1,348.91	
			For 1-3/4" Mesh Fabric, Add	838.25	
			For 2-1/8" Mesh Fabric, Deduct	-419.13	
			For Gate With Barb Wire Arm, Add	529.93	
			For Vinyl Coated, Add	1,445.26	
32 31 13 13-0588	EA	30'	Long x 7' High Chain Link Galvanized Steel Sliding Gate	9,761.83	1,847.65
			For 1" Mesh Fabric, Add	2,638.89	
			For 1-1/4" Mesh Fabric, Add	1,698.59	
			For 1-3/4" Mesh Fabric, Add	1,055.56	
			For 2-1/8" Mesh Fabric, Deduct	-527.78	
			For Gate With Barb Wire Arm, Add	667.31	
			For Vinyl Coated, Add	1,819.92	
32 31 13 13-0589	EA	40'	Long x 7' High Chain Link Galvanized Steel Sliding Gate	13,015.77	2,463.58
			For 1" Mesh Fabric, Add	3,518.52	
			For 1-1/4" Mesh Fabric, Add	2,264.79	
			For 1-3/4" Mesh Fabric, Add	1,407.41	
			For 2-1/8" Mesh Fabric, Deduct	-703.70	
			For Gate With Barb Wire Arm, Add	889.74	
			For Vinyl Coated, Add	2,426.57	
32 31 13 13-0590			8' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0549)		
32 31 13 13-0591	EA	10'	Long x 8' High Chain Link Galvanized Steel Sliding Gate	3,417.44	667.69
			For 1" Mesh Fabric, Add	905.70	
			For 1-1/4" Mesh Fabric, Add	582.98	
			For 1-3/4" Mesh Fabric, Add	362.28	
			For 2-1/8" Mesh Fabric, Deduct	-181.14	
			For Gate With Barb Wire Arm, Add	229.03	
			For Vinyl Coated, Add	624.62	
32 31 13 13-0592	EA	12'	Long x 8' High Chain Link Galvanized Steel Sliding Gate	4,097.08	799.36
			For 1" Mesh Fabric, Add	1,086.83	
			For 1-1/4" Mesh Fabric, Add	699.57	
			For 1-3/4" Mesh Fabric, Add	434.73	
			For 2-1/8" Mesh Fabric, Deduct	-217.37	
			For Gate With Barb Wire Arm, Add	274.83	
			For Vinyl Coated, Add	749.54	
32 31 13 13-0593	EA	14'	Long x 8' High Chain Link Galvanized Steel Sliding Gate	4,780.01	932.63
			For 1" Mesh Fabric, Add	1,267.97	
			For 1-1/4" Mesh Fabric, Add	816.16	
			For 1-3/4" Mesh Fabric, Add	507.19	
			For 2-1/8" Mesh Fabric, Deduct	-253.59	
			For Gate With Barb Wire Arm, Add	320.64	
			For Vinyl Coated, Add	874.46	
32 31 13 13-0594	EA	16'	Long x 8' High Chain Link Galvanized Steel Sliding Gate	5,463.19	1,065.91
			For 1" Mesh Fabric, Add	1,449.11	
			For 1-1/4" Mesh Fabric, Add	932.76	
			For 1-3/4" Mesh Fabric, Add	579.64	
			For 2-1/8" Mesh Fabric, Deduct	-289.82	
			For Gate With Barb Wire Arm, Add	366.44	
			For Vinyl Coated, Add	999.38	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0595	EA	18' Long x 8' High Chain Link Galvanized Steel Sliding Gate	6,144.89	1,198.64
		For 1" Mesh Fabric, Add	1,630.25	
		For 1-1/4" Mesh Fabric, Add	1,049.35	
		For 1-3/4" Mesh Fabric, Add	652.10	
		For 2-1/8" Mesh Fabric, Deduct	-326.05	
		For Gate With Barb Wire Arm, Add	412.25	
		For Vinyl Coated, Add	1,124.31	
32 31 13 13-0596	EA	20' Long x 8' High Chain Link Galvanized Steel Sliding Gate	6,828.19	1,332.04
		For 1" Mesh Fabric, Add	1,811.38	
		For 1-1/4" Mesh Fabric, Add	1,165.95	
		For 1-3/4" Mesh Fabric, Add	724.55	
		For 2-1/8" Mesh Fabric, Deduct	-362.28	
		For Gate With Barb Wire Arm, Add	458.05	
		For Vinyl Coated, Add	1,249.23	
32 31 13 13-0597	EA	24' Long x 8' High Chain Link Galvanized Steel Sliding Gate	8,157.50	1,598.59
		For 1" Mesh Fabric, Add	2,157.72	
		For 1-1/4" Mesh Fabric, Add	1,388.88	
		For 1-3/4" Mesh Fabric, Add	863.09	
		For 2-1/8" Mesh Fabric, Deduct	-431.54	
		For Gate With Barb Wire Arm, Add	545.63	
		For Vinyl Coated, Add	1,488.08	
32 31 13 13-0598	EA	30' Long x 8' High Chain Link Galvanized Steel Sliding Gate	10,243.30	1,998.54
		For 1" Mesh Fabric, Add	2,717.08	
		For 1-1/4" Mesh Fabric, Add	1,748.92	
		For 1-3/4" Mesh Fabric, Add	1,086.83	
		For 2-1/8" Mesh Fabric, Deduct	-543.42	
		For Gate With Barb Wire Arm, Add	687.08	
		For Vinyl Coated, Add	1,873.85	
32 31 13 13-0599	EA	40' Long x 8' High Chain Link Galvanized Steel Sliding Gate	13,653.74	2,662.76
		For 1" Mesh Fabric, Add	3,622.77	
		For 1-1/4" Mesh Fabric, Add	2,331.90	
		For 1-3/4" Mesh Fabric, Add	1,449.11	
		For 2-1/8" Mesh Fabric, Deduct	-724.55	
		For Gate With Barb Wire Arm, Add	916.10	
		For Vinyl Coated, Add	2,498.46	
32 31 13 13-0600		9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0549)		
32 31 13 13-0601	EA	10' Long x 9' High Chain Link Galvanized Steel Sliding Gate	3,609.64	728.39
		For 1" Mesh Fabric, Add	936.49	
		For 1-1/4" Mesh Fabric, Add	602.80	
		For 1-3/4" Mesh Fabric, Add	374.60	
		For 2-1/8" Mesh Fabric, Deduct	-187.30	
		For Gate With Barb Wire Arm, Add	236.81	
		For Vinyl Coated, Add	645.86	
32 31 13 13-0602	EA	12' Long x 9' High Chain Link Galvanized Steel Sliding Gate	4,326.14	871.40
		For 1" Mesh Fabric, Add	1,123.79	
		For 1-1/4" Mesh Fabric, Add	723.36	
		For 1-3/4" Mesh Fabric, Add	449.52	
		For 2-1/8" Mesh Fabric, Deduct	-224.76	
		For Gate With Barb Wire Arm, Add	284.18	
		For Vinyl Coated, Add	775.03	
32 31 13 13-0603	EA	14' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,046.84	1,016.41
		For 1" Mesh Fabric, Add	1,311.09	
		For 1-1/4" Mesh Fabric, Add	843.92	
		For 1-3/4" Mesh Fabric, Add	524.44	
		For 2-1/8" Mesh Fabric, Deduct	-262.22	
		For Gate With Barb Wire Arm, Add	331.54	
		For Vinyl Coated, Add	904.20	
32 31 13 13-0604	EA	16' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,768.68	1,162.09
		For 1" Mesh Fabric, Add	1,498.39	
		For 1-1/4" Mesh Fabric, Add	964.48	
		For 1-3/4" Mesh Fabric, Add	599.36	
		For 2-1/8" Mesh Fabric, Deduct	-299.68	
		For Gate With Barb Wire Arm, Add	378.90	
		For Vinyl Coated, Add	1,033.37	
32 31 13 13-0605	EA	18' Long x 9' High Chain Link Galvanized Steel Sliding Gate	6,489.64	1,307.23
		For 1" Mesh Fabric, Add	1,685.69	
		For 1-1/4" Mesh Fabric, Add	1,085.04	
		For 1-3/4" Mesh Fabric, Add	674.28	
		For 2-1/8" Mesh Fabric, Deduct	-337.14	
		For Gate With Barb Wire Arm, Add	426.27	
		For Vinyl Coated, Add	1,162.55	
32 31 13 13-0606	EA	20' Long x 9' High Chain Link Galvanized Steel Sliding Gate	7,210.56	1,452.38
		For 1" Mesh Fabric, Add	1,872.99	
		For 1-1/4" Mesh Fabric, Add	1,205.60	
		For 1-3/4" Mesh Fabric, Add	749.20	
		For 2-1/8" Mesh Fabric, Deduct	-374.60	
		For Gate With Barb Wire Arm, Add	473.63	
		For Vinyl Coated, Add	1,291.72	
32 31 13 13-0607	EA	24' Long x 9' High Chain Link Galvanized Steel Sliding Gate	8,614.38	1,742.66
		For 1" Mesh Fabric, Add	2,231.10	
		For 1-1/4" Mesh Fabric, Add	1,436.11	
		For 1-3/4" Mesh Fabric, Add	892.44	
		For 2-1/8" Mesh Fabric, Deduct	-446.22	
		For Gate With Barb Wire Arm, Add	564.19	
		For Vinyl Coated, Add	1,538.69	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0608	EA	30'	Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	10,814.65	2,178.09
			For 1" Mesh Fabric, Add	2,809.48	
			For 1-1/4" Mesh Fabric, Add	1,808.40	
			For 1-3/4" Mesh Fabric, Add	1,123.79	
			For 2-1/8" Mesh Fabric, Deduct	-561.90	
			For Gate With Barb Wire Arm, Add	710.44	
			For Vinyl Coated, Add	1,937.57	
32 31 13 13-0609	EA	40'	Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	14,424.29	2,906.48
			For 1" Mesh Fabric, Add	3,745.99	
			For 1-1/4" Mesh Fabric, Add	2,411.21	
			For 1-3/4" Mesh Fabric, Add	1,498.39	
			For 2-1/8" Mesh Fabric, Deduct	-749.20	
			For Gate With Barb Wire Arm, Add	947.26	
			For Vinyl Coated, Add	2,583.44	
32 31 13 13-0610			10' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0549)		
32 31 13 13-0611	EA	10'	Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	3,847.91	801.23
			For 1" Mesh Fabric, Add	976.78	
			For 1-1/4" Mesh Fabric, Add	628.73	
			For 1-3/4" Mesh Fabric, Add	390.71	
			For 2-1/8" Mesh Fabric, Deduct	-195.36	
			For Gate With Barb Wire Arm, Add	247.00	
			For Vinyl Coated, Add	673.64	
32 31 13 13-0612	EA	12'	Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	4,617.49	961.44
			For 1" Mesh Fabric, Add	1,172.13	
			For 1-1/4" Mesh Fabric, Add	754.47	
			For 1-3/4" Mesh Fabric, Add	468.85	
			For 2-1/8" Mesh Fabric, Deduct	-234.43	
			For Gate With Barb Wire Arm, Add	296.40	
			For Vinyl Coated, Add	808.37	
32 31 13 13-0613	EA	14'	Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	5,387.63	1,121.93
			For 1" Mesh Fabric, Add	1,367.49	
			For 1-1/4" Mesh Fabric, Add	880.22	
			For 1-3/4" Mesh Fabric, Add	547.00	
			For 2-1/8" Mesh Fabric, Deduct	-273.50	
			For Gate With Barb Wire Arm, Add	345.80	
			For Vinyl Coated, Add	943.10	
32 31 13 13-0614	EA	16'	Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	6,156.98	1,282.15
			For 1" Mesh Fabric, Add	1,562.84	
			For 1-1/4" Mesh Fabric, Add	1,005.97	
			For 1-3/4" Mesh Fabric, Add	625.14	
			For 2-1/8" Mesh Fabric, Deduct	-312.57	
			For Gate With Barb Wire Arm, Add	395.20	
			For Vinyl Coated, Add	1,077.82	
32 31 13 13-0615	EA	18'	Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	6,926.24	1,442.23
			For 1" Mesh Fabric, Add	1,758.19	
			For 1-1/4" Mesh Fabric, Add	1,131.71	
			For 1-3/4" Mesh Fabric, Add	703.28	
			For 2-1/8" Mesh Fabric, Deduct	-351.64	
			For Gate With Barb Wire Arm, Add	444.60	
			For Vinyl Coated, Add	1,212.55	
32 31 13 13-0616	EA	20'	Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	7,695.82	1,602.45
			For 1" Mesh Fabric, Add	1,953.55	
			For 1-1/4" Mesh Fabric, Add	1,257.45	
			For 1-3/4" Mesh Fabric, Add	781.42	
			For 2-1/8" Mesh Fabric, Deduct	-390.71	
			For Gate With Barb Wire Arm, Add	494.00	
			For Vinyl Coated, Add	1,347.27	
32 31 13 13-0617	EA	24'	Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	9,196.85	1,923.69
			For 1" Mesh Fabric, Add	2,327.06	
			For 1-1/4" Mesh Fabric, Add	1,497.88	
			For 1-3/4" Mesh Fabric, Add	930.83	
			For 2-1/8" Mesh Fabric, Deduct	-465.41	
			For Gate With Barb Wire Arm, Add	588.45	
			For Vinyl Coated, Add	1,604.87	
32 31 13 13-0618	EA	30'	Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	11,543.74	2,403.68
			For 1" Mesh Fabric, Add	2,930.32	
			For 1-1/4" Mesh Fabric, Add	1,886.18	
			For 1-3/4" Mesh Fabric, Add	1,172.13	
			For 2-1/8" Mesh Fabric, Deduct	-586.06	
			For Gate With Barb Wire Arm, Add	741.00	
			For Vinyl Coated, Add	2,020.91	
32 31 13 13-0619	EA	40'	Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	15,387.82	3,203.04
			For 1" Mesh Fabric, Add	3,907.10	
			For 1-1/4" Mesh Fabric, Add	2,514.92	
			For 1-3/4" Mesh Fabric, Add	1,562.84	
			For 2-1/8" Mesh Fabric, Deduct	-781.42	
			For Gate With Barb Wire Arm, Add	988.00	
			For Vinyl Coated, Add	2,694.55	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0620		Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller ⁽³²⁾ 31 13 13-0266 Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0021 for gate operators.			
32 31 13 13-0621	EA	5' High x 10' Wide Galvanized Cantilever Sliding Gate.....	7,636.24		533.62
		For 1" Mesh Fabric, Add	2,857.52		
		For 1-1/4" Mesh Fabric, Add	1,839.32		
		For 1-3/4" Mesh Fabric, Add	1,143.01		
		For 2-1/8" Mesh Fabric, Deduct	-571.50		
		For Gate With Single Barb Wire Arm, Add	722.59		
		For Gate With Double Barb Wire Arm, Add	1,051.04		
		For Aluminized Steel Gate And Post, Add	3,153.12		
		For Powder Coated Gate And Post, Add	1,379.49		
		For Vinyl Coated, Add	1,970.70		
32 31 13 13-0622	EA	5' High x 12' Wide Galvanized Cantilever Sliding Gate.....	8,350.21		667.03
		For 1" Mesh Fabric, Add	3,052.03		
		For 1-1/4" Mesh Fabric, Add	1,964.53		
		For 1-3/4" Mesh Fabric, Add	1,220.81		
		For 2-1/8" Mesh Fabric, Deduct	-610.41		
		For Gate With Single Barb Wire Arm, Add	771.78		
		For Gate With Double Barb Wire Arm, Add	1,122.59		
		For Aluminized Steel Gate And Post, Add	3,367.76		
		For Powder Coated Gate And Post, Add	1,473.40		
		For Vinyl Coated, Add	2,104.85		
32 31 13 13-0623	EA	5' High x 15' Wide Galvanized Cantilever Sliding Gate.....	9,070.35		800.42
		For 1" Mesh Fabric, Add	3,249.23		
		For 1-1/4" Mesh Fabric, Add	2,091.46		
		For 1-3/4" Mesh Fabric, Add	1,299.69		
		For 2-1/8" Mesh Fabric, Deduct	-649.85		
		For Gate With Single Barb Wire Arm, Add	821.64		
		For Gate With Double Barb Wire Arm, Add	1,195.12		
		For Aluminized Steel Gate And Post, Add	3,585.36		
		For Powder Coated Gate And Post, Add	1,568.59		
		For Vinyl Coated, Add	2,240.85		
32 31 13 13-0624	EA	5' High x 20' Wide Galvanized Cantilever Sliding Gate.....	10,599.88		1,067.24
		For 1" Mesh Fabric, Add	3,682.45		
		For 1-1/4" Mesh Fabric, Add	2,370.31		
		For 1-3/4" Mesh Fabric, Add	1,472.98		
		For 2-1/8" Mesh Fabric, Deduct	-736.49		
		For Gate With Single Barb Wire Arm, Add	931.20		
		For Gate With Double Barb Wire Arm, Add	1,354.47		
		For Aluminized Steel Gate And Post, Add	4,063.40		
		For Powder Coated Gate And Post, Add	1,777.74		
		For Vinyl Coated, Add	2,539.62		
32 31 13 13-0625	EA	6' High x 15' Wide Galvanized Cantilever Sliding Gate.....	9,827.16		1,067.24
		For 1" Mesh Fabric, Add	3,346.32		
		For 1-1/4" Mesh Fabric, Add	2,153.95		
		For 1-3/4" Mesh Fabric, Add	1,338.53		
		For 2-1/8" Mesh Fabric, Deduct	-669.26		
		For Gate With Single Barb Wire Arm, Add	846.20		
		For Gate With Double Barb Wire Arm, Add	1,230.83		
		For Aluminized Steel Gate And Post, Add	3,692.49		
		For Powder Coated Gate And Post, Add	1,615.46		
		For Vinyl Coated, Add	2,307.81		
32 31 13 13-0626	EA	6' High x 20' Wide Galvanized Cantilever Sliding Gate.....	11,465.01		1,400.75
		For 1" Mesh Fabric, Add	3,768.63		
		For 1-1/4" Mesh Fabric, Add	2,425.78		
		For 1-3/4" Mesh Fabric, Add	1,507.45		
		For 2-1/8" Mesh Fabric, Deduct	-753.73		
		For Gate With Single Barb Wire Arm, Add	952.99		
		For Gate With Double Barb Wire Arm, Add	1,386.16		
		For Aluminized Steel Gate And Post, Add	4,158.48		
		For Powder Coated Gate And Post, Add	1,819.34		
		For Vinyl Coated, Add	2,599.05		
32 31 13 13-0627	EA	6' High x 25' Wide Galvanized Cantilever Sliding Gate.....	15,243.45		1,734.25
		For 1" Mesh Fabric, Add	5,122.09		
		For 1-1/4" Mesh Fabric, Add	3,296.98		
		For 1-3/4" Mesh Fabric, Add	2,048.84		
		For 2-1/8" Mesh Fabric, Deduct	-1,024.42		
		For Gate With Single Barb Wire Arm, Add	1,295.24		
		For Gate With Double Barb Wire Arm, Add	1,883.99		
		For Aluminized Steel Gate And Post, Add	5,651.97		
		For Powder Coated Gate And Post, Add	2,472.74		
		For Vinyl Coated, Add	3,532.48		
32 31 13 13-0628	EA	6' High x 30' Wide Galvanized Cantilever Sliding Gate.....	17,130.65		2,067.77
		For 1" Mesh Fabric, Add	5,652.87		
		For 1-1/4" Mesh Fabric, Add	3,638.63		
		For 1-3/4" Mesh Fabric, Add	2,261.15		
		For 2-1/8" Mesh Fabric, Deduct	-1,130.57		
		For Gate With Single Barb Wire Arm, Add	1,429.46		
		For Gate With Double Barb Wire Arm, Add	2,079.22		
		For Aluminized Steel Gate And Post, Add	6,237.65		
		For Powder Coated Gate And Post, Add	2,728.97		
		For Vinyl Coated, Add	3,898.53		



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0629	EA	6' High x 36' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	20,129.88 6,783.45 4,366.36 2,713.38 -1,356.69 1,715.35 2,495.06 7,485.18 3,274.77 4,678.24	2,267.87
32 31 13	13-0630	EA	8' High x 15' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	11,469.35 3,828.55 2,464.35 1,531.42 -765.71 968.14 1,408.20 4,224.60 1,848.26 2,640.38	1,334.04
32 31 13	13-0631	EA	8' High x 20' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	13,512.25 4,310.99 2,774.89 1,724.40 -862.20 1,090.14 1,585.65 4,756.96 2,081.17 2,973.10	1,800.96
32 31 13	13-0632	EA	8' High x 25' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	18,005.23 5,859.22 3,771.45 2,343.69 -1,171.84 1,481.64 2,155.12 6,465.35 2,828.59 4,040.84	2,267.87
32 31 13	13-0633	EA	8' High x 30' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	20,199.73 6,465.64 4,161.79 2,586.26 -1,293.13 1,634.99 2,378.17 7,134.50 3,121.35 4,459.07	2,668.09
32 31 13	13-0634	EA	8' High x 36' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	23,706.05 7,758.77 4,994.15 3,103.51 -1,551.75 1,961.99 2,853.80 8,561.40 3,745.61 5,350.88	2,934.90
32 31 13	13-0635	EA	10' High x 15' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	13,103.13 4,307.12 2,772.40 1,722.85 -861.42 1,089.16 1,584.23 4,752.68 2,079.30 2,970.43	1,600.86
32 31 13	13-0636	EA	10' High x 20' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	15,160.78 4,795.98 3,087.07 1,918.39 -959.20 1,212.78 1,764.04 5,292.12 2,315.30 3,307.57	2,067.77

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0637	EA	10' High x 25' Wide Galvanized Cantilever Sliding Gate.....	19,955.73		2,401.28
		For 1" Mesh Fabric, Add	6,591.63		
		For 1-1/4" Mesh Fabric, Add	4,242.89		
		For 1-3/4" Mesh Fabric, Add	2,636.65		
		For 2-1/8" Mesh Fabric, Deduct	-1,318.33		
		For Gate With Single Barb Wire Arm, Add	1,666.85		
		For Gate With Double Barb Wire Arm, Add	2,424.51		
		For Aluminized Steel Gate And Post, Add	7,273.52		
		For Powder Coated Gate And Post, Add	3,182.17		
		For Vinyl Coated, Add	4,545.95		
32 31 13 13-0638	EA	10' High x 30' Wide Galvanized Cantilever Sliding Gate.....	22,324.49		2,801.49
		For 1" Mesh Fabric, Add	7,273.85		
		For 1-1/4" Mesh Fabric, Add	4,682.02		
		For 1-3/4" Mesh Fabric, Add	2,909.54		
		For 2-1/8" Mesh Fabric, Deduct	-1,454.77		
		For Gate With Single Barb Wire Arm, Add	1,839.37		
		For Gate With Double Barb Wire Arm, Add	2,675.44		
		For Aluminized Steel Gate And Post, Add	8,026.32		
		For Powder Coated Gate And Post, Add	3,511.52		
		For Vinyl Coated, Add	5,016.45		
32 31 13 13-0639	EA	10' High x 36' Wide Galvanized Cantilever Sliding Gate.....	26,202.40		3,068.30
		For 1" Mesh Fabric, Add	8,728.62		
		For 1-1/4" Mesh Fabric, Add	5,618.42		
		For 1-3/4" Mesh Fabric, Add	3,491.45		
		For 2-1/8" Mesh Fabric, Deduct	-1,745.72		
		For Gate With Single Barb Wire Arm, Add	2,207.24		
		For Gate With Double Barb Wire Arm, Add	3,210.53		
		For Aluminized Steel Gate And Post, Add	9,631.58		
		For Powder Coated Gate And Post, Add	4,213.82		
		For Vinyl Coated, Add	6,019.74		
32 31 13 13-0640	EA	12' High x 15' Wide Galvanized Cantilever Sliding Gate.....	15,483.63		1,800.96
		For 1" Mesh Fabric, Add	5,168.54		
		For 1-1/4" Mesh Fabric, Add	3,326.88		
		For 1-3/4" Mesh Fabric, Add	2,067.42		
		For 2-1/8" Mesh Fabric, Deduct	-1,033.71		
		For Gate With Single Barb Wire Arm, Add	1,306.99		
		For Gate With Double Barb Wire Arm, Add	1,901.07		
		For Aluminized Steel Gate And Post, Add	5,703.22		
		For Powder Coated Gate And Post, Add	2,495.16		
		For Vinyl Coated, Add	3,564.51		
32 31 13 13-0641	EA	12' High x 20' Wide Galvanized Cantilever Sliding Gate.....	17,914.69		2,267.87
		For 1" Mesh Fabric, Add	5,819.84		
		For 1-1/4" Mesh Fabric, Add	3,746.10		
		For 1-3/4" Mesh Fabric, Add	2,327.94		
		For 2-1/8" Mesh Fabric, Deduct	-1,163.97		
		For Gate With Single Barb Wire Arm, Add	1,471.68		
		For Gate With Double Barb Wire Arm, Add	2,140.63		
		For Aluminized Steel Gate And Post, Add	6,421.89		
		For Powder Coated Gate And Post, Add	2,809.58		
		For Vinyl Coated, Add	4,013.68		
32 31 13 13-0642	EA	12' High x 25' Wide Galvanized Cantilever Sliding Gate.....	23,386.57		2,601.38
		For 1" Mesh Fabric, Add	7,909.95		
		For 1-1/4" Mesh Fabric, Add	5,091.46		
		For 1-3/4" Mesh Fabric, Add	3,163.98		
		For 2-1/8" Mesh Fabric, Deduct	-1,581.99		
		For Gate With Single Barb Wire Arm, Add	2,000.22		
		For Gate With Double Barb Wire Arm, Add	2,909.41		
		For Aluminized Steel Gate And Post, Add	8,728.22		
		For Powder Coated Gate And Post, Add	3,818.60		
		For Vinyl Coated, Add	5,455.14		
32 31 13 13-0643	EA	12' High x 30' Wide Galvanized Cantilever Sliding Gate.....	25,935.58		2,934.90
		For 1" Mesh Fabric, Add	8,728.62		
		For 1-1/4" Mesh Fabric, Add	5,618.42		
		For 1-3/4" Mesh Fabric, Add	3,491.45		
		For 2-1/8" Mesh Fabric, Deduct	-1,745.72		
		For Gate With Single Barb Wire Arm, Add	2,207.24		
		For Gate With Double Barb Wire Arm, Add	3,210.53		
		For Aluminized Steel Gate And Post, Add	9,631.58		
		For Powder Coated Gate And Post, Add	4,213.82		
		For Vinyl Coated, Add	6,019.74		
32 31 13 13-0644	EA	12' High x 36' Wide Galvanized Cantilever Sliding Gate.....	29,441.92		3,201.71
		For 1" Mesh Fabric, Add	10,021.75		
		For 1-1/4" Mesh Fabric, Add	6,450.78		
		For 1-3/4" Mesh Fabric, Add	4,008.70		
		For 2-1/8" Mesh Fabric, Deduct	-2,004.35		
		For Gate With Single Barb Wire Arm, Add	2,534.24		
		For Gate With Double Barb Wire Arm, Add	3,686.16		
		For Aluminized Steel Gate And Post, Add	11,058.48		
		For Powder Coated Gate And Post, Add	4,838.09		
		For Vinyl Coated, Add	6,911.55		
32 31 13 13-0645		Gate Accessories (32 31 13 13-0266)			
32 31 13 13-0646	EA	3" Wheel Diameter, 1" Wheel Width, Black Rubber, Spring-loaded Gate Caster	63.63		14.38
		Note: 100 Lb. max weight capacity			
32 31 13 13-0647	EA	4" Wheel Diameter, 1-1/4" Wheel Width, Black Rubber, Spring-loaded Gate Caster	74.14		14.38
		Note: 225 Lb. max weight capacity			



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0648	EA		6" Wheel Diameter, 2" Wheel Width, Black Rubber, Spring-loaded Gate Caster Note: 550 Lb. max weight capacity	141.66	14.38
32 31 13 13-0649	EA		Gate Center Stop, Cast Steel, Ground	39.79	
32 31 13 13-0650	EA		Gate Latch, Malleable Galvanized Steel	51.38	
32 31 13 13-0651	EA		Gate Keeper, Full Length, Galvanized Steel.....	229.10	
32 31 13 13-0652	EA		Gate Keeper Hold-Open For Cantilever Gate	119.47	21.89
32 31 13 13-0653	EA		Heavy-Duty Gate Latch, Malleable Galvanized Steel	67.97	
32 31 13 13-0654	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate.....	1,145.45	
32 31 13 13-0655	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >5' To 8' High Gate	1,228.22	
32 31 13 13-0656	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >8' To 12' High Gate	1,310.98	
32 31 13 13-0657	LF		Aluminum V-Groove Gate Track.....	62.89	12.68
32 31 13 13-0658	LF		Galvanized Steel V-Groove Gate Track.....	46.94	12.68
32 31 13 13-0659			Vertical-Pivot Lift Gate (32 31 13 13-0266) Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.		
32 31 13 13-0660	EA		5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add	29,848.97 239.00 245.00	1,000.53
32 31 13 13-0661	EA		5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add	30,249.18 239.00 245.00	1,200.64
32 31 13 13-0662	EA		5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	30,649.39 239.00 245.00 287.50	1,400.75
32 31 13 13-0663	EA		5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	31,398.80 239.00 245.00 317.50	1,600.86
32 31 13 13-0664	EA		5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	32,130.74 239.00 245.00 317.50	1,800.96
32 31 13 13-0665	EA		6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add	31,130.20 239.00 245.00	1,300.70
32 31 13 13-0666	EA		6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add	31,530.42 239.00 245.00	1,500.80
32 31 13 13-0667	EA		6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	31,930.64 239.00 245.00 287.50	1,700.91
32 31 13 13-0668	EA		6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	32,522.91 239.00 245.00 317.50	1,901.01
32 31 13 13-0669	EA		6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate..... For Curb Notch, Add For Prewired Loop Kit, Add For Wind Bracing, Add	33,411.98 239.00 245.00 317.50	2,101.12
32 31 13 13-0670			Accessories (32 31 13 13)		
32 31 13 13-0671			Barbed And Concertina Wire (32 31 13 13-0670)		
32 31 13 13-0672			Single Strand Barbed Wire (32 31 13 13-0671)		
32 31 13 13-0673	LF		12-1/2 Gauge, 4 Points, 5" O. C., ASTM A121, Class 1, Galvanized Barbed Wire, Per Strand Note: Includes clips. 4 points 12-1/2 Gauge, Class I. For >500 To 2,000, Deduct For >2,000 To 5,000, Deduct	1.30 -0.06 -0.09	0.57
32 31 13 13-0674	LF		12-1/2 Gauge, 4 Points, 5" O. C., ASTM A121, Class 3, Galvanized Barbed Wire, Per Strand For >500 To 2,000, Deduct For >2,000 To 5,000, Deduct	1.35 -0.06 -0.09	0.57
32 31 13 13-0675	LF		Vinyl Coated Barbed Wire (Fused), Per Strand Note: Includes clips. For >500 To 2,000, Deduct For >2,000 To 5,000, Deduct	1.46 -0.06 -0.09	0.57
32 31 13 13-0676	EA		Chain Link 2-1/2" (2-3/8" OD) x 1-5/8", 3 Strand, 45 Degree, Galvanized Steel, Barbed Wire Single Arm Mounted On Top Of Post.....	17.90	9.22
32 31 13 13-0677	EA		Chain Link 2-1/2" (2-3/8" OD) x 1-5/8", 6 Strand, 45 Degree, Galvanized Steel, Barbed Wire V-Barb Arm Mounted On Top Of Post.....	30.40	11.06
32 31 13 13-0678	EA		Barbed Wire Eye Tops (For Single Strand) Mounted On Top Of Post.....	15.03	9.22
32 31 13 13-0679			Galvanized Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0671)		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0680	LF	18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....		6.04	0.80
		For >500 To 1,500, Deduct		-0.51	
		For >1,500 To 5,000, Deduct		-1.02	
		For >5,000, Deduct		-1.44	
		For Ground Installation, Deduct		-0.58	
		For Double Coil (Helix), Add		4.89	
32 31 13 13-0681	LF	18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....		9.13	0.80
		For >500 To 1,500, Deduct		-0.77	
		For >1,500 To 5,000, Deduct		-1.54	
		For >5,000, Deduct		-2.17	
		For Ground Installation, Deduct		-0.87	
		For Double Coil (Helix), Add		7.40	
32 31 13 13-0682	LF	18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence		12.09	0.80
		For >500 To 1,500, Deduct		-1.02	
		For >1,500 To 5,000, Deduct		-2.04	
		For >5,000, Deduct		-2.88	
		For Ground Installation, Deduct		-1.15	
		For Double Coil (Helix), Add		9.79	
32 31 13 13-0683	LF	24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....		10.53	0.80
		For >500 To 1,500, Deduct		-0.85	
		For >1,500 To 5,000, Deduct		-1.71	
		For >5,000, Deduct		-2.36	
		For Ground Installation, Deduct		-0.64	
		For Double Coil (Helix), Add		9.25	
32 31 13 13-0684	LF	24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....		15.92	0.80
		For >500 To 1,500, Deduct		-1.29	
		For >1,500 To 5,000, Deduct		-2.58	
		For >5,000, Deduct		-3.57	
		For Ground Installation, Deduct		-0.96	
		For Double Coil (Helix), Add		14.00	
32 31 13 13-0685	LF	24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence		21.02	0.80
		For >500 To 1,500, Deduct		-1.70	
		For >1,500 To 5,000, Deduct		-3.41	
		For >5,000, Deduct		-4.71	
		For Ground Installation, Deduct		-1.27	
		For Double Coil (Helix), Add		18.48	
32 31 13 13-0686	LF	30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....		34.15	0.80
		For >500 To 1,500, Deduct		-2.63	
		For >1,500 To 5,000, Deduct		-5.27	
		For >5,000, Deduct		-7.12	
		For Ground Installation, Deduct		-0.72	
		For Double Coil (Helix), Add		32.71	
32 31 13 13-0687	LF	30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....		51.70	0.80
		For >500 To 1,500, Deduct		-3.99	
		For >1,500 To 5,000, Deduct		-7.97	
		For >5,000, Deduct		-10.77	
		For Ground Installation, Deduct		-1.08	
		For Double Coil (Helix), Add		49.54	
32 31 13 13-0688	LF	30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence		68.31	0.80
		For >500 To 1,500, Deduct		-5.27	
		For >1,500 To 5,000, Deduct		-10.53	
		For >5,000, Deduct		-14.24	
		For Ground Installation, Deduct		-1.44	
		For Double Coil (Helix), Add		65.43	
32 31 13 13-0689		Stainless Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0671)			
32 31 13 13-0690	LF	18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence		11.41	0.80
		For >500 To 1,500, Deduct		-0.91	
		For >1,500 To 5,000, Deduct		-1.83	
		For >5,000, Deduct		-2.51	
		For Ground Installation, Deduct		-0.58	
		For Double Coil (Helix), Add		10.26	
32 31 13 13-0691	LF	18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence		17.26	0.80
		For >500 To 1,500, Deduct		-1.38	
		For >1,500 To 5,000, Deduct		-2.76	
		For >5,000, Deduct		-3.80	
		For Ground Installation, Deduct		-0.87	
		For Double Coil (Helix), Add		15.53	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0692	LF		18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	22.83	0.80
			For >500 To 1,500, Deduct	-1.83	
			For >1,500 To 5,000, Deduct	-3.66	
			For >5,000, Deduct	-5.03	
			For Ground Installation, Deduct	-1.15	
			For Double Coil (Helix), Add	20.53	
32 31 13 13-0693	LF		24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	15.09	0.80
			For >500 To 1,500, Deduct	-1.20	
			For >1,500 To 5,000, Deduct	-2.39	
			For >5,000, Deduct	-3.27	
			For Ground Installation, Deduct	-0.64	
			For Double Coil (Helix), Add	13.81	
32 31 13 13-0694	LF		24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	22.82	0.80
			For >500 To 1,500, Deduct	-1.81	
			For >1,500 To 5,000, Deduct	-3.62	
			For >5,000, Deduct	-4.95	
			For Ground Installation, Deduct	-0.96	
			For Double Coil (Helix), Add	20.90	
32 31 13 13-0695	LF		24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	30.13	0.80
			For >500 To 1,500, Deduct	-2.39	
			For >1,500 To 5,000, Deduct	-4.77	
			For >5,000, Deduct	-6.53	
			For Ground Installation, Deduct	-1.27	
			For Double Coil (Helix), Add	27.59	
32 31 13 13-0696	LF		30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	51.39	0.80
			For >500 To 1,500, Deduct	-3.93	
			For >1,500 To 5,000, Deduct	-7.85	
			For >5,000, Deduct	-10.57	
			For Ground Installation, Deduct	-0.72	
			For Double Coil (Helix), Add	49.95	
32 31 13 13-0697	LF		30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	77.82	0.80
			For >500 To 1,500, Deduct	-5.94	
			For >1,500 To 5,000, Deduct	-11.89	
			For >5,000, Deduct	-16.00	
			For Ground Installation, Deduct	-1.08	
			For Double Coil (Helix), Add	75.66	
32 31 13 13-0698	LF		30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	102.78	0.80
			For >500 To 1,500, Deduct	-7.85	
			For >1,500 To 5,000, Deduct	-15.71	
			For >5,000, Deduct	-21.13	
			For Ground Installation, Deduct	-1.44	
			For Double Coil (Helix), Add	99.90	
32 31 13 13-0699			Grounding For Gates (32 31 13 13-0670) Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13 13-0700	OPNG		Grounding For Gates.....	522.42	
			Note: Per opening		
32 31 13 13-0701			Coiled Spring Reinforcing Wire (32 31 13 13-0670)		
32 31 13 13-0702			Galvanized Steel (32 31 13 13-0701)		
32 31 13 13-0703	LF		7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring	1.38	0.57
32 31 13 13-0704			Vinyl Coated Steel (32 31 13 13-0701)		
32 31 13 13-0705	LF		9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring.....	1.37	0.57
32 31 13 13-0706			Bending Of Fabric Around Pipe Railings (32 31 13 13-0670) Note: Only where specified.		
32 31 13 13-0707	LF		Bend Chain Link Fence Fabric Around Pipe Railing, Top.....	1.87	
32 31 13 13-0708	LF		Bend Chain Link Fence Fabric Around Pipe Railing, Bottom.....	1.63	
32 31 13 13-0709			Mounting Plate With Anchors Or Bolts (32 31 13 13-0670) Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0710	EA		Mounting Plate For 1-5/8" Diameter Post	51.12	
32 31 13 13-0711	EA		Mounting Plate For 2" Diameter Post	51.94	
32 31 13 13-0712	EA		Mounting Plate For 2-1/2" Diameter Post	53.44	
32 31 13 13-0713	EA		Mounting Plate For 3" Diameter Post	64.27	
32 31 13 13-0714	EA		Mounting Plate For 4" Diameter Post	73.84	
32 31 13 13-0715	EA		Mounting Plate For 6-5/8" Diameter Post	85.46	
32 31 13 13-0716	EA		Mounting Plate For 8-5/8" Diameter Post	100.68	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0717		Tension Bar (32 31 13 13-0670)		
32 31 13 13-0718	EA	3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	20.12	
32 31 13 13-0719	EA	3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	21.44	
32 31 13 13-0720	EA	4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	26.70	
32 31 13 13-0721	EA	5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	31.04	
32 31 13 13-0722	EA	6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	36.83	
32 31 13 13-0723	EA	7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	42.89	
32 31 13 13-0724	EA	8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	48.53	
32 31 13 13-0725	EA	9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	58.47	
32 31 13 13-0726	EA	10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	70.02	
32 31 13 13-0727		Truss Rods (32 31 13 13-0670)		
32 31 13 13-0728	LF	3/8" Diameter Truss Rods	2.47	0.66
32 31 13 13-0729		Fence And Gate Repair And Replacement (32 31 13 13)		
32 31 13 13-0730		Fence And Gate Parts Replacement (32 31 13 13-0729)		
32 31 13 13-0731	EA	Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement	144.85	
32 31 13 13-0732	EA	Sliding Gate Roller Assembly Replacement	142.01	
32 31 13 13-0733	EA	Rod And Lock Gate Keeper Replacement	144.18	
32 31 13 13-0734	EA	Galvanized Gate Holdback Replacement	32.44	
32 31 13 13-0735	LF	3/8" Cross Bracing Rod Replacement	1.87	
32 31 13 13-0736	LF	1-5/8" Diagonal Pipe Bracing Replacement	2.91	
32 31 13 13-0737	EA	2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	29.41	
32 31 13 13-0738	EA	2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	33.74	
32 31 13 13-0739	EA	3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	38.14	
32 31 13 13-0740	EA	6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	56.34	
32 31 13 13-0741	EA	8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	93.08	
32 31 13 13-0742	EA	2-1/2" x 2" Off Set Gate Hinge Replacement	30.28	
32 31 13 13-0743	EA	3" x 2" Off Set Gate Hinge Replacement	31.62	
32 31 13 13-0744	EA	4" x 2" Off Set Gate Hinge Replacement	33.73	
32 31 13 13-0745	EA	6-5/8" x 2" Off Set Gate Hinge Replacement	54.83	
32 31 13 13-0746	EA	8-5/8" x 2" Off Set Gate Hinge Replacement	86.07	
32 31 13 13-0747	EA	1-5/8" Aluminum Die-Cast Post Cap Replacement	6.82	
32 31 13 13-0748	EA	2" Aluminum Die-Cast Post Cap Replacement	7.50	
32 31 13 13-0749	EA	2-1/2" Aluminum Die-Cast Post Cap Replacement	8.77	
32 31 13 13-0750	EA	3" Aluminum Die-Cast Post Cap Replacement	10.22	
32 31 13 13-0751	EA	2" Galvanized Post Cap Replacement	7.56	
32 31 13 13-0752	EA	2-1/2" Galvanized Post Cap Replacement	8.19	
32 31 13 13-0753	EA	3" Galvanized Post Cap Replacement	9.36	
32 31 13 13-0754	EA	4" Galvanized Post Cap Replacement	13.84	
32 31 13 13-0755	EA	6-5/8" Galvanized Post Cap Replacement	25.85	
32 31 13 13-0756	EA	8-5/8" Galvanized Post Cap Replacement	42.36	
32 31 13 13-0757	EA	1-5/8" Boulevard Clamp Replacement	12.63	
32 31 13 13-0758	EA	2" Boulevard Clamp Replacement	15.38	
32 31 13 13-0759	EA	2-1/2" Boulevard Clamp Replacement	18.05	
32 31 13 13-0760	EA	3" Boulevard Clamp Replacement	21.91	
32 31 13 13-0761	EA	1-5/8" Gate Brace Or End Rail Clamp Replacement	12.38	
32 31 13 13-0762	EA	2" Gate Brace Or End Rail Clamp Replacement	15.05	
32 31 13 13-0763	EA	2-1/2" Gate Brace Or End Rail Clamp Replacement	17.71	
32 31 13 13-0764	EA	3" Gate Brace Or End Rail Clamp Replacement	21.55	
32 31 13 13-0765	EA	1-5/8" Heavy-Duty Galvanized Tension Band With Bolt, Replacement	12.68	
32 31 13 13-0766	EA	2" Heavy-Duty Galvanized Tension Band With Bolt, Replacement	12.97	
32 31 13 13-0767	EA	2-1/2" Heavy-Duty Galvanized Tension Band With Bolt, Replacement	12.84	
32 31 13 13-0768	EA	3" Heavy-Duty Galvanized Tension Band With Bolt, Replacement	13.06	
32 31 13 13-0769	EA	3-1/2" Heavy-Duty Galvanized Tension Band With Bolt, Replacement	13.23	
32 31 13 13-0770	EA	4" Heavy-Duty Galvanized Tension Band With Bolt, Replacement	13.75	
32 31 13 13-0771	EA	6-5/8" Heavy-Duty Galvanized Tension Band With Bolt, Replacement	17.52	
32 31 13 13-0772	EA	1-3/8" Heavy-Duty Galvanized Tension Band With Bolt, Replacement	12.57	
32 31 13 13-0773		Removal And Reinstallation Of Chain Link Fences (32 31 13 13)		
		Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work. See CSI section 32 31 13 13-0001 for new post holes where required, 32 31 13 13-0058 for new fence posts where required.		
32 31 13 13-0774	LF	Removal And Reinstallation Of Chain Link Fence Up To 5' Height	23.04	
32 31 13 13-0775	LF	Removal And Reinstallation Of Chain Link Fence 6' To 12' Height	34.56	
32 31 13 13-0776		Decorative Privacy Fence (32 31 13 13)		
		Note: Includes fastener clips		
32 31 13 13-0777	LF	59", Faux Ivy Leaf Decorative Privacy Fence	18.02	2.26
		Note: Includes faux ivy leaves closely attached to the mesh screen. Applied to fence, railing or wall		
32 31 13 13-0778		Ballfield Fencing (32 31 13 13)		
		See CSI section 32 31 13 13-0001 for auguring holes and concrete.		



Exterior Improvements			32	32
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0779		Concrete Bases For Ballfield Poles, Cast In Place (32 31 13 13-0778) Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill.		
32 31 13 13-0780	VLF	2-1/2" Diameter Concrete Base For Ballfield Poles.....	139.48	
32 31 13 13-0781	VLF	3" Diameter Concrete Base For Ballfield Poles.....	162.96	
32 31 13 13-0782	VLF	3-1/2" Diameter Concrete Base For Ballfield Poles.....	203.76	
32 31 13 13-0783	VLF	4" Diameter Concrete Base For Ballfield Poles.....	239.31	
32 31 13 13-0784		Ballfield Poles (32 31 13 13-0778)		
32 31 13 13-0785	EA	20' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting Note: 10' above grade	8,601.46	746.59
32 31 13 13-0786	EA	25' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting Note: 15' above grade	10,670.20	933.24
32 31 13 13-0787	EA	30' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting Note: 20' above grade	12,265.52	1,119.88
32 31 13 13-0788	EA	40' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting Note: 30' above grade	16,479.80	1,306.54
32 31 13 13-0789	EA	50' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting Note: 40' above grade	22,072.36	1,493.19
32 31 13 13-0790	EA	60' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting Note: 50' above grade	24,665.82	1,679.84
32 31 13 13-0791		Ballfield Nylon Netting (32 31 13 13-0778) Note: Excludes fastening clips and cabling See CSI section 05 15 00 00-0000 for cabling and accessories.		
32 31 13 13-0792	LF	10' High, #18 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	1.78	
32 31 13 13-0793	LF	10' High, #21 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	1.83	
32 31 13 13-0794	LF	10' High, #36 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.06	
32 31 13 13-0795	LF	10' High, #42 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.33	
32 31 13 13-0796	LF	10' High, #48 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.59	
32 31 13 13-0797	LF	10' High, #60 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	3.46	
32 31 13 13-0798	LF	10' High, #72 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	3.93	
32 31 13 13-0799	LF	10' High, #96 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	5.12	
32 31 13 13-0800		Ballfield Chainlink Netting (32 31 13 13-0778) Note: Excludes fastening clips and cabling See CSI section 05 15 00 00-0000 for cabling and accessories.		
32 31 13 13-0801	SF	#9 Gauge Chain Link Fabric, 2" Mesh For Ballfield Netting	3.85	1.22
		For 13 Gauge Fabric, Deduct	-0.63	
		For 11 Gauge Fabric, Deduct	-0.35	
		For 6 Gauge Fabric, Add	1.13	
		For 1" Mesh Fabric, Add	1.06	
		For 1-3/4" Mesh Fabric, Add	0.42	
		For 2-1/8" Mesh Fabric, Deduct	-0.21	
		For 2-3/8" Mesh Fabric, Deduct	-0.28	
32 31 13 13-0802		Ballfield Netting Accessories (32 31 13 13-0778)		
32 31 13 13-0803	EA	Sliding Clip For Ballfield Netting.....	8.75	
32 31 13 13-0804	EA	1/4" Utility Spring Swing Clip For Ballfield Netting	3.90	
32 31 13 13-0805	EA	5/16" Utility Spring Swing Clip For Ballfield Netting	4.11	
32 31 13 13-0806	EA	3/8" Utility Spring Swing Clip For Ballfield Netting	4.43	
32 31 13 33		Chain Link Backstops (32 31 13)		
32 31 13 33-0001		Regulation Baseball Backstop (32 31 13 33) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 33-0002	EA	20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized	14,590.85	2,363.28
32 31 13 33-0003	EA	34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized	21,055.69	3,151.04
32 31 13 33-0004	EA	48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized	26,845.48	3,676.21
32 31 13 33-0005	EA	20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	20,511.74	2,363.28
32 31 13 33-0006	EA	34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated	29,915.22	3,151.04
32 31 13 33-0007	EA	48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	38,537.00	3,676.21
32 31 13 33-0008	SF	2" Thick Polyethylene Foam, 18 Oz Vinyl Cover, Padding Installed On Chain Link Backstop	15.68	
32 31 13 33-0009	SF	3" Thick Polyethylene Foam, 18 Oz Vinyl Cover, Padding Installed On Chain Link Backstop	18.71	
32 31 13 33-0010		Regulation Softball Backstop (32 31 13 33) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 33-0011		14' High Softball Backstop (32 31 13 33-0010) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0012	EA	14' Softball Backstop, Galvanized Regulation	12,233.33	2,320.04
32 31 13 33-0013	EA	14' Softball Backstop, Vinyl Coated Regulation	16,479.88	2,320.04
32 31 13 33-0014		18' High Softball Backstop (32 31 13 33-0010) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 33-0015	EA	18' Softball Backstop, Galvanized Regulation.....	14,293.27	2,579.24
32 31 13 33-0016	EA	18' Softball Backstop Vinyl Coated Regulation	19,430.23	2,579.24
32 31 13 33-0017		20' High Softball Backstop (32 31 13 33-0010) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0018	EA	20' Softball Backstop, Galvanized Regulation.....	16,203.01	2,719.45
32 31 13 33-0019	EA	20' Softball Backstop, Vinyl Coated Regulation	22,298.94	2,719.45
32 31 13 33-0020		22' High Softball Backstop (32 31 13 33-0010) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0021	EA	22' Softball Backstop, Galvanized Regulation.....	18,682.66	2,801.49
32 31 13 33-0022	EA	22' Softball Backstop, Vinyl Coated Regulation	26,011.40	2,801.49
32 31 13 33-0023		24' High Softball Backstop (32 31 13 33-0010) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0024	EA	24' Softball Backstop, Galvanized Regulation.....	22,259.73	3,201.71
32 31 13 33-0025	EA	24' Softball Backstop, Vinyl Coated Regulation	31,369.28	3,201.71
32 31 16		Welded Wire Fences and Gates (32 31)		
32 31 16 00-0001		Welded Wire Fence (32 31 16)		
32 31 16 00-0002		12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0003	LF	3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	11.57	2.10
32 31 16 00-0004	LF	5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	12.45	2.10
32 31 16 00-0005		14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0006	LF	3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	11.39	2.10
32 31 16 00-0007	LF	5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	12.17	2.10
32 31 16 00-0008		Welded Galvanized Perforated Wired Metal Screen Panel (32 31 16)		
32 31 16 00-0009		16 Gauge Welded Galvanized Perforated Wired Metal Screen Panel (32 31 16 00-0008)		
32 31 16 00-0010	EA	7' High x 30' Wide, 16 Gauge Welded Galvanized Perforated Wired Metal Screen Panel	10,614.48	1,216.65
		Note: 40% Open Area		
32 31 16 00-0011		Galvanized Steel Welded Wire Fence Assemblies (32 31 16)		
32 31 16 00-0012		6 Gauge, 2" x 6" Mesh, Galvanized Steel Welded Wire Fence Assemblies (32 31 16 00-0011) Note: Posts 8' on center.		
32 31 16 00-0013	LF	48" Height, 6 Gauge, 2" x 6" Mesh, Galvanized Steel Welded Wire Fence Assembly.....	50.78	2.10
32 31 16 00-0014	LF	Note: 2" Square, 16 Gauge Posts at 8' Centers 60" Height, 6 Gauge, 2" x 6" Mesh, Galvanized Steel Welded Wire Fence Assembly.....	60.46	2.10
32 31 16 00-0015	LF	Note: 2" Square, 16 Gauge Posts at 8' Centers 72" Height, 6 Gauge, 2" x 6" Mesh, Galvanized Steel Welded Wire Fence Assembly.....	67.63	2.10
32 31 16 00-0016	LF	Note: 2" Square, 16 Gauge Posts at 8' Centers 96" Height, 6 Gauge, 2" x 6" Mesh, Galvanized Steel Welded Wire Fence Assembly.....	94.89	2.10
		Note: 2-1/2" Square, 16 Gauge Posts at 8' Centers		
32 31 19		Decorative Metal Fences and Gates (32 31) See CSI section 32 31 13 13-0001 for drilling and grouting.		
32 31 19 00-0001		Wrought Iron Fence (32 31 19) Note: Factory primed.		
32 31 19 00-0002		Wrought Iron Fence, 3/4" Verticals At >3" To 4" On Center (32 31 19 00-0001) Note: Factory primed 8 foot long panel sections.		
32 31 19 00-0003	LF	3' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	57.76	12.68
		For 6' Length Fence Panels With Posts Set 6' O.C., Add	10.44	
		For Verticals Up To 2" On Center, Add	10.37	
		For Verticals >2" To 2-1/2" On Center, Add	6.48	
		For Verticals >2-1/2" To 3" On Center, Add	2.59	
		For Verticals >4" To 6" On Center, Deduct	-2.92	
		For Pickets Extending Above Top Rail, Add	5.32	
		For Curved Pickets Extending Above Top Rail, Add	12.44	



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
32 31 19 00-0004	LF	4' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	74.10		16.13
		For 6' Length Fence Panels With Posts Set 6' O.C., Add	13.29		
		For Verticals Up To 2" On Center, Add	13.75		
		For Verticals >2" To 2-1/2" On Center, Add	8.60		
		For Verticals >2-1/2" To 3" On Center, Add	3.44		
		For Verticals >4" To 6" On Center, Deduct	-3.87		
		For Pickets Extending Above Top Rail, Add	6.93		
		For Curved Pickets Extending Above Top Rail, Add	16.30		
32 31 19 00-0005	LF	5' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	88.06		16.82
		For 6' Length Fence Panels With Posts Set 6' O.C., Add	15.58		
		For Verticals Up To 2" On Center, Add	17.34		
		For Verticals >2" To 2-1/2" On Center, Add	10.84		
		For Verticals >2-1/2" To 3" On Center, Add	4.34		
		For Verticals >4" To 6" On Center, Deduct	-4.88		
		For Pickets Extending Above Top Rail, Add	8.47		
		For Curved Pickets Extending Above Top Rail, Add	20.15		
32 31 19 00-0006	LF	6' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	106.61		20.27
		For 6' Length Fence Panels With Posts Set 6' O.C., Add	18.84		
		For Verticals Up To 2" On Center, Add	21.11		
		For Verticals >2" To 2-1/2" On Center, Add	13.19		
		For Verticals >2-1/2" To 3" On Center, Add	5.28		
		For Verticals >4" To 6" On Center, Deduct	-5.94		
		For Pickets Extending Above Top Rail, Add	10.28		
		For Curved Pickets Extending Above Top Rail, Add	24.49		
32 31 19 00-0007	LF	7' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	124.90		21.45
		For 6' Length Fence Panels With Posts Set 6' O.C., Add	21.74		
		For Verticals Up To 2" On Center, Add	26.24		
		For Verticals >2" To 2-1/2" On Center, Add	16.40		
		For Verticals >2-1/2" To 3" On Center, Add	6.56		
		For Verticals >4" To 6" On Center, Deduct	-7.38		
		For Pickets Extending Above Top Rail, Add	12.39		
		For Curved Pickets Extending Above Top Rail, Add	29.87		
32 31 19 00-0008	LF	8' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	143.18		22.58
		For 6' Length Fence Panels With Posts Set 6' O.C., Add	24.64		
		For Verticals Up To 2" On Center, Add	31.37		
		For Verticals >2" To 2-1/2" On Center, Add	19.60		
		For Verticals >2-1/2" To 3" On Center, Add	7.84		
		For Verticals >4" To 6" On Center, Deduct	-8.82		
		For Pickets Extending Above Top Rail, Add	14.51		
		For Curved Pickets Extending Above Top Rail, Add	35.24		
32 31 19 00-0009	LF	10' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	174.16		25.34
		For 6' Length Fence Panels With Posts Set 6' O.C., Add	29.67		
		For Verticals Up To 2" On Center, Add	39.51		
		For Verticals >2" To 2-1/2" On Center, Add	24.69		
		For Verticals >2-1/2" To 3" On Center, Add	9.88		
		For Verticals >4" To 6" On Center, Deduct	-11.11		
		For Pickets Extending Above Top Rail, Add	17.97		
		For Curved Pickets Extending Above Top Rail, Add	43.93		
32 31 19 00-0010	LF	12' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	205.86		28.80
		For 6' Length Fence Panels With Posts Set 6' O.C., Add	34.91		
		For Verticals Up To 2" On Center, Add	47.44		
		For Verticals >2" To 2-1/2" On Center, Add	29.65		
		For Verticals >2-1/2" To 3" On Center, Add	11.86		
		For Verticals >4" To 6" On Center, Deduct	-13.34		
		For Pickets Extending Above Top Rail, Add	21.41		
		For Curved Pickets Extending Above Top Rail, Add	52.50		
32 31 19 00-0011		Wrought Iron Gates (32 31 19 00-0001) Note: Factory primed.			
32 31 19 00-0012		Single Wrought Iron Gates (32 31 19 00-0011) Note: Factory primed.			
32 31 19 00-0013	LF	3' Single Wrought Iron Gate, Hardware And Associated Trim	71.14		15.43
32 31 19 00-0014	LF	4' Single Wrought Iron Gate, Hardware And Associated Trim	93.36		19.13
32 31 19 00-0015	LF	5' Single Wrought Iron Gate, Hardware And Associated Trim	114.05		23.04
32 31 19 00-0016	LF	6' Single Wrought Iron Gate, Hardware And Associated Trim	138.60		27.65
32 31 19 00-0017	LF	8' Single Wrought Iron Gate, Hardware And Associated Trim	185.82		30.65
32 31 19 00-0018	LF	10' Single Wrought Iron Gate, Hardware And Associated Trim	224.90		33.87
32 31 19 00-0019	LF	12' Single Wrought Iron Gate, Hardware And Associated Trim	263.23		38.48
32 31 19 00-0020		Double Wrought Iron Gates (32 31 19 00-0011) Note: Factory primed.			
32 31 19 00-0021	LF	3' Double Wrought Iron Gate, Hardware And Associated Trim	86.96		13.82
32 31 19 00-0022	LF	4' Double Wrought Iron Gate, Hardware And Associated Trim	114.17		17.28
32 31 19 00-0023	LF	5' Double Wrought Iron Gate, Hardware And Associated Trim	138.90		20.74
32 31 19 00-0024	LF	6' Double Wrought Iron Gate, Hardware And Associated Trim	168.34		24.88
32 31 19 00-0025	LF	8' Double Wrought Iron Gate, Hardware And Associated Trim	226.73		27.65

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 19 00-0026	LF	10' Double Wrought Iron Gate, Hardware And Associated Trim.....		274.86	30.41
32 31 19 00-0027	LF	12' Double Wrought Iron Gate, Hardware And Associated Trim.....		322.27	34.56
32 31 19 00-0028		Repair Or Replace Wrought Iron Fence (32 31 19 00-0001)			
32 31 19 00-0029	LF	Removal And Replacement Of Wrought Iron Picket.....		22.67	
32 31 19 00-0030	LF	Removal And Replacement Of Wrought Iron Post.....		33.82	
32 31 19 00-0031	EA	Straighten Wrought Iron Post.....		92.17	
32 31 19 00-0032		Steel Tube Fence, Powder Coated (32 31 19)			
		Note: Pickets are 3/4" square x 16 gauge.			
32 31 19 00-0033		Steel Tube Fence, With Two 1" Square, 16 Gauge Rails (32 31 19 00-0032)			
		Note: 6 foot long panel sections.			
32 31 19 00-0034	LF	3' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....		83.71	12.68
		For Verticals Up To 2" On Center, Add		11.77	
		For Verticals >2" To 2-1/2" On Center, Add		5.89	
		For Verticals >3" To 4" On Center, Deduct		-5.89	
		For Verticals >4" To 6" On Center, Deduct		-11.77	
		For Pickets Extending Above Top Rail, Add		6.25	
		For Curved Pickets Extending Above Top Rail, Add		10.99	
		For Solid Pickets, Add		16.97	
		For Aluminum With Satin Finish, Add		13.94	
		For Third Rail, Add		4.42	
		For 1" Square x 14 Gauge Pickets, Add		14.72	
		For 3" Square Posts, Add		7.36	
32 31 19 00-0035	LF	3'-6" Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....		89.56	13.55
		For Verticals Up To 2" On Center, Add		12.49	
		For Verticals >2" To 2-1/2" On Center, Add		6.25	
		For Verticals >3" To 4" On Center, Deduct		-6.25	
		For Verticals >4" To 6" On Center, Deduct		-12.49	
		For Pickets Extending Above Top Rail, Add		6.66	
		For Curved Pickets Extending Above Top Rail, Add		11.71	
		For Solid Pickets, Add		18.12	
		For Aluminum With Satin Finish, Add		14.67	
		For Third Rail, Add		4.68	
		For 1" Square x 14 Gauge Pickets, Add		15.62	
		For 3" Square Posts, Add		7.81	
32 31 19 00-0036	LF	4' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....		94.75	14.98
		For Verticals Up To 2" On Center, Add		13.08	
		For Verticals >2" To 2-1/2" On Center, Add		6.54	
		For Verticals >3" To 4" On Center, Deduct		-6.54	
		For Verticals >4" To 6" On Center, Deduct		-13.08	
		For Pickets Extending Above Top Rail, Add		7.03	
		For Curved Pickets Extending Above Top Rail, Add		12.34	
		For Solid Pickets, Add		19.12	
		For Aluminum With Satin Finish, Add		15.21	
		For Third Rail, Add		4.90	
		For 1" Square x 14 Gauge Pickets, Add		16.35	
		For 3" Square Posts, Add		8.17	
32 31 19 00-0037	LF	5' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....		100.90	16.82
		For Verticals Up To 2" On Center, Add		13.41	
		For Verticals >2" To 2-1/2" On Center, Add		6.70	
		For Verticals >3" To 4" On Center, Deduct		-6.70	
		For Verticals >4" To 6" On Center, Deduct		-13.41	
		For Pickets Extending Above Top Rail, Add		7.39	
		For Curved Pickets Extending Above Top Rail, Add		12.93	
		For Solid Pickets, Add		20.16	
		For Aluminum With Satin Finish, Add		15.03	
		For Third Rail, Add		5.03	
		For 1" Square x 14 Gauge Pickets, Add		16.76	
		For 3" Square Posts, Add		8.38	
32 31 19 00-0038	LF	6' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....		117.02	19.00
		For Verticals Up To 2" On Center, Add		15.80	
		For Verticals >2" To 2-1/2" On Center, Add		7.90	
		For Verticals >3" To 4" On Center, Deduct		-7.90	
		For Verticals >4" To 6" On Center, Deduct		-15.80	
		For Pickets Extending Above Top Rail, Add		8.62	
		For Curved Pickets Extending Above Top Rail, Add		15.10	
		For Solid Pickets, Add		23.48	
		For Aluminum With Satin Finish, Add		18.00	
		For Third Rail, Add		5.93	
		For 1" Square x 14 Gauge Pickets, Add		19.75	
		For 3" Square Posts, Add		9.88	
32 31 19 00-0039	LF	7' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....		134.02	20.74
		For Verticals Up To 2" On Center, Add		18.51	
		For Verticals >2" To 2-1/2" On Center, Add		9.26	
		For Verticals >3" To 4" On Center, Deduct		-9.26	
		For Verticals >4" To 6" On Center, Deduct		-18.51	
		For Pickets Extending Above Top Rail, Add		9.94	
		For Curved Pickets Extending Above Top Rail, Add		17.46	
		For Solid Pickets, Add		27.04	
		For Aluminum With Satin Finish, Add		21.54	
		For Third Rail, Add		6.94	
		For 1" Square x 14 Gauge Pickets, Add		23.14	
		For 4" Square Posts, Add		32.39	



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 31 19 00-0040	LF	8' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	151.27	22.58
		For Verticals Up To 2" On Center, Add	21.22	
		For Verticals >2" To 2-1/2" On Center, Add	10.61	
		For Verticals >3" To 4" On Center, Deduct	-10.61	
		For Verticals >4" To 6" On Center, Deduct	-21.22	
		For Pickets Extending Above Top Rail, Add	11.28	
		For Curved Pickets Extending Above Top Rail, Add	19.83	
		For Solid Pickets, Add	30.65	
		For Aluminum With Satin Finish, Add	25.06	
		For Third Rail, Add	7.96	
		For 1" Square x 14 Gauge Pickets, Add	26.53	
		For 4" Square Posts, Add	37.14	
32 31 19 00-0041	LF	9' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	175.97	24.20
		For Verticals Up To 2" On Center, Add	25.52	
		For Verticals >2" To 2-1/2" On Center, Add	12.76	
		For Verticals >3" To 4" On Center, Deduct	-12.76	
		For Verticals >4" To 6" On Center, Deduct	-25.52	
		For Pickets Extending Above Top Rail, Add	13.26	
		For Curved Pickets Extending Above Top Rail, Add	23.40	
		For Solid Pickets, Add	35.96	
		For Aluminum With Satin Finish, Add	31.02	
		For Third Rail, Add	9.57	
		For 1" Square x 14 Gauge Pickets, Add	31.90	
		For 4" Square Posts, Add	44.66	
32 31 19 00-0042	LF	10' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	200.91	25.92
		For Verticals Up To 2" On Center, Add	29.81	
		For Verticals >2" To 2-1/2" On Center, Add	14.91	
		For Verticals >3" To 4" On Center, Deduct	-14.91	
		For Verticals >4" To 6" On Center, Deduct	-29.81	
		For Pickets Extending Above Top Rail, Add	15.26	
		For Curved Pickets Extending Above Top Rail, Add	26.99	
		For Solid Pickets, Add	41.32	
		For Aluminum With Satin Finish, Add	36.95	
		For Third Rail, Add	11.18	
		For 1" Square x 14 Gauge Pickets, Add	37.27	
		For 6" Square Posts, Add	52.17	
32 31 19 00-0043	LF	12' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	236.75	28.80
		For Verticals Up To 2" On Center, Add	35.83	
		For Verticals >2" To 2-1/2" On Center, Add	17.91	
		For Verticals >3" To 4" On Center, Deduct	-17.91	
		For Verticals >4" To 6" On Center, Deduct	-35.83	
		For Pickets Extending Above Top Rail, Add	18.11	
		For Curved Pickets Extending Above Top Rail, Add	32.09	
		For Solid Pickets, Add	48.95	
		For Aluminum With Satin Finish, Add	45.10	
		For Third Rail, Add	13.44	
		For 1" Square x 14 Gauge Pickets, Add	44.79	
		For 6" Square Posts, Add	62.70	
32 31 19 00-0044	LF	14' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	253.59	31.11
		For Verticals Up To 2" On Center, Add	38.27	
		For Verticals >2" To 2-1/2" On Center, Add	19.14	
		For Verticals >3" To 4" On Center, Deduct	-19.14	
		For Verticals >4" To 6" On Center, Deduct	-38.27	
		For Pickets Extending Above Top Rail, Add	19.38	
		For Curved Pickets Extending Above Top Rail, Add	34.33	
		For Solid Pickets, Add	52.39	
		For Aluminum With Satin Finish, Add	48.08	
		For Third Rail, Add	14.35	
		For 1" Square x 14 Gauge Pickets, Add	47.84	
		For 6" Square Posts, Add	66.98	
32 31 19 00-0045		Steel Tube Swing Gates (32 31 19 00-0032)		
32 31 19 00-0046		3' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0047	EA	3' Wide x 3' High Steel Tube Single Swing Gate	797.57	24.54
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	173.92	
		For Aluminum With Satin Finish, Add	206.09	
		For Third Rail, Add	54.29	
		For 1" Square x 14 Gauge Pickets, Add	72.38	
32 31 19 00-0048	EA	3'-6" Wide x 3' High Steel Tube Single Swing Gate	887.33	25.70
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	193.86	
		For Aluminum With Satin Finish, Add	231.46	
		For Third Rail, Add	60.76	
		For 1" Square x 14 Gauge Pickets, Add	81.01	
32 31 19 00-0049	EA	4' Wide x 3' High Steel Tube Single Swing Gate	982.16	27.18
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	214.85	
		For Aluminum With Satin Finish, Add	257.84	
		For Third Rail, Add	67.53	
		For 1" Square x 14 Gauge Pickets, Add	90.04	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0050	EA		5' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,033.05	29.15
			For Solid Pickets, Add	225.87	
			For Aluminum With Satin Finish, Add	270.51	
			For Third Rail, Add	70.91	
			For 1" Square x 14 Gauge Pickets, Add	94.55	
32 31 19 00-0051	EA		6' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,154.29	34.91
			For Solid Pickets, Add	251.85	
			For Aluminum With Satin Finish, Add	299.11	
			For Third Rail, Add	78.71	
			For 1" Square x 14 Gauge Pickets, Add	104.95	
32 31 19 00-0052	EA		7' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,228.46	40.67
			For Solid Pickets, Add	267.24	
			For Aluminum With Satin Finish, Add	313.58	
			For Third Rail, Add	82.98	
			For 1" Square x 14 Gauge Pickets, Add	110.63	
32 31 19 00-0053	EA		8' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,341.05	46.77
			For Solid Pickets, Add	291.20	
			For Aluminum With Satin Finish, Add	339.07	
			For Third Rail, Add	90.04	
			For 1" Square x 14 Gauge Pickets, Add	120.05	
32 31 19 00-0054	EA		9' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,438.75	52.54
			For Solid Pickets, Add	311.88	
			For Aluminum With Satin Finish, Add	360.60	
			For Third Rail, Add	96.07	
			For 1" Square x 14 Gauge Pickets, Add	128.09	
32 31 19 00-0055	EA		10' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,524.70	58.29
			For Solid Pickets, Add	329.92	
			For Aluminum With Satin Finish, Add	378.61	
			For Third Rail, Add	101.22	
			For 1" Square x 14 Gauge Pickets, Add	134.96	
32 31 19 00-0056	EA		6' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,667.50	49.08
			For Solid Pickets, Add	364.13	
			For Aluminum With Satin Finish, Add	433.89	
			For Third Rail, Add	114.00	
			For 1" Square x 14 Gauge Pickets, Add	152.00	
32 31 19 00-0057	EA		7' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,776.61	51.38
			For Solid Pickets, Add	388.16	
			For Aluminum With Satin Finish, Add	463.52	
			For Third Rail, Add	121.67	
			For 1" Square x 14 Gauge Pickets, Add	162.22	
32 31 19 00-0058	EA		8' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,964.34	54.49
			For Solid Pickets, Add	429.71	
			For Aluminum With Satin Finish, Add	515.69	
			For Third Rail, Add	135.06	
			For 1" Square x 14 Gauge Pickets, Add	180.08	
32 31 19 00-0059	EA		9' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,058.37	56.45
			For Solid Pickets, Add	450.43	
			For Aluminum With Satin Finish, Add	541.30	
			For Third Rail, Add	141.68	
			For 1" Square x 14 Gauge Pickets, Add	188.90	
32 31 19 00-0060	EA		10' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,134.76	58.29
			For Solid Pickets, Add	467.19	
			For Aluminum With Satin Finish, Add	561.62	
			For Third Rail, Add	146.97	
			For 1" Square x 14 Gauge Pickets, Add	195.96	
32 31 19 00-0061	EA		12' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,402.75	69.81
			For Solid Pickets, Add	524.89	
			For Aluminum With Satin Finish, Add	626.47	
			For Third Rail, Add	164.48	
			For 1" Square x 14 Gauge Pickets, Add	219.31	
32 31 19 00-0062	EA		14' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,833.46	81.33
			For Solid Pickets, Add	574.21	
			For Aluminum With Satin Finish, Add	680.13	
			For Third Rail, Add	179.19	
			For 1" Square x 14 Gauge Pickets, Add	238.92	
32 31 19 00-0063	EA		16' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,827.26	93.67
			For Solid Pickets, Add	615.05	
			For Aluminum With Satin Finish, Add	721.68	
			For Third Rail, Add	190.96	
			For 1" Square x 14 Gauge Pickets, Add	254.62	



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0064	EA	18' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,989.33 648.92 754.75 200.52 267.37	105.06
32 31 19 00-0065	EA	20' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,121.96 676.17 778.99 207.88 277.17	116.58
32 31 19 00-0066		4' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0067	EA	3' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	921.25 201.45 241.38 63.26 84.35	23.04
32 31 19 00-0068	EA	3'-6" Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	996.72 218.21 262.72 68.71 91.61	26.84
32 31 19 00-0069	EA	4' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,075.05 235.41 283.64 74.15 98.87	28.80
32 31 19 00-0070	EA	5' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,139.66 249.51 300.42 78.56 104.75	30.65
32 31 19 00-0071	EA	6' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,228.71 268.16 318.84 83.86 111.81	36.86
32 31 19 00-0072	EA	7' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,349.15 293.88 346.68 91.51 122.01	42.97
32 31 19 00-0073	EA	8' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,514.70 329.75 388.05 102.54 136.72	49.08
32 31 19 00-0074	EA	9' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,676.32 364.73 428.25 113.28 151.04	55.29
32 31 19 00-0075	EA	10' Wide x 4' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,830.11 397.95 466.08 123.43 164.58	61.40
32 31 19 00-0076	EA	6' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,842.51 402.90 482.76 126.52 168.70	51.84
32 31 19 00-0077	EA	7' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,993.41 436.42 525.45 137.41 183.21	53.68

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0078	EA		8' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,150.09 470.81 567.27 148.30 197.73	57.61
32 31 19 00-0079	EA		9' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,273.56 498.16 601.71 157.12 209.50	59.45
32 31 19 00-0080	EA		10' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,377.40 521.09 630.27 164.48 219.31	61.40
32 31 19 00-0081	EA		12' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,698.70 590.62 710.07 185.81 247.75	73.61
32 31 19 00-0082	EA		14' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,980.76 651.32 778.10 204.20 272.27	85.94
32 31 19 00-0083	EA		16' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,225.56 703.63 834.95 219.80 293.06	98.15
32 31 19 00-0084	EA		18' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,437.00 748.44 881.79 232.89 310.52	110.48
32 31 19 00-0085	EA		20' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,617.07 786.19 919.22 243.63 324.84	122.81
32 31 19 00-0086			5' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0087	EA		3' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,002.60 219.54 264.49 69.15 92.20	26.84
32 31 19 00-0088	EA		3'-6" Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,057.39 231.43 278.34 72.82 97.10	28.80
32 31 19 00-0089	EA		4' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,110.24 242.89 291.60 76.36 101.81	30.65
32 31 19 00-0090	EA		5' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,186.61 259.64 311.92 81.65 108.87	32.61
32 31 19 00-0091	EA		6' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,290.55 281.56 334.29 87.98 117.30	39.17



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32	31	19 00-0092	EA 7' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,427.83 310.98 366.65 96.80 129.07	45.63
32	31	19 00-0093	EA 8' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,619.22 352.49 414.74 109.60 146.14	52.54
32	31	19 00-0094	EA 9' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,805.54 392.94 461.83 122.11 162.81	59.10
32	31	19 00-0095	EA 10' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,987.94 432.51 507.73 134.32 179.09	65.56
32	31	19 00-0096	EA 6' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,973.16 434.27 533.78 138.29 184.39	45.27
32	31	19 00-0097	EA 7' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,090.82 459.12 559.39 145.50 194.00	52.77
32	31	19 00-0098	EA 8' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,209.76 484.17 584.80 152.71 203.61	60.72
32	31	19 00-0099	EA 9' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,372.54 519.18 623.94 163.30 217.74	68.31
32	31	19 00-0100	EA 10' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,515.70 549.78 657.20 172.43 229.90	75.81
32	31	19 00-0101	EA 12' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,863.44 626.22 750.68 196.70 262.27	84.33
32	31	19 00-0102	EA 14' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,176.44 694.64 832.61 218.18 290.91	93.54
32	31	19 00-0103	EA 16' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,456.68 755.51 903.56 237.01 316.01	103.80
32	31	19 00-0104	EA 18' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,709.33 809.89 964.53 253.49 337.98	115.32
32	31	19 00-0105	EA 20' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,934.39 857.77 1,015.51 267.61 356.82	128.22

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
32 31 19 00-0106		6' Fence Height Steel Tube Swing Gates, 2 Rail	(32 31 19 00-0045)		
32 31 19 00-0107	EA	3' Wide x 6' High Steel Tube Single Swing Gate		1,044.01	29.49
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		228.25	
		For Aluminum With Satin Finish, Add		273.28	
		For Third Rail, Add		71.65	
		For 1" Square x 14 Gauge Pickets, Add		95.53	
32 31 19 00-0108	EA	3'-6" Wide x 6' High Steel Tube Single Swing Gate		1,097.65	31.11
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		239.97	
		For Aluminum With Satin Finish, Add		287.31	
		For Third Rail, Add		75.33	
		For 1" Square x 14 Gauge Pickets, Add		100.43	
32 31 19 00-0109	EA	4' Wide x 6' High Steel Tube Single Swing Gate		1,152.13	32.84
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		251.82	
		For Aluminum With Satin Finish, Add		301.20	
		For Third Rail, Add		79.00	
		For 1" Square x 14 Gauge Pickets, Add		105.34	
32 31 19 00-0110	EA	5' Wide x 6' High Steel Tube Single Swing Gate		1,219.03	34.91
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		266.42	
		For Aluminum With Satin Finish, Add		318.53	
		For Third Rail, Add		83.56	
		For 1" Square x 14 Gauge Pickets, Add		111.42	
32 31 19 00-0111	EA	6' Wide x 6' High Steel Tube Single Swing Gate		1,368.42	42.16
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		298.39	
		For Aluminum With Satin Finish, Add		353.50	
		For Third Rail, Add		93.13	
		For 1" Square x 14 Gauge Pickets, Add		124.17	
32 31 19 00-0112	EA	7' Wide x 6' High Steel Tube Single Swing Gate		1,527.61	49.54
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		332.57	
		For Aluminum With Satin Finish, Add		391.41	
		For Third Rail, Add		103.43	
		For 1" Square x 14 Gauge Pickets, Add		137.90	
32 31 19 00-0113	EA	8' Wide x 6' High Steel Tube Single Swing Gate		1,705.27	56.45
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		370.99	
		For Aluminum With Satin Finish, Add		435.38	
		For Third Rail, Add		115.19	
		For 1" Square x 14 Gauge Pickets, Add		153.59	
32 31 19 00-0114	EA	9' Wide x 6' High Steel Tube Single Swing Gate		1,876.26	63.70
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		407.81	
		For Aluminum With Satin Finish, Add		476.82	
		For Third Rail, Add		126.38	
		For 1" Square x 14 Gauge Pickets, Add		168.50	
32 31 19 00-0115	EA	10' Wide x 6' High Steel Tube Single Swing Gate		2,084.49	70.97
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		453.03	
		For Aluminum With Satin Finish, Add		529.44	
		For Third Rail, Add		140.35	
		For 1" Square x 14 Gauge Pickets, Add		187.14	
32 31 19 00-0116	EA	6' Wide x 6' High Steel Tube Double Swing Gate		2,050.00	48.85
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		450.80	
		For Aluminum With Satin Finish, Add		552.27	
		For Third Rail, Add		143.30	
		For 1" Square x 14 Gauge Pickets, Add		191.06	
32 31 19 00-0117	EA	7' Wide x 6' High Steel Tube Double Swing Gate		2,172.16	57.26
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		476.48	
		For Aluminum With Satin Finish, Add		578.08	
		For Third Rail, Add		150.65	
		For 1" Square x 14 Gauge Pickets, Add		200.87	
32 31 19 00-0118	EA	8' Wide x 6' High Steel Tube Double Swing Gate		2,293.04	65.20
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		501.96	
		For Aluminum With Satin Finish, Add		604.09	
		For Third Rail, Add		158.01	
		For 1" Square x 14 Gauge Pickets, Add		210.68	
32 31 19 00-0119	EA	9' Wide x 6' High Steel Tube Double Swing Gate		2,438.75	73.61
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		532.94	
		For Aluminum With Satin Finish, Add		636.96	
		For Third Rail, Add		167.13	
		For 1" Square x 14 Gauge Pickets, Add		222.84	
32 31 19 00-0120	EA	10' Wide x 6' High Steel Tube Double Swing Gate		2,666.83	82.03
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add		582.45	
		For Aluminum With Satin Finish, Add		694.55	
		For Third Rail, Add		182.43	
		For 1" Square x 14 Gauge Pickets, Add		243.24	



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0121	EA		12' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,126.96 683.99 820.61 214.94 286.59	91.36
32 31 19 00-0122	EA		14' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,275.06 715.03 851.36 223.77 298.36	102.08
32 31 19 00-0123	EA		16' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,596.37 784.85 932.92 245.40 327.20	113.60
32 31 19 00-0124	EA		18' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,892.05 848.62 1,005.09 264.82 353.09	126.38
32 31 19 00-0125	EA		20' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	4,167.30 907.42 1,068.84 282.32 376.43	141.01
32 31 19 00-0126			7' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0127	EA		3' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,106.19 241.70 288.67 75.77 101.02	31.91
32 31 19 00-0128	EA		3'-6" Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,162.27 253.93 303.21 79.59 106.12	33.64
32 31 19 00-0129	EA		4' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,218.57 266.20 317.72 83.42 111.22	35.36
32 31 19 00-0130	EA		5' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,274.97 278.49 332.21 87.24 116.32	37.21
32 31 19 00-0131	EA		6' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,475.71 321.84 381.54 100.48 133.98	45.27
32 31 19 00-0132	EA		7' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,659.60 361.49 426.34 112.55 150.06	52.99
32 31 19 00-0133	EA		8' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,793.65 389.83 455.66 120.79 161.05	60.95
32 31 19 00-0134	EA		9' Wide x 7' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,946.15 422.42 491.05 130.50 173.99	68.66

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0135	EA		10' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	2,133.16	76.72
			For Solid Pickets, Add	462.68	
			For Aluminum With Satin Finish, Add	536.26	
			For Third Rail, Add	142.71	
			For 1" Square x 14 Gauge Pickets, Add	190.28	
32 31 19 00-0136	EA		6' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,169.98	52.31
			For Solid Pickets, Add	477.03	
			For Aluminum With Satin Finish, Add	583.71	
			For Third Rail, Add	151.53	
			For 1" Square x 14 Gauge Pickets, Add	202.05	
32 31 19 00-0137	EA		7' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,297.34	61.17
			For Solid Pickets, Add	503.78	
			For Aluminum With Satin Finish, Add	610.50	
			For Third Rail, Add	159.18	
			For 1" Square x 14 Gauge Pickets, Add	212.25	
32 31 19 00-0138	EA		8' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,425.95	70.51
			For Solid Pickets, Add	530.73	
			For Aluminum With Satin Finish, Add	637.11	
			For Third Rail, Add	166.83	
			For 1" Square x 14 Gauge Pickets, Add	222.45	
32 31 19 00-0139	EA		9' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,555.26	79.38
			For Solid Pickets, Add	557.92	
			For Aluminum With Satin Finish, Add	664.50	
			For Third Rail, Add	174.63	
			For 1" Square x 14 Gauge Pickets, Add	232.84	
32 31 19 00-0140	EA		10' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,878.07	88.71
			For Solid Pickets, Add	628.56	
			For Aluminum With Satin Finish, Add	749.37	
			For Third Rail, Add	196.85	
			For 1" Square x 14 Gauge Pickets, Add	262.46	
32 31 19 00-0141	EA		12' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,478.05	98.96
			For Solid Pickets, Add	761.37	
			For Aluminum With Satin Finish, Add	916.25	
			For Third Rail, Add	239.66	
			For 1" Square x 14 Gauge Pickets, Add	319.55	
32 31 19 00-0142	EA		14' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,441.64	110.94
			For Solid Pickets, Add	750.61	
			For Aluminum With Satin Finish, Add	889.93	
			For Third Rail, Add	234.36	
			For 1" Square x 14 Gauge Pickets, Add	312.48	
32 31 19 00-0143	EA		16' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,729.48	123.73
			For Solid Pickets, Add	812.62	
			For Aluminum With Satin Finish, Add	959.74	
			For Third Rail, Add	253.19	
			For 1" Square x 14 Gauge Pickets, Add	337.59	
32 31 19 00-0144	EA		18' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	4,073.39	138.37
			For Solid Pickets, Add	886.86	
			For Aluminum With Satin Finish, Add	1,044.09	
			For Third Rail, Add	275.85	
			For 1" Square x 14 Gauge Pickets, Add	367.80	
32 31 19 00-0145	EA		20' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	4,301.43	154.37
			For Solid Pickets, Add	934.75	
			For Aluminum With Satin Finish, Add	1,091.98	
			For Third Rail, Add	289.53	
			For 1" Square x 14 Gauge Pickets, Add	386.04	
32 31 19 00-0146			8' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0147	EA		3' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,202.19	34.56
			For Solid Pickets, Add	262.72	
			For Aluminum With Satin Finish, Add	314.00	
			For Third Rail, Add	82.39	
			For 1" Square x 14 Gauge Pickets, Add	109.85	
32 31 19 00-0148	EA		3'-6" Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,260.90	36.41
			For Solid Pickets, Add	275.49	
			For Aluminum With Satin Finish, Add	329.02	
			For Third Rail, Add	86.36	
			For 1" Square x 14 Gauge Pickets, Add	115.15	



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0149	EA		4' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,323.56 289.16 345.22 90.63 120.84	38.36
32 31 19 00-0150	EA		5' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,379.96 300.86 356.18 93.86 125.15	42.74
32 31 19 00-0151	EA		6' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,632.05 356.32 424.29 111.52 148.69	48.38
32 31 19 00-0152	EA		7' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,816.97 395.69 466.29 123.14 164.19	58.29
32 31 19 00-0153	EA		8' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,898.73 411.92 477.86 127.11 169.48	67.86
32 31 19 00-0154	EA		9' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,036.58 440.69 505.73 135.20 180.27	77.88
32 31 19 00-0155	EA		10' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,156.75 465.48 528.31 141.97 189.29	87.90
32 31 19 00-0156	EA		6' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,358.62 518.71 635.73 164.92 219.90	55.88
32 31 19 00-0157	EA		7' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,501.42 548.37 663.75 173.16 230.88	67.40
32 31 19 00-0158	EA		8' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,640.99 577.40 691.36 181.25 241.67	78.45
32 31 19 00-0159	EA		9' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,758.29 601.32 711.72 187.58 250.10	90.09
32 31 19 00-0160	EA		10' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,205.14 699.39 830.95 218.62 291.49	101.61
32 31 19 00-0161	EA		12' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,993.18 873.94 1,050.83 274.97 366.62	114.40
32 31 19 00-0162	EA		14' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,654.46 794.60 930.39 246.43 328.57	129.03

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0163	EA	16' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,914.46 849.48 986.72 262.31 349.75	145.96
32 31 19 00-0164	EA	18' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	4,314.89 935.59 1,082.90 288.36 384.47	164.51
32 31 19 00-0165	EA	20' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	4,405.84 951.59 1,083.38 290.71 387.61	185.37
32 31 19 00-0166		Replace Steel Tube Fence Pickets (32 31 19 00-0032)		
32 31 19 00-0167	LF	Removal And Replacement Of 3/4" Square x 16 Gauge Steel Tube Fence Picket <i>For 1" Square x 14 Gauge Pickets, Add</i>	33.09 1.01	
32 31 19 00-0168		Removal And Reinstallation Of Ornamental Fences (32 31 19) Note: Including storage and cleaning. Excludes augering and concrete.		
32 31 19 00-0169	LF	Removal And Reinstallation Of Ornamental Fence Up To 5' Height.....	51.84	
32 31 19 00-0170	LF	Removal And Reinstallation Of Ornamental Fence, 6' Height	57.02	
32 31 19 00-0171	LF	Removal And Reinstallation Of Ornamental Fence, 7' Height	62.22	
32 31 19 00-0172	LF	Removal And Reinstallation Of Ornamental Fence, 8' Height	67.40	
32 31 19 00-0173	LF	Removal And Reinstallation Of Ornamental Fence, 9' Height	72.58	
32 31 19 00-0174	LF	Removal And Reinstallation Of Ornamental Fence, 10' Height	77.76	
32 31 19 00-0175	LF	Removal And Reinstallation Of Ornamental Fence 12' Height	86.40	
32 31 23		Plastic Fences and Gates (32 31)		
32 31 23 00-0001		Vinyl Fence (32 31 23)		
32 31 23 00-0002		Privacy Tongue And Groove Vinyl Fence (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Post includes flat cap.		
32 31 23 00-0003	LF	3' High Privacy Tongue And Groove Vinyl Fence	59.79	5.76
32 31 23 00-0004	LF	4' High Privacy Tongue And Groove Vinyl Fence	66.89	6.91
32 31 23 00-0005	LF	5' High Privacy Tongue And Groove Vinyl Fence	74.61	8.05
32 31 23 00-0006	LF	6' High Privacy Tongue And Groove Vinyl Fence	82.14	9.21
32 31 23 00-0007		Semi-Privacy 6" Picket Vinyl Fence (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0008	LF	5' High Semi-Privacy 6" Picket Vinyl Fence	80.04	8.05
32 31 23 00-0009	LF	6' High Semi-Privacy 6" Picket Vinyl Fence	87.64	9.21
32 31 23 00-0010		Picket Straight Top Vinyl Fence (32 31 23 00-0001) Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0011	LF	3' High Picket Straight Top Vinyl Fence	54.99	5.76
32 31 23 00-0012	LF	4' High Picket Straight Top Vinyl Fence	62.35	6.91
32 31 23 00-0013	LF	5' High Picket Straight Top Vinyl Fence	71.43	8.05
32 31 23 00-0014	LF	6' High Picket Straight Top Vinyl Fence	79.03	9.21
32 31 23 00-0015		Picket Scalloped Top Vinyl Fence (32 31 23 00-0001) Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0016	LF	3' High Picket Scalloped Top Vinyl Fence	61.16	5.76
32 31 23 00-0017	LF	4' High Picket Scalloped Top Vinyl Fence	68.71	6.91
32 31 23 00-0018	LF	5' High Picket Scalloped Top Vinyl Fence	77.37	8.05
32 31 23 00-0019	LF	6' High Picket Scalloped Top Vinyl Fence	85.16	9.21
32 31 23 00-0020		Post And Rail Vinyl Fence, Ranch Style (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Post includes flat cap.		
32 31 23 00-0021	LF	5' High, 2 Rail, Post And Rail Vinyl Fence	21.27	5.76
32 31 23 00-0022	LF	6-1/2' High, 3 Rail, Post And Rail Vinyl Fence	27.45	6.91
32 31 23 00-0023	LF	7' High, 4 Rail, Post And Rail Vinyl Fence	31.74	7.48
32 31 23 00-0024		Post, Rails And Pickets (Traditional Style) Vinyl Fence (32 31 23 00-0001) Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Post includes flat cap.		
32 31 23 00-0025	LF	3' High Rail And Picket Vinyl Fence, 72" On Center Posts	71.75	6.33



Exterior Improvements			32	32
Site Improvements			32 30	
Fences and Gates			32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0026	LF		4' High Rail And Picket Vinyl Fence, 72" On Center Posts	78.22	7.48
32 31 23 00-0027	LF		3' High Rail And Picket Vinyl Fence, 96" On Center Posts	67.74	5.76
32 31 23 00-0028	LF		4' High Rail And Picket Vinyl Fence, 96" On Center Posts	73.51	6.91
32 31 23 00-0029			Vinyl Gates (32 31 23)		
32 31 23 00-0030			Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0029) Note: Includes hinges.		
32 31 23 00-0031			3' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0032	EA		3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	663.42 14.50 38.50	57.54
32 31 23 00-0033	EA		3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	704.14 14.50 38.50	60.42
32 31 23 00-0034	EA		3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	773.48 14.50 38.50	63.30
32 31 23 00-0035	EA		3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	868.22 14.50 38.50	66.18
32 31 23 00-0036			4' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0037	EA		4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	704.14 14.50 38.50	60.42
32 31 23 00-0038	EA		4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	728.97 14.50 38.50	63.30
32 31 23 00-0039	EA		4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	811.00 14.50 38.50	66.18
32 31 23 00-0040	EA		4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	953.45 14.50 38.50	69.05
32 31 23 00-0041			5' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0042	EA		5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	728.97 14.50 38.50	63.30
32 31 23 00-0043	EA		5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	760.14 14.50 38.50	66.18
32 31 23 00-0044	EA		5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	873.98 14.50 38.50	69.05
32 31 23 00-0045	EA		5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	1,022.77 14.50 38.50	71.93
32 31 23 00-0046			6' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0047	EA		6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	765.90 14.50 38.50	69.05
32 31 23 00-0048	EA		6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	797.08 14.50 38.50	71.93
32 31 23 00-0049	EA		6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	964.96 14.50 38.50	74.81
32 31 23 00-0050	EA		6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	1,066.08 14.50 38.50	74.81
32 31 23 00-0051			Gates For Picket Fences (32 31 23 00-0029) Note: Includes hinges.		
32 31 23 00-0052			3' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0053	EA		3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	634.81 14.50 38.50	57.54
32 31 23 00-0054	EA		3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	659.64 14.50 38.50	60.42
32 31 23 00-0055	EA		3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... For Self-Closing Hinge Set, Add For Self-Closing Stainless Steel Hinge Set, Add	741.69 14.50 38.50	63.30

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0056	EA	3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	884.11 14.50 38.50	66.18
32 31 23 00-0057		4' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0058	EA	4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	640.57 14.50 38.50	60.42
32 31 23 00-0059	EA	4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	665.40 14.50 38.50	63.30
32 31 23 00-0060	EA	4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	747.43 14.50 38.50	66.18
32 31 23 00-0061	EA	4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	889.87 14.50 38.50	69.05
32 31 23 00-0062		5' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0063	EA	5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	665.40 14.50 38.50	63.30
32 31 23 00-0064	EA	5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	696.57 14.50 38.50	66.18
32 31 23 00-0065	EA	5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	810.41 14.50 38.50	69.05
32 31 23 00-0066	EA	5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	959.20 14.50 38.50	71.93
32 31 23 00-0067		6' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0068	EA	6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	702.33 14.50 38.50	69.05
32 31 23 00-0069	EA	6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	733.51 14.50 38.50	71.93
32 31 23 00-0070	EA	6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	901.38 14.50 38.50	74.81
32 31 23 00-0071	EA	6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	1,002.50 14.50 38.50	77.69
32 31 23 00-0072		Gates Accessories (32 31 23 00-0029)		
32 31 23 00-0073	EA	Gate Stop/Drop Rod	143.19	
32 31 23 00-0074	EA	Latch Set.....	97.10	
32 31 23 00-0075	EA	Stainless Steel Latch Set.....	143.19	
32 31 26		Wire Fences and Gates (32 31)		
32 31 26 13		Wire Fences with Steel Posts (32 31 26)		
32 31 26 13-0001		Chicken Wire (32 31 26 13) Note: Posts at 4'.		
32 31 26 13-0002	LF	4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	9.87	2.10
32 31 26 13-0003	LF	6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	10.78	2.10
32 31 26 13-0004		Wire And Screen (32 31 26 13)		
32 31 26 13-0005		Wire And Screen For Partitions And Fences (32 31 26 13-0004) Note: Excludes framing and post.		
32 31 26 13-0006		Screen Wire (32 31 26 13-0005)		
32 31 26 13-0007	LF	Screen Wire, 48" Wide Rolls.....	13.23	1.16
32 31 26 13-0008		Hog Wire (32 31 26 13-0005)		
32 31 26 13-0009	SF	4" x 4" Hog Wire For Fencing	2.34	0.92
32 31 26 13-0010	SF	6" x 6" Hog Wire For Fencing	2.45	1.05
32 31 26 13-0011		Non-Climb Horse Fence (32 31 26 13-0005)		
32 31 26 13-0012	LF	4' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	11.02	3.71
32 31 26 13-0013	LF	5' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	14.17	4.63



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 26 13-0014	LF	6' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	17.86	5.57
32 31 26 13-0015		Screen For Partitions And Ceilings (32 31 26 13-0004) Note: Can be used to support insulation on walls and ceilings.		
32 31 26 13-0016	SF	1" Mesh Chicken Wire	2.18	0.65
32 31 26 13-0017		Wicket Fence (32 31 26 13)		
32 31 26 13-0018	LF	Steel Wicket Fence, Painted.....	73.93	5.54
32 31 29		Wood Fences and Gates (32 31) See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 29 00-0001		Basket Weave (32 31 29) Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002	LF	6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post.....	48.77	4.20
		For Fastening With Screws Instead Of Nails, Add	2.88	
32 31 29 00-0003	LF	6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post.....	32.62	4.20
		For Fastening With Screws Instead Of Nails, Add	2.10	
32 31 29 00-0004		Board Fence (32 31 29) Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005	LF	Two 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated Board Fence	31.98	4.20
		For 1" x 6" Boards, Deduct	-3.41	
		For 1" x 3" Boards (Stockade Top), Add	4.25	
		For Fastening With Screws Instead Of Nails, Add	2.08	
32 31 29 00-0006	LF	Two 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated Board Fence	35.56	4.20
		For 1" x 6" Boards, Deduct	-3.71	
		For 1" x 3" Boards (Stockade Top), Add	4.60	
		For Fastening With Screws Instead Of Nails, Add	2.30	
32 31 29 00-0007	LF	Three 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated Board Fence	39.62	4.20
		For 1" x 6" Boards, Deduct	-3.96	
		For 1" x 3" Boards (Stockade Top), Add	4.66	
		For Fastening With Screws Instead Of Nails, Add	2.52	
32 31 29 00-0008	LF	Three 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated Board Fence	42.28	4.20
		For 1" x 6" Boards, Deduct	-4.16	
		For 1" x 3" Boards (Stockade Top), Add	5.09	
		For Fastening With Screws Instead Of Nails, Add	2.68	
32 31 29 00-0009	LF	Three 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated Board Fence	45.13	4.20
		For 1" x 6" Boards, Deduct	-4.37	
		For 1" x 3" Boards (Stockade Top), Add	5.32	
		For Fastening With Screws Instead Of Nails, Add	2.84	
32 31 29 00-0010	LF	Two 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar Board Fence	34.11	4.20
		For 1" x 6" Boards, Deduct	-3.49	
		For 1" x 3" Boards (Stockade Top), Add	4.31	
		For Fastening With Screws Instead Of Nails, Add	2.19	
32 31 29 00-0011	LF	Two 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar Board Fence	37.20	4.20
		For 1" x 6" Boards, Deduct	-3.77	
		For 1" x 3" Boards (Stockade Top), Add	4.65	
		For Fastening With Screws Instead Of Nails, Add	2.38	
32 31 29 00-0012	LF	Three 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar Board Fence	39.62	4.20
		For 1" x 6" Boards, Deduct	-3.96	
		For 1" x 3" Boards (Stockade Top), Add	4.66	
		For Fastening With Screws Instead Of Nails, Add	2.52	
32 31 29 00-0013	LF	Three 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar Board Fence	42.28	4.20
		For 1" x 6" Boards, Deduct	-4.16	
		For 1" x 3" Boards (Stockade Top), Add	5.09	
		For Fastening With Screws Instead Of Nails, Add	2.68	
32 31 29 00-0014	LF	Three 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar Board Fence	45.13	4.20
		For 1" x 6" Boards, Deduct	-4.37	
		For 1" x 3" Boards (Stockade Top), Add	5.32	
		For Fastening With Screws Instead Of Nails, Add	2.84	
32 31 29 00-0015	LF	Two 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar Board Fence	34.12	4.20
		For 1" x 6" Boards, Deduct	-3.49	
		For 1" x 3" Boards (Stockade Top), Add	4.31	
		For Fastening With Screws Instead Of Nails, Add	2.19	
32 31 29 00-0016	LF	Two 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar Board Fence	44.48	4.20
		For 1" x 6" Boards, Deduct	-4.07	
		For 1" x 3" Boards (Stockade Top), Add	4.87	
		For Fastening With Screws Instead Of Nails, Add	2.74	
32 31 29 00-0017	LF	Three 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar Board Fence.....	46.59	4.20
		For 1" x 6" Boards, Deduct	-4.24	
		For 1" x 3" Boards (Stockade Top), Add	5.07	
		For Fastening With Screws Instead Of Nails, Add	2.87	
32 31 29 00-0018	LF	Three 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar Board Fence.....	50.08	4.20
		For 1" x 6" Boards, Deduct	-4.47	
		For 1" x 3" Boards (Stockade Top), Add	5.32	
		For Fastening With Screws Instead Of Nails, Add	3.07	
32 31 29 00-0019	LF	Three 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar Board Fence.....	53.83	4.20
		For 1" x 6" Boards, Deduct	-4.72	
		For 1" x 3" Boards (Stockade Top), Add	5.58	
		For Fastening With Screws Instead Of Nails, Add	3.27	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0020	Shadow Box (32 31 29) Note: 1x6" board, 2x4" Rail, 4x4" post.			
32 31 29 00-0021	LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar	For Fastening With Screws Instead Of Nails, Add	67.29 3.80	4.20
32 31 29 00-0022	LF Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar	For Fastening With Screws Instead Of Nails, Add	84.48 4.74	4.20
32 31 29 00-0023	LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar	For Fastening With Screws Instead Of Nails, Add	91.98 5.14	4.20
32 31 29 00-0024	LF Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar	For Fastening With Screws Instead Of Nails, Add	98.83 5.52	4.20
32 31 29 00-0025	Open Rail Fence (32 31 29)			
32 31 29 00-0026	Post And Rail Fence, Ranch Style (32 31 29 00-0025)			
32 31 29 00-0027	LF Post And Rail Fence, 2 Rails, 3' High #1 Cedar		31.91	4.20
32 31 29 00-0028	LF Post And Rail Fence, 2 Rails, 3' High #2 Cedar		25.15	4.20
32 31 29 00-0029	LF Post And Rail Fence, 3 Rails, 4' High #1 Cedar		37.68	4.20
32 31 29 00-0030	LF Post And Rail Fence, 3 Rails, 4' High #2 Cedar		27.14	4.20
32 31 29 00-0031	Split Rail Fence (32 31 29 00-0025)			
32 31 29 00-0032	LF Split Rail Fence, 2 Rails, 3' High #1 Cedar		30.17	4.20
32 31 29 00-0033	LF Split Rail Fence, 2 Rails, 3' High #2 Cedar		25.07	4.20
32 31 29 00-0034	LF Split Rail Fence, 3 Rail, 4' High #1 Cedar		34.36	4.20
32 31 29 00-0035	LF Split Rail Fence, 3 Rail, 4' High #2 Cedar		28.12	4.20
32 31 29 00-0036	Picket Fence (32 31 29)			
32 31 29 00-0037	LF Picket Fence, 2 Rail, 3' High, Pressure Treated	For Fastening With Screws Instead Of Nails, Add	36.46 2.32	4.20
32 31 29 00-0038	LF Picket Fence, 2 Rail, 3' High #1 Cedar	For Fastening With Screws Instead Of Nails, Add	34.13 2.21	4.20
32 31 29 00-0039	Wood Fence Post Accessories (32 31 29)			
32 31 29 00-0040	EA 3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap		50.90	
32 31 29 00-0041	EA 4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap		56.85	
32 31 29 00-0042	EA 6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap		61.98	
32 31 29 00-0043	EA 8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap		90.94	
32 31 29 00-0044	Wood Gate (32 31 29)			
32 31 29 00-0045	Board Fence Gates, Pressure Treated Wood (32 31 29 00-0044) Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).			
32 31 29 00-0046	EA 3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		475.68	145.52
32 31 29 00-0047	EA 3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		526.39	154.25
32 31 29 00-0048	EA 3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		588.72	168.81
32 31 29 00-0049	EA 3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		668.97	177.54
32 31 29 00-0050	EA 3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		749.21	186.27
32 31 29 00-0051	EA >5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		605.75	192.09
32 31 29 00-0052	EA >5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		660.14	200.82
32 31 29 00-0053	EA >5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		714.53	209.55
32 31 29 00-0054	EA >5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		805.85	218.29
32 31 29 00-0055	EA >5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		878.70	227.02
32 31 29 00-0056	Board Fence Gates, Grade 2 Cedar (32 31 29 00-0044) Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)			
32 31 29 00-0057	EA 3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		761.12	131.29
32 31 29 00-0058	EA 3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		787.95	139.18
32 31 29 00-0059	EA 3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		828.98	152.30
32 31 29 00-0060	EA 3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		874.28	160.18
32 31 29 00-0061	EA 3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		930.65	168.06
32 31 29 00-0062	EA >5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		900.54	173.31
32 31 29 00-0063	EA >5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		934.75	181.18
32 31 29 00-0064	EA >5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		987.44	189.06
32 31 29 00-0065	EA >5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		1,040.12	196.93
32 31 29 00-0066	EA >5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		1,092.80	204.82
32 31 29 00-0067	Board Fence Gates, Grade 1 Cedar (32 31 29 00-0044) Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)			
32 31 29 00-0068	EA 3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		816.51	131.29
32 31 29 00-0069	EA 3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware		850.72	139.18



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
32 31 29 00-0070	EA	3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	895.45	152.30	
32 31 29 00-0071	EA	3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	948.14	160.18	
32 31 29 00-0072	EA	3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,000.81	168.06	
32 31 29 00-0073	EA	>5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	974.40	173.31	
32 31 29 00-0074	EA	>5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,008.61	181.18	
32 31 29 00-0075	EA	>5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,061.30	189.06	
32 31 29 00-0076	EA	>5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,113.98	196.93	
32 31 29 00-0077	EA	>5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,185.12	204.82	
32 31 29 00-0078		Pressure Treated Wood Fence Posts ^(32 31 29) See CSI section 32 31 13 13-0001 for drilling augering, 32 31 56 00-0017 for barbed wire.			
32 31 29 00-0079	EA	4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	45.24	14.56	
32 31 29 00-0080	EA	6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	51.07	14.56	
32 31 29 00-0081	EA	4' High, Pressure Treated Wood Fence Posts, Set In Concrete	79.51	27.94	
32 31 29 00-0082	EA	6' High, Pressure Treated Wood Fence Posts, Set In Concrete	86.16	27.94	
32 31 29 00-0083		Wood Utility Pole Fence ^(32 31 29) Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.			
32 31 29 00-0084	LF	Wood Utility Pole Barrier Fence..... Note: Includes notching post, drilling and pinned with #5 rebar.	61.33	4.20	
32 31 29 00-0085		Wood Rail Fence ^(32 31 29) Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill			
32 31 29 00-0086	LF	4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post.....	31.56	4.20	
32 31 34		Tubular Barrier Gates ^(32 31)			
32 31 34 00-0001		Tube Gate ^(32 31 34) See CSI section 32 31 13 13-0001 for augering post holes and concrete fill, 32 31 13 13-0645 for gate accessories.			
32 31 34 00-0002		50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate ^(32 31 34 00-0001) Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering, concrete, bollard and chain.			
32 31 34 00-0003	EA	4' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	223.34	31.11	
		For 13 Gauge Tubing, Add	35.45		
		For Galvanized Finish, Add	19.68		
32 31 34 00-0004	EA	6' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	290.40	40.32	
		For 13 Gauge Tubing, Add	45.98		
		For Galvanized Finish, Add	25.41		
32 31 34 00-0005	EA	8' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	391.07	51.84	
		For 13 Gauge Tubing, Add	62.66		
		For Galvanized Finish, Add	35.33		
32 31 34 00-0006	EA	10' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	452.64	64.52	
		For 13 Gauge Tubing, Add	70.94		
		For Galvanized Finish, Add	38.52		
32 31 34 00-0007	EA	12' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	536.79	76.72	
		For 13 Gauge Tubing, Add	84.32		
		For Galvanized Finish, Add	45.96		
32 31 34 00-0008	EA	14' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	586.85	86.40	
		For 13 Gauge Tubing, Add	91.45		
		For Galvanized Finish, Add	49.14		
32 31 34 00-0009	EA	16' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	688.57	99.65	
		For 13 Gauge Tubing, Add	107.76		
		For Galvanized Finish, Add	58.35		
32 31 34 00-0010		33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate ^(32 31 34 00-0001) Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering and concrete.			
32 31 34 00-0011	EA	4' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	289.08	31.11	
		For Galvanized Surface Stain "Rustic Brown Finish", Add	78.76		
32 31 34 00-0012	EA	6' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	346.95	40.32	
		For Galvanized Surface Stain "Rustic Brown Finish", Add	90.39		
32 31 34 00-0013	EA	8' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	415.68	51.84	
		For Galvanized Surface Stain "Rustic Brown Finish", Add	104.06		
32 31 34 00-0014	EA	10' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	480.67	64.52	
		For Galvanized Surface Stain "Rustic Brown Finish", Add	113.93		
32 31 34 00-0015	EA	12' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	545.97	76.72	
		For Galvanized Surface Stain "Rustic Brown Finish", Add	126.22		
32 31 34 00-0016	EA	14' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	605.24	86.40	
		For Galvanized Surface Stain "Rustic Brown Finish", Add	138.41		
32 31 34 00-0017	EA	16' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	677.06	99.65	
		For Galvanized Surface Stain "Rustic Brown Finish", Add	151.01		
32 31 34 00-0018	EA	18' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	777.50	112.15	
		For Galvanized Surface Stain "Rustic Brown Finish", Add	175.06		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 34 00-0019	EA	20' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	.....	862.91	125.46
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	206.92	
32 31 34 00-0020		33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate			
		(32 31 34 00-0001)			
		Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering and concrete.			
32 31 34 00-0021	EA	4' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	.....	312.15	31.11
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	87.99	
32 31 34 00-0022	EA	6' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	.....	369.63	40.32
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	99.46	
32 31 34 00-0023	EA	8' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	.....	431.06	51.84
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	110.21	
32 31 34 00-0024	EA	10' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	.....	503.10	64.52
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	122.90	
32 31 34 00-0025	EA	12' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	.....	562.18	76.72
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	132.71	
32 31 34 00-0026	EA	14' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	.....	643.08	86.40
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	153.54	
32 31 34 00-0027	EA	16' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	.....	718.16	99.65
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	167.45	
32 31 34 00-0028	EA	18' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	.....	840.21	112.15
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	200.14	
32 31 34 00-0029	EA	20' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	.....	919.30	125.46
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	229.47	
32 31 34 00-0030		Tubular Steel Barrier Gate (Triangular Shape)			
		(32 31 34 00-0001)			
		Note: Includes posts, caps, welded hinges and lock keeper. Excludes augering, concrete, and bollards.			
32 31 34 00-0031	EA	4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post	.....	2,499.91	64.52
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	821.00	
32 31 34 00-0032	EA	4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post	.....	2,712.84	76.72
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	880.61	
32 31 34 00-0033	EA	4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post	.....	3,212.04	86.40
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	1,057.25	
32 31 34 00-0034	EA	4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post	.....	2,600.60	64.52
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	860.97	
32 31 34 00-0035	EA	4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post	.....	2,827.91	76.72
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	926.29	
32 31 34 00-0036	EA	4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post	.....	3,327.13	86.40
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	1,102.93	
32 31 34 00-0037		Four Rail Tube Gate, 1-1/2" Diameter Welded Galvanized Steel Tubing			
		(32 31 34 00-0001)			
		Note: Excludes augering holes and concrete.			
32 31 34 00-0038	EA	4' Four Rail Metal Frame Tube Gate, 1-1/2" Diameter Welded Galvanized Steel With Posts	.....	521.51	31.11
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	42.71	
32 31 34 00-0039		Tubular Horse Gate			
		(32 31 34 00-0001)			
		Note: Includes posts, caps and hardware. Treated with Natina (or Equal) galvanized surface stain "rustic brown finish". Excludes augering holes and concrete.			
32 31 34 00-0040	EA	5-1/2' Above Ground, 5' Wide Tubular Galvanized Steel Horse Gate With 3" Diameter Posts	.....	3,144.13	31.11
		For Galvanized Surface Stain "Rustic Brown Finish", Add	.....	819.87	
32 31 34 00-0041		Pipe Gate			
		(32 31 34)			
		Note: Excludes augering and concrete. See CSI section 32 31 13 13-0001 for augering post holes and concrete fill.			
32 31 34 00-0042	EA	20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	.....	4,362.05	
32 31 34 00-0043	EA	25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	.....	5,453.07	
32 31 34 00-0044	EA	30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	.....	6,496.41	
32 31 41		Precast Concrete Fences			
		(32 31)			
32 31 41 00-0001		Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete.			
		(31 41)			
		Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.			
32 31 41 00-0002	LF	Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury	.....	76.76	4.20
		Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.			
32 31 56		Wild Life Deterrent Fence			
		(32 31)			
32 31 56 00-0001		Barbed Wire Fences			
		(32 31 56)			
		Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.			
32 31 56 00-0002		Fence Posts			
		(32 31 56 00-0001)			
32 31 56 00-0003		Fence Post Soil, Set In Concrete			
		(32 31 56 00-0002)			



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 56 00-0004	EA		Barbed Wire Fence Post, Galvanized Set In Concrete In Soil <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	114.73 185.07	9.22
32 31 56 00-0005	EA		Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	154.43 251.37	9.22
32 31 56 00-0006			Post In Rock (32 31 56 00-0002)		
32 31 56 00-0007	EA		Barbed Wire Fence Post, Galvanized Grouted In Rock <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	112.70 182.02	9.22
32 31 56 00-0008	EA		Barbed Wire Fence Post, Vinyl Coated Grouted In Rock <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	152.40 248.32	9.22
32 31 56 00-0009			Studded Steel T-Posts, Enamel Paint Finish (32 31 56 00-0001) Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010	EA		5' Studded Steel T-Post, Driven Into Earth	30.26	
32 31 56 00-0011	EA		5'-6" Studded Steel T-Post, Driven Into Earth	30.99	
32 31 56 00-0012	EA		6' Studded Steel T-Post, Driven Into Earth	32.37	
32 31 56 00-0013	EA		6'-6" Studded Steel T-Post, Driven Into Earth	33.74	
32 31 56 00-0014	EA		7' Studded Steel T-Post, Driven Into Earth	35.55	
32 31 56 00-0015	EA		8' Studded Steel T-Post, Driven Into Earth	39.99	
32 31 56 00-0016	EA		10' Studded Steel T-Post, Driven Into Earth	48.50	
32 31 56 00-0017			Barbed Wire (32 31 56 00-0001) Note: Per strand.		
32 31 56 00-0018	LF		Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand	1.03	0.46
32 31 56 00-0019	LF		Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand	1.19	0.46
32 31 56 00-0020			Barbed Wire Fence, Farm Style, With Wood Posts (32 31 56 00-0001) Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		
32 31 56 00-0021	LF		4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts..... Note: Posts at 10' maximum.	12.48	3.00
32 32			Retaining Walls (32 30)		
32 32 13			Cast-In-Place Concrete Retaining Wall (32 32) Note: System includes all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.		
32 32 13 00-0001			Concrete Retaining Walls (32 32 13) Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.		
32 32 13 00-0002	LF		4' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	392.75 7.48	152.43
32 32 13 00-0003	LF		6' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	488.86 9.66	187.56
32 32 13 00-0004	LF		8' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	531.61 10.79	202.31
32 32 13 00-0005	LF		10' High With Base, 13" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	673.89 14.76	250.16
32 32 13 00-0006	LF		12' High With Base, 14" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	776.28 17.13	287.34
32 32 13 00-0007	LF		16' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	1,125.50 24.02	421.53
32 32 13 00-0008	LF		20' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	1,546.55 32.52	581.95
32 32 13 00-0009	LF		4' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	431.17 8.35	166.46
32 32 13 00-0010	LF		6' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	526.36 10.65	200.57
32 32 13 00-0011	LF		8' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	556.02 11.68	209.28
32 32 13 00-0012	LF		10' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	761.71 17.06	280.47
32 32 13 00-0013	LF		12' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	967.81 21.02	360.27
32 32 13 00-0014	LF		16' High With Base, 21" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	1,453.74 30.74	546.10
32 32 13 00-0015	LF		20' High With Base, 24" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall <i>For >3:1 Sloped Soil At Top, Add</i>	2,051.75 43.36	770.85
32 32 16			Precast Concrete Retaining Walls (32 32)		
32 32 16 00-0001			Precast Retaining Walls (32 32 16) Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.		
32 32 16 00-0002	SF		10-15' High, Tied-back, Precast Concrete Retaining Walls	106.06	14.99
32 32 16 00-0003	SF		16-20' High, Tied-back, Precast Concrete Retaining Walls	109.05	12.04
32 32 16 00-0004	SF		21-25' High, Tied-back, Precast Concrete Retaining Walls	113.21	10.04

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 16 00-0005	SF	26-30' High, Tied-back, Precast Concrete Retaining Walls	122.45	10.04
32 32 16 00-0006	SF	>30' High, Tied-back, Precast Concrete Retaining Walls.....	129.63	8.56
32 32 23 Segmental Retaining Walls (32 32)				
32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls (32 32 23)				
32 32 23 13-0001		Modular Retaining Wall Systems (32 32 23 13) Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.		
32 32 23 13-0002		"Amastone" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0003	SF	Up To 4' Height "Amastone" Type Modular Retaining Wall System.....	74.90	9.26
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.79	
32 32 23 13-0004	SF	4 To 8' Height "Amastone" Type Modular Retaining Wall System	79.02	9.74
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.06	
32 32 23 13-0005	SF	8 To 12' Height "Amastone" Type Modular Retaining Wall System	82.32	10.72
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.18	
32 32 23 13-0006	SF	12 To 16' Height "Amastone" Type Modular Retaining Wall System	85.82	11.69
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.31	
32 32 23 13-0007		"Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0008	SF	Up To 4' Height "Diamond" Type Modular Retaining Wall System	77.85	9.26
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.04	
32 32 23 13-0009	SF	4 To 8' Height "Diamond" Type Modular Retaining Wall System	81.97	9.74
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.31	
32 32 23 13-0010	SF	8 To 12' Height "Diamond" Type Modular Retaining Wall System	85.26	10.72
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.43	
32 32 23 13-0011	SF	12 To 16' Height "Diamond" Type Modular Retaining Wall System	88.76	11.69
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.56	
32 32 23 13-0012		"Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0013	SF	Up To 4' Height "Keystone" Type Modular Retaining Wall System.....	84.89	9.26
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.64	
32 32 23 13-0014	SF	4 To 8' Height "Keystone" Type Modular Retaining Wall System	89.01	9.74
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.91	
32 32 23 13-0015	SF	8 To 12' Height "Keystone" Type Modular Retaining Wall System	92.31	10.72
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.02	
32 32 23 13-0016	SF	12 To 16' Height "Keystone" Type Modular Retaining Wall System	95.81	11.69
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.16	
32 32 23 13-0017		"Cribblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0018	SF	Up To 4' Height "Cribblock" Type Modular Retaining Wall System.....	74.90	9.26
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.79	
		<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0019	SF	4 To 8' Height "Cribblock" Type Modular Retaining Wall System	79.02	9.74
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.06	
		<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0020	SF	8 To 12' Height "Cribblock" Type Modular Retaining Wall System	82.32	10.72
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.18	
		<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0021	SF	12 To 16' Height "Cribblock" Type Modular Retaining Wall System	85.82	11.69
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.31	
		<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0022		"Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0023	SF	Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System	65.96	9.26
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.03	
32 32 23 13-0024	SF	4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System	73.02	9.74
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.55	
32 32 23 13-0025	SF	8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System	76.37	10.72
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.67	
32 32 23 13-0026	SF	12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System	79.32	11.69
		<i>For >3:1 Sloped Soil At Top, Add</i>	4.75	
32 32 23 13-0027		Retaining Wall Cap Block Restoration (32 32 23 13-0001) Note: Includes removal of existing cap block and installation of new cap block to match.		
32 32 23 13-0028	LF	Removal And Reinstall Retaining Wall Cap Block And Pins	41.55	
		<i>For >3:1 Sloped Soil At Top, Add</i>	2.36	
32 32 26 Metal Crib Retaining Walls (32 32)				
32 32 26 00-0001		Bin Type Retaining Wall (32 32 26)		
32 32 26 00-0002		Vertical Bin Walls (32 32 26 00-0001) Note: Excludes excavation and backfill.		



Exterior Improvements			32	32
Site Improvements			32 30	
Retaining Walls			32 32	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
32 32 26 00-0003	SF	5.5' Vertical Bin Retaining Wall, Wall Heights To 11'	78.76	
32 32 26 00-0004	SF	7.7' Vertical Bin Retaining Wall, Wall Heights, 8.33' To 16.33'	93.54	
32 32 26 00-0005	SF	9.9' Vertical Bin Retaining Wall, Wall Heights, 13.67' To 21.67'	109.01	
32 32 26 00-0006	SF	12.1' Vertical Bin Retain Wall, Wall Heights 17.67' To 25.67'	117.87	
32 32 26 00-0007	SF	14.3' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	131.62	
32 32 26 00-0008	SF	16.5' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	140.48	
32 32 26 00-0009 Battered Bin Walls (32 32 26 00-0001)				
Note: Excludes excavation and backfill.				
32 32 26 00-0010	SF	5.5' Battered Bin Retain Wall, Wall Heights To 11'	69.78	
32 32 26 00-0011	SF	7.7' Battered Bin Retain Wall, Wall Heights 8.33' To 16.33'	75.69	
32 32 26 00-0012	SF	9.9' Battered Bin Retain Wall, Wall Heights 13.67' To 21.67'	85.15	
32 32 26 00-0013	SF	12.1' Battered Bin Retain Wall, Wall Heights 17.67' To 25.67'	95.49	
32 32 26 00-0014	SF	14.3' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	111.76	
32 32 26 00-0015	SF	16.5' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	114.71	
32 32 26 00-0016 Aluminized Steel Bin (32 32 26)				
Note: Excludes excavation and backfill.				
32 32 26 00-0017	SF	4' High, 5.5' Deep Aluminized Steel Bin	47.91	5.24
For >3:1 Sloped Soil At Top, Add			3.18	
For Galvanized Type, Deduct			-3.75	
32 32 26 00-0018	SF	8' High, 5.5' Deep Aluminized Steel Bin	53.70	5.24
For >3:1 Sloped Soil At Top, Add			3.67	
For Galvanized Type, Deduct			-4.31	
32 32 26 00-0019	SF	10' High, 7.7' Deep Aluminized Steel Bin	57.34	5.72
For >3:1 Sloped Soil At Top, Add			3.91	
For Galvanized Type, Deduct			-4.60	
32 32 26 00-0020	SF	12' High, 7.7' Deep Aluminized Steel Bin	65.32	6.46
For >3:1 Sloped Soil At Top, Add			4.45	
For Galvanized Type, Deduct			-5.24	
32 32 26 00-0021	SF	16' High, 7.7' Deep Aluminized Steel Bin	62.87	6.70
For >3:1 Sloped Soil At Top, Add			4.21	
For Galvanized Type, Deduct			-4.96	
32 32 26 00-0022	SF	16' High, 9.9' Deep Aluminized Steel Bin	70.12	6.83
For >3:1 Sloped Soil At Top, Add			4.81	
For Galvanized Type, Deduct			-5.66	
32 32 26 00-0023	SF	20' High, 9.9' Deep Aluminized Steel Bin	77.81	7.18
For >3:1 Sloped Soil At Top, Add			5.38	
For Galvanized Type, Deduct			-6.33	
32 32 26 00-0024	SF	20' High, 12.1' Deep Aluminized Steel Bin	79.66	7.55
For >3:1 Sloped Soil At Top, Add			5.50	
For Galvanized Type, Deduct			-6.47	
32 32 26 00-0025	SF	24' High, 12.1' Deep Aluminized Steel Bin	83.84	7.55
For >3:1 Sloped Soil At Top, Add			5.84	
For Galvanized Type, Deduct			-6.87	
32 32 26 00-0026	SF	24' High, 14.3' Deep Aluminized Steel Bin	88.00	7.67
For >3:1 Sloped Soil At Top, Add			6.18	
For Galvanized Type, Deduct			-7.28	
32 32 26 00-0027	SF	28' High, 14.3' Deep Aluminized Steel Bin	90.94	7.80
For >3:1 Sloped Soil At Top, Add			6.41	
For Galvanized Type, Deduct			-7.55	
32 32 29 Timber Retaining Walls (32 32)				
32 32 29 00-0001 Wood Post Retaining Walls (32 32 29)				
Note: System includes wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.				
32 32 29 00-0002	LF	4" x 4", 1' High, Redwood, Wood Post Retaining Walls	90.21	30.90
For >3:1 Sloped Soil At Top, Add			2.42	
32 32 29 00-0003	LF	4" x 4", 2' High, Redwood, Wood Post Retaining Walls	176.51	60.49
For >3:1 Sloped Soil At Top, Add			4.73	
32 32 29 00-0004	LF	4" x 4", 1' High, Cedar, Wood Post Retaining Walls	86.57	30.90
For >3:1 Sloped Soil At Top, Add			2.11	
32 32 29 00-0005	LF	4" x 4", 2' High, Cedar, Wood Post Retaining Walls	169.43	60.49
For >3:1 Sloped Soil At Top, Add			4.12	
32 32 29 00-0006	LF	4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls	89.76	27.00
For >3:1 Sloped Soil At Top, Add			3.03	
32 32 29 00-0007	LF	4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	175.74	52.80
For >3:1 Sloped Soil At Top, Add			5.96	
32 32 29 00-0008	LF	4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls	72.01	23.96
For >3:1 Sloped Soil At Top, Add			2.05	
32 32 29 00-0009	LF	4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls	130.20	43.37
For >3:1 Sloped Soil At Top, Add			3.69	
32 32 29 00-0010	LF	6" x 6", 2' High, Redwood, Wood Post Retaining Walls	239.56	73.29
For >3:1 Sloped Soil At Top, Add			7.91	
32 32 29 00-0011	LF	6" x 6", 4' High, Redwood, Wood Post Retaining Walls	473.19	143.66
For >3:1 Sloped Soil At Top, Add			15.81	
32 32 29 00-0012	LF	6" x 6", 2' High, Cedar, Wood Post Retaining Walls	235.52	73.29
For >3:1 Sloped Soil At Top, Add			7.56	
32 32 29 00-0013	LF	6" x 6", 4' High, Cedar, Wood Post Retaining Walls	463.08	143.66
For >3:1 Sloped Soil At Top, Add			14.95	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0014 LF 6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	232.79 9.66	59.52
32 32 29 00-0015 LF 6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	462.52 19.33	117.53
32 32 29 00-0016 LF 6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	165.03 5.93	47.60
32 32 29 00-0017 LF 6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	324.74 11.77	93.13
32 32 29 00-0018 LF 8" x 8", 4' High, Redwood, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	594.70 23.54	158.83
32 32 29 00-0019 LF 8" x 8", 6' High, Redwood, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	1,112.55 44.16	296.53
32 32 29 00-0020 LF 8" x 8", 4' High, Cedar, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	574.49 21.82	158.83
32 32 29 00-0021 LF 8" x 8", 6' High, Cedar, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	1,074.14 40.90	296.53
32 32 29 00-0022 LF 8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	636.19 22.92	183.23
32 32 29 00-0023 LF 8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	1,186.75 42.70	342.17
32 32 29 00-0024 LF 8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	462.97 14.18	148.10
32 32 29 00-0025 LF 8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	858.69 26.29	274.74
32 32 29 00-0026 LF 4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	172.71 4.30	61.04
32 32 29 00-0027 LF 6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	258.05 6.36	91.61
32 32 29 00-0028 LF 8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	343.29 8.42	122.08
32 32 29 00-0029 LF 4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	118.56 4.21	34.48
32 32 29 00-0030 LF 6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	172.34 6.19	49.76
32 32 29 00-0031 LF 8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	233.42 8.42	67.22

32 32 29 00-0032 Post And Board Retaining Walls (32 32 29)

Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0033 LF 4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	73.34 3.12	18.32
32 32 29 00-0034 LF 4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	112.14 4.21	31.33
32 32 29 00-0035 LF 6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	147.63 5.93	38.92
32 32 29 00-0036 LF 6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	206.29 8.16	55.18
32 32 29 00-0037 LF 6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	269.88 10.74	71.78
32 32 29 00-0038 LF 8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	554.95 23.03	142.03
32 32 29 00-0039 LF 8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	627.93 26.64	157.31
32 32 29 00-0040 LF 4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	74.37 3.08	19.08
32 32 29 00-0041 LF 4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	130.47 5.33	33.93
32 32 29 00-0042 LF 6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	128.24 5.24	33.28
32 32 29 00-0043 LF 6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	179.51 7.13	47.81
32 32 29 00-0044 LF 6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls <i>For >3:1 Sloped Soil At Top, Add</i>	279.07 10.74	76.33
32 32 29 00-0045 LF 6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar <i>For >3:1 Sloped Soil At Top, Add</i>	221.40 8.85	58.65
32 32 29 00-0046 LF 8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar <i>For >3:1 Sloped Soil At Top, Add</i>	574.14 23.89	146.59
32 32 29 00-0047 LF 4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated <i>For >3:1 Sloped Soil At Top, Add</i>	91.27 1.76	35.24
32 32 29 00-0048 LF 4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated <i>For >3:1 Sloped Soil At Top, Add</i>	132.23 2.72	50.09
32 32 29 00-0049 LF 4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat <i>For >3:1 Sloped Soil At Top, Add</i>	193.02 4.73	68.73
32 32 29 00-0050 LF 6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated <i>For >3:1 Sloped Soil At Top, Add</i>	340.22 9.19	116.01
32 32 29 00-0051 LF 6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated <i>For >3:1 Sloped Soil At Top, Add</i>	345.28 9.62	116.01
32 32 29 00-0052 LF 6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat <i>For >3:1 Sloped Soil At Top, Add</i>	324.04 8.59	111.45
32 32 29 00-0053 LF 8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated <i>For >3:1 Sloped Soil At Top, Add</i>	763.43 21.31	256.41



Exterior Improvements			32
Site Improvements			32 30
Retaining Walls			32 32

32

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
32 32 29 00-0054	LF	4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	91.27 1.76	35.24
32 32 29 00-0055	LF	4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	132.23 2.72	50.09
32 32 29 00-0056	LF	4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	193.02 4.73	68.73
32 32 29 00-0057	LF	6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	242.77 6.10	85.54
32 32 29 00-0058	LF	6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	340.22 9.19	116.01
32 32 29 00-0059	LF	6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	324.04 8.59	111.45
32 32 29 00-0060	LF	8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	763.43 21.31	256.41
32 32 29 00-0061		Wood Tie Retaining Walls, Rod Connector At 4' (32 32 29) Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0062		Redwood (32 32 29 00-0061)		
32 32 29 00-0063	LF	2' High, 6" x 6" Wood Tie Wall..... <i>For >3:1 Sloped Soil At Top, Add</i>	123.64 4.12	37.51
32 32 29 00-0064	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	282.19 9.45	85.54
32 32 29 00-0065	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	422.36 14.09	128.26
32 32 29 00-0066	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	411.91 16.33	109.93
32 32 29 00-0067	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	619.00 24.57	164.91
32 32 29 00-0068	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	817.75 32.65	216.84
32 32 29 00-0069		Cedar (32 32 29 00-0061)		
32 32 29 00-0070	LF	2' High, 6" x 6" Wood Tie Wall..... <i>For >3:1 Sloped Soil At Top, Add</i>	121.62 3.95	37.51
32 32 29 00-0071	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	276.13 8.94	85.54
32 32 29 00-0072	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	414.27 13.40	128.26
32 32 29 00-0073	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	397.76 15.12	109.93
32 32 29 00-0074	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	598.79 22.86	164.91
32 32 29 00-0075	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	789.44 30.24	216.84
32 32 29 00-0076		Creosoted Wood (32 32 29 00-0061)		
32 32 29 00-0077	LF	2' High, 6" x 8" Wood Tie Wall..... <i>For >3:1 Sloped Soil At Top, Add</i>	134.03 2.93	49.76
32 32 29 00-0078	LF	4' High, 6" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	306.90 6.62	114.49
32 32 29 00-0079	LF	6' High, 6" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	455.19 9.88	169.46
32 32 29 00-0080	LF	4' High, 7" x 9" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	616.75 13.23	230.49
32 32 29 00-0081	LF	6' High, 7" x 9" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	897.96 19.25	335.77
32 32 29 00-0082	LF	8' High, 7" x 9" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,191.62 25.61	445.16
32 32 29 00-0083		Pressure Treated Wood (32 32 29 00-0061)		
32 32 29 00-0084	LF	2' High, 6" x 6" Wood Tie Wall..... <i>For >3:1 Sloped Soil At Top, Add</i>	107.59 3.88	31.01
32 32 29 00-0085	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	244.60 8.85	70.25
32 32 29 00-0086	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	366.38 13.23	105.39
32 32 29 00-0087	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	395.91 12.12	126.74
32 32 29 00-0088	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	595.04 18.39	189.41
32 32 29 00-0089	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	788.70 24.23	251.86

32 32 53 Stone Retaining Walls (32 32)

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 32 53 00-0001	Stone Retaining Walls (32 32 53)			
	Note: Construction is either dry set or mortar set. System includes concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.			
32 32 53 00-0002	Stone Retaining Walls (32 32 53 00-0001)			
	Note: Stone at \$16.00/ton.			
32 32 53 00-0003	LF \$16.00/ton 3' High Stone Retaining Wall, Dry Set.....	492.39		219.29
	For >3:1 Sloped Soil At Top, Add.....	4.57		
32 32 53 00-0004	LF \$16.00/ton 4' High Stone Retaining Wall, Dry Set.....	580.56		260.89
	For >3:1 Sloped Soil At Top, Add.....	4.99		
32 32 53 00-0005	LF \$16.00/ton 6' High Stone Retaining Wall, Dry Set.....	761.91		346.62
	For >3:1 Sloped Soil At Top, Add.....	5.84		
32 32 53 00-0006	LF \$16.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,172.66		541.94
	For >3:1 Sloped Soil At Top, Add.....	7.54		
32 32 53 00-0007	LF \$16.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,522.85		708.92
	For >3:1 Sloped Soil At Top, Add.....	8.92		
32 32 53 00-0008	LF \$16.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,889.38		882.81
	For >3:1 Sloped Soil At Top, Add.....	10.51		
32 32 53 00-0009	LF \$16.00/ton 3' High Stone Retaining Wall, Mortar Set.....	442.03		194.15
	For >3:1 Sloped Soil At Top, Add.....	4.57		
32 32 53 00-0010	LF \$16.00/ton 4' High Stone Retaining Wall, Mortar Set.....	518.21		229.72
	For >3:1 Sloped Soil At Top, Add.....	4.99		
32 32 53 00-0011	LF \$16.00/ton 6' High Stone Retaining Wall, Mortar Set.....	669.88		300.53
	For >3:1 Sloped Soil At Top, Add.....	5.84		
32 32 53 00-0012	LF \$16.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,024.52		467.90
	For >3:1 Sloped Soil At Top, Add.....	7.54		
32 32 53 00-0013	LF \$16.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,315.06		605.07
	For >3:1 Sloped Soil At Top, Add.....	8.92		
32 32 53 00-0014	LF \$16.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,633.06		754.70
	For >3:1 Sloped Soil At Top, Add.....	10.51		
32 32 53 00-0015	Stone Retaining Walls (32 32 53 00-0001)			
	Note: Stone at \$32.00/ton.			
32 32 53 00-0016	LF \$32.00/ton 3' High Stone Retaining Wall, Dry Set.....	508.63		219.29
	For >3:1 Sloped Soil At Top, Add.....	5.95		
32 32 53 00-0017	LF \$32.00/ton 4' High Stone Retaining Wall, Dry Set.....	603.05		260.89
	For >3:1 Sloped Soil At Top, Add.....	6.90		
32 32 53 00-0018	LF \$32.00/ton 6' High Stone Retaining Wall, Dry Set.....	794.40		346.62
	For >3:1 Sloped Soil At Top, Add.....	8.60		
32 32 53 00-0019	LF \$32.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,220.14		541.94
	For >3:1 Sloped Soil At Top, Add.....	11.58		
32 32 53 00-0020	LF \$32.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,587.82		708.92
	For >3:1 Sloped Soil At Top, Add.....	14.44		
32 32 53 00-0021	LF \$32.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,971.85		882.81
	For >3:1 Sloped Soil At Top, Add.....	17.52		
32 32 53 00-0022	LF \$32.00/ton 3' High Stone Retaining Wall, Mortar Set.....	458.27		194.15
	For >3:1 Sloped Soil At Top, Add.....	5.95		
32 32 53 00-0023	LF \$32.00/ton 4' High Stone Retaining Wall, Mortar Set.....	540.70		229.72
	For >3:1 Sloped Soil At Top, Add.....	6.90		
32 32 53 00-0024	LF \$32.00/ton 6' High Stone Retaining Wall, Mortar Set.....	702.37		300.53
	For >3:1 Sloped Soil At Top, Add.....	8.60		
32 32 53 00-0025	LF \$32.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,072.00		467.90
	For >3:1 Sloped Soil At Top, Add.....	11.58		
32 32 53 00-0026	LF \$32.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,380.03		605.07
	For >3:1 Sloped Soil At Top, Add.....	14.44		
32 32 53 00-0027	LF \$32.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,715.53		754.70
	For >3:1 Sloped Soil At Top, Add.....	17.52		
32 32 53 00-0028	Stone Retaining Walls (32 32 53 00-0001)			
	Note: Stone at \$48.00/ton.			
32 32 53 00-0029	LF \$48.00/ton 3' High Stone Retaining Wall, Dry Set.....	526.12		219.29
	For >3:1 Sloped Soil At Top, Add.....	7.43		
32 32 53 00-0030	LF \$48.00/ton 4' High Stone Retaining Wall, Dry Set.....	625.29		260.89
	For >3:1 Sloped Soil At Top, Add.....	8.79		
32 32 53 00-0031	LF \$48.00/ton 6' High Stone Retaining Wall, Dry Set.....	825.64		346.62
	For >3:1 Sloped Soil At Top, Add.....	11.26		
32 32 53 00-0032	LF \$48.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,267.63		541.94
	For >3:1 Sloped Soil At Top, Add.....	15.61		
32 32 53 00-0033	LF \$48.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,652.79		708.92
	For >3:1 Sloped Soil At Top, Add.....	19.97		
32 32 53 00-0034	LF \$48.00/ton 12' High Stone Retaining Wall, Dry Set.....	2,055.56		882.81
	For >3:1 Sloped Soil At Top, Add.....	24.64		
32 32 53 00-0035	LF \$48.00/ton 3' High Stone Retaining Wall, Mortar Set.....	475.76		194.15
	For >3:1 Sloped Soil At Top, Add.....	7.43		
32 32 53 00-0036	LF \$48.00/ton 4' High Stone Retaining Wall, Mortar Set.....	563.19		229.72
	For >3:1 Sloped Soil At Top, Add.....	8.82		
32 32 53 00-0037	LF \$48.00/ton 6' High Stone Retaining Wall, Mortar Set.....	733.61		300.53
	For >3:1 Sloped Soil At Top, Add.....	11.26		
32 32 53 00-0038	LF \$48.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,119.49		467.90
	For >3:1 Sloped Soil At Top, Add.....	15.61		



Exterior Improvements			32	32
Site Improvements			32 30	
Retaining Walls			32 32	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0039	LF		\$48.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,445.00 19.97	605.07
32 32 53 00-0040	LF		\$48.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,799.24 24.64	754.70
32 32 53 00-0041 Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$64.00/ton.					
32 32 53 00-0042	LF		\$64.00/ton 3' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	543.62 8.92	219.29
32 32 53 00-0043	LF		\$64.00/ton 4' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	623.04 8.60	260.89
32 32 53 00-0044	LF		\$64.00/ton 6' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	859.37 14.13	346.62
32 32 53 00-0045	LF		\$64.00/ton 8' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,317.61 19.86	541.94
32 32 53 00-0046	LF		\$64.00/ton 10' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,720.27 25.70	708.92
32 32 53 00-0047	LF		\$64.00/ton 12' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	2,140.53 31.86	882.81
32 32 53 00-0048	LF		\$64.00/ton 3' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	493.26 8.92	194.15
32 32 53 00-0049	LF		\$64.00/ton 4' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	585.68 10.73	229.72
32 32 53 00-0050	LF		\$64.00/ton 6' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	767.34 14.13	300.53
32 32 53 00-0051	LF		\$64.00/ton 8' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,169.47 19.86	467.90
32 32 53 00-0052	LF		\$64.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,512.48 25.70	605.07
32 32 53 00-0053	LF		\$64.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,884.21 31.86	754.70
32 33 Site Furnishings (32 30)					
32 33 13 Site Bicycle Racks (32 33)					
32 33 13 00-0001 Bicycle Organizer And Rack (32 33 13)					
32 33 13 00-0002 Vertical Style Bike Racks Single/Double Sided, Galvanized (32 33 13 00-0001)					
32 33 13 00-0003 Double Sided (32 33 13 00-0002)					
32 33 13 00-0004	EA		5' Galvanized Steel Double Sided Bike Rack, 9 Bikes.....	843.70	147.07
32 33 13 00-0005	EA		10' Galvanized Steel Double Sided Bike Rack, 18 Bikes.....	1,273.07	241.63
32 33 13 00-0006	EA		20' Galvanized Steel Double Sided Bike Rack, 36 Bikes.....	2,191.91	367.69
32 33 13 00-0007 Single Sided (32 33 13 00-0002)					
32 33 13 00-0008	EA		5' Galvanized Steel Single Sided Bike Rack, 5 Bikes.....	738.68	131.32
32 33 13 00-0009	EA		10' Galvanized Steel Single Sided Bike Rack, 9 Bikes.....	1,045.41	218.52
32 33 13 00-0010	EA		20' Galvanized Steel Single Sided Bike Rack, 18 Bikes.....	1,790.79	328.30
32 33 13 00-0011 Anchor Set For Vertical Style Bike Rack (32 33 13 00-0002)					
32 33 13 00-0012	PR		Anchor Set For Vertical Style Bike Rack..... Note: Anchoring frame to ground.	141.87	
32 33 13 00-0013 Bike Racks Ground Loop (32 33 13 00-0001) Note: In-ground mount.					
32 33 13 00-0014	EA		83" Ground Loop Bike Rack, Surface Or Wall Mounted, 12 Bikes.....	1,120.49	257.70
32 33 13 00-0015 Serpentine Bike Racks (32 33 13 00-0001) Note: In-ground mount.					
32 33 13 00-0016 Galvanized, 36" High, 2-3/8" OD Tubing (32 33 13 00-0015)					
32 33 13 00-0017	EA		1' x 3' High Serpentine (M Style) Bike Rack, 3 Bikes, Galvanized.....	620.10	157.59
32 33 13 00-0018	EA		3' x 3' High Serpentine (M Style) Bike Rack, 5 Bikes, Galvanized.....	842.19	170.71
32 33 13 00-0019	EA		5' x 3' High Serpentine (M Style) Bike Rack, 7 Bikes, Galvanized.....	1,064.27	183.85
32 33 13 00-0020	EA		7' x 3' High Serpentine (M Style) Bike Rack, 9 Bikes, Galvanized.....	1,314.34	196.98
32 33 13 00-0021	EA		9' x 3' High Serpentine (M Style) Bike Rack, 11 Bikes, Galvanized.....	1,564.42	210.11
32 33 13 00-0022	EA		11' x 3' High Serpentine (M Style) Bike Rack, 13 Bikes, Galvanized.....	1,702.58	223.25
32 33 13 00-0023 Galvanized, 42" High, 2-3/8" OD Tubing (32 33 13 00-0015)					
32 33 13 00-0024	EA		1' x 42" High Serpentine Bike Rack, 3 Bikes, Galvanized.....	702.12	157.59
32 33 13 00-0025	EA		3' x 42" High Serpentine Bike Rack, 5 Bikes, Galvanized.....	901.32	170.71
32 33 13 00-0026	EA		5' x 42" High Serpentine Bike Rack, 7 Bikes, Galvanized.....	1,100.51	183.85
32 33 13 00-0027	EA		7' x 42" High Serpentine Bike Rack, 9 Bikes, Galvanized.....	1,278.10	196.98
32 33 13 00-0028	EA		9' x 42" High Serpentine Bike Rack, 11 Bikes, Galvanized.....	1,477.31	210.11
32 33 13 00-0029	EA		11' x 42" High Serpentine Bike Rack, 13 Bikes, Galvanized.....	1,719.74	223.25

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 13 00-0030	EA	13' x 42" High Serpentine Bike Rack, 15 Bikes, Galvanized	2,027.03	262.64
32 33 13 00-0031	EA	15' x 42" High Serpentine Bike Rack, 17 Bikes, Galvanized	2,355.93	249.51
32 33 13 00-0032	EA	17' x 42" High Serpentine Bike Rack, 19 Bikes, Galvanized	2,663.22	262.64
32 33 13 00-0033		Powder Coated, 36" High, 2-3/8" OD Tubing (32 33 13 00-0015)		
32 33 13 00-0034	EA	1' x 3' High Serpentine (M Style) Bike Rack, 3 Bikes, Powder Coated	620.10	157.59
32 33 13 00-0035	EA	3' x 3' High Serpentine (M Style) Bike Rack, 5 Bikes, Powder Coated	842.19	170.71
32 33 13 00-0036	EA	5' x 3' High Serpentine (M Style) Bike Rack, 7 Bikes, Powder Coated	1,064.27	183.85
32 33 13 00-0037	EA	7' x 3' High Serpentine (M Style) Bike Rack, 9 Bikes, Powder Coated	1,314.34	196.98
32 33 13 00-0038	EA	9' x 3' High Serpentine (M Style) Bike Rack, 11 Bikes, Powder Coated	1,564.42	210.11
32 33 13 00-0039	EA	11' x 3' High Serpentine (M Style) Bike Rack, 13 Bikes, Powder Coated	1,702.58	223.25
32 33 13 00-0040		Powder Coated, 42" High, 2-3/8" OD Tubing (32 33 13 00-0015)		
32 33 13 00-0041	EA	1' x 42" High Serpentine Bike Rack, 3 Bikes, Powder Coated	723.74	157.59
32 33 13 00-0042	EA	3' x 42" High Serpentine Bike Rack, 5 Bikes, Powder Coated	944.55	170.71
32 33 13 00-0043	EA	5' x 42" High Serpentine Bike Rack, 7 Bikes, Powder Coated	1,143.75	183.85
32 33 13 00-0044	EA	7' x 42" High Serpentine Bike Rack, 9 Bikes, Powder Coated	1,386.19	196.98
32 33 13 00-0045	EA	9' x 42" High Serpentine Bike Rack, 11 Bikes, Powder Coated	1,585.40	210.11
32 33 13 00-0046	EA	11' x 42" High Serpentine Bike Rack, 13 Bikes, Powder Coated	1,849.45	223.25
32 33 13 00-0047	EA	13' x 42" High Serpentine Bike Rack, 15 Bikes, Powder Coated	2,199.96	262.64
32 33 13 00-0048	EA	15' x 42" High Serpentine Bike Rack, 17 Bikes, Powder Coated	2,550.48	249.51
32 33 13 00-0049	EA	17' x 42" High Serpentine Bike Rack, 19 Bikes, Powder Coated	2,879.39	262.64
32 33 13 00-0050		Stainless Steel, 36" High, 2-3/8" OD Tubing (32 33 13 00-0015)		
32 33 13 00-0051	EA	1' x 36" High Serpentine Bike Rack, 3 Bikes, Stainless Steel	1,171.19	157.59
32 33 13 00-0052	EA	3' x 36" High Serpentine Bike Rack, 5 Bikes, Stainless Steel	1,747.16	170.71
32 33 13 00-0053	EA	5' x 36" High Serpentine Bike Rack, 7 Bikes, Stainless Steel	2,323.16	183.85
32 33 13 00-0054	EA	7' x 36" High Serpentine Bike Rack, 9 Bikes, Stainless Steel	2,977.70	196.98
32 33 13 00-0055	EA	9' x 36" High Serpentine Bike Rack, 11 Bikes, Stainless Steel	3,632.22	210.11
32 33 13 00-0056	EA	11' x 36" High Serpentine Bike Rack, 13 Bikes, Stainless Steel	3,972.61	223.25
32 33 13 00-0057		Stainless Steel, 42" High, 2-3/8" OD Tubing (32 33 13 00-0015)		
32 33 13 00-0058	EA	1' x 42" High Serpentine Bike Rack, 3 Bikes, Stainless Steel	918.29	157.59
32 33 13 00-0059	EA	3' x 42" High Serpentine Bike Rack, 5 Bikes, Stainless Steel	2,025.41	170.71
32 33 13 00-0060	EA	5' x 42" High Serpentine Bike Rack, 7 Bikes, Stainless Steel	2,656.95	183.85
32 33 13 00-0061	EA	7' x 42" High Serpentine Bike Rack, 9 Bikes, Stainless Steel	3,245.27	196.98
32 33 13 00-0062	EA	9' x 42" High Serpentine Bike Rack, 11 Bikes, Stainless Steel	3,855.20	210.11
32 33 13 00-0063	EA	11' x 42" High Serpentine Bike Rack, 13 Bikes, Stainless Steel	4,486.74	223.25
32 33 13 00-0064		Bike Racks Bollards/Bicycle Posts (32 33 13 00-0001)		
		Note: In-ground mount.		
32 33 13 00-0065	EA	43" Overall Height, 4-1/2" Outside Diameter Bollard/Bicycle Post, 2 Loop Galvanized Steel Bollard (Belson BOLA450-2R-IG-G).....	691.32	118.19
32 33 23		Site Trash and Litter Receptacles (32 33)		
32 33 23 00-0001		Steel Trash Containment (32 33 23)		
32 33 23 00-0002		Steel Frame Surrounded With Kiln-Dried Wood (32 33 23 00-0001)		
32 33 23 00-0003	EA	13" x 13" x 30" Ash Receptacle Steel Frame, Kiln Dried Wood	588.23	62.78
32 33 23 00-0004	EA	24" x 24" x 30" High Open Top Trash Container Steel Frame, Kiln Dried Wood	561.83	62.78
32 33 23 00-0005	EA	21" x 21" x 31" High Flat Top Trash Container Steel Frame, Kiln Dried Wood	561.83	62.78
32 33 23 00-0006	EA	24" x 24" x 31" High, Flat Top Trash Container Steel Frame, Kiln Dried Wood	532.14	62.78
32 33 23 00-0007	EA	18" x 18" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood.....	588.23	62.78
32 33 23 00-0008	EA	23" x 23" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood.....	532.14	62.78
32 33 23 00-0009	EA	24" x 24" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood.....	726.80	62.78
32 33 23 00-0010		Square Steel Frames Surrounded With Flat Steel (32 33 23 00-0001)		
32 33 23 00-0011	EA	26" Diameter x 34" High Open Top Trash Square Container Steel Frame, Flat Steel Surround	1,058.85	62.78
32 33 23 00-0012	EA	26" Diameter x 34" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround.....	1,142.70	62.78
32 33 23 00-0013	EA	26" Diameter x 39" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround.....	1,142.70	62.78
32 33 23 00-0014		Round Steel Pipe And Flat Steel Frames (32 33 23 00-0001)		
		Note: Surrounded with kiln-dried wood.		
32 33 23 00-0015	EA	21" Diameter x 32" High Open Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood.....	1,561.94	62.78
32 33 23 00-0016	EA	21" Diameter x 32" High Flat Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood	1,681.73	62.78
32 33 23 00-0017	EA	21" Diameter x 39" High Dome Top Trash Steel Container Pipe, Flat Steel Frame, Kiln Dried Wood.....	1,936.27	62.78
32 33 23 00-0018	EA	21" Diameter x 40" High HPR Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood	1,756.59	62.78
32 33 23 00-0019		Round Steel Pipe Surrounded With Perforated (32 33 23 00-0001)		
32 33 23 00-0020	EA	21" Diameter x 32" High Open Top Trash Container Perforated Round Steel Pipe.....	1,397.24	62.78



Exterior Improvements			32	32
Site Improvements			32 30	
Site Furnishings			32 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 23 00-0021	EA		21" Diameter x 32" High Flat Top Trash Container Perforated Round Steel Pipe	1,517.02	62.78
32 33 23 00-0022	EA		21" Diameter x 39" High Dome Top Trash Container Perforated Round Steel Pipe.....	1,771.57	62.78
32 33 23 00-0023	EA		21" Diameter x 40" High HPR Top Trash Container Perforated Round Steel Pipe.....	1,606.86	62.78
32 33 23 00-0024			Round Steel Pipe Frames Surrounded With Welded Wire (32 33 23 00-0001)		
32 33 23 00-0025	EA		21" Diameter x 32" High Flat Top Trash Container Steel Pipe Frame, Welded Wire Surround	1,112.75	62.78
32 33 23 00-0026	EA		21" Diameter x 32" High Open Top Trash Steel Container Pipe Frame, Welded Wire Surround	1,232.54	62.78
32 33 23 00-0027	EA		21" Diameter x 39" High Dome Top Trash Steel Container Pipe Frame, Welded Wire Surround.....	1,487.08	62.78
32 33 23 00-0028	EA		21" Diameter x 40" High HPR Top Trash Container Steel Pipe Frame, Welded Wire Surround.....	1,322.37	62.78
32 33 23 00-0029			Litter Baskets (32 33 23)		
32 33 23 00-0030			Round Wire Litter Baskets (32 33 23 00-0029)		
32 33 23 00-0031	EA		1.33' Diameter x 1.83' High Round Wire Litter Basket	195.51	6.38
32 33 23 00-0032	EA		1.5' Diameter x 1.83' High Round Wire Litter Basket	246.75	6.38
32 33 23 00-0033	EA		1.75' Diameter x 2.33' High Round Wire Litter Basket	333.69	6.38
32 33 23 00-0034	EA		1.83' Diameter x 2.83' High Round Wire Litter Basket	382.75	6.38
32 33 23 00-0035			Trash Can/Wire Basket Holder (32 33 23 00-0029)		
32 33 23 00-0036	EA		Steel Post, Single Holder	282.10	51.26
32 33 23 00-0037	EA		Steel Post, Double Holder	380.16	51.26
32 33 23 00-0038	EA		Redwood Post, Single Holder	156.21	51.26
32 33 23 00-0039	EA		Redwood Post, Double Holder	180.06	51.26
32 33 23 00-0040			Litter Receptacles, Freestanding (32 33 23 00-0029)		
Note: Includes 1-1/2" outside diameter steel leg supports. Wall mounted, includes 3/8" x 3" steel wall plates. Surface mounted, includes 2-1/2" outside diameter steel tube with floor flange, embedded to include 2-1/2" outside diameter steel tube.					
32 33 23 00-0041	EA		16" Diameter x 28" High Litter Receptacle, Freestanding Or Embedded	1,570.08	26.16
			For Powder Coated Sand Pan, Add	50.00	
			For Orange Peel Lid, Add	25.00	
			For Polished Granite Lid, Add	50.00	
32 33 23 00-0042	EA		16" Diameter x 32" High Litter Receptacle, Freestanding Or Embedded.....	1,652.56	26.16
			For Powder Coated Sand Pan, Add	50.00	
			For Orange Peel Lid, Add	25.00	
			For Polished Granite Lid, Add	50.00	
32 33 23 00-0043	EA		20" Diameter x 36" High Litter Receptacle, Freestanding Or Embedded.....	1,926.17	39.23
			For Powder Coated Sand Pan, Add	50.00	
			For Orange Peel Lid, Add	25.00	
			For Polished Granite Lid, Add	50.00	
32 33 23 00-0044	EA		20" Diameter x 40" High Litter Receptacle, Freestanding Embedded.....	2,008.66	39.23
			For Powder Coated Sand Pan, Add	50.00	
			For Orange Peel Lid, Add	25.00	
			For Polished Granite Lid, Add	50.00	
32 33 23 00-0045	EA		16" Diameter x 28" High Litter Receptacle, Pole Mount With Pole	2,091.15	39.23
			For Powder Coated Sand Pan, Add	50.00	
			For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
			For Orange Peel Lid, Add	25.00	
			For Polished Granite Lid, Add	50.00	
32 33 23 00-0046	EA		16" Diameter x 32" High Litter Receptacle, Pole Mount With Pole	2,173.64	39.23
			For Powder Coated Sand Pan, Add	50.00	
			For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
			For Orange Peel Lid, Add	25.00	
			For Polished Granite Lid, Add	50.00	
32 33 23 00-0047	EA		16" Diameter x 28" High Litter Receptacle, Wall Mount.....	1,734.24	34.00
			For Powder Coated Sand Pan, Add	50.00	
			For Orange Peel Lid, Add	25.00	
			For Polished Granite Lid, Add	50.00	
			For 1-1/2" x 6" Diameter Metal Cover Plate , Add	20.00	
32 33 23 00-0048	EA		16" Diameter x 32" High Litter Receptacle, Wall Mount.....	1,816.73	34.00
			For Powder Coated Sand Pan, Add	50.00	
			For Orange Peel Lid, Add	25.00	
			For Polished Granite Lid, Add	50.00	
			For 1-1/2" x 6" Diameter Metal Cover Plate , Add	20.00	
32 33 23 00-0049			Ash Receptacles (32 33 23)		
32 33 23 00-0050	EA		12" Diameter x 21" High Ash Receptacle, Freestanding Or Embedded	552.63	26.16
			For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
			For Sand Pan, Add	110.00	
			For Bowl And Funnel, Add	120.00	
32 33 23 00-0051	EA		18" Square Concrete Exposed Aggregate x 36" High Ash Receptacles With 3-1/2" ID iron Pipe With Cap Square Concrete With Steel Liner	242.47	26.16
32 33 23 00-0052			Trash Receptacles (32 33 23)		
32 33 23 00-0053	EA		Outdoor Covered Steel Receptacle With Liner	1,289.62	26.16
32 33 23 00-0054	EA		Driftwood And Sable Receptacle, 35 Gallon With Liner And Frame	476.00	26.16
32 33 23 00-0055	EA		24" x 24" Square Trash Containment With Exposed Aggregate Finish	595.22	26.16

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 23 00-0056 EA 30" x 30" Square Trash Containment With Exposed Aggregate Finish	621.74	28.77
32 33 23 00-0057 EA 36" x 36" Square Trash Containment With Exposed Aggregate Finish	669.55	31.38
32 33 23 00-0058 EA 32 Gallon, Open Round Trash Receptacle, Recycled Plastic Lumber	551.86	20.92
32 33 23 00-0059 EA 32 Gallon, Round Trash Receptacle With Liner And Lid, Recycled Plastic Lumber	658.12	20.92
32 33 23 00-0060 EA 24" x 24" Square 18" High Trash Receptacle, Fiberglass	1,163.21	26.16
32 33 23 00-0061 EA 25" Square x 34" Height, Concrete Trash Receptacle With "C" Style Lid (Quick Crete QS-CAL2534W-C21).....	1,538.61	34.52
32 33 23 00-0062 Trash Containers (Dumpsters) (32 33 23)		
32 33 23 00-0063 EA 1 CY Straight Side Trash Dumpster.....	319.14	
32 33 23 00-0064 EA 1.5 CY Straight Side Trash Dumpster.....	478.72	
32 33 23 00-0065 EA 2 CY Straight Side Trash Dumpster.....	638.29	
32 33 23 00-0066 EA 2 CY Sloped Side Trash Dumpster	638.29	
32 33 23 00-0067 EA 3 CY Sloped Side Trash Dumpster	957.43	
32 33 23 00-0068 EA 4 CY Sloped Side Trash Dumpster	1,276.57	
32 33 23 00-0069 EA 6 CY Sloped Side Trash Dumpster	1,914.86	
32 33 23 00-0070 EA 8 CY Sloped Side Trash Dumpster	2,553.15	
32 33 33 Site Manufactured Planters (32 33)		
32 33 33 00-0001 Precast Concrete Planters (32 33 33)		
32 33 33 00-0002 Circular Precast Concrete Planters (32 33 33 00-0001)		
32 33 33 00-0003 EA 24" Diameter, 17" Height, Circular Precast Concrete Planter	686.28	30.86
32 33 33 00-0004 EA 24" Diameter, 24" Height, Circular Precast Concrete Planter	769.65	37.02
32 33 33 00-0005 EA 24" Diameter, 33" Height, Circular Precast Concrete Planter	840.67	37.02
32 33 33 00-0006 EA 30" Diameter, 17" Height, Circular Precast Concrete Planter	913.59	43.20
32 33 33 00-0007 EA 30" Diameter, 30" Height, Circular Precast Concrete Planter	1,107.46	55.54
32 33 33 00-0008 EA 36" Diameter, 24" Height, Circular Precast Concrete Planter	1,203.55	55.54
32 33 33 00-0009 EA 36" Diameter, 30" Height, Circular Precast Concrete Planter	1,355.84	61.71
32 33 33 00-0010 EA 48" Diameter, 17" Height, Circular Precast Concrete Planter	1,431.04	61.71
32 33 33 00-0011 EA 48" Diameter, 24" Height, Circular Precast Concrete Planter	1,597.68	77.14
32 33 33 00-0012 EA 48" Diameter, 30" Height, Circular Precast Concrete Planter	1,699.47	82.07
32 33 33 00-0013 EA 48" Diameter, 36" Height, Circular Precast Concrete Planter	1,770.76	86.40
32 33 33 00-0014 EA 60" Diameter, 17" Height, Circular Precast Concrete Planter	1,607.40	77.14
32 33 33 00-0015 EA 60" Diameter, 24" Height, Circular Precast Concrete Planter	1,768.67	86.40
32 33 33 00-0016 EA 60" Diameter, 36" Height, Circular Precast Concrete Planter	2,259.37	92.57
32 33 33 00-0017 EA 72" Diameter, 36" Height, Circular Precast Concrete Planter	2,931.22	117.26
32 33 33 00-0018 EA 84" Diameter, 36" Height, Circular Precast Concrete Planter	3,401.02	123.42
32 33 33 00-0019 Square Precast Concrete Planters (32 33 33 00-0001)		
32 33 33 00-0020 EA 36" Square, 30" Height, Square Precast Concrete Planter	1,390.16	80.22
32 33 33 00-0021 EA 42" Square, 30" Height, Square Precast Concrete Planter	1,589.58	86.40
32 33 33 00-0022 EA 60" Square, 36" Height, Square Precast Concrete Planter	2,497.31	98.75
32 33 33 00-0023 EA 72" Square, 36" Height, Square Precast Concrete Planter	2,664.22	104.91
32 33 33 00-0024 Rectangular Precast Concrete Planters (32 33 33 00-0001)		
32 33 33 00-0025 EA 33" x 18", 20" Height, Rectangular Precast Concrete Planter	800.98	37.02
32 33 33 00-0026 EA 48" x 18", 20" Height, Rectangular Precast Concrete Planter	944.53	55.54
32 33 33 00-0027 EA 60" x 18", 20" Height, Rectangular Precast Concrete Planter	1,094.74	61.71
32 33 33 00-0028 EA 72" x 18", 20" Height, Rectangular Precast Concrete Planter	1,248.84	77.14
32 33 33 00-0029 Fiberglass Planters (32 33 33)		
32 33 33 00-0030 Circular Fiberglass Planters (32 33 33 00-0029)		
32 33 33 00-0031 EA 36" Diameter, 27" High, Circular Fiberglass Planter	2,138.56	30.86
32 33 33 00-0032 EA 60" Diameter, 39" High, Circular Fiberglass Planter	3,569.88	30.86
32 33 33 00-0033 EA 36" Diameter, 24" High, Circular Fiberglass Planter	1,420.33	30.86
32 33 33 00-0034 EA 60" Diameter, 24" High, Circular Fiberglass Planter	2,815.34	30.86
32 33 33 00-0035 Tapered Circular Fiberglass Planters (32 33 33 00-0029)		
32 33 33 00-0036 EA 24" Diameter, 20" High, Tapered Circular Fiberglass Planter	822.08	30.86
32 33 33 00-0037 EA 30" Diameter, 25" High, Tapered Circular Fiberglass Planter	1,212.88	30.86
32 33 33 00-0038 EA 36" Diameter, 30" High, Tapered Circular Fiberglass Planter	2,174.88	30.86
32 33 33 00-0039 EA 40" Diameter, 36" High, Tapered Circular Fiberglass Planter	3,043.52	30.86
32 33 33 00-0040 Square Fiberglass Planters (32 33 33 00-0029)		
32 33 33 00-0041 EA 24" Square, 21" High, Square Fiberglass Planter	1,084.68	30.86
32 33 33 00-0042 EA 24" Square, 24" High, Square Fiberglass Planter	1,109.17	30.86
32 33 33 00-0043 EA 30" Square, 12" High, Square Fiberglass Planter	1,122.12	30.86
32 33 33 00-0044 EA 30" Square, 21" High, Square Fiberglass Planter	1,275.13	30.86
32 33 33 00-0045 EA 30" Square, 24" High, Square Fiberglass Planter	1,386.60	30.86



Exterior Improvements			32
Site Improvements			32 30
Site Furnishings			32 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 33 00-0046 Rectangular Fiberglass Planters (32 33 33 00-0029)		
32 33 33 00-0047 EA 48" x 12", 12" High, Rectangular Fiberglass Planter.....	1,250.90	30.86
32 33 33 00-0048 EA 48" x 12", 21" High, Rectangular Fiberglass Planter.....	1,342.31	30.86
32 33 33 00-0049 EA 48" x 24", 12" High, Rectangular Fiberglass Planter.....	1,753.99	30.86
32 33 33 00-0050 EA 48" x 24", 21" High, Rectangular Fiberglass Planter.....	1,936.83	30.86
32 33 33 00-0051 Timber Planters (32 33 33)		
32 33 33 00-0052 Square Timber Planters (32 33 33 00-0051)		
32 33 33 00-0053 EA 14" Square, 30" High, Square Timber Planter	577.31	62.78
32 33 33 00-0054 EA 21" Square, 30" High, Square Timber Planter	577.31	62.78
32 33 33 00-0055 EA 27" Square, 30" High, Square Timber Planter	1,078.67	62.78
32 33 33 00-0056 EA 34" Square, 30" High, Square Timber Planter	937.44	62.78
32 33 33 00-0057 EA 41" Square, 36" High, Square Timber Planter	1,113.98	62.78
32 33 33 00-0058 EA 54" Square, 36" High, Square Timber Planter	2,836.96	62.78
32 33 33 00-0059 EA 81" Square, 36" High, Square Timber Planter	4,256.31	62.78
32 33 33 00-0060 Rectangular Timber Planters (32 33 33 00-0051)		
32 33 33 00-0061 EA 21" x 14", 30" High, Rectangular Timber Planter	570.25	62.78
32 33 33 00-0062 EA 27" x 14", 30" High, Rectangular Timber Planter	633.80	62.78
32 33 33 00-0063 EA 27" x 21", 30" High, Rectangular Timber Planter	824.46	62.78
32 33 33 00-0064 EA 34" x 21", 30" High, Rectangular Timber Planter	909.20	62.78
32 33 33 00-0065 EA 41" x 21", 30" High, Rectangular Timber Planter	1,163.41	62.78
32 33 33 00-0066 EA 34" x 27", 30" High, Rectangular Timber Planter	1,347.00	62.78
32 33 33 00-0067 EA 41" x 27", 30" High, Rectangular Timber Planter	1,502.35	62.78
32 33 33 00-0068 EA 54" x 27", 30" High, Rectangular Timber Planter	1,947.22	62.78
32 33 33 00-0069 EA 54" x 34", 30" High, Rectangular Timber Planter	2,194.37	62.78
32 33 33 00-0070 EA 68" x 34", 36" High, Rectangular Timber Planter	2,498.02	62.78
32 33 33 00-0071 EA 54" x 41", 36" High, Rectangular Timber Planter	2,377.97	62.78
32 33 33 00-0072 EA 68" x 41", 36" High, Rectangular Timber Planter	2,688.67	62.78
32 33 33 00-0073 EA 81" x 41", 36" High, Rectangular Timber Planter	3,006.44	62.78
32 33 43 Site Seating and Tables (32 33)		
32 33 43 13 Site Seating (32 33 43)		
32 33 43 13-0001 Benches (Landscapeforms) (32 33 43 13)		
Note: Excludes embedding in concrete See CSI section 32 31 13 13-0001 for drilling and concrete.		
32 33 43 13-0002 EA 72" Backless Wood Or PolySite Bench (Landscapeforms Balustrade).....	1,543.07	104.62
32 33 43 13-0003 EA 72" Backed Wood Or PolySite Bench (Landscapeforms Balustrade).....	1,916.53	104.62
32 33 43 13-0004 EA 96" Backed Wood Bench (Landscapeforms Balustrade).....	2,156.62	104.62
32 33 43 13-0005 EA End Loop Arms For Backed Bench (Landscapeforms Balustrade).....	185.70	26.16
32 33 43 13-0006 EA 72" Backless Wood Or PolySite Bench (Landscapeforms Gretchen's).....	1,682.25	104.62
32 33 43 13-0007 EA 96" Backless Wood Bench (Landscapeforms Gretchen's).....	1,896.82	104.62
32 33 43 13-0008 EA 72" Backed Wood Or PolySite Bench (Landscapeforms Gretchen's).....	2,064.99	104.62
32 33 43 13-0009 EA 96" Backed Wood Bench (Landscapeforms Gretchen's).....	2,325.96	104.62
32 33 43 13-0010 EA 72" Backed Wood Or PolySite Bench With Armrest (Landscapeforms Gretchen's).....	2,354.95	104.62
32 33 43 13-0011 EA 96" Backed Wood Bench With Armrest (Landscapeforms Gretchen's).....	2,615.92	104.62
32 33 43 13-0012 EA 59" Backed Wood Or Metal Rod Bench (Landscapeforms Hyde Park).....	3,042.28	104.62
32 33 43 13-0013 EA 75" Backed Wood Or Metal Rod Bench (Landscapeforms Hyde Park).....	3,302.31	104.62
32 33 43 13-0014 EA 42" Backless Metal Grid Bench (Landscapeforms Manistee).....	882.29	78.47
32 33 43 13-0015 EA 62" Backless Metal Grid Bench (Landscapeforms Manistee).....	950.72	78.47
32 33 43 13-0016 EA 72" Backless Metal Grid Bench (Landscapeforms Manistee).....	1,031.63	91.55
32 33 43 13-0017 EA 82" Backless Metal Grid Bench (Landscapeforms Manistee).....	1,195.86	91.55
32 33 43 13-0018 EA 42" Backed Metal Grid Bench (Landscapeforms Manistee).....	1,100.06	91.55
32 33 43 13-0019 EA 62" Backed Metal Grid Bench (Landscapeforms Manistee).....	1,168.49	91.55
32 33 43 13-0020 EA 72" Backed Metal Grid Bench (Landscapeforms Manistee).....	1,263.08	104.62
32 33 43 13-0021 EA 82" Backed Metal Grid Bench (Landscapeforms Manistee).....	1,441.00	104.62
32 33 43 13-0022 EA 42" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee).....	1,223.23	91.55
32 33 43 13-0023 EA 62" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee).....	1,317.83	104.62
32 33 43 13-0024 EA 72" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee).....	1,386.26	104.62
32 33 43 13-0025 EA 82" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee).....	1,564.18	104.62
32 33 43 13-0026 EA 72" Backless Solid Wood Bench (Landscapeforms Palisade).....	2,459.34	104.62
32 33 43 13-0027 EA 96" Backless Solid Wood Bench (Landscapeforms Palisade).....	2,818.89	104.62
32 33 43 13-0028 EA 70" Backless Perforated Metal Bench (Landscapeforms Petoskey).....	1,596.42	104.62
32 33 43 13-0029 EA 70" Dual Support Backed Perforated Metal Bench (Landscapeforms Petoskey).....	1,916.53	104.62
32 33 43 13-0030 EA 70" Quad Support Backed Perforated Metal Bench (Landscapeforms Petoskey).....	2,076.59	104.62
32 33 43 13-0031 EA 72" Backed Wood Bench (Landscapeforms Plainwell).....	2,024.40	104.62
32 33 43 13-0032 EA 72" Backed Wood Bench With Center Arm (Landscapeforms Plainwell).....	2,238.97	104.62
32 33 43 13-0033 EA 96" Backed Wood Bench (Landscapeforms Plainwell).....	2,470.94	104.62
32 33 43 13-0034 EA 96" Backed Wood Bench With Center Arm (Landscapeforms Plainwell).....	2,685.51	104.62
32 33 43 13-0035 EA 96" Backed Wood Bench With Two Center Arms (Landscapeforms Plainwell).....	2,905.88	104.62
32 33 43 13-0036 EA 72" Backed Aluminum Bench (Landscapeforms Plainwell).....	2,563.73	104.62
32 33 43 13-0037 EA 72" Backed Aluminum Bench With Center Arm (Landscapeforms Plainwell).....	2,778.30	104.62
32 33 43 13-0038 EA 96" Backed Aluminum Bench (Landscapeforms Plainwell).....	3,132.05	104.62
32 33 43 13-0039 EA 96" Backed Aluminum Bench With Center Arm (Landscapeforms Plainwell).....	3,358.22	104.62
32 33 43 13-0040 EA 96" Backed Aluminum Bench With Two Center Arms (Landscapeforms Plainwell).....	3,566.99	104.62
32 33 43 13-0041 EA Backless Metal Grid Seats For Straight Runs (Landscapeforms Plexus).....	585.85	26.16

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0042 EA Backless Metal Grid Seats For 60 Degree Radius (Landscapeforms Plexus).....	783.02	26.16
32 33 43 13-0043 EA Backless Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus).....	783.02	26.16
32 33 43 13-0044 EA Backless Metal Grid Seats For Straight Runs (Landscapeforms Plexus).....	713.43	26.16
32 33 43 13-0045 EA Narrow-Backless Metal Grid Seats For 60 Degree Radius (Landscapeforms Plexus).....	881.61	26.16
32 33 43 13-0046 EA Narrow-Backless Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus).....	881.61	26.16
32 33 43 13-0047 EA Wide-Backless Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus).....	881.61	26.16
32 33 43 13-0048 EA Armrest For Metal Grid Seats (Landscapeforms Plexus).....	185.70	26.16
32 33 43 13-0049 EA Backless Straight Metal Grid Seats (Landscapeforms Presidio).....	817.81	26.16
32 33 43 13-0050 EA Backless Straight Metal Grid Seats With One Arm (Landscapeforms Presidio).....	904.80	26.16
32 33 43 13-0051 EA Backless Straight Metal Grid Seats With Two Arms (Landscapeforms Presidio).....	991.79	26.16
32 33 43 13-0052 EA Backless Angled Metal Grid Seats (Landscapeforms Presidio).....	985.99	26.16
32 33 43 13-0053 EA Backless Angled Metal Grid Seats With One Arm (Landscapeforms Presidio).....	1,072.98	26.16
32 33 43 13-0054 EA Backless Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio).....	1,159.97	26.16
32 33 43 13-0055 EA Backless Straight Metal Grid Seats (Landscapeforms Presidio).....	974.39	26.16
32 33 43 13-0056 EA Backless Straight Metal Grid Seats With One Arm (Landscapeforms Presidio).....	1,061.38	26.16
32 33 43 13-0057 EA Backless Straight Metal Grid Seats With Two Arms (Landscapeforms Presidio).....	1,148.37	26.16
32 33 43 13-0058 EA Narrow-Backless Angled Metal Grid Seats (Landscapeforms Presidio).....	1,188.96	26.16
32 33 43 13-0059 EA Narrow-Backless Angled Metal Grid Seats With One Arm (Landscapeforms Presidio).....	1,275.95	26.16
32 33 43 13-0060 EA Narrow-Backless Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio).....	1,362.94	26.16
32 33 43 13-0061 EA Wide-Backless Angled Metal Grid Seats (Landscapeforms Presidio).....	1,188.96	26.16
32 33 43 13-0062 EA Wide-Backless Angled Metal Grid Seats With One Arm (Landscapeforms Presidio).....	1,275.95	26.16
32 33 43 13-0063 EA Wide-Backless Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio).....	1,362.94	26.16
32 33 43 13-0064 EA 48" Backless Horizontal Strap Bench (Landscapeforms Scarborough).....	1,659.05	104.62
32 33 43 13-0065 EA 72" Backless Horizontal Strap Bench (Landscapeforms Scarborough).....	1,682.25	104.62
32 33 43 13-0066 EA 96" Backless Horizontal Strap Bench (Landscapeforms Scarborough).....	2,036.00	104.62
32 33 43 13-0067 EA 48" Backless Woven Bench (Landscapeforms Scarborough).....	2,459.34	104.62
32 33 43 13-0068 EA 72" Backless Woven Bench (Landscapeforms Scarborough).....	2,894.28	104.62
32 33 43 13-0069 EA 96" Backless Woven Bench (Landscapeforms Scarborough).....	3,306.02	104.62
32 33 43 13-0070 EA 24" Backless Horizontal Strap Bench (Landscapeforms Scarborough).....	1,345.89	104.62
32 33 43 13-0071 EA 48" Backless Horizontal Strap Bench (Landscapeforms Scarborough).....	1,775.03	104.62
32 33 43 13-0072 EA 72" Backless Horizontal Strap Bench (Landscapeforms Scarborough).....	1,815.63	104.62
32 33 43 13-0073 EA 96" Backless Horizontal Strap Bench With Center Arm (Landscapeforms Scarborough).....	2,082.39	104.62
32 33 43 13-0074 EA 72" Backless Horizontal Strap Bench (Landscapeforms Scarborough).....	2,343.36	104.62
32 33 43 13-0075 EA 96" Backless Horizontal Strap Bench With Center Arm (Landscapeforms Scarborough).....	2,615.92	104.62
32 33 43 13-0076 EA 96" Backless Horizontal Strap Bench With Two Intermediate Arms (Landscapeforms Scarborough).....	2,882.68	104.62
32 33 43 13-0077 EA 24" Backless Woven Bench (Landscapeforms Scarborough).....	2,343.36	104.62
32 33 43 13-0078 EA 48" Backless Woven Bench (Landscapeforms Scarborough).....	2,824.69	104.62
32 33 43 13-0079 EA 72" Backless Woven Bench (Landscapeforms Scarborough).....	3,294.42	104.62
32 33 43 13-0080 EA 72" Backless Woven Bench With Center Arm (Landscapeforms Scarborough).....	3,566.99	104.62
32 33 43 13-0081 EA 96" Backless Woven Bench (Landscapeforms Scarborough).....	4,146.91	104.62
32 33 43 13-0082 EA 96" Backless Woven Bench With Center Arm (Landscapeforms Scarborough).....	4,413.67	104.62
32 33 43 13-0083 EA 96" Backless Woven Bench With Two Intermediate Arms (Landscapeforms Scarborough).....	4,674.63	104.62
32 33 43 13-0084 EA 32" Backless Strap Or Perforated Bench (Landscapeforms Town Square).....	1,139.96	91.55
32 33 43 13-0085 EA 49" Backless Strap Or Perforated Bench (Landscapeforms Town Square).....	1,366.13	91.55
32 33 43 13-0086 EA 49" Backless Strap Or Perforated Bench With Divider (Landscapeforms Town Square).....	1,487.91	91.55
32 33 43 13-0087 EA 70" Backless Strap Or Perforated Bench (Landscapeforms Town Square).....	1,740.24	104.62
32 33 43 13-0088 EA 70" Backless Strap Or Perforated Bench With Two Dividers (Landscapeforms Town Square).....	1,966.41	104.62
32 33 43 13-0089 Benches (Columbia Cascade, TimberForm) (32 33 43 13)		
32 33 43 13-0090 Wood Benches (Columbia Cascade, TimberForm) (32 33 43 13-0089)		
Note: Includes powder coated steel frames.		
32 33 43 13-0091 EA 70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-6-E).....	924.72	52.32
32 33 43 13-0092 EA 94" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-8-E).....	1,060.20	52.32
32 33 43 13-0093 EA 118" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-10-E).....	1,358.22	52.32
32 33 43 13-0094 EA 70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-6-P).....	965.38	52.32
32 33 43 13-0095 EA 94" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-8-P).....	1,100.84	52.32
32 33 43 13-0096 EA 118" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-10-P).....	1,412.41	52.32
32 33 43 13-0097 EA 70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-6-E).....	1,412.41	52.32
32 33 43 13-0098 EA 94" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-8-E).....	1,642.70	52.32
32 33 43 13-0099 EA 118" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-10-E).....	2,116.83	52.32
32 33 43 13-0100 EA 70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-6-P).....	1,480.14	52.32
32 33 43 13-0101 EA 94" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-8-P).....	1,710.43	52.32
32 33 43 13-0102 EA 118" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-10-P).....	2,211.65	52.32
32 33 43 13-0103 EA 70" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-6-E).....	2,726.42	52.32
32 33 43 13-0104 EA 94" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-8-E).....	3,200.54	52.32
32 33 43 13-0105 EA 118" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-10-E).....	4,189.43	52.32
32 33 43 13-0106 EA 70" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-6-P).....	2,794.15	52.32
32 33 43 13-0107 EA 94" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-8-P).....	3,268.27	52.32
32 33 43 13-0108 EA 118" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-10-P).....	4,284.26	52.32
32 33 43 13-0109 EA 70" Length, Embedment Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-6-E).....	1,073.75	52.32
32 33 43 13-0110 EA 94" Length, Embedment Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-8-E).....	1,209.21	52.32
32 33 43 13-0111 EA 70" Length, Pedestal Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-6-P).....	1,114.39	52.32
32 33 43 13-0112 EA 94" Length, Pedestal Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-8-P).....	1,249.85	52.32
32 33 43 13-0113 EA 46" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-4-E).....	1,791.71	52.32



Exterior Improvements			32
Site Improvements			32 30
Site Furnishings			32 33

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0114	EA	70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-6-E)		2,116.83	52.32
32 33 43 13-0115	EA	46" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-4-P)	.....	1,900.08	52.32
32 33 43 13-0116	EA	70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-6-P)	.....	2,225.20	52.32
32 33 43 13-0117	EA	70" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-6)	.....	1,129.72	78.47
32 33 43 13-0118	EA	94" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-8)	.....	1,183.90	78.47
32 33 43 13-0119	EA	118" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-10)	.....	1,603.84	78.47
32 33 43 13-0120	EA	46" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-4-E)	.....	870.55	52.32
32 33 43 13-0121	EA	70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-6-E)	.....	1,006.02	52.32
32 33 43 13-0122	EA	94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-8-E)	.....	1,141.48	52.32
32 33 43 13-0123	EA	118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-10-E)	.....	1,466.60	52.32
32 33 43 13-0124	EA	142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-12-E)	.....	1,602.06	52.32
32 33 43 13-0125	EA	46" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-4-P)	.....	884.10	52.32
32 33 43 13-0126	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-6-P)	.....	1,019.56	52.32
32 33 43 13-0127	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-8-P)	.....	1,155.03	52.32
32 33 43 13-0128	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-10-P)	.....	1,507.23	52.32
32 33 43 13-0129	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-12-P)	.....	1,642.70	52.32
32 33 43 13-0130	EA	70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-6-E)	.....	1,493.69	52.32
32 33 43 13-0131	EA	94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-8-E)	.....	1,723.98	52.32
32 33 43 13-0132	EA	118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-10-E)	.....	2,225.20	52.32
32 33 43 13-0133	EA	142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-12-E)	.....	2,455.49	52.32
32 33 43 13-0134	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-6-P)	.....	1,520.78	52.32
32 33 43 13-0135	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-8-P)	.....	1,751.07	52.32
32 33 43 13-0136	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-10-P)	.....	2,265.84	52.32
32 33 43 13-0137	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-12-P)	.....	2,496.13	52.32
32 33 43 13-0138	EA	70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-6-E)	.....	1,493.69	52.32
32 33 43 13-0139	EA	82" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-7-E)	.....	2,103.28	52.32
32 33 43 13-0140	EA	94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-8-E)	.....	1,872.99	52.32
32 33 43 13-0141	EA	118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-10-E)	.....	2,469.03	52.32
32 33 43 13-0142	EA	142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-12-E)	.....	2,699.32	52.32
32 33 43 13-0143	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-6-P)	.....	1,710.43	52.32
32 33 43 13-0144	EA	82" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-7-P)	.....	2,143.92	52.32
32 33 43 13-0145	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-8-P)	.....	1,900.08	52.32
32 33 43 13-0146	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-10-P)	.....	2,509.67	52.32
32 33 43 13-0147	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-12-P)	.....	2,739.96	52.32
32 33 43 13-0148	EA	70" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-6)	.....	1,576.75	78.47
32 33 43 13-0149	EA	94" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-8)	.....	1,820.59	78.47
32 33 43 13-0150	EA	118" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-10)	.....	2,335.35	78.47
32 33 43 13-0151	EA	70" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-6)	.....	1,725.76	78.47
32 33 43 13-0152	EA	94" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-8)	.....	1,969.60	78.47
32 33 43 13-0153	EA	118" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-10)	.....	2,565.64	78.47
32 33 43 13-0154 Recycled Plastic Benches (Columbia Cascade, TimberForm) (32 33 43 13-0089)					
Note: Includes powder coated steel frames.					
32 33 43 13-0155	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-6-E)	.....	1,263.40	52.32
32 33 43 13-0156	EA	94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-8-E)	.....	1,723.98	52.32
32 33 43 13-0157	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-6-P)	.....	1,304.04	52.32
32 33 43 13-0158	EA	94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-8-P)	.....	1,764.62	52.32
32 33 43 13-0159	EA	46" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-4-E)	.....	1,981.36	52.32
32 33 43 13-0160	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-6-E)	.....	2,320.02	52.32
32 33 43 13-0161	EA	46" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-4-P)	.....	2,089.73	52.32
32 33 43 13-0162	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-6-P)	.....	2,428.39	52.32
32 33 43 13-0163	EA	70" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-6)	.....	1,265.18	78.47
32 33 43 13-0164	EA	94" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-8)	.....	1,522.57	78.47
32 33 43 13-0165	EA	118" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-10)	.....	1,793.49	78.47
32 33 43 13-0166	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-6-E)	.....	1,033.09	52.32
32 33 43 13-0167	EA	94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-8-E)	.....	1,385.32	52.32
32 33 43 13-0168	EA	118" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-10-E)	.....	1,656.25	52.32
32 33 43 13-0169	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-6-P)	.....	1,073.75	52.32
32 33 43 13-0170	EA	94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-8-P)	.....	1,425.96	52.32
32 33 43 13-0171	EA	118" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-10-P)	.....	1,710.43	52.32
32 33 43 13-0172	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-6-E)	.....	1,642.70	52.32
32 33 43 13-0173	EA	94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-8-E)	.....	2,211.65	52.32
32 33 43 13-0174	EA	118" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-10-E)	.....	2,685.78	52.32
32 33 43 13-0175	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-6-P)	.....	1,710.43	52.32
32 33 43 13-0176	EA	94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-8-P)	.....	2,306.48	52.32
32 33 43 13-0177	EA	118" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-10-P)	.....	2,780.60	52.32

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0178	EA	70" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-6-E)	3,200.54	52.32	
32 33 43 13-0179	EA	94" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-8-E)	4,406.18	52.32	
32 33 43 13-0180	EA	118" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-10-E)	4,880.30	52.32	
32 33 43 13-0181	EA	70" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-6-P)	3,268.27	52.32	
32 33 43 13-0182	EA	94" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-8-P)	4,501.00	52.32	
32 33 43 13-0183	EA	118" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-10-P)	4,975.13	52.32	
32 33 43 13-0184	EA	70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-6-E)	2,008.45	52.32	
32 33 43 13-0185	EA	82" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-7-E)	2,794.15	52.32	
32 33 43 13-0186	EA	94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-8-E)	2,672.23	52.32	
32 33 43 13-0187	EA	118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-10-E)	3,065.08	52.32	
32 33 43 13-0188	EA	142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-12-E)	4,121.70	52.32	
32 33 43 13-0189	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-6-P)	2,035.55	52.32	
32 33 43 13-0190	EA	82" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-7-P)	2,834.79	52.32	
32 33 43 13-0191	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-8-P)	2,712.87	52.32	
32 33 43 13-0192	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-10-P)	3,105.72	52.32	
32 33 43 13-0193	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-12-P)	4,189.43	52.32	
32 33 43 13-0194	EA	70" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154-6)	1,915.41	78.47	
32 33 43 13-0195	EA	94" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154-8)	2,579.19	78.47	
32 33 43 13-0196	EA	118" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154-10)	3,188.78	78.47	
32 33 43 13-0197	EA	70" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-6)	2,145.70	78.47	
32 33 43 13-0198	EA	94" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-8)	2,863.66	78.47	
32 33 43 13-0199	EA	118" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-10)	3,148.14	78.47	
32 33 43 13-0200	EA	46" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-4-E)	924.74	52.32	
32 33 43 13-0201	EA	70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-6-E)	1,209.21	52.32	
32 33 43 13-0202	EA	94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-8-E)	1,629.15	52.32	
32 33 43 13-0203	EA	118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-10-E)	1,913.63	52.32	
32 33 43 13-0204	EA	142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-12-E)	2,225.20	52.32	
32 33 43 13-0205	EA	46" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-4-P)	951.83	52.32	
32 33 43 13-0206	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-6-P)	1,236.31	52.32	
32 33 43 13-0207	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-8-P)	1,669.79	52.32	
32 33 43 13-0208	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-10-P)	1,954.27	52.32	
32 33 43 13-0209	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-12-P)	2,279.38	52.32	
32 33 43 13-0210	EA	70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-6-E)	1,791.71	52.32	
32 33 43 13-0211	EA	94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-8-E)	2,455.49	52.32	
32 33 43 13-0212	EA	118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-10-E)	3,024.44	52.32	
32 33 43 13-0213	EA	142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-12-E)	3,403.74	52.32	
32 33 43 13-0214	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-6-P)	1,818.80	52.32	
32 33 43 13-0215	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-8-P)	2,496.13	52.32	
32 33 43 13-0216	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-10-P)	3,065.08	52.32	
32 33 43 13-0217	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-12-P)	3,457.92	52.32	
32 33 43 13-0218		Benches (Wabash Valley) (32 33 43 13)			
32 33 43 13-0219		Prestige/Profile Benches (32 33 43 13-0218)			
32 33 43 13-0220	EA	6' Bench With Arms, Inground, Diamond Site Furniture (Wabash Valley PP411D)	1,293.99	48.86	
32 33 43 13-0221	EA	6' Bench With Arms, Inground, Perforated Site Furniture (Wabash Valley PP411P)	1,431.74	48.86	
32 33 43 13-0222		Straight Benches (32 33 43 13-0218)			
32 33 43 13-0223	EA	6' Signature Standard Inground Bench With Back (Wabash Valley SG303P)	1,050.34	73.24	
32 33 43 13-0224	EA	6' Signature Standard Surface Mount Bench With Back (Wabash Valley SG306P)	1,066.45	73.24	
32 33 43 13-0225	EA	8' Signature Standard Inground Bench With Back (Wabash Valley SG315P)	1,144.32	73.24	



Exterior Improvements		32	32
Site Improvements		32 30	
Site Furnishings		32 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0226 EA 8' Signature Standard Inground Bench Without Back (Wabash Valley SG316P).....	760.36	73.24
32 33 43 13-0227 EA 8' Signature Standard Surface Mount Bench With Back (Wabash Valley SG318P).....	1,144.32	73.24
32 33 43 13-0228 EA 8' Signature Standard Surface Mount Bench Without Back (Wabash Valley SG319P).....	760.36	73.24
32 33 43 13-0229 EA Shelter With 6' Bench (Wabash Valley SH305P).....	7,398.96	94.16
32 33 43 13-0230 EA 2-Seat With Back, Portable (Wabash Valley CL310).....	1,537.81	48.86
32 33 43 13-0231 EA 2-Seat With Back, Surface Mount (Wabash Valley CL311D).....	1,480.36	73.34
32 33 43 13-0232 EA 2-Seat With Back, Inground (Wabash Valley CL312D).....	1,639.31	97.82
32 33 43 13-0233 EA 2-Seat Without Back, Portable (Wabash Valley CL315D).....	1,324.56	48.86
32 33 43 13-0234 EA 2-Seat Without Back, Surface Mount (Wabash Valley CL316D).....	1,267.11	73.34
32 33 43 13-0235 EA 2-Seat Without Back, Inground (Wabash Valley CL317D).....	1,394.69	97.82
32 33 43 13-0236 EA 3-Seat With Back, Portable (Wabash Valley CL320D).....	2,224.62	48.86
32 33 43 13-0237 EA 3-Seat With Back, Surface Mount (Wabash Valley CL321D).....	2,189.12	73.34
32 33 43 13-0238 EA 3-Seat With Back, Inground (Wabash Valley CL322D).....	2,307.30	97.82
32 33 43 13-0239 EA 3-Seat Without Back, Portable (Wabash Valley CL325D).....	1,842.02	48.86
32 33 43 13-0240 EA 3-Seat Without Back, Surface Mount (Wabash Valley CL326D).....	1,806.51	73.34
32 33 43 13-0241 EA 3-Seat Without Back, Inground (Wabash Valley CL327D).....	1,927.83	97.82
32 33 43 13-0242 Concave Benches (32 33 43 13-0218)		
32 33 43 13-0243 EA Benches, 15 Deg Concave With Back, Portable, CL405D.....	2,111.72	48.86
32 33 43 13-0244 EA Benches, 15 Deg Concave With Back, Surface Mount, CL406D.....	2,063.67	73.34
32 33 43 13-0245 EA Benches, 15 Deg Concave With Back, Inground, CL407D.....	2,184.99	97.82
32 33 43 13-0246 EA Benches, 15 Deg Concave Without Back, Portable, CL415D.....	2,064.68	48.86
32 33 43 13-0247 EA Benches, 15 Deg Concave Without Back, Surface Mount, CL416D.....	2,016.63	73.34
32 33 43 13-0248 EA Benches, 15 Deg Concave Without Back, Inground, CL417D.....	2,137.95	97.82
32 33 43 13-0249 Swings (32 33 43 13-0218)		
32 33 43 13-0250 EA 4' Swing With Chain (Perforated Or Rib) SP300P.....	1,618.95	41.85
32 33 43 13-0251 EA 6' Swing With Chain (Perforated Or Rib) SP305P.....	1,895.51	41.85
32 33 43 13-0252 EA Round Inground Post Package SP310N.....	794.58	97.82
32 33 43 13-0253 EA 4' Square Inground Post Package SP315N.....	1,744.97	125.55
32 33 43 13-0254 EA 6' Square Inground Post Package SP320N.....	1,889.96	125.55
32 33 43 13-0255 Accessories (32 33 43 13-0218)		
32 33 43 13-0256 EA Mounting Plate Covers (Set Of 2), MC102N.....	69.01	7.32
32 33 43 13-0257 EA Mounting Plate Covers (Set Of 3), MC103N.....	99.32	9.73
32 33 43 13-0258 EA Mounting Plate Covers (Set Of 4), MC104.....	116.02	9.73
32 33 43 13-0259 Camden Series Benches (32 33 43 13-0218)		
32 33 43 13-0260 EA 6' Bench, With Back, Square Perforation, Portable/Surface Mount, CA1112C.....	1,569.00	73.24
32 33 43 13-0261 EA 6' Bench, With Back, Square Perforation, Inground, CA1111I.....	1,608.39	97.82
32 33 43 13-0262 EA 6' Bench, With Back, With Arms, Faux-Wood, Portable/Surface Mount, CA1112C.....	1,745.78	73.24
32 33 43 13-0263 EA 6' Bench, With Back, With Arms, Faux-Wood, Inground, CA1112I.....	1,789.48	97.82
32 33 43 13-0264 EA 6' Bench, With Back, With Arms, Rod, Portable/Surface Mount, CA1114C.....	1,957.05	73.24
32 33 43 13-0265 EA 6' Bench, With Back, With Arms, Rod, Inground, CA1114I.....	2,000.75	97.82
32 33 43 13-0266 EA 6' Bench, With Back, With Arms, Round Perforation, Portable/Surface Mount, CA1116C.....	1,545.29	73.24
32 33 43 13-0267 EA 6' Bench, With Back, With Arms, Round Perforation, Inground, CA1116I.....	1,586.83	97.82
32 33 43 13-0268 EA 6' Bench, With Back, With Arms, Horizontal Slat, Portable/Surface Mount, CA1119C.....	1,760.87	73.24
32 33 43 13-0269 EA 6' Bench, With Back, With Arms, Horizontal Slat, Inground, CA1116I.....	1,802.41	97.82
32 33 43 13-0270 Miscellaneous (32 33 43 13-0218)		
32 33 43 13-0271 EA 4' Bench With Back, Surface Mounted, Ribbed Or Perforated, Estate (Wabash ES500).....	1,838.61	97.82
32 33 43 13-0272 EA 4' Bench Without Back, Surface Mounted, Ribbed Or Perforated, Estate (Wabash ES505).....	1,529.86	73.24
32 33 43 13-0273 EA 6' Bench With Back, Surface Mounted, Ribbed Or Perforated, Estate (Wabash ES520).....	2,149.50	97.82
32 33 43 13-0274 EA 6' Bench Without Back, Surface Mounted, Ribbed Or Perforated, Estate (Wabash ES525).....	1,838.48	73.24
32 33 43 13-0275 EA 8' Bench With Back, Surface Mounted, Ribbed Or Perforated, Estate (Wabash ES527).....	3,009.57	97.82
32 33 43 13-0276 EA 8' Bench Without Back, Surface Mounted, Ribbed Or Perforated, Estate (Wabash ES528).....	2,539.69	73.24
32 33 43 13-0277 Benches, Concrete (Quick Crete) (32 33 43 13)		
32 33 43 13-0278 EA 84" Long, Concrete Park Bench With Back (Quick Crete Q1PS84B).....	2,575.13	130.78
32 33 43 13-0279 Other Benches (32 33 43 13)		
32 33 43 13-0280 EA 6' Timberform #2118-6 Restoration Bench With Cast Iron Glossy Black Frames, Armrests, Purple Heart Wood Slats, S.J.S.U. Logo, Surface Mount.....	4,144.09	96.78
32 33 43 53 Site Tables (32 33 43)		
32 33 43 53-0001 Tables (32 33 43 53)		
32 33 43 53-0002 Tables (Wabash) (32 33 43 53-0001)		
32 33 43 53-0003 EA Spyder ADA Round Table (Wabash SY203P).....	2,719.03	94.16
32 33 43 53-0004 EA Shelter With 6' Table (Wabash SH105P).....	8,225.94	94.16

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 53-0005	EA	46" Round Table With Attached Chairs, Bench Seats, Solid Top With Square Perforation Seats, Portable/Surface Mount (Wabash CA2Q50C).....	2,501.19	94.16	
32 33 43 53-0006	EA	46" Round Table With Attached Chairs, Bench Seats, Solid Top With Square Perforation Seats, Inground (Wabash CA2Q50I)	2,682.56	104.62	
32 33 43 53-0007 Tables (Landscapeforms) (32 33 43 53-0001)					
32 33 43 53-0008	EA	Plexus Companion Table For Backed Seat, Straight Runs.....	777.57	97.82	
32 33 43 53-0009	EA	Companion Table For Narrow-Backed Seat, For 60 Degree Radius (Landscapeforms Plexus).....	963.15	97.82	
32 33 43 53-0010	EA	Companion Table For Narrow-Backed Seat, For 120 Degree Radius (Landscapeforms Plexus).....	963.15	97.82	
32 33 43 53-0011	EA	Companion Table For Wide-Backed Seat, For 120 Degree Radius (Landscapeforms Plexus).....	963.15	97.82	
32 33 43 53-0012	EA	6-Person Picnic Table (Landscapeforms Manistee)	2,833.27	97.82	
32 33 43 53-0013	EA	4-Person Picnic Table (Landscapeforms Manistee)	2,521.51	97.82	
32 33 43 53-0014	EA	2-Person Picnic Table (Landscapeforms Manistee)	2,235.72	97.82	
32 33 43 53-0015	EA	Umbrella Stand For Picnic Table (Landscapeforms)	231.97		
32 33 43 53-0016	EA	32" x 72" Picnic Table (Landscapeforms Petoskey).....	2,247.27	94.16	
32 33 43 53-0017	EA	62" Backless Metal Rod Bench (Landscapeforms Petoskey)	1,195.86	73.24	
32 33 43 53-0018	EA	29" Backless Metal Rod Bench (Landscapeforms Petoskey)	1,004.26	73.24	
32 33 43 53-0019	EA	58" x 54" x 30" Wood Or PolySite Picnic Table With Benches (Landscapeforms Gretchen).....	2,624.68	94.16	
32 33 43 53-0020	EA	3 Seat Table, Backless, Grid Seats And Fiberglass Top (Landscapeforms Carousel)	2,521.51	97.82	
32 33 43 53-0021	EA	4 Seat Table, Backless, Grid Seats And Fiberglass Top (Landscapeforms Carousel)	2,521.51	97.82	
32 33 43 53-0022	EA	5 Seat Table, Backless, Grid Seats And Fiberglass Top (Landscapeforms Carousel)	3,261.95	97.82	
32 33 43 53-0023	EA	6 Seat Table, Backless, Grid Seats And Fiberglass Top (Landscapeforms Carousel)	3,261.95	97.82	
32 33 43 53-0024	EA	3 Seat Table, Backless, Grid Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	2,690.38	97.82	
32 33 43 53-0025	EA	4 Seat Table, Backless, Grid Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	2,690.38	97.82	
32 33 43 53-0026	EA	5 Seat Table, Backless, Grid Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	3,430.82	97.82	
32 33 43 53-0027	EA	6 Seat Table, Backless, Grid Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	3,430.82	97.82	
32 33 43 53-0028	EA	3 Seat Table, Backless, Perforated Seats And Fiberglass Top (Landscapeforms Carousel)	2,625.43	97.82	
32 33 43 53-0029	EA	4 Seat Table, Backless, Perforated Seats And Fiberglass Top (Landscapeforms Carousel)	2,625.43	97.82	
32 33 43 53-0030	EA	5 Seat Table, Backless, Perforated Seats And Fiberglass Top (Landscapeforms Carousel)	3,417.83	97.82	
32 33 43 53-0031	EA	6 Seat Table, Backless, Perforated Seats And Fiberglass Top (Landscapeforms Carousel)	3,417.83	97.82	
32 33 43 53-0032	EA	3 Seat Table, Backless, Perforated Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	2,794.30	97.82	
32 33 43 53-0033	EA	4 Seat Table, Backless, Perforated Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	2,794.30	97.82	
32 33 43 53-0034	EA	5 Seat Table, Backless, Perforated Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	3,586.70	97.82	
32 33 43 53-0035	EA	6 Seat Table, Backless, Perforated Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	3,586.70	97.82	
32 33 43 53-0036	EA	3 Seat Table, Backed, Grid Seats And Fiberglass Top (Landscapeforms Carousel).....	2,677.39	97.82	
32 33 43 53-0037	EA	4 Seat Table, Backed, Grid Seats And Fiberglass Top (Landscapeforms Carousel).....	2,677.39	97.82	
32 33 43 53-0038	EA	5 Seat Table, Backed, Grid Seats And Fiberglass Top (Landscapeforms Carousel).....	3,430.82	97.82	
32 33 43 53-0039	EA	6 Seat Table, Backed, Grid Seats And Fiberglass Top (Landscapeforms Carousel).....	3,430.82	97.82	
32 33 43 53-0040	EA	3 Seat Table, Backed, Grid Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	2,846.26	97.82	
32 33 43 53-0041	EA	4 Seat Table, Backed, Grid Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	2,846.26	97.82	
32 33 43 53-0042	EA	5 Seat Table, Backed, Grid Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	3,599.69	97.82	
32 33 43 53-0043	EA	6 Seat Table, Backed, Grid Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	3,599.69	97.82	
32 33 43 53-0044	EA	3 Seat Table, Backed, Perforated Seats And Fiberglass Top (Landscapeforms Carousel).....	2,807.29	97.82	
32 33 43 53-0045	EA	4 Seat Table, Backed, Perforated Seats And Fiberglass Top (Landscapeforms Carousel).....	2,807.29	97.82	
32 33 43 53-0046	EA	5 Seat Table, Backed, Perforated Seats And Fiberglass Top (Landscapeforms Carousel).....	3,625.67	97.82	
32 33 43 53-0047	EA	6 Seat Table, Backed, Perforated Seats And Fiberglass Top (Landscapeforms Carousel).....	3,625.67	97.82	
32 33 43 53-0048	EA	3 Seat Table, Backed, Perforated Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	2,976.16	97.82	
32 33 43 53-0049	EA	4 Seat Table, Backed, Perforated Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	2,976.16	97.82	
32 33 43 53-0050	EA	5 Seat Table, Backed, Perforated Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	3,794.55	97.82	
32 33 43 53-0051	EA	6 Seat Table, Backed, Perforated Seats And Fiberglass Polished Granite Top (Landscapeforms Carousel).....	3,794.55	97.82	
32 33 43 53-0052	EA	3 Seat Table, Backless, Grid Seats And Catena Top (Landscapeforms Carousel)	2,343.36	97.82	
32 33 43 53-0053	EA	4 Seat Table, Backless, Grid Seats And Catena Top (Landscapeforms Carousel)	2,343.36	97.82	
32 33 43 53-0054	EA	5 Seat Table, Backless, Grid Seats And Catena Top (Landscapeforms Carousel)	3,074.05	97.82	
32 33 43 53-0055	EA	6 Seat Table, Backless, Grid Seats And Catena Top (Landscapeforms Carousel)	3,074.05	97.82	
32 33 43 53-0056	EA	3 Seat Table, Backless, Grid Seats And Steelhead Top (Landscapeforms Carousel).....	2,436.14	97.82	
32 33 43 53-0057	EA	4 Seat Table, Backless, Grid Seats And Steelhead Top (Landscapeforms Carousel).....	2,436.14	97.82	
32 33 43 53-0058	EA	5 Seat Table, Backless, Grid Seats And Steelhead Top (Landscapeforms Carousel).....	3,155.24	97.82	
32 33 43 53-0059	EA	6 Seat Table, Backless, Grid Seats And Steelhead Top (Landscapeforms Carousel).....	3,155.24	97.82	
32 33 43 53-0060	EA	3 Seat Table, Backless, Perforated Seats And Catena Top (Landscapeforms Carousel)	2,447.74	97.82	
32 33 43 53-0061	EA	4 Seat Table, Backless, Perforated Seats And Catena Top (Landscapeforms Carousel)	2,447.74	97.82	
32 33 43 53-0062	EA	5 Seat Table, Backless, Perforated Seats And Catena Top (Landscapeforms Carousel)	3,213.24	97.82	
32 33 43 53-0063	EA	6 Seat Table, Backless, Perforated Seats And Catena Top (Landscapeforms Carousel)	3,213.24	97.82	
32 33 43 53-0064	EA	3 Seat Table, Backless, Perforated Seats And Steelhead Top (Landscapeforms Carousel).....	2,528.93	97.82	
32 33 43 53-0065	EA	4 Seat Table, Backless, Perforated Seats And Steelhead Top (Landscapeforms Carousel).....	2,528.93	97.82	
32 33 43 53-0066	EA	5 Seat Table, Backless, Perforated Seats And Steelhead Top (Landscapeforms Carousel).....	3,294.42	97.82	
32 33 43 53-0067	EA	6 Seat Table, Backless, Perforated Seats And Steelhead Top (Landscapeforms Carousel).....	3,294.42	97.82	
32 33 43 53-0068	EA	3 Seat Table, Backed, Grid Seats And Catena Top (Landscapeforms Carousel).....	2,494.13	97.82	
32 33 43 53-0069	EA	4 Seat Table, Backed, Grid Seats And Catena Top (Landscapeforms Carousel).....	2,494.13	97.82	
32 33 43 53-0070	EA	5 Seat Table, Backed, Grid Seats And Catena Top (Landscapeforms Carousel).....	3,236.43	97.82	
32 33 43 53-0071	EA	6 Seat Table, Backed, Grid Seats And Catena Top (Landscapeforms Carousel).....	3,236.43	97.82	
32 33 43 53-0072	EA	3 Seat Table, Backed, Grid Seats And Steelhead Top (Landscapeforms Carousel)	2,581.12	97.82	
32 33 43 53-0073	EA	4 Seat Table, Backed, Grid Seats And Steelhead Top (Landscapeforms Carousel)	2,581.12	97.82	
32 33 43 53-0074	EA	5 Seat Table, Backed, Grid Seats And Steelhead Top (Landscapeforms Carousel)	3,317.62	97.82	
32 33 43 53-0075	EA	6 Seat Table, Backed, Grid Seats And Steelhead Top (Landscapeforms Carousel)	3,317.62	97.82	
32 33 43 53-0076	EA	3 Seat Table, Backed, Perforated Seats And Catena Top (Landscapeforms Carousel).....	2,639.11	97.82	
32 33 43 53-0077	EA	4 Seat Table, Backed, Perforated Seats And Catena Top (Landscapeforms Carousel).....	2,639.11	97.82	
32 33 43 53-0078	EA	5 Seat Table, Backed, Perforated Seats And Catena Top (Landscapeforms Carousel).....	3,462.60	97.82	
32 33 43 53-0079	EA	6 Seat Table, Backed, Perforated Seats And Catena Top (Landscapeforms Carousel).....	3,462.60	97.82	
32 33 43 53-0080	EA	3 Seat Table, Backed, Perforated Seats And Steelhead Top (Landscapeforms Carousel)	2,720.30	97.82	
32 33 43 53-0081	EA	4 Seat Table, Backed, Perforated Seats And Steelhead Top (Landscapeforms Carousel)	2,720.30	97.82	



Exterior Improvements			32	32
Site Improvements			32 30	
Site Furnishings			32 33	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 53-0082	EA	5 Seat Table, Backed, Perforated Seats And Steelhead Top (Landscapeforms Carousel).....	3,543.79	97.82
32 33 43 53-0083	EA	6 Seat Table, Backed, Perforated Seats And Steelhead Top (Landscapeforms Carousel).....	3,543.79	97.82
32 33 43 53-0084 Tables (Columbia Cascade Co. - TimberForm) (32 33 43 53-0001)				
32 33 43 53-0085	EA	Table With Four Chairs (Columbia Cascade Co. 2052-E).....	5,027.19	122.20
32 33 43 53-0086	EA	Table With Four Chairs (Columbia Cascade Co. 2052-P).....	6,134.05	122.20
32 33 43 53-0087	EA	Accessible Table With Three Chairs (Columbia Cascade Co. 2053-E).....	4,243.17	122.20
32 33 43 53-0088	EA	Accessible Table With Three Chairs (Columbia Cascade Co. 2053-P).....	5,288.53	122.20
32 33 43 53-0089	EA	Table With Four Seats (Columbia Cascade Co. 2054-E).....	2,828.85	122.20
32 33 43 53-0090	EA	Table With Four Seats (Columbia Cascade Co. 2054-P).....	3,074.82	122.20
32 33 43 53-0091	EA	Accessible Table With Three Seats (Columbia Cascade Co. 2055-E).....	2,413.78	122.20
32 33 43 53-0092	EA	Accessible Table With Three Seats (Columbia Cascade Co. 2055-P).....	2,629.00	122.20
32 33 43 53-0093	EA	Integral Table With Four Seats (Columbia Cascade Co. 2056-E).....	3,151.68	122.20
32 33 43 53-0094	EA	Integral Table With Four Seats (Columbia Cascade Co. 2056-P).....	3,366.91	122.20
32 33 43 53-0095	EA	Integral Table With Four Seats (Columbia Cascade Co. 2056-R).....	5,088.68	122.20
32 33 43 53-0096	EA	Accessible Integral Table With Four Seats (Columbia Cascade Co. 2057-E).....	2,798.10	122.20
32 33 43 53-0097	EA	Accessible Integral Table With Four Seats (Columbia Cascade Co. 2057-P).....	3,013.33	122.20
32 33 43 53-0098	EA	Accessible Integral Table With Four Seats (Columbia Cascade Co. 2057-R).....	4,735.10	122.20
32 33 43 53-0099	EA	Standard Picnic Table And Seats (Columbia Cascade Co. 2062).....	3,474.52	122.20
32 33 43 53-0100	EA	Standard Picnic Table And Seats (Columbia Cascade Co. 2062-P).....	3,720.48	122.20
32 33 43 53-0101	EA	Accessible Picnic Table And Seats (Columbia Cascade Co. 2063-E).....	4,058.69	122.20
32 33 43 53-0102	EA	Accessible Picnic Table And Seats (Columbia Cascade Co. 2063-P).....	4,304.66	122.20
32 33 43 53-0103	EA	Accessible Picnic Table And Benches (Columbia Cascade Co. 2072-E).....	5,088.68	122.20
32 33 43 53-0104	EA	Accessible Picnic Table And Benches (Columbia Cascade Co. 2072-P).....	5,334.65	122.20
32 33 43 53-0105	EA	Standard Picnic Table And Benches (Columbia Cascade Co. 2073-E).....	5,088.68	122.20
32 33 43 53-0106	EA	Standard Picnic Table And Benches (Columbia Cascade Co. 2073-P).....	5,334.65	122.20
32 33 43 53-0107	EA	Standard Picnic Table And Seats (Columbia Cascade Co. 2074-6).....	1,196.10	48.86
32 33 43 53-0108	EA	Accessible Picnic Table And Seats (Columbia Cascade Co. 2075-6).....	1,595.80	48.86
32 33 43 53-0109	EA	Gameboard (Columbia Cascade Co. 2095).....	344.41	24.48
32 33 43 53-0110	EA	Standard Picnic Table With Seats (Columbia Cascade Co. 2162-6-E).....	3,474.52	122.20
32 33 43 53-0111	EA	Standard Picnic Table With Seats (Columbia Cascade Co. 2162-8-E).....	3,966.45	122.20
32 33 43 53-0112	EA	Standard Picnic Table With Seats (Columbia Cascade Co. 2162-6-P).....	3,720.48	122.20
32 33 43 53-0113	EA	Standard Picnic Table With Seats (Columbia Cascade Co. 2162-8-P).....	4,212.42	122.20
32 33 43 53-0114	EA	Accessible Picnic Table With Seats (Columbia Cascade Co. 2163-6-E).....	3,858.84	122.20
32 33 43 53-0115	EA	Accessible Picnic Table With Seats (Columbia Cascade Co. 2163-8-E).....	4,350.78	122.20
32 33 43 53-0116	EA	Accessible Picnic Table With Seats (Columbia Cascade Co. 2163-6-P).....	4,104.81	122.20
32 33 43 53-0117	EA	Accessible Picnic Table With Seats (Columbia Cascade Co. 2163-8-P).....	4,596.75	122.20
32 33 43 53-0118	EA	Standard Picnic Table With Seats (Columbia Cascade Co. 2164-6).....	3,256.08	48.86
32 33 43 53-0119	EA	Standard Picnic Table With Seats (Columbia Cascade Co. 2164-8).....	3,655.78	48.86
32 33 43 53-0120	EA	Accessible Picnic Table With Seats (Columbia Cascade Co. 2165-6).....	3,640.41	48.86
32 33 43 53-0121	EA	Accessible Picnic Table With Seats (Columbia Cascade Co. 2165-8).....	4,040.11	48.86
32 33 43 53-0122	EA	Standard Picnic Table With Seats (Columbia Cascade Co. 2638-6-E).....	8,194.03	122.20
32 33 43 53-0123	EA	Standard Picnic Table With Seats (Columbia Cascade Co. 2638-6-P).....	9,054.92	122.20
32 33 43 53-0124	EA	Accessible Picnic Table With Seats (Columbia Cascade Co. 2639-6-E).....	8,194.03	122.20
32 33 43 53-0125	EA	Accessible Picnic Table With Seats (Columbia Cascade Co. 2639-6-P).....	9,054.92	122.20
32 33 43 53-0126	EA	Round Table With Center Support (Columbia Cascade Co. 2902-0030-E).....	2,029.46	122.20
32 33 43 53-0127	EA	Round Table With Center Support (Columbia Cascade Co. 2902-0036-E).....	2,229.30	122.20
32 33 43 53-0128	EA	Round Table With Center Support (Columbia Cascade Co. 2902-0042-E).....	2,429.15	122.20
32 33 43 53-0129	EA	Round Table With Center Support (Columbia Cascade Co. 2902-0030-P).....	2,167.81	122.20
32 33 43 53-0130	EA	Round Table With Center Support (Columbia Cascade Co. 2902-0036-P).....	2,367.66	122.20
32 33 43 53-0131	EA	Round Table With Center Support (Columbia Cascade Co. 2902-0042-P).....	2,567.51	122.20
32 33 43 53-0132	EA	Square Table With Center Support (Columbia Cascade Co. 2902-3030-E).....	1,983.34	122.20
32 33 43 53-0133	EA	Square Table With Center Support (Columbia Cascade Co. 2902-3636-E).....	2,121.69	122.20
32 33 43 53-0134	EA	Square Table With Center Support (Columbia Cascade Co. 2902-4242-E).....	2,260.05	122.20
32 33 43 53-0135	EA	Square Table With Center Support (Columbia Cascade Co. 2902-3030-P).....	2,121.69	122.20
32 33 43 53-0136	EA	Square Table With Center Support (Columbia Cascade Co. 2902-3636-P).....	2,260.05	122.20
32 33 43 53-0137	EA	Square Table With Center Support (Columbia Cascade Co. 2902-4242-P).....	2,398.41	122.20
32 33 43 53-0138	EA	Round Table With Four Legs (Columbia Cascade Co. 2905-0030-E).....	1,921.84	122.20
32 33 43 53-0139	EA	Round Table With Four Legs (Columbia Cascade Co. 2905-0036-E).....	2,121.69	122.20
32 33 43 53-0140	EA	Round Table With Four Legs (Columbia Cascade Co. 2905-0042-E).....	2,321.54	122.20
32 33 43 53-0141	EA	Round Table With Four Legs (Columbia Cascade Co. 2905-0030-P).....	1,921.84	122.20
32 33 43 53-0142	EA	Round Table With Four Legs (Columbia Cascade Co. 2905-0036-P).....	2,121.69	122.20
32 33 43 53-0143	EA	Round Table With Four Legs (Columbia Cascade Co. 2905-0042-P).....	2,321.54	122.20
32 33 43 53-0144	EA	Round Table With Four Legs (Columbia Cascade Co. 2905-0030-L).....	1,921.84	122.20
32 33 43 53-0145	EA	Round Table With Four Legs (Columbia Cascade Co. 2905-0036-L).....	2,121.69	122.20
32 33 43 53-0146	EA	Round Table With Four Legs (Columbia Cascade Co. 2905-0042-L).....	2,321.54	122.20
32 33 43 53-0147	EA	Square Table With Four Legs (Columbia Cascade Co. 2905-3030-E).....	1,829.61	122.20
32 33 43 53-0148	EA	Square Table With Four Legs (Columbia Cascade Co. 2905-3636-E).....	1,967.96	122.20
32 33 43 53-0149	EA	Square Table With Four Legs (Columbia Cascade Co. 2905-4242-E).....	2,106.32	122.20
32 33 43 53-0150	EA	Square Table With Four Legs (Columbia Cascade Co. 2905-3030-P).....	1,829.61	122.20
32 33 43 53-0151	EA	Square Table With Four Legs (Columbia Cascade Co. 2905-3636-P).....	1,967.96	122.20
32 33 43 53-0152	EA	Square Table With Four Legs (Columbia Cascade Co. 2905-4242-P).....	2,106.32	122.20
32 33 43 53-0153	EA	Square Table With Four Legs (Columbia Cascade Co. 2905-3030-L).....	1,829.61	122.20
32 33 43 53-0154	EA	Square Table With Four Legs (Columbia Cascade Co. 2905-3636-L).....	1,967.96	122.20
32 33 43 53-0155	EA	Square Table With Four Legs (Columbia Cascade Co. 2905-4242-L).....	2,106.32	122.20
32 33 43 53-0156	EA	Round Table With Center Support (Columbia Cascade Co. 2912-0030-E).....	1,752.74	122.20
32 33 43 53-0157	EA	Round Table With Center Support (Columbia Cascade Co. 2912-0036-E).....	1,952.59	122.20
32 33 43 53-0158	EA	Round Table With Center Support (Columbia Cascade Co. 2912-0042-E).....	2,152.44	122.20
32 33 43 53-0159	EA	Round Table With Center Support (Columbia Cascade Co. 2912-0030-P).....	1,891.10	122.20
32 33 43 53-0160	EA	Round Table With Center Support (Columbia Cascade Co. 2912-0036-P).....	2,090.95	122.20



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
32 33 43 53-0161	EA	Round Table With Center Support (Columbia Cascade Co. 2912-0042-P)	2,290.80	122.20	
32 33 43 53-0162	EA	Square Table With Center Support (Columbia Cascade Co. 2912-3030-E)	1,629.76	122.20	
32 33 43 53-0163	EA	Square Table With Center Support (Columbia Cascade Co. 2912-3636-E)	1,752.74	122.20	
32 33 43 53-0164	EA	Square Table With Center Support (Columbia Cascade Co. 2912-4242-E)	1,891.10	122.20	
32 33 43 53-0165	EA	Square Table With Center Support (Columbia Cascade Co. 2912-3030-P)	1,752.74	122.20	
32 33 43 53-0166	EA	Square Table With Center Support (Columbia Cascade Co. 2912-3636-P)	1,891.10	122.20	
32 33 43 53-0167	EA	Square Table With Center Support (Columbia Cascade Co. 2912-4242-P)	2,029.46	122.20	
32 33 43 53-0168	EA	Round Table With Four Legs (Columbia Cascade Co. 2915-0030-E)	1,844.98	122.20	
32 33 43 53-0169	EA	Round Table With Four Legs (Columbia Cascade Co. 2915-0036-E)	2,044.83	122.20	
32 33 43 53-0170	EA	Round Table With Four Legs (Columbia Cascade Co. 2915-0042-E)	2,244.68	122.20	
32 33 43 53-0171	EA	Round Table With Four Legs (Columbia Cascade Co. 2915-0030-P)	1,844.98	122.20	
32 33 43 53-0172	EA	Round Table With Four Legs (Columbia Cascade Co. 2915-0036-P)	2,044.83	122.20	
32 33 43 53-0173	EA	Round Table With Four Legs (Columbia Cascade Co. 2915-0042-P)	2,244.68	122.20	
32 33 43 53-0174	EA	Round Table With Four Legs (Columbia Cascade Co. 2915-0030-L)	1,844.98	122.20	
32 33 43 53-0175	EA	Round Table With Four Legs (Columbia Cascade Co. 2915-0036-L)	2,044.83	122.20	
32 33 43 53-0176	EA	Round Table With Four Legs (Columbia Cascade Co. 2915-0042-L)	2,244.68	122.20	
32 33 43 53-0177	EA	Square Table With Four Legs (Columbia Cascade Co. 2915-3030-E)	1,737.37	122.20	
32 33 43 53-0178	EA	Square Table With Four Legs (Columbia Cascade Co. 2915-3636-E)	1,875.72	122.20	
32 33 43 53-0179	EA	Square Table With Four Legs (Columbia Cascade Co. 2915-4242-E)	2,014.08	122.20	
32 33 43 53-0180	EA	Square Table With Four Legs (Columbia Cascade Co. 2915-3030-P)	1,737.37	122.20	
32 33 43 53-0181	EA	Square Table With Four Legs (Columbia Cascade Co. 2915-3636-P)	1,875.72	122.20	
32 33 43 53-0182	EA	Square Table With Four Legs (Columbia Cascade Co. 2915-4242-P)	2,014.08	122.20	
32 33 43 53-0183	EA	Square Table With Four Legs (Columbia Cascade Co. 2915-3030-L)	1,737.37	122.20	
32 33 43 53-0184	EA	Square Table With Four Legs (Columbia Cascade Co. 2915-3636-L)	1,875.72	122.20	
32 33 43 53-0185	EA	Square Table With Four Legs (Columbia Cascade Co. 2915-4242-L)	2,014.08	122.20	
32 33 43 53-0186	EA	Round Table With Center Support (Columbia Cascade Co. 2922-0030-E)	1,629.76	122.20	
32 33 43 53-0187	EA	Round Table With Center Support (Columbia Cascade Co. 2922-0036-E)	1,691.25	122.20	
32 33 43 53-0188	EA	Round Table With Center Support (Columbia Cascade Co. 2922-0042-E)	1,752.74	122.20	
32 33 43 53-0189	EA	Round Table With Center Support (Columbia Cascade Co. 2922-0030-P)	1,768.11	122.20	
32 33 43 53-0190	EA	Round Table With Center Support (Columbia Cascade Co. 2922-0036-P)	1,829.61	122.20	
32 33 43 53-0191	EA	Round Table With Center Support (Columbia Cascade Co. 2922-0042-P)	1,891.10	122.20	
32 33 43 53-0192	EA	Square Table With Center Support (Columbia Cascade Co. 2922-3030-E)	1,614.38	122.20	
32 33 43 53-0193	EA	Square Table With Center Support (Columbia Cascade Co. 2922-3636-E)	1,660.50	122.20	
32 33 43 53-0194	EA	Square Table With Center Support (Columbia Cascade Co. 2922-4242-E)	1,706.62	122.20	
32 33 43 53-0195	EA	Square Table With Center Support (Columbia Cascade Co. 2922-3030-P)	1,752.74	122.20	
32 33 43 53-0196	EA	Square Table With Center Support (Columbia Cascade Co. 2922-3636-P)	1,798.86	122.20	
32 33 43 53-0197	EA	Square Table With Center Support (Columbia Cascade Co. 2922-4242-P)	1,844.98	122.20	
32 33 43 53-0198	EA	Round Table With Four Legs (Columbia Cascade Co. 2925-0030-E)	1,660.50	122.20	
32 33 43 53-0199	EA	Round Table With Four Legs (Columbia Cascade Co. 2925-0036-E)	1,722.00	122.20	
32 33 43 53-0200	EA	Round Table With Four Legs (Columbia Cascade Co. 2925-0042-E)	1,783.49	122.20	
32 33 43 53-0201	EA	Round Table With Four Legs (Columbia Cascade Co. 2925-0030-P)	1,660.50	122.20	
32 33 43 53-0202	EA	Round Table With Four Legs (Columbia Cascade Co. 2925-0036-P)	1,722.00	122.20	
32 33 43 53-0203	EA	Round Table With Four Legs (Columbia Cascade Co. 2925-0042-P)	1,783.49	122.20	
32 33 43 53-0204	EA	Round Table With Four Legs (Columbia Cascade Co. 2925-0030-L)	1,660.50	122.20	
32 33 43 53-0205	EA	Round Table With Four Legs (Columbia Cascade Co. 2925-0036-L)	1,722.00	122.20	
32 33 43 53-0206	EA	Round Table With Four Legs (Columbia Cascade Co. 2925-0042-L)	1,783.49	122.20	
32 33 43 53-0207	EA	Square Table With Four Legs (Columbia Cascade Co. 2925-3030-E)	1,660.50	122.20	
32 33 43 53-0208	EA	Square Table With Four Legs (Columbia Cascade Co. 2925-3636-E)	1,706.62	122.20	
32 33 43 53-0209	EA	Square Table With Four Legs (Columbia Cascade Co. 2925-4242-E)	1,752.74	122.20	
32 33 43 53-0210	EA	Square Table With Four Legs (Columbia Cascade Co. 2925-3030-P)	1,660.50	122.20	
32 33 43 53-0211	EA	Square Table With Four Legs (Columbia Cascade Co. 2925-3636-P)	1,706.62	122.20	
32 33 43 53-0212	EA	Square Table With Four Legs (Columbia Cascade Co. 2925-4242-P)	1,752.74	122.20	
32 33 43 53-0213	EA	Square Table With Four Legs (Columbia Cascade Co. 2925-3030-L)	1,660.50	122.20	
32 33 43 53-0214	EA	Square Table With Four Legs (Columbia Cascade Co. 2925-3636-L)	1,706.62	122.20	
32 33 43 53-0215	EA	Square Table With Four Legs (Columbia Cascade Co. 2925-4242-L)	1,752.74	122.20	
32 33 43 53-0216	EA	Round Table With Center Support (Columbia Cascade Co. 2932-0030-E)	1,691.25	122.20	
32 33 43 53-0217	EA	Round Table With Center Support (Columbia Cascade Co. 2932-0036-E)	1,752.74	122.20	
32 33 43 53-0218	EA	Round Table With Center Support (Columbia Cascade Co. 2932-0042-E)	1,814.23	122.20	
32 33 43 53-0219	EA	Round Table With Center Support (Columbia Cascade Co. 2932-0030-P)	1,829.61	122.20	
32 33 43 53-0220	EA	Round Table With Center Support (Columbia Cascade Co. 2932-0036-P)	1,891.10	122.20	
32 33 43 53-0221	EA	Round Table With Center Support (Columbia Cascade Co. 2932-0042-P)	1,952.59	122.20	
32 33 43 53-0222	EA	Square Table With Center Support (Columbia Cascade Co. 2932-3030-E)	1,798.86	122.20	
32 33 43 53-0223	EA	Square Table With Center Support (Columbia Cascade Co. 2932-3636-E)	1,844.98	122.20	
32 33 43 53-0224	EA	Square Table With Center Support (Columbia Cascade Co. 2932-4242-E)	1,891.10	122.20	
32 33 43 53-0225	EA	Square Table With Center Support (Columbia Cascade Co. 2932-3030-P)	1,937.22	122.20	
32 33 43 53-0226	EA	Square Table With Center Support (Columbia Cascade Co. 2932-3636-P)	1,983.34	122.20	
32 33 43 53-0227	EA	Square Table With Center Support (Columbia Cascade Co. 2932-4242-P)	2,029.46	122.20	
32 33 43 53-0228	EA	Round Table With Four Legs (Columbia Cascade Co. 2935-0030-E)	1,768.11	122.20	
32 33 43 53-0229	EA	Round Table With Four Legs (Columbia Cascade Co. 2935-0036-E)	1,829.61	122.20	
32 33 43 53-0230	EA	Round Table With Four Legs (Columbia Cascade Co. 2935-0042-E)	1,891.10	122.20	
32 33 43 53-0231	EA	Round Table With Four Legs (Columbia Cascade Co. 2935-0030-P)	1,768.11	122.20	
32 33 43 53-0232	EA	Round Table With Four Legs (Columbia Cascade Co. 2935-0036-P)	1,829.61	122.20	
32 33 43 53-0233	EA	Round Table With Four Legs (Columbia Cascade Co. 2935-0042-P)	1,891.10	122.20	
32 33 43 53-0234	EA	Round Table With Four Legs (Columbia Cascade Co. 2935-0030-L)	1,768.11	122.20	
32 33 43 53-0235	EA	Round Table With Four Legs (Columbia Cascade Co. 2935-0036-L)	1,829.61	122.20	
32 33 43 53-0236	EA	Round Table With Four Legs (Columbia Cascade Co. 2935-0042-L)	1,891.10	122.20	
32 33 43 53-0237	EA	Square Table With Four Legs (Columbia Cascade Co. 2935-3030-E)	1,875.72	122.20	
32 33 43 53-0238	EA	Square Table With Four Legs (Columbia Cascade Co. 2935-3636-E)	1,921.84	122.20	
32 33 43 53-0239	EA	Square Table With Four Legs (Columbia Cascade Co. 2935-4242-E)	1,967.96	122.20	
32 33 43 53-0240	EA	Square Table With Four Legs (Columbia Cascade Co. 2935-3030-P)	1,875.72	122.20	
32 33 43 53-0241	EA	Square Table With Four Legs (Columbia Cascade Co. 2935-3636-P)	1,921.84	122.20	



Exterior Improvements		32	32
Site Improvements		32 30	
Site Furnishings		32 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 53-0242 EA Square Table With Four Legs (Columbia Cascade Co. 2935-4242-P)	1,967.96	122.20
32 33 43 53-0243 EA Square Table With Four Legs (Columbia Cascade Co. 2935-3030-L)	1,875.72	122.20
32 33 43 53-0244 EA Square Table With Four Legs (Columbia Cascade Co. 2935-3636-L)	1,921.84	122.20
32 33 43 53-0245 EA Square Table With Four Legs (Columbia Cascade Co. 2935-4242-L)	1,967.96	122.20
32 33 43 53-0246 EA Square Table With Center Support (Columbia Cascade Co. 2942-3030-E)	1,429.91	122.20
32 33 43 53-0247 EA Square Table With Center Support (Columbia Cascade Co. 2942-3636-E)	1,476.03	122.20
32 33 43 53-0248 EA Square Table With Center Support (Columbia Cascade Co. 2942-4242-E)	1,522.15	122.20
32 33 43 53-0249 EA Square Table With Center Support (Columbia Cascade Co. 2942-3030-P)	1,568.26	122.20
32 33 43 53-0250 EA Square Table With Center Support (Columbia Cascade Co. 2942-3636-P)	1,614.38	122.20
32 33 43 53-0251 EA Square Table With Center Support (Columbia Cascade Co. 2942-4242-P)	1,660.50	122.20
32 33 43 53-0252 EA Round Table With Center Support (Columbia Cascade Co. 2962-0030-E)	1,691.25	122.20
32 33 43 53-0253 EA Round Table With Center Support (Columbia Cascade Co. 2962-0036-E)	1,752.74	122.20
32 33 43 53-0254 EA Round Table With Center Support (Columbia Cascade Co. 2962-0042-E)	1,814.23	122.20
32 33 43 53-0255 EA Round Table With Center Support (Columbia Cascade Co. 2962-0030-P)	1,522.15	122.20
32 33 43 53-0256 EA Round Table With Center Support (Columbia Cascade Co. 2962-0036-P)	1,583.64	122.20
32 33 43 53-0257 EA Round Table With Center Support (Columbia Cascade Co. 2962-0042-P)	1,645.13	122.20
32 33 43 53-0258 EA Square Table With Center Support (Columbia Cascade Co. 2962-3030-E)	1,399.16	122.20
32 33 43 53-0259 EA Square Table With Center Support (Columbia Cascade Co. 2962-3636-E)	1,445.28	122.20
32 33 43 53-0260 EA Square Table With Center Support (Columbia Cascade Co. 2962-4242-E)	1,491.40	122.20
32 33 43 53-0261 EA Square Table With Center Support (Columbia Cascade Co. 2962-3030-P)	1,537.52	122.20
32 33 43 53-0262 EA Square Table With Center Support (Columbia Cascade Co. 2962-3636-P)	1,583.64	122.20
32 33 43 53-0263 EA Square Table With Center Support (Columbia Cascade Co. 2962-4242-P)	1,629.76	122.20
32 33 43 53-0264 Picnic Tables (32 33 43 53)		
32 33 43 53-0265 Wooden Picnic Tables (32 33 43 53-0264)		
32 33 43 53-0266 EA 6' Permanent Rectangular Redwood Table	1,012.75	78.47
32 33 43 53-0267 Portable Picnic Tables (32 33 43 53-0264)		
32 33 43 53-0268 EA 6' Wood Table With Aluminum Frame	1,590.39	52.32
32 33 43 53-0269 EA 6' Aluminum Table And Frame	2,308.42	52.32
32 33 43 53-0270 EA 8' Aluminum Table And Frame	2,754.35	65.39
32 33 43 53-0271 EA 6' Steel Table And Frame	1,360.21	52.32
32 33 43 53-0272 EA 8' Steel Table And Frame	1,558.02	65.39
32 33 43 53-0273 Concrete Picnic Tables (32 33 43 53-0264)		
32 33 43 53-0274 EA 72" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches (Quikrete QLBT72PT)	2,700.30	209.25
32 33 43 53-0275 EA 96" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches (Quick Crete QLBT96PT Or QLMR96PT)	3,113.58	
Note: Standard sealer		
32 33 43 53-0276 EA 102" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches And Handicap Access On Two Ends (Quick Crete QLMR102PTADA)	3,123.51	
Note: Standard sealer		
32 33 43 53-0277 EA 42" Diameter, Precast Concrete, Round Food Court Table Set With Four Benches (Quick Crete QR42FC)	3,305.15	
Note: Includes table top, four benches and mounting hardware.		
32 33 43 53-0278 Plastic Picnic Tables (32 33 43 53-0264)		
Note: Manufactured from recycled plastic.		
32 33 43 53-0279 Pedestal Tables - 4' Square, 2 Seats (32 33 43 53-0278)		
32 33 43 53-0280 EA 3" x 4" Slats, Pedestal Table, 4' Square, 2 Seats	1,610.59	78.47
32 33 43 53-0281 EA 4" x 4" Slats, Pedestal Table, 4' Square, 2 Seats	1,765.00	78.47
32 33 43 53-0282 Pedestal Tables - 4' Square, 4 Seats (32 33 43 53-0278)		
32 33 43 53-0283 EA 3" x 4" Slats, Pedestal Table, 4' Square, 4 Seats	2,111.32	78.47
32 33 43 53-0284 EA 4" x 4" Slats, Pedestal Table, 4' Square, 4 Seats	2,318.67	78.47
32 33 43 53-0285 Recycled Plastic Tables (32 33 43 53-0278)		
32 33 43 53-0286 EA 6' Standard "Step-Over" Table, Recycled Plastic Lumber	2,765.70	78.47
32 33 43 53-0287 EA 6' " Walk-Through" Table, Recycled Plastic Lumber	2,303.28	78.47
32 33 43 53-0288 EA 7' Reinforced "Step-Over" Table, Recycled Plastic Lumber, ADA Ends	2,515.79	78.47
32 33 43 53-0289 EA 8' " Walk-Through" Table, Recycled Plastic Lumber, ADA Ends	2,352.58	78.47
32 33 43 53-0290 EA 8' Reinforced "Step-Over" Table, Recycled Plastic Lumber, ADA Ends	2,960.79	78.47
32 33 43 53-0291 EA 4' Youth Table, Recycled Plastic Lumber	1,177.47	62.78
32 33 53 Site Grills (32 33)		
32 33 53 00-0001 Picnic Grills (32 33 53)		
32 33 53 00-0002 EA 20" Wide x 14" Deep x 8-1/2" High Adjustable Grill	456.73	
Note: 11 gauge with galvanized steel post.		
32 33 53 00-0003 EA 20" Wide x 14" Deep x 8-1/2" High Adjustable Grill	488.51	
Note: 7 gauge with galvanized steel post.		

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 33 63 Skate Board Deterrent (32 33)**32 33 63 00-0001 Skate Stoppers (32 33 63)**

32 33 63 00-0002	EA	Aluminum Architectural Series Pieces, Skate Stopper.....	69.31		
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.			
		For >59 To 99, Deduct	-7.35		
		For >99 To 249, Deduct	-9.30		
		For >249, Deduct	-11.25		
32 33 63 00-0003	EA	Aluminum Fixed Angle Series Pieces, Skate Stopper.....	73.33		
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.			
		For >59 To 99, Deduct	-7.91		
		For >99 To 249, Deduct	-9.98		
		For >249, Deduct	-12.05		
32 33 63 00-0004	EA	Aluminum Fixed Radius Series Pieces, Skate Stopper.....	52.22		
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.			
		For >59 To 99, Deduct	-4.96		
		For >99 To 249, Deduct	-6.39		
		For >249, Deduct	-7.83		
32 33 63 00-0005	EA	Aluminum Bench Clips, Skate Stopper	42.16		
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.			
		For >59 To 99, Deduct	-3.55		
		For >99 To 249, Deduct	-4.68		
		For >249, Deduct	-5.82		
32 33 63 00-0006	EA	Aluminum Curve Clips, Skate Stopper.....	45.92		
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.			
		For >59 To 99, Deduct	-4.07		
		For >99 To 249, Deduct	-5.32		
		For >249, Deduct	-6.57		
32 33 63 00-0007	EA	Aluminum Hand Rail, Skate Stopper	44.02		
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.			
		For >59 To 99, Deduct	-3.81		
		For >99 To 249, Deduct	-5.00		
		For >249, Deduct	-6.19		
32 33 63 00-0008	EA	Aluminum 2" x 3" x 0.25" Flat Cap, Skate Stopper	41.54		
		Note: Includes drilling and anchoring into suitable surface material.			
		For >59 To 99, Deduct	-3.46		
		For >99 To 249, Deduct	-4.58		
		For >249, Deduct	-5.69		
32 33 63 00-0009	EA	Aluminum 6" Diameter x 0.25" Rumble Disc, Skate Stopper	56.91		
		Note: Includes drilling and anchoring into suitable surface material.			
		For >59 To 99, Deduct	-5.61		
		For >99 To 249, Deduct	-7.19		
		For >249, Deduct	-8.77		
32 33 63 00-0010	EA	Aluminum 4" x 17" x 0.25" Flat Strap, Skate Stopper	103.04		
		Note: Includes drilling and anchoring into suitable surface material.			
		For >59 To 99, Deduct	-12.07		
		For >99 To 249, Deduct	-15.03		
		For >249, Deduct	-17.99		

32 35 Screening Devices (32 30)**32 35 13 Screens and Louvers (32 35)****32 35 13 00-0001 Roof Screen System (32 35 13)**

32 35 13 00-0002	SF	Roof Screen System	96.65		
		Note: Includes panels with bolted connection wall or roof mounted support frames, inside an outside corners, and gates as necessary.			
32 35 13 00-0003	SF	Roof Screen System (Ruskin EV 700).....	97.81		
		Note: Includes panels with bolted connection wall or roof mounted support frames, inside an outside corners, and accessories as necessary.			

32 35 16 Sound Barriers (32 35)**32 35 16 00-0001 Acoustical K-Rail Mounted Sound Wall (Rental) (32 35 16)**

32 35 16 00-0002	LF	Freight/Delivery And Installation Of Rented 16' High, Dual K-Rail Mounted STC-32 Sound Wall.....	53.97		
32 35 16 00-0003	EA	Freight/Delivery And Installation Of Rented 20' K-Rail For Dual K-Rail Mounted Sound Wall	300.39		
32 35 16 00-0004	LF	16' High, Dual K-Rail Mounted STC-32 Sound Wall, Material Rental Per Month.....	32.95		
		Note: Includes rental material only per LF per Month.			
32 35 16 00-0005	EA	20' K-Rail For Dual K-Rail Mounted Sound Wall, Material Rental Per Each.....	128.14		
		Note: Includes rental material only per each 20' section per Month.			
32 35 16 00-0006	LF	Freight/Return And Removal Of Rented 16' High, Dual K-Rail Mounted STC-32 Sound Wall.....	50.02		
32 35 16 00-0007	EA	Freight/Return And Removal Of Rented 20' K-Rail For Dual K-Rail Mounted Sound Wall	300.39		

32 35 16 00-0008 Acoustical K-Rail Mounted Sound Wall (Purchase) (32 35 16)

32 35 16 00-0009	LF	16' High, Dual K-Rail Mounted STC-32 Sound Wall (Purchase).....	932.62		
		Note: Includes freight/delivery, installation and material.			
32 35 16 00-0010	EA	20' K-Rail For Dual K-Rail Mounted Sound Wall (Purchase)	1,398.70		
		Note: Includes freight/delivery, installation and material.			

32 39 Manufactured Site Specialties (32 30)



Exterior Improvements			32
Site Improvements			32 30
Manufactured Site Specialties			32 39

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
Note: Excludes core drilling (where needed), augering, concrete footing and compaction. See CSI section 02 41 19 13-0083 for concrete core drilling, 02 41 19 13-0221 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.					
32 39 13 Manufactured Metal Bollards (32 39)					
32 39 13 00-0001			Metal Pipe Bollards (32 39 13) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.		
32 39 13 00-0002			Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powder Coated (32 39 13 00-0001)		
32 39 13 00-0003	LF		4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add For Schedule 80, Add For Concrete Fill, Add Per LF Of Pipe Bollard	69.45 7.03 55.80 136.48 94.16 9.01 10.06	14.06
32 39 13 00-0004	LF		6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add For Schedule 80, Add For Concrete Fill, Add Per LF Of Pipe Bollard	93.31 11.08 88.01 136.48 94.16 12.59 14.08	14.06
32 39 13 00-0005	LF		8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard, Add For Schedule 80, Add For Concrete Fill, Add Per LF Of Pipe Bollard	131.86 16.44 130.55 178.64 206.32 18.02 18.80	17.58
32 39 13 00-0006	LF		10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard, Add For Schedule 80, Add For Concrete Fill, Add Per LF Of Pipe Bollard	174.49 22.49 178.61 206.76 220.38 24.06 22.93	21.10
32 39 13 00-0007	LF		12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard, Add For Schedule 80, Add For Concrete Fill, Add Per LF Of Pipe Bollard	220.43 27.91 221.64 284.00 307.50 30.25 26.63	28.12
32 39 23 Manufactured Concrete Bollards (32 39)					
32 39 23 00-0001			Concrete Bollards (32 39 23) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any.		
32 39 23 00-0002			Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)		
32 39 23 00-0003	EA		12" x 12" x 30" High Concrete Bollard, Light Media Blast..... Note: Surface mounted with anchor bolts embedded into grout pockets.	593.33	112.51
32 39 23 00-0004	EA		12" Diameter x 30" High Concrete Bollard, Light Media Blast..... Note: Surface mounted with anchor bolts embedded into grout pockets.	593.33	112.51
32 39 23 00-0005			Poured In Place Concrete Bollard With Powder Coated Steel Exterior (32 39 23 00-0001) Note: Includes high visibility powder coated steel exterior with welded anchoring tabs for embedding in concrete. Excludes excavation and concrete foundation.		
32 39 23 00-0006	EA		24" Exposed Height, 5-1/2" Diameter, Poured In Place Concrete Bollard With Powder Coated Steel Exterior	261.26	56.25
32 39 23 00-0007	EA		36" Exposed Height, 5-1/2" Diameter, Poured In Place Concrete Bollard With Powder Coated Steel Exterior	335.12	56.25
32 39 23 00-0008	EA		42" Exposed Height, 5-1/2" Diameter, Poured In Place Concrete Bollard With Powder Coated Steel Exterior	384.59	56.25
32 39 23 00-0009	EA		48" Exposed Height, 5-1/2" Diameter, Poured In Place Concrete Bollard With Powder Coated Steel Exterior	431.46	56.25
32 39 25 Manufactured Wood Bollards (32 39)					
32 39 25 00-0001			Wood Bollards (32 39 25) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 25 00-0002			Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)		
32 39 25 00-0003	LF		4" x 4", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	25.80 140.00	11.25
32 39 25 00-0004	LF		6" x 6", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	29.29 140.00	11.25
32 39 25 00-0005	LF		8" x 8", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	37.39 220.64	12.65
32 39 25 00-0006	LF		10" x 10", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	52.57 237.50	16.87

32 Exterior Improvements**32 30 Site Improvements****32 39 Manufactured Site Specialties**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 25 00-0007	LF	12" x 12", Pressure Treated Wood Bollard	.....	72.11	22.50
		For Each Sleeve For Removable, Lockable Bollard, Add		335.02	
32 39 27 Manufactured Plastic Bollards (32 39)					
32 39 27 00-0001		Plastic Bollards (32 39 27)			
		See CSI section 32 31 13 13-0001 for augering and filling holes for bollards.			
32 39 27 00-0002		Recycled Plastic Bollards (32 39 27 00-0001)			
32 39 27 00-0003	EA	6" x 6" x 33" Surface Mounted Recycled Plastic Bollard	.....	373.16	56.25
		Note: Includes anchor bolts.			
32 39 27 00-0004	EA	6" Diameter x 6' Steel Reinforced Recycled Plastic Bollard	.....	605.21	56.25
32 39 27 00-0005		Plastic Bollard Covers (32 39 27 00-0001)			
32 39 27 00-0006	EA	4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe	.....	95.77	13.42
		For Reflective Tape, Add		10.94	
32 39 27 00-0007	EA	6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	.....	103.58	14.77
		For Reflective Tape, Add		10.94	
32 39 27 00-0008	EA	3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe	.....	130.23	13.42
		For Reflective Tape, Add		10.94	
32 39 27 00-0009	EA	3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe	.....	130.23	13.42
		For Reflective Tape, Add		10.94	
32 39 27 00-0010	EA	3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe	.....	146.32	13.42
		For Reflective Tape, Add		10.94	
32 39 27 00-0011	EA	4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4' To 4-1/2" Pipe	.....	130.23	13.42
		For Reflective Tape, Add		10.94	
32 39 27 00-0012	EA	4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe	.....	132.53	13.42
		For Reflective Tape, Add		10.94	
32 39 27 00-0013	EA	5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	.....	130.23	13.42
		For Reflective Tape, Add		10.94	
32 39 27 00-0014	EA	5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	.....	132.53	13.42
		For Reflective Tape, Add		10.94	
32 39 27 00-0015	EA	5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	.....	185.38	13.42
		For Reflective Tape, Add		10.94	
32 39 27 00-0016	EA	6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	.....	132.91	14.77
		For Reflective Tape, Add		10.94	
32 39 27 00-0017	EA	6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	.....	169.68	14.77
		For Reflective Tape, Add		10.94	
32 39 27 00-0018	EA	6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	.....	193.19	14.77
		For Reflective Tape, Add		10.94	
32 39 27 00-0019	EA	7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	.....	163.17	16.12
		For Reflective Tape, Add		10.94	
32 39 27 00-0020	EA	8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe	.....	176.95	16.12
		For Reflective Tape, Add		10.94	
32 39 27 00-0021	EA	8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe	.....	176.95	16.12
		For Reflective Tape, Add		10.94	
32 39 27 00-0022	EA	10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe	.....	239.01	16.12
		For Reflective Tape, Add		10.94	
32 39 29		Manufactured Stone Bollards (32 39)			
32 39 29 00-0001		Stone Bollards (32 39 29)			
32 39 29 00-0002		Granite Bollards (32 39 29 00-0001)			
32 39 29 00-0003	EA	16" x 16" x 30" Granite Bollard, Smooth Matt Finish	.....	1,737.29	140.63
		Note: Surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0004	EA	16" x 16" x 54" Granite Bollard, Smooth Matt Finish	.....	2,193.94	196.88
		Note: Surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0005	EA	12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top	.....	1,059.58	140.63
		Note: Surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0006	EA	12" Diameter x 18" Granite Bollard, Smooth Matt Finish	.....	1,601.61	112.51
		Note: Flat Top, surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0007	EA	24" x 24" x 20" Granite Bollard, Octagonal Cross Section	.....	2,409.05	112.51
		Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.			
32 80		Irrigation (32)			
32 84		Planting Irrigation (32 80)			
32 84 13		Drip Irrigation (32 84)			
32 84 13 00-0001		Drip Emitter Irrigation Devices (32 84 13)			
32 84 13 00-0002		Drip Emitter Irrigation Valves (32 84 13 00-0001)			
32 84 13 00-0003	EA	1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050)	.....	49.84	12.06
32 84 13 00-0004	EA	1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV100)	.....	77.36	12.06
32 84 13 00-0005	EA	3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV075)	.....	75.44	12.06
32 84 13 00-0006	EA	3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV075TBOS)	.....	101.30	12.06



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0007 Drip Emitter Irrigation Filters (32 84 13 00-0001)					
32 84 13 00-0008	EA	3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075)	155.95	12.06	
32 84 13 00-0009	EA	1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100)	157.37	12.06	
32 84 13 00-0010	EA	3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX)	61.86	12.06	
32 84 13 00-0011	EA	1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX)	63.00	12.06	
32 84 13 00-0012	EA	1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100)	169.19	12.06	
32 84 13 00-0013	EA	3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY)	78.97	12.06	
32 84 13 00-0014	EA	1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY)	87.89	12.06	
32 84 13 00-0015 Drip Emitter Irrigation Pressure Regulators (32 84 13 00-0001)					
32 84 13 00-0016	EA	3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-30X-075)	60.70	12.06	
32 84 13 00-0017	EA	3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075)	60.70	12.06	
32 84 13 00-0018	EA	3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075)	60.70	12.06	
32 84 13 00-0019	EA	1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100)	70.08	12.06	
32 84 13 00-0020 Drip Emitter Irrigation Tubing (32 84 13 00-0001)					
Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.					
32 84 13 00-0021	LF	1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100)	4.46	1.69	
32 84 13 00-0022	LF	1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100)	4.24	1.93	
32 84 13 00-0023	LF	1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100)	3.56	1.69	
For Shallow Trenching And Backfill By Hand, Add			6.92		
32 84 13 00-0024	LF	1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100)	4.19	1.93	
For Shallow Trenching And Backfill By Hand, Add			7.50		
32 84 13 00-0025 Drip Emitter Irrigation Fittings (32 84 13 00-0001)					
32 84 13 00-0026	EA	1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN)	3.19		
32 84 13 00-0027	EA	1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL)	3.23		
32 84 13 00-0028	EA	1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE)	3.28		
32 84 13 00-0029	EA	1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025)	3.44		
32 84 13 00-0030	EA	1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX)	3.17		
32 84 13 00-0031	EA	17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP)	3.36		
For Compression Fitting, Add			0.34		
32 84 13 00-0032	EA	17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW)	3.46		
For Compression Fitting, Add			0.44		
32 84 13 00-0033	EA	17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE)	3.51		
For Compression Fitting, Add			0.49		
32 84 13 00-0034	EA	17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050)	3.53		
For Compression Fitting, Add			0.51		
32 84 13 00-0035	EA	17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS)	3.74		
For Compression Fitting, Add			0.72		
32 84 13 00-0036	EA	1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP)	3.97		
32 84 13 00-0037	EA	12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND)	1.96		
32 84 13 00-0038 Drip Emitters (32 84 13 00-0001)					
32 84 13 00-0039	EA	0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC)	6.55		
32 84 13 00-0040	EA	5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24)	7.46		
32 84 13 00-0041	EA	0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056)	15.48		
32 84 13 00-0042 Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters (32 84 13 00-0001)					
32 84 13 00-0043	EA	Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK)	25.53	10.85	
32 84 13 00-0044	EA	Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK)	25.58	10.85	
32 84 13 00-0045	EA	12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL)	28.09	10.85	
32 84 13 00-0046	EA	24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL)	28.36	10.85	
32 84 13 00-0047	EA	4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL)	40.98	14.23	
Note: Includes nozzle.					
32 84 13 00-0048	EA	6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL)	44.22	14.23	
Note: Includes nozzle.					
32 84 13 00-0049	EA	12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL)	44.64	14.23	
Note: Includes nozzle.					
32 84 13 00-0050 Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) (32 84 13 00-0001)					
Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.					

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0051	LF	0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield)	.....	4.87	2.11
32 84 23 Underground Sprinklers (32 84)					
32 84 23 00-0001 Sprinkler Heads (32 84 23)					
32 84 23 00-0002 Spray Sprinkler Heads (32 84 23 00-0001)					
Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.					
32 84 23 00-0003	EA	2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P)	.....	36.19	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0004	EA	4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P)	.....	34.35	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0005	EA	6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P)	.....	41.16	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0006	EA	12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P)	.....	46.86	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0007	EA	4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM)	.....	36.91	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0008	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)	.....	46.50	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0009	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)	.....	51.11	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0010	EA	4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS)	.....	39.64	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0011	EA	6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS)	.....	48.38	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0012	EA	12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS)	.....	52.69	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0013	EA	4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS)	.....	40.73	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0014	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS)	.....	54.15	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0015	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS)	.....	58.40	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0016	EA	Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300)	.....	30.76	13.32
		For Rotary Nozzle, Add	.....	3.25	
32 84 23 00-0017	EA	Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400)	.....	35.03	13.32
32 84 23 00-0018 Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0001)					
Note: Maximum spacing is equivalent to maximum radius.					
32 84 23 00-0019 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018)					
Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.					
32 84 23 00-0020	EA	4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC)	.....	49.66	13.32
		For Non-Potable Cover, Add	.....	2.00	
32 84 23 00-0021	EA	4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)	.....	51.17	13.32
		For Non-Potable Cover, Add	.....	2.00	
32 84 23 00-0022 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018)					
Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.					
32 84 23 00-0023	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC)	.....	46.01	13.32
		For Non-Potable Cover, Add	.....	2.00	
		For Stainless Steel Riser, Add	.....	9.00	
32 84 23 00-0024	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC)	.....	62.40	13.32
		For Non-Potable Cover, Add	.....	2.00	
		For Stainless Steel Riser, Add	.....	9.00	
32 84 23 00-0025	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS)	.....	49.05	13.32
		For Non-Potable Cover, Add	.....	2.00	
		For Stainless Steel Riser, Add	.....	9.00	
32 84 23 00-0026	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS)	.....	64.83	13.32
		For Non-Potable Cover, Add	.....	2.00	
		For Stainless Steel Riser, Add	.....	9.00	
32 84 23 00-0027	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR)	.....	50.26	13.32
		For Non-Potable Cover, Add	.....	2.00	
		For Stainless Steel Riser, Add	.....	9.00	
32 84 23 00-0028	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR)	.....	52.69	13.32
		For Non-Potable Cover, Add	.....	2.00	
		For Stainless Steel Riser, Add	.....	9.00	
32 84 23 00-0029	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR)	.....	68.47	13.32
		For Non-Potable Cover, Add	.....	2.00	
		For Stainless Steel Riser, Add	.....	9.00	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0030	EA		12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR).....	78.19	13.32
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0031	EA		Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS).....	52.39	13.32
			<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0032	EA		Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR).....	62.10	13.32
			<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0033			1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018)		
			Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034	EA		4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC)	85.17	13.32
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
			<i>For Stainless Steel Riser And High Speed Rotor, Add</i>	44.68	
32 84 23 00-0035			1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018)		
			Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0036	EA		5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005)	120.38	13.32
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0037			Impact-Drive Sprinkler Heads (32 84 23 00-0001)		
			Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038	EA		1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08).....	68.17	13.32
			<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0039	EA		1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08).....	53.60	13.32
32 84 23 00-0040	EA		3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB).....	102.14	13.32
32 84 23 00-0041			Electric Remote Control Irrigation Valves (32 84 23)		
32 84 23 00-0042			0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) (32 84 23 00-0041)		
			Note: 15 to 150 PSI.		
32 84 23 00-0043	EA		3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV)	152.55	55.53
32 84 23 00-0044	EA		1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV)	152.55	55.53
32 84 23 00-0045	EA		1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS).....	168.42	63.30
32 84 23 00-0046	EA		1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA).....	153.76	55.53
32 84 23 00-0047			0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) (32 84 23 00-0041)		
			Note: 15 to 150 PSI.		
32 84 23 00-0048	EA		1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF).....	153.76	55.53
32 84 23 00-0049	EA		1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS)	170.24	63.30
32 84 23 00-0050	EA		1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB).....	171.45	63.30
32 84 23 00-0051			0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) (32 84 23 00-0041)		
			Note: 20 to 200 PSI.		
32 84 23 00-0052	EA		1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB)	250.89	55.53
32 84 23 00-0053	EA		1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB)	293.38	55.53
32 84 23 00-0054	EA		2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB)	348.01	55.53
32 84 23 00-0055			5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series) (32 84 23 00-0041)		
			Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056	EA		1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D)	357.36	62.42
32 84 23 00-0057	EA		1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D).....	399.85	62.42
32 84 23 00-0058	EA		2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D).....	454.49	62.42
32 84 23 00-0059			20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series) (32 84 23 00-0041)		
			Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0060	EA	1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D).....	418.07	62.42
32 84 23 00-0061	EA	1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D).....	460.56	62.42
32 84 23 00-0062	EA	2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D).....	515.19	62.42
32 84 23 00-0063		0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064	EA	1", 5 To 200 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B).....	371.74	55.53
32 84 23 00-0065	EA	1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B).....	567.10	55.53
32 84 23 00-0066	EA	2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B).....	584.76	55.53
32 84 23 00-0067	EA	3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B).....	1,369.63	74.97
32 84 23 00-0068		5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP).....	344.19	62.42
32 84 23 00-0070	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP).....	402.28	62.42
32 84 23 00-0071	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP).....	465.35	62.42
32 84 23 00-0072	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP).....	548.40	62.42
32 84 23 00-0073		0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS).....	453.38	62.42
32 84 23 00-0075	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS).....	685.16	62.42
32 84 23 00-0076	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS).....	705.03	62.42
32 84 23 00-0077	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS).....	1,462.17	62.42
32 84 23 00-0078		0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0079	EA	1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B-ACCU-SYNC-ADJ).....	460.04	55.53
32 84 23 00-0080	EA	1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B-ACCU-SYNC-ADJ).....	655.39	55.53
32 84 23 00-0081	EA	2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B-ACCU-SYNC-ADJ).....	673.05	55.53
32 84 23 00-0082	EA	3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B-ACCU-SYNC-ADJ).....	1,457.93	74.97
32 84 23 00-0083		5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D).....	435.25	62.42
32 84 23 00-0085	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D).....	493.34	62.42
32 84 23 00-0086	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D).....	556.41	62.42
32 84 23 00-0087	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D).....	639.45	62.42
32 84 23 00-0088		0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0089	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ).....	541.68	62.42
32 84 23 00-0090	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ).....	773.46	62.42
32 84 23 00-0091	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ).....	793.32	62.42
32 84 23 00-0092	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ).....	1,550.46	62.42



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0093 Other Electric Remote Control Valves/Accessories (32 84 23 00-0041)		
32 84 23 00-0094 EA Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL)	135.48	
32 84 23 00-0095 Remote Control Valve Assemblies (32 84 23 00-0041)		
Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.		
32 84 23 00-0096 EA 1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	560.83	138.83
32 84 23 00-0097 EA 1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	603.32	138.83
32 84 23 00-0098 EA 2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	657.95	138.83
32 84 23 00-0099 EA 1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)	621.53	138.83
Note: Purple components for use with recycled water		
32 84 23 00-0100 EA 1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)	664.02	138.83
Note: Purple components for use with recycled water		
32 84 23 00-0101 EA 2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)	718.66	138.83
Note: Purple components for use with recycled water		
32 84 23 00-0102 EA 1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)	638.71	138.83
Note: Purple components for use with recycled water		
32 84 23 00-0103 EA 1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)	759.87	138.83
Note: Purple components for use with recycled water		
32 84 23 00-0104 EA 2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)	842.92	138.83
Note: Purple components for use with recycled water		
32 84 23 00-0105 Irrigation Valve Boxes (32 84 23)		
Note: Includes lid.		
32 84 23 00-0106 EA 6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND)	93.60	39.98
32 84 23 00-0107 EA 7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND)	107.94	39.98
32 84 23 00-0108 EA 10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND)	141.62	52.64
32 84 23 00-0109 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD)	249.63	76.86
32 84 23 00-0110 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH)	255.08	76.86
32 84 23 00-0111 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB)	294.22	76.86
32 84 23 00-0112 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH)	298.88	76.86
32 84 23 00-0113 EA 33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH)	522.53	76.86
32 84 23 00-0114 EA 40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH)	812.20	76.86
32 84 23 00-0115 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid	513.99	156.84
For 12" Extension, Add		
32 84 23 00-0116 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid	798.56	156.84
For 12" Extension, Add		
32 84 23 00-0117 EA 12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12)	204.13	66.64
32 84 23 00-0118 EA 15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12)	296.68	76.86
32 84 23 00-0119 EA 10" Round Irrigation Valve Box With Lid (Carson 910-10)	156.79	52.64
32 84 23 00-0120 Irrigation Controllers (32 84 23)		
See CSI section 27 15 13 00-0256 for low voltage wiring.		
32 84 23 00-0121 Irrigation Controllers (32 84 23 00-0120)		
32 84 23 00-0122 Irrigation Controllers (Rain Bird®) (32 84 23 00-0121)		
32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) (32 84 23 00-0122)		
32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0123)		
32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) (32 84 23 00-0124)		
32 84 23 00-0126 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	398.41	41.85
32 84 23 00-0127 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	557.22	41.85
32 84 23 00-0128 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	716.05	41.85
32 84 23 00-0129 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	874.87	41.85
32 84 23 00-0130 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	991.84	41.85
32 84 23 00-0131 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	1,155.90	41.85
32 84 23 00-0132 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	1,319.96	41.85
32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0124)		
32 84 23 00-0134 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	460.29	41.85
32 84 23 00-0135 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	619.10	41.85

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0136 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	777.93	41.85
32 84 23 00-0137 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	936.75	41.85
32 84 23 00-0138 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,053.72	41.85
32 84 23 00-0139 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,217.78	41.85
32 84 23 00-0140 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,381.84	41.85
32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0123)		
32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0141)		
32 84 23 00-0143 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	613.36	41.85
32 84 23 00-0144 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	772.18	41.85
32 84 23 00-0145 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	931.00	41.85
32 84 23 00-0146 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,089.83	41.85
32 84 23 00-0147 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,206.79	41.85
32 84 23 00-0148 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,370.86	41.85
32 84 23 00-0149 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,534.91	41.85
32 84 23 00-0150 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0141)		
32 84 23 00-0151 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	659.73	41.85
32 84 23 00-0152 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	818.54	41.85
32 84 23 00-0153 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	977.37	41.85
32 84 23 00-0154 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,136.19	41.85
32 84 23 00-0155 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,253.16	41.85
32 84 23 00-0156 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,417.22	41.85
32 84 23 00-0157 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,581.28	41.85
32 84 23 00-0158 Accessories For ESP-ME/MEI Irrigation Controllers (32 84 23 00-0123)		
32 84 23 00-0159 EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3).....	164.05	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0160 EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6).....	315.20	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0161 EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG).....	416.00	
32 84 23 00-0162 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) (32 84 23 00-0122)		
32 84 23 00-0163 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) (32 84 23 00-0162)		
32 84 23 00-0164 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	928.89	41.85
32 84 23 00-0165 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,128.09	41.85
32 84 23 00-0166 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,330.30	41.85
32 84 23 00-0167 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,529.50	41.85
32 84 23 00-0168 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,731.70	41.85
32 84 23 00-0169 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,930.90	41.85
32 84 23 00-0170 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,133.10	41.85
32 84 23 00-0171 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,332.30	41.85
32 84 23 00-0172 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,534.51	41.85
32 84 23 00-0173 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,733.71	41.85
32 84 23 00-0174 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0162)		
32 84 23 00-0175 EA 8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	909.77	41.85
32 84 23 00-0176 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,108.95	41.85
32 84 23 00-0177 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,311.15	41.85
32 84 23 00-0178 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,510.36	41.85
32 84 23 00-0179 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,712.56	41.85
32 84 23 00-0180 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,911.76	41.85
32 84 23 00-0181 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,113.97	41.85
32 84 23 00-0182 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,313.17	41.85
32 84 23 00-0183 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,515.37	41.85
32 84 23 00-0184 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,714.58	41.85
32 84 23 00-0185 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,916.78	41.85
32 84 23 00-0186 Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0162)		
32 84 23 00-0187 EA Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM).....	652.32	
32 84 23 00-0188 EA Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMPED + LXMM).....	1,507.23	
Note: Excludes concrete foundation.		



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0189 EA Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS).....	1,410.10	
32 84 23 00-0190 EA Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS).....	3,127.83	
Note: Excludes concrete foundation.		
32 84 23 00-0191 EA 4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4)	199.20	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0192 EA 8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8)	401.41	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0193 EA 12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12)	621.24	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0194 EA Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME).....	226.25	
32 84 23 00-0195 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)		
32 84 23 00-0196 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0195)		
32 84 23 00-0197 EA 1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	440.67	41.85
32 84 23 00-0198 EA 2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	535.04	41.85
32 84 23 00-0199 EA 4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	672.75	41.85
32 84 23 00-0200 Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0195)		
32 84 23 00-0201 EA Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS)	525.19	
32 84 23 00-0202 EA Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL)	115.34	31.38
32 84 23 00-0203 Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)		
32 84 23 00-0204 EA Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDBEX).....	175.07	31.38
32 84 23 00-0205 EA Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC)	348.80	31.38
32 84 23 00-0206 EA Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC).....	366.81	31.38
32 84 23 00-0207 EA Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y).....	522.87	31.38
32 84 23 00-0208 Two-Wire Decoder Systems (32 84 23 00-0120)		
32 84 23 00-0209 Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0208)		
32 84 23 00-0210 Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) (32 84 23 00-0209)		
Note: Includes water resistant cabinet.		
32 84 23 00-0211 EA 50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	2,586.17	41.85
32 84 23 00-0212 EA 125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	3,783.72	41.85
32 84 23 00-0213 EA 200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	4,981.26	41.85
32 84 23 00-0214 Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0215 EA One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF).....	323.95	41.85
32 84 23 00-0216 EA One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF).....	410.90	41.85
32 84 23 00-0217 EA Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF).....	610.90	41.85
32 84 23 00-0218 EA Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF).....	738.11	41.85
32 84 23 00-0219 EA Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF).....	1,208.78	41.85
32 84 23 00-0220 Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0221 EA 50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD).....	1,938.19	
32 84 23 00-0222 EA 75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75)	1,197.54	
32 84 23 00-0223 EA Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF)	245.76	36.62
32 84 23 00-0224 EA Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF)	1,057.47	41.85
32 84 23 00-0225 Calsense Controllers (32 84 23 00-0120)		
32 84 23 00-0226 Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0227 EA 6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6).....	2,977.72	104.62
32 84 23 00-0228 EA 8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8).....	3,840.86	117.70
32 84 23 00-0229 EA 12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12).....	5,270.56	130.78
32 84 23 00-0230 EA 16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16).....	5,798.50	130.78
32 84 23 00-0231 EA 24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24).....	6,854.78	143.86
32 84 23 00-0232 EA 32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32).....	8,271.20	143.86
32 84 23 00-0233 EA 40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40).....	9,366.12	156.93
32 84 23 00-0234 EA 48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48).....	10,486.38	156.93
32 84 23 00-0235 EA Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE).....	3,031.12	52.32
32 84 23 00-0236 EA Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE)	1,275.22	52.32

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0237	Irrigation Controller Accessories (32 84 23 00-0225)			
32 84 23 00-0238	EA	Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1)	123.62	
32 84 23 00-0239	EA	Spare Lock For Enclosures (Calsense PAD)	133.92	
32 84 23 00-0240	EA	Hardware And Software For Up To 4 Additional Light Circuits (Calsense L)	160.08	13.08
32 84 23 00-0241	EA	Transformer For Irrigation Controllers (Calsense TR-1)	233.39	52.32
32 84 23 00-0242	EA	AC Line Protection For Irrigation Controllers (Calsense TP-110)	632.56	52.32
32 84 23 00-0243	EA	Transient Protection Board For Irrigation Controller Stations (Calsense TP-1)	838.59	52.32
		<i>For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add</i>	373.81	
32 84 23 00-0244	Sensors For Irrigation Controllers (32 84 23 00-0225)			
32 84 23 00-0245	Flow Sensors (32 84 23 00-0244)			
32 84 23 00-0246	EA	1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5)	1,470.34	78.47
		<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,070.71	
32 84 23 00-0247	EA	2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2)	1,521.85	78.47
		<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,122.22	
32 84 23 00-0248	EA	3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3)	1,573.36	78.47
		<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,173.73	
32 84 23 00-0249	EA	1" Brass Tee Mounted Flow Meter (Calsense FM 1B)	1,741.57	104.62
		<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,341.63	
32 84 23 00-0250	EA	1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B)	1,870.33	104.62
		<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,470.39	
32 84 23 00-0251	EA	1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B)	1,921.84	104.62
		<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,521.90	
32 84 23 00-0252	EA	2" Brass Tee Mounted Flow Meter (Calsense FM 2B)	2,256.63	104.62
		<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,728.51	
32 84 23 00-0253	EA	2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX)	1,752.82	52.32
		<i>Note: For 4" and larger pipe. Excludes pipe saddle.</i>		
		<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,224.70	
32 84 23 00-0254	Moisture Sensors (32 84 23 00-0244)			
32 84 23 00-0255	EA	Soil Moisture Sensor (Calsense 1000-S)	619.29	39.24
32 84 23 00-0256	Weather Sensors (32 84 23 00-0244)			
32 84 23 00-0257	EA	Wind Gage, Irrigation Weather Sensor (Calsense WG-1)	1,690.06	104.62
32 84 23 00-0258	EA	Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1)	1,950.82	209.25
32 84 23 00-0259	EA	ET Gage, Irrigation Weather Sensor (Calsense ETG)	3,854.93	156.93
32 84 23 00-0260	Weather Sensor Accessories (32 84 23 00-0244)			
32 84 23 00-0261	EA	Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C)	1,134.75	
32 84 23 00-0262	EA	Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB)	2,139.12	
32 84 23 00-0263	EA	Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE)	1,134.75	52.32
32 84 23 00-0264	EA	Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE)	2,614.76	52.32
32 84 23 00-0265	Antennas For Irrigation Controllers (32 84 23 00-0225)			
		<i>Note: Excludes antenna cable.</i>		
32 84 23 00-0266	EA	Local Radio Dome Antenna (Calsense LR-DOME)	593.93	52.32
32 84 23 00-0267	EA	Local Radio Stick Antenna (Calsense LR-STICK)	864.34	52.32
32 84 23 00-0268	EA	Local Radio Yagi Antenna (Calsense LR-YAGI)	968.97	104.62
32 84 23 00-0269	EA	Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR)	593.93	52.32
32 84 23 00-0270	EA	Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE)	593.93	52.32
32 84 23 00-0271	EA	GPRS Stubby Antenna (Calsense GR-STUBBY)	593.93	52.32
32 84 23 00-0272	EA	GPRS Stick Antenna (Calsense GR-STICK)	864.34	52.32
32 84 23 00-0273	EA	Spread Spectrum Dome Antenna (Calsense SR-DOME)	593.93	52.32
32 84 23 00-0274	EA	Spread Spectrum Stick Antenna (Calsense SR-STICK)	864.34	52.32
32 84 23 00-0275	EA	Spread Spectrum Yagi Antenna (Calsense SR-YAGI)	968.97	104.62
32 84 23 00-0276	EA	Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR)	593.93	52.32
32 84 23 00-0277	EA	Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE)	593.93	52.32
32 84 23 00-0278	EA	Spread Spectrum Stubby Antenna (Calsense SR-STUBBY)	593.93	52.32
32 84 23 00-0279	EA	WiFi Stubby Antenna (Calsense WEN-STUBBY)	593.93	52.32
32 84 23 00-0280	LF	Antenna Cable With End Connectors (Calsense LMR-400-DB)	16.19	0.63
32 84 23 00-0281	EA	Surge Protection Device For Antenna (Calsense ANT-PROT)	593.14	26.16
32 84 23 00-0282	EA	5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIP5)	967.35	52.32
32 84 23 00-0283	EA	3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM)	836.98	
32 84 23 00-0284	EA	Local Radio Frequency Filter (Calsense LR-FILTER)	1,184.65	
32 84 23 00-0285	EA	Spread Spectrum Frequency Filter (Calsense SR-FILTER)	875.61	
32 84 23 00-0286	Pedestals And Enclosures For Irrigation Controllers (32 84 23 00-0225)			
32 84 23 00-0287	EA	15 Amperes, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER)	543.23	78.47
32 84 23 00-0288	EA	Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX)	1,315.10	130.78
32 84 23 00-0289	EA	Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP)	1,456.66	52.32
		<i>Note: Includes GFI and receptacle.</i>		
32 84 23 00-0290	EA	Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1)	1,739.55	39.24
		<i>Note: Includes factory installed transient protection board and AC line protection.</i>		



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0291 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE) Note: Includes factory installed transient protection board and AC line protection.	5,449.77	39.24
32 84 23 00-0292 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R) Note: Includes factory installed transient protection board, AC line protection and dome antenna.	6,156.23	39.24
32 84 23 00-0293 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D) Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.	8,932.92	78.47
32 84 23 00-0294 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R) Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.	9,363.11	78.47
32 84 23 00-0295 EA Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM)	307.10	
32 84 23 00-0296 EA Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED)	992.71	
32 84 23 00-0297 Central Computer For Irrigation Control Systems (32 84 23 00-0225)		
32 84 23 00-0298 EA Central Computer For Irrigation Control Systems (Calsense COMP-2) Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.	6,870.69	
32 84 23 00-0299 EA Command Center Water Management Software For Central Computer (Calsense COMM-1)	12,161.80	
32 84 23 00-0300 EA Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5) Note: Package price for up to 5 users. Includes remote communication through internet connection.	2,334.99	
32 84 23 00-0301 EA >5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10) Note: Package price for 6 to 10 users. Includes remote communication through internet connection.	4,596.72	
32 84 23 00-0302 EA Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2)	7,400.94	
32 84 23 00-0303 EA GPRS Radio For Use At Central Computer (Calsense DTR-G)	4,424.87	
32 84 23 00-0304 Data Access Service (32 84 23 00-0225)		
32 84 23 00-0305 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN) Note: For communication between GPRS unit and up to 2 controllers.	37.46	
32 84 23 00-0306 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR) Note: For communication between GPRS unit and up to 2 controllers.	409.71	
32 84 23 00-0307 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR) Note: For communication between GPRS unit and up to 2 controllers.	1,755.90	
32 84 23 00-0308 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M) Note: For communication between GPRS unit and multiple controllers.	152.18	
32 84 23 00-0309 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M) Note: For communication between GPRS unit and multiple controllers.	1,638.84	
32 84 23 00-0310 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M) Note: For communication between GPRS unit and multiple controllers.	7,023.60	
32 84 23 00-0311 Communication Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0312 EA FCC License Fee (Calsense)	251.32	
32 84 23 00-0313 EA P.C.I.A. And/or A.P.C.O. Fee (Calsense) Note: Per frequency or frequency pair.	485.44	
32 84 23 00-0314 EA Hardware Communication Option For Irrigation Controllers (Calsense M) Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.	1,357.90	
32 84 23 00-0315 EA Phone Line Communication Option For Irrigation Controllers (Calsense R)	1,428.13	
32 84 23 00-0316 EA Ethernet Communication Option For Irrigation Controllers (Calsense EN)	1,428.13	
32 84 23 00-0317 EA WiFi Communication Option For Irrigation Controllers (Calsense WEN)	2,926.50	
32 84 23 00-0318 EA Local Radio Communication Option For Irrigation Controllers (Calsense LR)	3,722.51	
32 84 23 00-0319 EA Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR)	3,722.51	
32 84 23 00-0320 EA GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR)	3,722.51	
32 84 23 00-0321 EA Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM)	11,940.12	
32 84 23 00-0322 EA Communication Hub For Irrigation Controllers (Calsense HUB) Note: Accepts up to two communication options. Excludes communication options.	4,600.10	
32 84 23 00-0323 Retrofit Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0324 Weather Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0325 EA Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO)	1,825.40	
32 84 23 00-0326 EA Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO)	1,825.40	
32 84 23 00-0327 EA Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO)	1,825.40	
32 84 23 00-0328 EA Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO)	1,825.40	
32 84 23 00-0329 Phone Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0330 EA Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO) 32 84 23 00-0331 EA Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO)	1,919.05 2,270.23	
32 84 23 00-0332 EA Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO)	3,639.83	
32 84 23 00-0333 Local Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0334 EA Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO) 32 84 23 00-0335 EA Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO)	2,153.17 4,541.19	
32 84 23 00-0336 EA Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO)	5,899.09	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0337		Spread Spectrum Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0338	EA	Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-RETRO).....	2,153.17	
32 84 23 00-0339	EA	Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR-RETRO).....	4,541.19	
32 84 23 00-0340	EA	Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO)	5,899.09	
32 84 23 00-0341		Ethernet Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0342	EA	Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-RETRO).....	2,153.17	
32 84 23 00-0343	EA	Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO).....	2,270.23	
32 84 23 00-0344	EA	Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO)	3,639.83	
32 84 23 00-0345		GPRS Radio Modem Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0346	EA	Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO).....	2,153.17	
32 84 23 00-0347	EA	Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO).....	4,541.19	
32 84 23 00-0348	EA	Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO)	5,899.09	
32 84 23 00-0349		Radio Remote Units For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0350	EA	Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRe-TRAN).....	2,164.88	
32 84 23 00-0351	EA	Calsense Integrated Board (Calsense RR/RRe)..... Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.	463.56	
32 84 23 00-0352	EA	Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG)	199.00	
32 84 23 00-0353	EA	Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT)	353.93	
32 84 23 00-0354	EA	Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT)..... Note: Excludes antenna cable.	225.16	13.08
32 84 23 00-0355	EA	Whip Antenna For Radio Remote Receiver Board (Calsense RRe-WHIP)..... Note: Excludes antenna cable.	435.87	13.08
32 84 23 00-0356	EA	Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome)	470.99	13.08
32 84 23 00-0357		Hydro-Safe WeatherTrak Controllers (32 84 23 00-0120)		
32 84 23 00-0358		Front Entry Pedestal Irrigation Controllers (32 84 23 00-0357) Note: HydroPoint WeatherTrak ETPro2 Commercial controller assembly in StrongBox SB-18SS enclosure.		
32 84 23 00-0359	EA	12 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS1-WTPRO2SC12S).....	9,238.80	130.78
32 84 23 00-0360	EA	18 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS1-WTPRO2SC18S).....	9,833.97	130.78
32 84 23 00-0361	EA	24 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS1-WTPRO2SC24S).....	10,455.30	143.86
32 84 23 00-0362	EA	30 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS1-WTPRO2SC30S).....	11,174.47	143.86
32 84 23 00-0363	EA	36 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS1-WTPRO2SC36S).....	11,769.65	143.86
32 84 23 00-0364	EA	42 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS1-WTPRO2SC42S).....	12,366.18	156.93
32 84 23 00-0365	EA	48 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS1-WTPRO2SC48S).....	12,961.36	156.93
32 84 23 00-0366		Back-to-Back Dual Irrigation Controllers (32 84 23 00-0357) Note: HydroPoint WeatherTrak ETPro2 Dual back-to-back controller assembly in StrongBox SB-18DSS enclosure.		
32 84 23 00-0367	EA	12+18 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC1218S)....	17,053.19	156.93
32 84 23 00-0368	EA	12+24 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC1224S)....	17,623.57	156.93
32 84 23 00-0369	EA	12+36 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC1236S)....	18,905.37	177.86
32 84 23 00-0370	EA	12+42 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC1242S)....	19,574.94	177.86
32 84 23 00-0371	EA	18+24 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC1824S)....	18,218.75	156.93
32 84 23 00-0372	EA	18+36 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC1836S)....	19,574.94	177.86
32 84 23 00-0373	EA	18+42 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC1842S)....	20,170.12	177.86
32 84 23 00-0374	EA	24+24 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC2424S)....	18,855.77	177.86
32 84 23 00-0375	EA	24+36 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC2436S)....	20,170.12	177.86
32 84 23 00-0376	EA	24+42 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC2442S)....	20,782.36	198.79
32 84 23 00-0377	EA	36+36 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC3636S)....	21,526.33	198.79
32 84 23 00-0378	EA	36+42 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC3642S)....	22,096.70	198.79
32 84 23 00-0379	EA	42+42 Back-to-back Dual Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS5-WTPRO2SC4242S)....	22,733.72	219.71
32 84 23 00-0380		Wall Mount/Retrofit Mount Irrigation Controllers (32 84 23 00-0357) Note: HydroPoint WeatherTrak ETPro2 wall mount / retrofit controller assembly.		
32 84 23 00-0381	EA	12 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS718-WTPRO2SC12S).....	5,642.94	130.78
32 84 23 00-0382	EA	18 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS718-WTPRO2SC18S).....	6,138.92	130.78
32 84 23 00-0383	EA	24 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS718-WTPRO2SC24S).....	6,760.25	143.86
32 84 23 00-0384	EA	30 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS718-WTPRO2SC30S).....	7,479.42	143.86
32 84 23 00-0385	EA	36 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS718-WTPRO2SC36S).....	8,074.60	143.86
32 84 23 00-0386	EA	42 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS718-WTPRO2SC42S).....	8,695.93	156.93



Exterior Improvements		32	32
Irrigation		32 80	
Planting Irrigation		32 84	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0387			Top Mount Irrigation Controllers (32 84 23 00-0357) Note: HydroPoint WeatherTrak ETPro2 stainless steel top mount controller assembly.		
32 84 23 00-0388	EA		12 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS16-WTPRO2SC12S).....	9,833.97	130.78
32 84 23 00-0389	EA		18 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS16-WTPRO2SC18S).....	10,429.15	130.78
32 84 23 00-0390	EA		24 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS16-WTPRO2SC24S).....	11,075.27	143.86
32 84 23 00-0391	EA		30 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS16-WTPRO2SC30S).....	11,769.65	143.86
32 84 23 00-0392	EA		36 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS16-WTPRO2SC36S).....	12,364.82	143.86
32 84 23 00-0393	EA		42 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS16-WTPRO2SC42S).....	12,986.16	156.93
32 84 23 00-0394	EA		48 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS16-WTPRO2SC48S).....	13,556.54	156.93
32 84 23 00-0395			Wall Mount Irrigation Controllers (32 84 23 00-0357) Note: HydroPoint WeatherTrak ETPro2 stainless steel wall mount controller assembly.		
32 84 23 00-0396	EA		12 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS7-WTPRO2SC12S).....	7,279.68	130.78
32 84 23 00-0397	EA		18 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS7-WTPRO2SC18S).....	7,874.85	130.78
32 84 23 00-0398	EA		24 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS7-WTPRO2SC24S).....	8,496.18	143.86
32 84 23 00-0399	EA		30 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS7-WTPRO2SC30S).....	9,215.35	143.86
32 84 23 00-0400	EA		36 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS7-WTPRO2SC36S).....	9,810.53	143.86
32 84 23 00-0401	EA		42 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS7-WTPRO2SC42S).....	10,431.86	156.93
32 84 23 00-0402	EA		48 Station Irrigation Controller (HydroPoint WeatherTrak ETPro2 HS7-WTPRO2SC48S).....	11,002.24	156.93
32 84 23 00-0403			Accessories (32 84 23 00-0357)		
32 84 23 00-0404	EA		WeatherTRAK Central Internet Management Upgrade (HydroPoint WTEXB-PRO2-CIM).....	2,703.33	
32 84 23 00-0405	EA		Central Pancake Antenna (HydroPoint ANT-GRPS-PC).....	415.22	
32 84 23 00-0406	EA		Central Antenna Amplifier Kit (HydroPoint ANT-AMP-C-Kit).....	3,397.71	
32 84 23 00-0407	EA		Central Antenna Amplifier Kit With YAGI Antenna (HydroPoint ANT-AMP-C-Yagi-Kit).....	4,451.66	
32 84 23 00-0408	EA		6-Station Key - ET PRO2 Smart Water Manager Series (HydroPoint WTPRO2S-6STA-KEY).....	845.34	
32 84 23 00-0409	EA		24-Station Output Board - ET PRO2 Smart Water Manager Series (HydroPoint WTPRO2S-STA-EXT-BRD).....	1,240.19	
32 84 23 00-0410			Satellite Irrigation Controllers (Rain Bird® ESP-SAT) (32 84 23 00-0120) Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0411	EA		12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS).....	5,082.39	235.41
32 84 23 00-0412	EA		24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS).....	5,359.84	248.49
32 84 23 00-0413	EA		40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS).....	7,441.21	261.56
32 84 23 00-0414			LEIT Controllers (32 84 23 00-0120)		
32 84 23 00-0415			LEIT X Series Irrigation Controller (32 84 23 00-0414)		
32 84 23 00-0416	EA		10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	4,776.27	41.85
32 84 23 00-0417	EA		12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	5,240.29	41.85
32 84 23 00-0418	EA		16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	5,999.10	41.85
32 84 23 00-0419	EA		20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	6,757.92	41.85
32 84 23 00-0420	EA		24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	7,295.18	41.85
32 84 23 00-0421	EA		28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	7,832.44	41.85
32 84 23 00-0422			LEIT X Series Irrigation Controller Assembly (32 84 23 00-0414) Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0423	EA		10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,408.84	215.69
32 84 23 00-0424	EA		12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,872.86	215.69
32 84 23 00-0425	EA		16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	6,631.67	215.69
32 84 23 00-0426	EA		20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	7,390.49	215.69
32 84 23 00-0427	EA		24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	7,927.75	215.69
32 84 23 00-0428	EA		28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	8,465.01	215.69
32 84 23 00-0429			Enclosure For LEIT Controller Assembly (32 84 23 00-0414) Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0430	EA		12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch Note: For LEIT Controller	3,647.07	280.15
32 84 23 00-0431			Hunter Controllers (32 84 23 00-0120)		
32 84 23 00-0432			Hunter XC Hybrid Controller (32 84 23 00-0431) Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0433	EA		6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS).....	796.26	104.62
32 84 23 00-0434	EA		12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS).....	1,012.99	130.78
32 84 23 00-0435			DC Latching Solenoid (32 84 23 00-0120)		
32 84 23 00-0436	EA		DC Latching Solenoid (Micro Power Solenoid) For Non-LEIT Controllers Note: As per manufacture of valve.	45.24	
32 84 23 00-0437	EA		DC Solenoid For LEIT Controllers (DIG S-305DC).....	70.19	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0438	Irrigation Controller Enclosure Cabinet (32 84 23 00-0120) Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.			
32 84 23 00-0439	EA	35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,544.98	575.06
32 84 23 00-0440	EA	35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,825.07	627.35
32 84 23 00-0441	EA	35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	4,225.56	679.62
32 84 23 00-0442	EA	35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet, ...	3,545.01	575.06
32 84 23 00-0443	EA	35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	3,825.07	627.35
32 84 23 00-0444	EA	35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	4,225.56	679.62
32 84 23 00-0445	EA	35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,393.05	575.06
32 84 23 00-0446	EA	35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,779.11	627.35
32 84 23 00-0447	EA	35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	5,179.61	679.62
32 84 23 00-0448	Irrigation Valves (32 84 23)			
32 84 23 00-0449	Reduced Pressure Zone Valves With QT Shut-Offs (32 84 23 00-0448) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).			
32 84 23 00-0450	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series).....	913.23	45.83
32 84 23 00-0451	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,083.10	55.97
32 84 23 00-0452	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,642.41	65.13
32 84 23 00-0453	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,734.92	74.78
32 84 23 00-0454	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	2,079.55	96.49
32 84 23 00-0455	Brass Quick-Coupling Irrigation Valves (32 84 23 00-0448)			
32 84 23 00-0456	EA	3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC).....	166.55	39.98
		For Valve Key, Add	44.62	
32 84 23 00-0457	EA	3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC).....	171.71	39.98
		For Locking Cover, Add	25.00	
		For Valve Key, Add	44.62	
32 84 23 00-0458	EA	1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC).....	228.47	39.98
		For Valve Key, Add	114.12	
32 84 23 00-0459	EA	1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC).....	249.11	39.98
		For Valve Key, Add	114.12	
32 84 23 00-0460	EA	1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP).....	239.39	39.98
32 84 23 00-0461	EA	1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP).....	249.11	39.98
32 84 23 00-0462	Anti-Siphon Pressure Type Vacuum Breaker (32 84 23 00-0448) Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.			
32 84 23 00-0463	EA	3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	313.60	33.77
32 84 23 00-0464	EA	1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	451.09	38.59
32 84 23 00-0465	EA	1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	822.68	44.62
32 84 23 00-0466	EA	1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	1,002.41	49.45
32 84 23 00-0467	EA	2" Anti-Siphon Pressure Type Vacuum Breaker	1,009.40	60.31
32 84 23 00-0468	Aluminum Cam And Groove Adapter (32 84 23 00-0448)			
32 84 23 00-0469	EA	1-1/2" Diameter Type A Aluminum Cam And Groove Male Adapter x 1-1/2" Diameter NPT Female Pipe Thread.....	43.71	
32 84 23 00-0470	EA	2" Diameter Type A Aluminum Cam And Groove Male Adapter x 2" Diameter NPT Female Pipe Thread.....	46.18	
32 84 23 00-0471	EA	1-1/2" Diameter Type F Aluminum Cam And Groove Male Adapter x 1-1/2" Diameter NPT Male Pipe Thread	45.05	
32 84 23 00-0472	EA	2" Diameter Type F Aluminum Cam And Groove Male Adapter x 2" Diameter NPT Male Pipe Thread	48.68	
32 84 23 00-0473	Manual Sprinkler Control Valves (32 84 23 00-0448)			
32 84 23 00-0474	EA	3/4" Manual Sprinkler Control Valves, With Union.....	105.77	32.56
32 84 23 00-0475	EA	1" Manual Sprinkler Control Valves, With Union.....	128.94	34.98
32 84 23 00-0476	EA	1-1/4" Manual Sprinkler Control Valves, With Union.....	199.04	44.26
32 84 23 00-0477	EA	1-1/2" Manual Sprinkler Control Valves, With Union.....	236.15	51.02
32 84 23 00-0478	EA	2" Manual Sprinkler Control Valves, With Union.....	317.91	60.31
32 84 23 00-0479	Irrigation Piping (32 84 23)			
32 84 23 00-0480	Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0479) Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.			
32 84 23 00-0481	Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0480)			
32 84 23 00-0482	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.30	1.11
		For >1,000, Deduct	-0.17	
32 84 23 00-0483	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.01	1.39
		For >1,000, Deduct	-0.20	
32 84 23 00-0484	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.82	1.66
		For >1,000, Deduct	-0.24	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0485	LF	1-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	6.37	2.11
			For >1,000, Deduct	-0.32	
32 84 23 00-0486	LF	2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	7.97	2.64
			For >1,000, Deduct	-0.40	
32 84 23 00-0487	LF	2-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	10.14	3.09
			For >1,000, Deduct	-0.51	
32 84 23 00-0488	LF	3"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	13.88	4.44
			For >1,000, Deduct	-0.69	
32 84 23 00-0489	LF	4"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	18.10	5.55
			For >1,000, Deduct	-0.91	
32 84 23 00-0490	LF	6"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	25.73	6.94
			For >1,000, Deduct	-1.29	
32 84 23 00-0491 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0480)					
32 84 23 00-0492	LF	3/4"	Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	3.79	1.39
			For >1,000, Deduct	-0.19	
32 84 23 00-0493	LF	1"	Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	4.46	1.66
			For >1,000, Deduct	-0.22	
32 84 23 00-0494	LF	1-1/2"	Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	6.12	2.11
			For >1,000, Deduct	-0.31	
32 84 23 00-0495	LF	2"	Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	7.76	2.64
			For >1,000, Deduct	-0.39	
32 84 23 00-0496	LF	2-1/2"	Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	9.81	3.09
			For >1,000, Deduct	-0.49	
32 84 23 00-0497	LF	3"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	13.76	4.44
			For >1,000, Deduct	-0.69	
32 84 23 00-0498	LF	4"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	18.78	5.55
			For >1,000, Deduct	-0.94	
32 84 23 00-0499	LF	6"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	30.03	6.94
			For >1,000, Deduct	-1.50	
32 84 23 00-0500 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0480)					
32 84 23 00-0501	LF	3/4"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.98	1.39
			For >1,000, Deduct	-0.20	
32 84 23 00-0502	LF	1"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.71	1.66
			For >1,000, Deduct	-0.24	
32 84 23 00-0503	LF	1-1/2"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	6.59	2.11
			For >1,000, Deduct	-0.33	
32 84 23 00-0504	LF	2"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	8.55	2.64
			For >1,000, Deduct	-0.43	
32 84 23 00-0505	LF	2-1/2"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	11.08	3.09
			For >1,000, Deduct	-0.55	
32 84 23 00-0506	LF	3"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	13.88	4.44
			For >1,000, Deduct	-0.69	
32 84 23 00-0507	LF	4"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	18.10	5.55
			For >1,000, Deduct	-0.91	
32 84 23 00-0508	LF	6"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	26.15	6.94
			For >1,000, Deduct	-1.31	
32 84 23 00-0509 Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted (32 84 23 00-0479)					
Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.					
32 84 23 00-0510 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0509)					
32 84 23 00-0511	LF	3/4"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.22	1.39
			For >1,000, Deduct	-0.31	
32 84 23 00-0512	LF	1"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.05	1.66
			For >1,000, Deduct	-0.35	
32 84 23 00-0513	LF	1-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	8.59	2.11
			For >1,000, Deduct	-0.43	
32 84 23 00-0514	LF	2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	10.19	2.64
			For >1,000, Deduct	-0.51	
32 84 23 00-0515	LF	2-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	12.35	3.09
			For >1,000, Deduct	-0.62	
32 84 23 00-0516	LF	3"	Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	16.11	4.44
			For >1,000, Deduct	-0.81	
32 84 23 00-0517	LF	4"	Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	20.30	5.55
			For >1,000, Deduct	-1.02	
32 84 23 00-0518	LF	6"	Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	27.93	6.94
			For >1,000, Deduct	-1.40	
32 84 23 00-0519 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0509)					
32 84 23 00-0520	LF	3/4"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.50	1.39
			For >1,000, Deduct	-0.33	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0521	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.31	1.66
		<i>For >1,000, Deduct</i>	-0.37	
32 84 23 00-0522	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	8.86	2.11
		<i>For >1,000, Deduct</i>	-0.44	
32 84 23 00-0523	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.46	2.64
		<i>For >1,000, Deduct</i>	-0.52	
32 84 23 00-0524	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	12.62	3.09
		<i>For >1,000, Deduct</i>	-0.63	
32 84 23 00-0525	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	16.37	4.44
		<i>For >1,000, Deduct</i>	-0.82	
32 84 23 00-0526	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	20.58	5.55
		<i>For >1,000, Deduct</i>	-1.03	
32 84 23 00-0527	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	28.20	6.94
		<i>For >1,000, Deduct</i>	-1.41	
32 84 23 00-0528 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0509)				
32 84 23 00-0529	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.76	1.39
		<i>For >1,000, Deduct</i>	-0.34	
32 84 23 00-0530	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	7.59	1.66
		<i>For >1,000, Deduct</i>	-0.38	
32 84 23 00-0531	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	9.13	2.11
		<i>For >1,000, Deduct</i>	-0.46	
32 84 23 00-0532	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	10.73	2.64
		<i>For >1,000, Deduct</i>	-0.54	
32 84 23 00-0533	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	12.89	3.09
		<i>For >1,000, Deduct</i>	-0.64	
32 84 23 00-0534	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	16.65	4.44
		<i>For >1,000, Deduct</i>	-0.83	
32 84 23 00-0535	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	20.84	5.55
		<i>For >1,000, Deduct</i>	-1.04	
32 84 23 00-0536	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	28.47	6.94
		<i>For >1,000, Deduct</i>	-1.42	
32 84 23 00-0537 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0509)				
32 84 23 00-0538	LF	3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.10	1.39
		<i>For >1,000, Deduct</i>	-0.31	
32 84 23 00-0539	LF	1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.86	1.66
		<i>For >1,000, Deduct</i>	-0.34	
32 84 23 00-0540	LF	1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	8.60	2.11
		<i>For >1,000, Deduct</i>	-0.43	
32 84 23 00-0541	LF	2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	10.57	2.64
		<i>For >1,000, Deduct</i>	-0.53	
32 84 23 00-0542	LF	2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	12.97	3.09
		<i>For >1,000, Deduct</i>	-0.65	
32 84 23 00-0543	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	15.98	4.44
		<i>For >1,000, Deduct</i>	-0.80	
32 84 23 00-0544	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	20.99	5.55
		<i>For >1,000, Deduct</i>	-1.05	
32 84 23 00-0545	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	32.24	6.94
		<i>For >1,000, Deduct</i>	-1.61	
32 84 23 00-0546 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0509)				
32 84 23 00-0547	LF	3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.38	1.39
		<i>For >1,000, Deduct</i>	-0.32	
32 84 23 00-0548	LF	1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.12	1.66
		<i>For >1,000, Deduct</i>	-0.36	
32 84 23 00-0549	LF	1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	8.87	2.11
		<i>For >1,000, Deduct</i>	-0.44	
32 84 23 00-0550	LF	2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.84	2.64
		<i>For >1,000, Deduct</i>	-0.54	
32 84 23 00-0551	LF	2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	13.24	3.09
		<i>For >1,000, Deduct</i>	-0.66	
32 84 23 00-0552	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	16.24	4.44
		<i>For >1,000, Deduct</i>	-0.81	
32 84 23 00-0553	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	21.27	5.55
		<i>For >1,000, Deduct</i>	-1.06	
32 84 23 00-0554	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	32.51	6.94
		<i>For >1,000, Deduct</i>	-1.63	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0555			Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0509)		
32 84 23 00-0556	LF		3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 6.64		1.39
			For >1,000, Deduct -0.33		
32 84 23 00-0557	LF		1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 7.40		1.66
			For >1,000, Deduct -0.37		
32 84 23 00-0558	LF		1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 9.14		2.11
			For >1,000, Deduct -0.46		
32 84 23 00-0559	LF		2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 11.11		2.64
			For >1,000, Deduct -0.56		
32 84 23 00-0560	LF		2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 13.51		3.09
			For >1,000, Deduct -0.68		
32 84 23 00-0561	LF		3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 16.52		4.44
			For >1,000, Deduct -0.83		
32 84 23 00-0562	LF		4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 21.53		5.55
			For >1,000, Deduct -1.08		
32 84 23 00-0563	LF		6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 32.78		6.94
			For >1,000, Deduct -1.64		
32 84 23 00-0564			Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0509)		
32 84 23 00-0565	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted 6.18		1.39
			For >1,000, Deduct -0.31		
32 84 23 00-0566	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted 6.93		1.66
			For >1,000, Deduct -0.35		
32 84 23 00-0567	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted 8.81		2.11
			For >1,000, Deduct -0.44		
32 84 23 00-0568	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted 10.76		2.64
			For >1,000, Deduct -0.54		
32 84 23 00-0569	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted 13.29		3.09
			For >1,000, Deduct -0.66		
32 84 23 00-0570	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted 16.11		4.44
			For >1,000, Deduct -0.81		
32 84 23 00-0571	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted 20.30		5.55
			For >1,000, Deduct -1.02		
32 84 23 00-0572	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted 28.35		6.94
			For >1,000, Deduct -1.42		
32 84 23 00-0573			Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0509)		
32 84 23 00-0574	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted 6.46		1.39
			For >1,000, Deduct -0.32		
32 84 23 00-0575	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted 7.19		1.66
			For >1,000, Deduct -0.36		
32 84 23 00-0576	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted 9.08		2.11
			For >1,000, Deduct -0.45		
32 84 23 00-0577	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted 11.03		2.64
			For >1,000, Deduct -0.55		
32 84 23 00-0578	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted 13.56		3.09
			For >1,000, Deduct -0.68		
32 84 23 00-0579	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted 16.37		4.44
			For >1,000, Deduct -0.82		
32 84 23 00-0580	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted 20.58		5.55
			For >1,000, Deduct -1.03		
32 84 23 00-0581	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted 28.62		6.94
			For >1,000, Deduct -1.43		
32 84 23 00-0582			Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0509)		
32 84 23 00-0583	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 6.72		1.39
			For >1,000, Deduct -0.34		
32 84 23 00-0584	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 7.47		1.66
			For >1,000, Deduct -0.37		
32 84 23 00-0585	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 9.35		2.11
			For >1,000, Deduct -0.47		
32 84 23 00-0586	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 11.30		2.64
			For >1,000, Deduct -0.57		
32 84 23 00-0587	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted 13.83		3.09
			For >1,000, Deduct -0.69		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0588	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	16.65	4.44
		<i>For >1,000, Deduct</i>	-0.83	
32 84 23 00-0589	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	20.84	5.55
		<i>For >1,000, Deduct</i>	-1.04	
32 84 23 00-0590	LF	6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	28.89	6.94
		<i>For >1,000, Deduct</i>	-1.44	
32 84 23 00-0591		Irrigation Riser Piping With Fittings (32 84 23 00-0479)		
32 84 23 00-0592	EA	1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV	20.60	3.33
		Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0593	EA	3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV	22.06	4.17
		Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0594	EA	1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV	21.94	3.89
		Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0595	EA	3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV	23.71	4.85
		Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0596	EA	1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I	44.29	5.83
		Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0597	EA	3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I	46.81	7.29
		Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0598	EA	1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I	51.91	7.49
		Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0599	EA	3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I	55.16	9.38
		Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0600	EA	1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I	59.55	9.16
		Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0601	EA	3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I	63.51	11.46
		Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0602		Irrigation Crossover Piping With Fittings (32 84 23 00-0479)		
		Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0646 for irrigation wiring.		
32 84 23 00-0603		Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench (32 84 23 00-0602)		
32 84 23 00-0604	LF	6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation	36.58	
		<i>For >1,000, Deduct</i>	-1.83	
32 84 23 00-0605	LF	8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation	50.86	
		<i>For >1,000, Deduct</i>	-2.54	
32 84 23 00-0606	LF	10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation	69.20	
		<i>For >1,000, Deduct</i>	-3.46	
32 84 23 00-0607	LF	12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation	90.70	
		<i>For >1,000, Deduct</i>	-4.54	
32 84 23 00-0608		Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench (32 84 23 00-0602)		
32 84 23 00-0609	LF	6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	37.39	
		<i>For >1,000, Deduct</i>	-1.87	
32 84 23 00-0610	LF	8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	51.76	
		<i>For >1,000, Deduct</i>	-2.59	
32 84 23 00-0611	LF	10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	70.19	
		<i>For >1,000, Deduct</i>	-3.51	
32 84 23 00-0612	LF	12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	91.78	
		<i>For >1,000, Deduct</i>	-4.59	
32 84 23 00-0613		Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 48" Open Trench (32 84 23 00-0602)		
32 84 23 00-0614	LF	6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation	38.20	
		<i>For >1,000, Deduct</i>	-1.91	
32 84 23 00-0615	LF	8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	52.67	
		<i>For >1,000, Deduct</i>	-2.63	
32 84 23 00-0616	LF	10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	71.18	
		<i>For >1,000, Deduct</i>	-3.56	
32 84 23 00-0617	LF	12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	92.86	
		<i>For >1,000, Deduct</i>	-4.64	
32 84 23 00-0618		Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore (32 84 23 00-0602)		
32 84 23 00-0619	LF	6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation	100.91	
		<i>For >1,000, Deduct</i>	-5.05	
32 84 23 00-0620	LF	8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation	128.20	
		<i>For >1,000, Deduct</i>	-6.41	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
32 84 23 00-0621	LF	10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	152.96	-7.65	
32 84 23 00-0622	LF	12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	180.86	-9.04	
32 84 23 00-0623		Below Ground Cam Adapter Assembly (32 84 23 00-0479) Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe			
32 84 23 00-0624	EA	Below Ground Cam Adapter Assembly Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	753.05		
32 84 23 00-0625		Above Ground Cam Adapter Assembly (32 84 23 00-0479) Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe			
32 84 23 00-0626	EA	Above Ground Cam Adapter Assembly Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	461.87		
32 84 23 00-0627		Thrust Block (32 84 23 00-0479)			
32 84 23 00-0628	EA	Thrust Block For 1-1/2" Pipe Size And Smaller	39.17		
32 84 23 00-0629	EA	Thrust Block For 2" Pipe	66.91		
32 84 23 00-0630	EA	Thrust Block For 3" And 4" Pipe	94.63		
32 84 23 00-0631	EA	Thrust Block For 6" Pipe	150.82		
32 84 23 00-0632	EA	Thrust Block For 8" Pipe	213.33		
32 84 23 00-0633		Irrigation Swing Joints (32 84 23)			
32 84 23 00-0634	EA	3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075)	63.50		22.11
32 84 23 00-0635	EA	1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12)	72.23		24.68
32 84 23 00-0636	EA	1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS)	96.51		24.68
32 84 23 00-0637	EA	1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	46.71		28.81
		Note: Consists of three threaded 90-degree elbows and 12" threaded pipe.			
32 84 23 00-0638	EA	3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	62.43		38.43
		Note: Consists of three threaded 90-degree elbows and 12" threaded pipe.			
32 84 23 00-0639	EA	1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	78.74		47.12
		Note: Consists of three threaded 90-degree elbows and 12" threaded pipe.			
32 84 23 00-0640	EA	1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type II	66.32		29.26
		Note: Consists of one threaded 90-degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.			
32 84 23 00-0641	EA	3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type II	87.71		38.81
		Note: Consists of one threaded 90-degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.			
32 84 23 00-0642	EA	1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type II	108.01		47.60
		Note: Consists of one threaded 90-degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.			
32 84 23 00-0643	EA	1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	37.57		17.92
		Note: Consists of two street 90-degree elbows.			
32 84 23 00-0644	EA	3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	50.22		23.89
		Note: Consists of two street 90-degree elbows.			
32 84 23 00-0645	EA	1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	59.84		29.62
		Note: Consists of two street 90-degree elbows.			
32 84 23 00-0646		Irrigation Control Wire (32 84 23) Note: Excludes excavation and backfill.			
32 84 23 00-0647		18 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0646)			
32 84 23 00-0648	CLF	1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	54.98		16.66
32 84 23 00-0649	CLF	2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	72.57		19.44
32 84 23 00-0650	CLF	3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	83.53		22.22
32 84 23 00-0651	CLF	4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	95.72		24.99
32 84 23 00-0652	CLF	5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	109.07		27.77
32 84 23 00-0653	CLF	6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	130.90		30.54
32 84 23 00-0654	CLF	7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	151.78		33.32
32 84 23 00-0655	CLF	8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	164.94		36.09
32 84 23 00-0656	CLF	9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	181.26		38.87
32 84 23 00-0657	CLF	10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	200.07		41.65
32 84 23 00-0658	CLF	11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	206.80		44.42
32 84 23 00-0659	CLF	12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	214.76		47.20
32 84 23 00-0660	CLF	13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	226.55		49.98
32 84 23 00-0661		16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0646)			
32 84 23 00-0662	CLF	1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench	58.18		16.66

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0663		14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0646)		
32 84 23 00-0664	CLF	1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench	58.19	16.66
32 84 23 00-0665		12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0646)		
32 84 23 00-0666	CLF	1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	79.35	16.66
32 84 23 00-0667		10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0646)		
32 84 23 00-0668	CLF	1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	106.17	16.66
32 84 23 00-0669		Root Watering Systems (32 84 23)		
		Note: Includes swing assembly.		
32 84 23 00-0670	EA	0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401).....	102.34	22.22
		For Root Watering Sand Sock, Add	5.43	
32 84 23 00-0671	EA	0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401)	110.38	22.22
		For Root Watering Sand Sock, Add	5.43	
32 84 23 00-0672	EA	0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402).....	102.34	22.22
		For Root Watering Sand Sock, Add	5.43	
32 84 23 00-0673	EA	0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402)	110.38	22.22
		For Root Watering Sand Sock, Add	5.43	
32 84 23 00-0674	EA	1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404)	110.38	22.22
		For Root Watering Sand Sock, Add	5.43	
32 84 23 00-0675	EA	0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401).....	88.83	19.44
		For Root Watering Sand Sock, Add	4.88	
32 84 23 00-0676	EA	0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401)	96.54	19.44
		For Root Watering Sand Sock, Add	4.88	
32 84 23 00-0677	EA	0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402).....	88.83	19.44
		For Root Watering Sand Sock, Add	4.88	
32 84 23 00-0678	EA	0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402)	96.54	19.44
		For Root Watering Sand Sock, Add	4.88	
32 84 23 00-0679	EA	0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401)	59.90	16.66
		For Root Watering Sand Sock, Add	4.33	
32 84 23 00-0680	EA	0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401)	67.24	16.66
		For Root Watering Sand Sock, Add	4.33	

32 90 Planting (32)

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar or cultivated varieties. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

32 91 Planting Preparation (32 90)**32 91 13 Soil Preparation** (32 91)**32 91 13 16 Mulching** (32 91 13)

32 91 13 16-0001		Mulch (32 91 13 16)		
		Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.		
32 91 13 16-0002	CY	Pine Bark Nugget Mulch	129.43	
		For >5 To 20, Deduct	-10.56	
		For >20 To 50, Deduct	-15.83	
		For >50, Deduct	-22.31	
		For Work On Slopes >2.5:1, Add	16.34	
32 91 13 16-0003	CY	Hardwood Bark Nugget Mulch	127.52	
		For >5 To 20, Deduct	-10.46	
		For >20 To 50, Deduct	-15.69	
		For >50, Deduct	-22.07	
		For Work On Slopes >2.5:1, Add	16.34	
32 91 13 16-0004	CY	Pine Wood Chip Mulch	123.70	
		For >5 To 20, Deduct	-10.27	
		For >20 To 50, Deduct	-15.41	
		For >50, Deduct	-21.59	
		For Work On Slopes >2.5:1, Add	16.34	
32 91 13 16-0005	CY	Hardwood Chip Mulch	131.34	
		For >5 To 20, Deduct	-10.65	
		For >20 To 50, Deduct	-15.98	
		For >50, Deduct	-22.55	
		For Work On Slopes >2.5:1, Add	16.34	
32 91 13 16-0006	CY	Shredded Hardwood Mulch	131.34	
		For >5 To 20, Deduct	-10.65	
		For >20 To 50, Deduct	-15.98	
		For >50, Deduct	-22.55	
		For Work On Slopes >2.5:1, Add	16.34	



Exterior Improvements			32
Planting			32 90
Planting Preparation			32 91

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0007	CY		Shredded Pine Mulch	114.16	
			For >5 To 20, Deduct	-9.79	
			For >20 To 50, Deduct	-14.69	
			For >50, Deduct	-20.40	
			For Work On Slopes >2.5:1, Add	16.34	
32 91 13 16-0008	CY		Shredded Cedar Mulch	151.39	
			For >5 To 20, Deduct	-11.65	
			For >20 To 50, Deduct	-17.48	
			For >50, Deduct	-25.05	
			For Work On Slopes >2.5:1, Add	16.34	
32 91 13 16-0009	CY		Shredded Cypress Mulch	148.52	
			For >5 To 20, Deduct	-11.51	
			For >20 To 50, Deduct	-17.27	
			For >50, Deduct	-24.69	
			For Work On Slopes >2.5:1, Add	16.34	
32 91 13 16-0010	CY		Shredded Redwood Mulch	156.16	
			For >5 To 20, Deduct	-11.89	
			For >20 To 50, Deduct	-17.84	
			For >50, Deduct	-25.65	
			For Work On Slopes >2.5:1, Add	16.34	
32 91 13 16-0011	CY		Pea Gravel Mulch	133.56	
			For >5 To 20, Deduct	-10.76	
			For >20 To 50, Deduct	-16.14	
			For >50, Deduct	-22.82	
			For Work On Slopes >2.5:1, Add	16.34	
32 91 13 16-0012	CY		Chunk Recycled Tire Mulch	238.29	
			For >5 To 20, Deduct	-17.15	
			For >20 To 50, Deduct	-25.72	
			For >50, Deduct	-37.64	
			For Work On Slopes >2.5:1, Add	20.93	
32 91 13 16-0013	CY		Chunk Colored Recycled Tire Mulch	370.03	
			For >5 To 20, Deduct	-23.73	
			For >20 To 50, Deduct	-35.60	
			For >50, Deduct	-54.10	
			For Work On Slopes >2.5:1, Add	20.93	
32 91 13 16-0014	CY		Shredded Recycled Tire Mulch	371.94	
			For >5 To 20, Deduct	-23.83	
			For >20 To 50, Deduct	-35.74	
			For >50, Deduct	-54.34	
			For Work On Slopes >2.5:1, Add	20.93	
32 91 13 16-0015	CY		Shredded Colored Recycled Tire Mulch	635.41	
			For >5 To 20, Deduct	-37.00	
			For >20 To 50, Deduct	-55.50	
			For >50, Deduct	-87.28	
			For Work On Slopes >2.5:1, Add	20.93	
32 91 13 16-0016	EA		Pine Straw Mulch Bale.....	11.27	
			Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.02	
			For >500, Deduct	-1.36	
			For Work On Slopes >2.5:1, Add	0.92	
32 91 13 16-0017	EA		Wheat Straw Mulch Bale	11.31	
			Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-0.91	
			For >500, Deduct	-1.30	
			For Work On Slopes >2.5:1, Add	0.69	
32 91 13 16-0018	CY		Stone/Gravel Mulch, Marble Chips	324.62	
			For >5 To 20, Deduct	-20.32	
			For >20 To 50, Deduct	-30.47	
			For >50, Deduct	-46.71	
			For Work On Slopes >2.5:1, Add	16.34	
32 91 13 16-0019	CY		Stone Mulch, Decomposed Granite Chips	132.98	
			For >5 To 20, Deduct	-10.73	
			For >20 To 50, Deduct	-16.10	
			For >50, Deduct	-22.75	
			For Work On Slopes >2.5:1, Add	16.34	
32 91 13 16-0020			Compost Soil Amendment (AgriService) (32 91 13 16)		
			Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles.		
32 91 13 16-0021	CY		Humic Compost (OIM)	103.27	
			Note: (Agri Service or Equal)		
			For Work On Slopes >2.5:1, Add	16.34	
			For >100 To 1,000, Deduct	-17.42	
			For >1,000, Deduct	-26.67	
32 91 13 26			Planting Beds (32 91 13)		
			Note: Not for use when installing trees and shrubs.		
32 91 13 26-0001			Plant Bed Preparation (32 91 13 26)		
			Note: Not for use when installing trees and shrubs.		

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0002	SF		Up To 8" Deep, Prepare And Mix Plant Bed, By Machine Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.	1.29	
			<i>For Work On Slopes >2.5:1, Add</i>	0.26	
32 91 13 26-0003	SF		>8" To 13" Deep, Prepare And Mix Plant Bed, By Machine..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.	1.49	
			<i>For Work On Slopes >2.5:1, Add</i>	0.30	
32 91 13 26-0004	SF		>13" To 18" Deep, Prepare And Mix Plant Bed, By Machine..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.	1.75	
			<i>For Work On Slopes >2.5:1, Add</i>	0.35	
32 91 13 26-0005	SF		Up To 8" Deep, Prepare And Mix Plant Bed By Hand Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.	6.05	
			<i>For Work On Slopes >2.5:1, Add</i>	1.21	
32 91 13 26-0006	SF		>8" To 13" Deep, Prepare And Mix Plant Bed By Hand..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.	6.95	
			<i>For Work On Slopes >2.5:1, Add</i>	1.39	
32 91 13 26-0007	SF		>13" To 18" Deep, Prepare And Mix Plant Bed By Hand..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.	8.17	
			<i>For Work On Slopes >2.5:1, Add</i>	1.63	
32 91 13 26-0008 Plant Bed Preparation With Humic Compost (32 91 13 26)					
32 91 13 26-0009	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.	1.46	
			<i>For Work On Slopes >2.5:1, Add</i>	0.28	
			<i>For >1,000 To 5,000, Deduct</i>	-0.21	
			<i>For >5,000 To 10,000, Deduct</i>	-0.35	
			<i>For >10,000 To 20,000, Deduct</i>	-0.70	
			<i>For >20,000, Deduct</i>	-0.99	
32 91 13 26-0010	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.	1.81	
			<i>For Work On Slopes >2.5:1, Add</i>	0.34	
			<i>For >1,000 To 5,000, Deduct</i>	-0.25	
			<i>For >5,000 To 10,000, Deduct</i>	-0.42	
			<i>For >10,000 To 20,000, Deduct</i>	-0.85	
			<i>For >20,000, Deduct</i>	-1.19	
32 91 13 26-0011	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.	2.14	
			<i>For Work On Slopes >2.5:1, Add</i>	0.39	
			<i>For >1,000 To 5,000, Deduct</i>	-0.29	
			<i>For >5,000 To 10,000, Deduct</i>	-0.49	
			<i>For >10,000 To 20,000, Deduct</i>	-0.98	
			<i>For >20,000, Deduct</i>	-1.38	
32 91 13 26-0012 Planting Pit Preparation (32 91 13 26)					
			Note: Not for use when installing trees and shrubs.		
32 91 13 26-0013	CY		Excavate Planting Pit By Hand, Sandy Soil Note: For use with existing planting pits.	104.62	
			<i>For Work On Slopes >2.5:1, Add</i>	20.92	
32 91 13 26-0014	CY		Excavate Planting Pit By Hand, Heavy Soil Note: For use with existing planting pits.	209.25	
			<i>For Work On Slopes >2.5:1, Add</i>	41.85	
32 91 13 26-0015	CY		Excavate Planting Pit By Machine, Sandy Soil Note: For use with existing planting pits.	15.77	
			<i>For Work On Slopes >2.5:1, Add</i>	3.15	
32 91 13 26-0016	CY		Excavate Planting Pit By Machine, Heavy Soil Note: For use with existing planting pits.	20.52	
			<i>For Work On Slopes >2.5:1, Add</i>	4.10	
32 91 13 26-0017	CY		Backfill Planting Pit By Hand With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	92.97	
				18.59	
32 91 13 26-0018	CY		Backfill Planting Pit By Hand With Contractor Furnished Planting Mix <i>For Work On Slopes >2.5:1, Add</i>	124.49	
				16.53	
32 91 13 26-0019	CY		Backfill Planting Pit By Machine, With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	8.78	
				1.76	
32 91 13 26-0020	CY		Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix..... <i>For Work On Slopes >2.5:1, Add</i>	62.01	
				4.03	
32 91 13 26-0021 Weed Barrier (32 91 13 26)					
32 91 13 26-0022	SY		Up To 3 Oz./SY Non-Woven, Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	2.59	
				0.17	
32 91 13 26-0023	SY		4 Oz./SY Woven, Polypropylene Weed Barrier..... <i>For Work On Slopes >2.5:1, Add</i>	3.50	
				0.17	
32 91 13 26-0024	SY		5 Oz./SY Woven, Needle Punched Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	3.90	
				0.17	



Exterior Improvements		32	32
Planting		32 90	
Planting Preparation		32 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 91 13 33 Soil Conditioners (32 91 13)

32 91 13 33-0001 Spread Soil Conditioners (32 91 13 33)

32 91 13 33-0002	SY	Aluminum Sulfate 1 Lb./SY, Push Spreader	0.49
32 91 13 33-0003	MSF	Aluminum Sulfate 110 Lb./MSF Tractor Spreader	46.48
32 91 13 33-0004	MSF	Fertilizer, 20 Lb./MSF, Push Spreader	8.57
32 91 13 33-0005	MSF	Fertilizer, 20 Lb./MSF, Tractor Spread	3.45
32 91 13 33-0006	MSF	Fertilizer, 20 Lb./MSF, Truck Spread	5.86
32 91 13 33-0007	SY	Pelletized Lime, 1 Lb./SY, Push Spreader	0.12
32 91 13 33-0008	MSF	Pelletized Lime, 110 Lb./MSF, Tractor Spreader	8.81
32 91 13 33-0009	SY	Perlite, 1" Deep, Push Spreader	4.23
32 91 13 33-0010	MSF	Perlite, 1" Deep, Tractor Spreader	439.48
32 91 13 33-0011	SY	Vermiculite, Push Spreader	3.93
32 91 13 33-0012	MSF	Vermiculite, Tractor Spreader	429.30
32 91 13 33-0013	SY	Humate Granular Soil Conditioner, 0.10 Lb./SY, Push Spreader	0.24
32 91 13 33-0014	MSF	Humate Granular Soil Conditioner, 10 Lb./MSF, Tractor Spreader	21.64

32 91 13 36 Lawn Bed Preparation (32 91 13)

32 91 13 36-0001 Lawn Bed Preparation (32 91 13 36)

32 91 13 36-0002	MSF	Rake Topsoil With Machine	99.38
32 91 13 36-0003	MSF	Rake Topsoil By Hand	83.69
32 91 13 36-0004	MSF	Screen Loam By Hand	55.80
32 91 13 36-0005	SY	Roll Topsoil With Machine	1.27
32 91 13 36-0006	SY	Roll Topsoil By Hand	3.74
32 91 13 36-0007	MSF	Removal Of Rocks And Debris With Machine	11.76
32 91 13 36-0008	MSF	Removal Of Rocks And Debris By Hand	37.02
32 91 13 36-0009	MSF	Root Raking And Loading, No Boulders	61.51
		For >45 to 225, Deduct	-43.06
		For >225, Deduct	-55.36
32 91 13 36-0010	MSF	Root Raking And Loading, With Boulders	102.52
		For >45 to 225, Deduct	-71.76
		For >225, Deduct	-92.27
32 91 13 36-0011	MSF	Up To 6" Deep Tilling Topsoil With Tractor	5.46
32 91 13 36-0012	MSF	>6" To 12" Deep Tilling Topsoil With Tractor	11.07
		For Work On Slopes >2.5:1, Add	2.21
32 91 13 36-0013	SY	Up To 2" Deep Tilling Topsoil With Rototiller	0.89
32 91 13 36-0014	SY	>2" To 4" Deep Tilling Topsoil With Rototiller	1.06
32 91 13 36-0015	SY	>4" To 6" Deep Tilling Topsoil With Rototiller	1.33
32 91 13 36-0016	LF	"V" Cut Soil For Edge Of Planting Beds	1.48

32 91 13 36-0017 Sod Removal (32 91 13 36)

32 91 13 36-0018	SY	Removal Of Sod By Hand	7.06
		For Work On Slopes >2.5:1, Add	1.41
32 91 13 36-0019	SY	Removal Of Sod With Machine	0.73
		For Work On Slopes >2.5:1, Add	0.15
32 91 13 36-0020	SY	Pile Sod By Hand	4.18
		For Work On Slopes >2.5:1, Add	0.84
32 91 13 36-0021	SY	Pile Sod With Machine	1.38
		For Work On Slopes >2.5:1, Add	0.28

32 91 19 Landscape Grading (32 91)

32 91 19 13 Topsoil Placement and Grading (32 91 19)

32 91 19 13-0001 Remove And Stockpile Topsoil On Site (32 91 19 13)

32 91 19 13-0002	CY	Removal Of Topsoil, 4" Deep Stockpile On Site	5.49
32 91 19 13-0003	CY	Removal Of Topsoil, 6" Deep Stockpile On Site	5.43

32 91 19 13-0004 Screening Topsoil (32 91 19 13)

32 91 19 13-0005	CY	Screen Topsoil With Vibrating Screen, Wet Material (Organic)	12.10
32 91 19 13-0006	CY	Screen Topsoil With Vibrating Screen, Dry Material	8.07

32 91 19 13-0007 Spreading Topsoil From Stockpile (32 91 19 13)

32 91 19 13-0008	CY	Spread Topsoil By Machine From Stockpile	9.34
32 91 19 13-0009	CY	Spread Topsoil By Hand From Stockpile	79.86

32 91 19 13-0010 Furnish And Place Imported Screened Topsoil (32 91 19 13)

Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0041 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.

32 91 19 13-0011	SY	Furnish And Place Imported Screened Topsoil, 2" Deep	3.79
		For Unscreened, Deduct	-0.44

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 19 13-0012	SY		Furnish And Place Imported Screened Topsoil, 4" Deep.....	7.22	
			<i>For Unscreened, Deduct</i>	-0.88	
32 91 19 13-0013	SY		Furnish And Place Imported Screened Topsoil, 6" Deep.....	10.38	
			<i>For Unscreened, Deduct</i>	-1.32	
32 91 19 13-0014	SY		Furnish And Place Imported Screened Topsoil, 9" Deep.....	14.90	
			<i>For Unscreened, Deduct</i>	-1.97	
32 91 19 13-0015	SY		Furnish And Place Imported Screened Topsoil, 12" Deep.....	19.40	
			<i>For Unscreened, Deduct</i>	-2.63	
32 91 19 13-0016	CY		Furnish And Place Imported Screened Topsoil, Over 12" Deep.....	52.88	
			<i>For Unscreened, Deduct</i>	-7.89	

32 91 19 13-0017 Scarify Soil For Planting Preparation (32 91 19 13)

Note: Ripped in multiple directions with 3" maximum clods.

32 91 19 13-0018	MSF		Up To 5,000 SF Scarify Up To 8" Soil With Machine.....	73.79	
32 91 19 13-0019	MSF		>5,000 To 20,000 SF Scarify Up To 8" Soil With Machine.....	51.64	
32 91 19 13-0020	MSF		>20,000 SF Scarify Up To 8" Soil With Machine.....	30.22	

32 92 Turf and Grasses (32 90)**32 92 16 Plugging (32 92)****32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep (32 92 16)**

Note: Includes fine grade and soil preparation.

32 92 16 00-0002 6" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0003	MSF		Plugging By Hand, 6" On Center	264.95	
32 92 16 00-0004	MSF		Plugging By Walk Behind Planter, 6" On Center.....	32.08	
32 92 16 00-0005	MSF		Plugging By Towed Planter, 6" On Center.....	22.60	

32 92 16 00-0006 9" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0007	MSF		Plugging By Hand, 9" On Center	203.39	
32 92 16 00-0008	MSF		Plugging By Walk Behind Planter, 9" On Center.....	25.34	
32 92 16 00-0009	MSF		Plugging By Towed Planter, 9" On Center.....	16.99	

32 92 16 00-0010 12" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0011	MSF		Plugging By Hand, 12" On Center	172.06	
32 92 16 00-0012	MSF		Plugging By Walk Behind Planter, 12" On Center.....	17.37	
32 92 16 00-0013	MSF		Plugging By Towed Planter, 12" On Center.....	10.95	

32 92 19 Seeding (32 92)**32 92 19 13 Mechanical Seeding (32 92 19)**

Note: Includes fertilizing, liming, mixing, seeding and initial watering.

32 92 19 13-0001 Tractor Spreader Mechanical Seeding (32 92 19 13)

Note: Excludes straw.

32 92 19 13-0002	MSF		Common Bluegrass, Tractor Spreader	48.10	
			Note: 4 Lbs./MSF spread rate.		
32 92 19 13-0003	MSF		Tall Fescue, Tractor Spreader	38.95	
			Note: 5.5 Lbs./MSF spread rate.		
32 92 19 13-0004	MSF		Rye, Tractor Spreader	39.60	
			Note: 10 Lbs./MSF spread rate.		
32 92 19 13-0005	MSF		Shade Mix, Tractor Spreader.....	42.89	
			Note: 6 Lbs./MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
32 92 19 13-0006	MSF		Turf Mix, Tractor Spreader.....	45.26	
			Note: 4 Lbs./MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
32 92 19 13-0007	MSF		Slope Mix, Tractor Spreader	42.10	
			Note: 6 Lbs./MSF spread rate.		
32 92 19 13-0008	MSF		Utility Mix, Tractor Spreader	38.17	
			Note: 7 Lbs./MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
32 92 19 13-0009	MSF		Wild Flower Mix, Tractor Spreader	30.75	
			Note: 0.10 Lbs./MSF spread rate.		
32 92 19 13-0010	MSF		Crown Vetch Mix, Tractor Spreader.....	89.43	
			Note: 4 Lbs./MSF spread rate.		
32 92 19 13-0011	MSF		Athletic Mix, Tractor Spreader	54.72	
			Note: 8 Lbs./MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
32 92 19 13-0012	MSF		White Clover Mix, Tractor Spreader.....	30.67	
			Note: 7 Lbs./MSF spread rate.		
32 92 19 13-0013	MSF		Ladino Clover Mix, Tractor Spreader	33.82	
			Note: 7 Lbs./MSF spread rate.		
32 92 19 13-0014	MSF		Bermuda, Tractor Spreader	50.09	
			Note: 10 Lbs./MSF spread rate.		

32 92 19 13-0015 Hydro Or Air Mechanical Seeding (32 92 19 13)



Exterior Improvements		32	32
Planting		32 90	
Turf and Grasses		32 92	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0016	MSF		Common Bluegrass, Hydro Or Air Seeding 97.03 Note: 4 Lbs./MSF spread rate. For Spot Areas Up To 1, Add 105.64 For >1 To 4, Add 68.01 For >4 To 7.5, Add 46.15 For >7.5 To 10, Add 23.08 For >45, Deduct -7.89 For Tackifier, Add 4.57		
32 92 19 13-0017	MSF		Tall Fescue, Hydro Or Air Seeding 102.55 Note: 5.5 Lbs./MSF spread rate. For Spot Areas Up To 1, Add 107.85 For >1 To 4, Add 69.11 For >4 To 7.5, Add 46.71 For >7.5 To 10, Add 23.35 For >45, Deduct -8.17 For Tackifier, Add 4.57		
32 92 19 13-0018	MSF		Rye, Hydro Or Air Spread 97.26 Note: 10 Lbs./MSF spread rate. For Spot Areas Up To 1, Add 105.73 For >1 To 4, Add 68.05 For >4 To 7.5, Add 46.18 For >7.5 To 10, Add 23.09 For >45, Deduct -7.90 For Tackifier, Add 4.57		
32 92 19 13-0019	MSF		Shade Mix, Hydro Or Air Seeding 97.03 Note: 6 Lbs./MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass. For Spot Areas Up To 1, Add 105.64 For >1 To 4, Add 68.01 For >4 To 7.5, Add 46.15 For >7.5 To 10, Add 23.08 For >45, Deduct -7.89 For Tackifier, Add 4.57		
32 92 19 13-0020	MSF		Turf Mix, Hydro Or Air Seeding 102.55 Note: 4 Lbs./MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass. For Spot Areas Up To 1, Add 107.85 For >1 To 4, Add 69.11 For >4 To 7.5, Add 46.71 For >7.5 To 10, Add 23.35 For >45, Deduct -8.17 For Tackifier, Add 4.57		
32 92 19 13-0021	MSF		Slope Mix, Hydro Or Air Seeding 100.19 Note: 6 Lbs./MSF spread rate. For Spot Areas Up To 1, Add 106.90 For >1 To 4, Add 68.64 For >4 To 7.5, Add 46.47 For >7.5 To 10, Add 23.23 For >45, Deduct -8.05 For Tackifier, Add 4.57		
32 92 19 13-0022	MSF		Utility Mix, Hydro Or Air Seeding 98.28 Note: 7 Lbs./MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass. For Spot Areas Up To 1, Add 106.14 For >1 To 4, Add 68.26 For >4 To 7.5, Add 46.28 For >7.5 To 10, Add 23.14 For >45, Deduct -7.95 For Tackifier, Add 4.57		
32 92 19 13-0023	MSF		Wild Flower Mix, Hydro Or Air Seeding 92.13 Note: 0.10 Lbs./MSF spread rate. For Spot Areas Up To 1, Add 103.68 For >1 To 4, Add 67.03 For >4 To 7.5, Add 45.66 For >7.5 To 10, Add 22.83 For >45, Deduct -7.64 For Tackifier, Add 4.57		
32 92 19 13-0024	MSF		Crown Vetch Mix, Hydro Or Air Seeding 147.51 Note: 4 Lbs./MSF spread rate. For Spot Areas Up To 1, Add 125.83 For >1 To 4, Add 78.10 For >4 To 7.5, Add 51.20 For >7.5 To 10, Add 25.60 For >45, Deduct -10.41 For Tackifier, Add 4.57		
32 92 19 13-0025	MSF		Athletic Mix, Hydro Or Air Seeding 130.18 Note: 8 Lbs./MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass. For Spot Areas Up To 1, Add 118.90 For >1 To 4, Add 74.64 For >4 To 7.5, Add 49.47 For >7.5 To 10, Add 24.73 For >45, Deduct -9.55 For Tackifier, Add 4.57		

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0026	MSF	White Clover Mix, Hydro Or Air Seeding..... Note: 7 Lbs./MSF spread rate. For Spot Areas Up To 1, Add For >1 To 4, Add For >4 To 7.5, Add For >7.5 To 10, Add For >45, Deduct For Tackifier, Add	84.65 100.69 65.53 44.92 22.46 -7.27 4.57	
32 92 19 13-0027	MSF	Ladino Clover Mix, Hydro Or Air Seeding Note: 7 Lbs./MSF spread rate. For Spot Areas Up To 1, Add For >1 To 4, Add For >4 To 7.5, Add For >7.5 To 10, Add For >45, Deduct For Tackifier, Add	93.88 104.38 67.38 45.84 22.92 -7.73 4.57	
32 92 19 13-0028	MSF	60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread..... Note: 4 Lbs./MSF spread rate. For Spot Areas Up To 1, Add For >1 To 4, Add For >4 To 7.5, Add For >7.5 To 10, Add For >45, Deduct For Tackifier, Add	98.61 106.27 68.32 46.31 23.16 -7.97 4.57	
32 92 19 13-0029	MSF	2,500 Lb./Acre, High Performance - Flexible Growth Medium..... Note: Applied with seed. Excludes seed. For >45, Deduct	118.43 -7.44	
32 92 19 13-0030	MSF	3,000 Lb./Acre, High Performance - Flexible Growth Medium..... Note: Applied with seed. Excludes seed. For >45, Deduct	137.57 -8.47	
32 92 19 13-0031	MSF	3,500 Lb./Acre, High Performance - Flexible Growth Medium..... Note: Applied with seed. Excludes seed. For >45, Deduct	156.79 -9.51	
32 92 19 13-0032	MSF	4,000 Lb./Acre, High Performance - Flexible Growth Medium..... Note: Applied with seed. Excludes seed. For >45, Deduct	176.06 -10.56	
32 92 19 13-0033	MSF	4,500 Lb./Acre, High Performance - Flexible Growth Medium..... Note: Applied with seed. Excludes seed. For >45, Deduct	195.43 -11.62	
32 92 19 13-0034	MSF	Custom Mix (Landfill Closure), Hydro Or Air Seeding..... Note: Mixture of varieties: 0.184 Lbs/MSF (8 Lbs/Acre) Vulpia Microstachys, 0.138 Lbs/MSF (6 Lbs/Acre) Poa Secunda, 0.23 Lbs/MSF (10 Lbs/Acre) Hordeum Californicum Prostrate, 0.138 Lbs/MSF (6 Lbs/Acre) Nassella Pulchra, 0.184 Lbs/MSF (8 Lbs/Acre) Elymus Glaucus Anderson, 0.023 Lbs/MSF (1 Lbs/Acre) Artemisia Californica, 0.046 Lbs/MSF (2 Lbs/Acre) Atriplex Semibaccata, and 0.023 Lbs/MSF (1 Lbs/Acre) Atriplex Polycarpa. For Spot Areas Up To 1, Add For >1 To 4, Add For >4 To 7.5, Add For >7.5 To 10, Add For >45, Deduct	127.59 117.86 74.12 49.21 24.60 -9.42	
32 92 19 13-0035	ACR	Custom Mix (Landfill Closure), Hydro Or Air Seeding..... Note: Mixture of varieties: 8 Lbs/Acre Vulpia Microstachys, 6 Lbs/Acre Poa Secunda, 10 Lbs/Acre Hordeum Californicum Prostrate, 6 Lbs/Acre Nassella Pulchra, 8 Lbs/Acre Elymus Glaucus Anderson, 1 Lbs/Acre Artemisia Californica, 2 Lbs/Acre Atriplex Semibaccata, and 1 Lbs/Acre Atriplex Polycarpa.	5,288.02	
32 92 19 19		Seeding by Hand (32 92 19)		
		Note: Includes fertilizing, liming, mixing, seeding and initial watering. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 19-0001		Push Spreader Or Hand Seeding (32 92 19 19)		
		Note: Excludes straw.		
32 92 19 19-0002	MSF	Common Bluegrass, Push Spreader Or Hand Note: 4 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	126.38 -8.93 -17.32 -28.33	
32 92 19 19-0003	MSF	Tall Fescue, Push Spreader Or Hand..... Note: 5.5 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	117.23 -8.48 -16.64 -27.41	
32 92 19 19-0004	MSF	Rye, Push Spreader Or Hand..... Note: 10 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	117.88 -8.51 -16.69 -27.48	
32 92 19 19-0005	MSF	Shade Mix, Push Spreader Or Hand Note: 6 Lbs./MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	121.17 -8.67 -16.93 -27.81	



Exterior Improvements			32
Planting			32 90
Turf and Grasses			32 92

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0006	MSF		Turf Mix, Push Spreader Or Hand Note: 4 Lbs./MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	123.54 -8.79 -17.11 -28.05	
32 92 19 19-0007	MSF		Slope Mix, Push Spreader Or Hand Note: 6 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	120.38 -8.63 -16.87 -27.73	
32 92 19 19-0008	MSF		Utility Mix, Push Spreader Or Hand Note: 7 Lbs./MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	116.45 -8.44 -16.58 -27.34	
32 92 19 19-0009	MSF		Wild Flower Mix, Push Spreader Or Hand Note: 0.10 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	109.03 -8.07 -16.02 -26.59	
32 92 19 19-0010	MSF		Crown Vetch Mix, Push Spreader Or Hand Note: 4 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	167.71 -11.00 -20.42 -32.46	
32 92 19 19-0011	MSF		Athletic Mix, Push Spreader Or Hand Note: 8 Lbs./MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	133.00 -9.27 -17.82 -28.99	
32 92 19 19-0012	MSF		White Clover Mix, Push Spreader Or Hand Note: 7 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	108.95 -8.06 -16.02 -26.59	
32 92 19 19-0013	MSF		Ladino Clover Mix, Push Spreader Or Hand Note: 7 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	112.10 -8.22 -16.25 -26.90	
32 92 19 19-0014	MSF		100% Kentucky Bluegrass, Push Spreader Or Hand Note: 3.3 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	127.88 -9.01 -17.44 -28.48	
32 92 19 19-0015	MSF		70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand Note: 3.3 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	123.54 -8.79 -17.11 -28.05	
32 92 19 19-0016	MSF		50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand Note: 3.3 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	120.38 -8.63 -16.87 -27.73	
32 92 19 19-0017	MSF		50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand Note: 4.4 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	126.69 -8.95 -17.35 -28.36	
32 92 19 19-0018	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand Note: 3.3 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	121.96 -8.71 -16.99 -27.89	
32 92 19 19-0019	MSF		40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand Note: 3.3 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	123.54 -8.79 -17.11 -28.05	
32 92 19 19-0020	MSF		Bermuda, Push Spreader Or Hand Note: 10 Lbs./MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	128.37 -9.03 -17.47 -28.53	

32 92 23 Sodding (32 92)

Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.

32 92 23 00-0001 Bermuda Sod (32 92 23)

32 92 23 00-0002	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Level Ground	1,638.02
32 92 23 00-0003	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Level Ground	1,396.90

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 23 00-0004	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Level Ground.....	1,190.83	
32 92 23 00-0005	MSF	>8,000 SF, Bermuda Sod, Installed On Level Ground.....	1,050.41	
32 92 23 00-0006	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,049.00	
32 92 23 00-0007	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,745.10	
32 92 23 00-0008	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,431.06	
32 92 23 00-0009	MSF	>8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,254.68	
32 92 23 00-0010 Zoysia Sod (32 92 23)				
32 92 23 00-0011	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Level Ground.....	2,305.54	
32 92 23 00-0012	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Level Ground.....	1,895.71	
32 92 23 00-0013	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,606.50	
32 92 23 00-0014	MSF	>8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,382.96	
32 92 23 00-0015	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,714.09	
32 92 23 00-0016	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,243.91	
32 92 23 00-0017	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,846.73	
32 92 23 00-0018	MSF	>8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,587.23	
32 92 23 00-0019 Tall Fescue Sod (32 92 23)				
32 92 23 00-0020	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground.....	2,274.75	
		<i>For Hybrid Fescue "Marathon", Add</i>	141.71	
32 92 23 00-0021	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,872.62	
		<i>For Hybrid Fescue "Marathon", Add</i>	106.85	
32 92 23 00-0022	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,587.26	
		<i>For Hybrid Fescue "Marathon", Add</i>	89.42	
32 92 23 00-0023	MSF	>8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,367.56	
		<i>For Hybrid Fescue "Marathon", Add</i>	71.99	
32 92 23 00-0024	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,683.30	
		<i>For Hybrid Fescue "Marathon", Add</i>	141.71	
32 92 23 00-0025	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,220.82	
		<i>For Hybrid Fescue "Marathon", Add</i>	106.85	
32 92 23 00-0026	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,827.49	
		<i>For Hybrid Fescue "Marathon", Add</i>	89.42	
32 92 23 00-0027	MSF	>8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,571.83	
		<i>For Hybrid Fescue "Marathon", Add</i>	71.99	
32 92 23 00-0028 Centipede Sod (32 92 23)				
32 92 23 00-0029	MSF	Up To 1,000 SF, Centipede Sod, Installed On Level Ground.....	2,048.44	
32 92 23 00-0030	MSF	>1,000 To 4,000 SF, Centipede Sod, Installed On Level Ground.....	1,702.89	
32 92 23 00-0031	MSF	>4,000 To 8,000 SF, Centipede Sod, Installed On Level Ground.....	1,445.82	
32 92 23 00-0032	MSF	>8,000 SF, Centipede Sod, Installed On Level Ground.....	1,254.41	
32 92 23 00-0033	MSF	Up To 1,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,456.99	
32 92 23 00-0034	MSF	>1,000 To 4,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,051.09	
32 92 23 00-0035	MSF	>4,000 To 8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,686.05	
32 92 23 00-0036	MSF	>8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,458.68	
32 92 23 00-0037 Kentucky Blue Grass Sod (32 92 23)				
32 92 23 00-0038	MSF	Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,957.77	
32 92 23 00-0039	MSF	>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,634.89	
32 92 23 00-0040	MSF	>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,389.15	
32 92 23 00-0041	MSF	>8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,209.07	
32 92 23 00-0042	MSF	Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,366.32	
32 92 23 00-0043	MSF	>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,983.09	
32 92 23 00-0044	MSF	>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,629.38	
32 92 23 00-0045	MSF	>8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,413.34	
32 92 23 00-0046 Ballfield Mix 2A Sod 10% Bermuda Shorts, 10% Barclay, 80% Turfstar (32 92 23)				
32 92 23 00-0047	MSF	Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground.....	1,821.78	
32 92 23 00-0048	MSF	>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground.....	1,532.89	
32 92 23 00-0049	MSF	>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground.....	1,304.15	
32 92 23 00-0050	MSF	>8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground.....	1,141.08	
32 92 23 00-0051	MSF	Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,230.33	
32 92 23 00-0052	MSF	>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,881.09	
32 92 23 00-0053	MSF	>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,544.38	
32 92 23 00-0054	MSF	>8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,345.55	
32 92 23 00-0055 GN-1 Sod (32 92 23)				
32 92 23 00-0056	MSF	Up To 1,000 SF, GN-1 Sod, Installed On Level Ground.....	2,292.53	
32 92 23 00-0057	MSF	>1,000 To 4,000 SF, GN-1 Sod, Installed On Level Ground.....	1,885.96	
32 92 23 00-0058	MSF	>4,000 To 8,000 SF, GN-1 Sod, Installed On Level Ground.....	1,598.37	
32 92 23 00-0059	MSF	>8,000 SF, GN-1 Sod, Installed On Level Ground.....	1,376.45	
32 92 23 00-0060	MSF	Up To 1,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,701.08	
32 92 23 00-0061	MSF	>1,000 To 4,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,234.16	
32 92 23 00-0062	MSF	>4,000 To 8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,838.60	
32 92 23 00-0063	MSF	>8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,580.72	



Exterior Improvements			32
Planting			32 90
Turf and Grasses			32 92

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 92 23 00-0064	Tifgreen Bermuda Sod ^(32 92 23)				
32 92 23 00-0065	MSF	Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground		2,395.40	
32 92 23 00-0066	MSF	>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground		1,963.11	
32 92 23 00-0067	MSF	>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground		1,662.67	
32 92 23 00-0068	MSF	>8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground		1,427.89	
32 92 23 00-0069	MSF	Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes		2,803.95	
32 92 23 00-0070	MSF	>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes		2,311.31	
32 92 23 00-0071	MSF	>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes		1,902.90	
32 92 23 00-0072	MSF	>8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes		1,632.16	

32 93 Plants ^(32 93)

32 93 13 Ground Covers ^(32 93)

Note: Materials only. See CSI section 32 93 83 00-0062 for installation and planting of ground cover.

32 93 13 00-0001	Ornamental Grasses ^(32 93 13)				
32 93 13 00-0002	EA	1 Gallon, Cortaderia selloana - Pampas Grass		36.60	
32 93 13 00-0003	EA	2 Gallon, Cortaderia selloana - Pampas Grass		67.65	
32 93 13 00-0004	EA	3 Gallon, Cortaderia selloana - Pampas Grass		122.95	
32 93 13 00-0005	EA	5 Gallon, Cortaderia selloana - Pampas Grass		223.77	
32 93 13 00-0006	EA	1 Gallon, Distichlis spicata - Saltgrass		11.86	
32 93 13 00-0007	EA	5 Gallon, Distichlis spicata - Saltgrass		31.02	
32 93 13 00-0008	EA	1 Quart, Imperata cylindrica - Japanese Blood Grass		28.01	
32 93 13 00-0009	EA	1 Gallon, Imperata cylindrica - Japanese Blood Grass		37.25	
32 93 13 00-0010	EA	2 Gallon, Imperata cylindrica - Japanese Blood Grass		39.87	
32 93 13 00-0011	EA	1 Quart, Koeleria glauca - Blue Hair Grass		27.94	
32 93 13 00-0012	EA	1 Gallon, Koeleria glauca - Blue Hair Grass		37.25	
32 93 13 00-0013	EA	3 Gallon, Koeleria glauca - Blue Hair Grass		90.12	
32 93 13 00-0014	EA	1 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass		35.36	
32 93 13 00-0015	EA	3 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass		45.83	
32 93 13 00-0016	EA	5 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass		87.62	
32 93 13 00-0017	EA	1 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass		32.82	
32 93 13 00-0018	EA	3 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass		51.60	
32 93 13 00-0019	EA	5 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass		88.31	
32 93 13 00-0020	EA	1 Gallon, Monarchochloe littoralis - Shore Grass		14.83	
32 93 13 00-0021	EA	1 Quart, Pennisetum setaceum - Fountain Grass		30.55	
32 93 13 00-0022	EA	1 Gallon, Pennisetum setaceum - Fountain Grass		31.59	
32 93 13 00-0023	EA	3 Gallon, Pennisetum setaceum - Fountain Grass		69.69	
32 93 13 00-0024	EA	1 Gallon, Saccharum ravennae - Ravenna Grass		96.74	
32 93 13 00-0025	EA	3 Gallon, Saccharum ravennae - Ravenna Grass		108.67	
32 93 13 00-0026	EA	7 Gallon, Saccharum ravennae - Ravenna Grass		179.28	
32 93 13 00-0027	EA	1 Gallon, Spartina pectinata - Variegated Cord Grass		52.53	
32 93 13 00-0028	EA	2 Gallon, Spartina pectinata - Variegated Cord Grass		78.62	
32 93 13 00-0029	EA	1 Quart, Stipa gigantea - Giant Feather Grass		40.10	
32 93 13 00-0030	EA	1 Gallon, Stipa gigantea - Giant Feather Grass		55.87	
32 93 13 00-0031	EA	1 Gallon, Triglochin maritima - Arrow Grass		8.90	

32 93 13 00-0032	Ground Covers ^(32 93 13)				
32 93 13 00-0033	EA	1 Gallon Agave Attenuata - Century Plant		13.05	
32 93 13 00-0034	EA	5 Gallon Agave Attenuata - Century Plant		35.17	
32 93 13 00-0035	EA	15 Gallon Agave Attenuata - Century Plant		116.30	
32 93 13 00-0036	EA	1 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac		11.13	
32 93 13 00-0037	EA	5 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac		30.98	
32 93 13 00-0038	EA	1 Gallon Ceanothus 'Yankee Point' - Wild Lilac		11.13	
32 93 13 00-0039	EA	5 Gallon Ceanothus 'Yankee Point' - Wild Lilac		28.94	
32 93 13 00-0040	EA	1 Gallon Dietes Vegata - Fortnight Lily		9.76	
32 93 13 00-0041	EA	5 Gallon Dietes Vegata - Fortnight Lily		24.05	
32 93 13 00-0042	EA	1 Gallon Juncus Patens 'Elk Blue' - California Gray Rush		18.13	
32 93 13 00-0043	EA	5 Gallon Juncus Patens 'Elk Blue' - California Gray Rush		47.63	
32 93 13 00-0044	EA	4" Pot Miscanthus 'Morning Light' - NCN		13.59	
32 93 13 00-0045	EA	20 Count Flat Miscanthus 'Morning Light' - NCN		200.52	
32 93 13 00-0046	EA	1 Gallon Nassella Tenuissima - Mexican Feather Grass		18.13	
32 93 13 00-0047	EA	1 Gallon Trachelospermum Jasminoides - Star Jasmine		9.86	
32 93 13 00-0048	EA	5 Gallon Trachelospermum Jasminoides - Star Jasmine		24.70	
32 93 13 00-0049	EA	1 Gallon Westringia Fruticosa - Coast Rosemary		9.76	
32 93 13 00-0050	EA	5 Gallon Westringia Fruticosa - Coast Rosemary		24.05	
32 93 13 00-0051	EA	15 Gallon Westringia Fruticosa - Coast Rosemary		98.71	
32 93 13 00-0052	EA	1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge		46.99	
32 93 13 00-0053	EA	1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge		61.18	
32 93 13 00-0054	EA	2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper		77.44	
32 93 13 00-0055	EA	1 Quart Waldsteinia ternata - Barren Strawberry		13.30	
32 93 13 00-0056	EA	1 Gallon Waldsteinia ternata - Barren Strawberry		31.92	
32 93 13 00-0057	EA	1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster		43.44	
32 93 13 00-0058	EA	2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster		82.45	
32 93 13 00-0059	EA	5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster		145.41	
32 93 13 00-0060	EA	1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope		14.88	
32 93 13 00-0061	EA	1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine		27.49	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0062 EA 5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	96.64	
32 93 13 00-0063 EA 1 Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper.....	36.08	
32 93 13 00-0064 EA 4" Pot Parthenocissus tricuspidata - Boston Ivy.....	17.73	
32 93 13 00-0065 EA 1 Gallon Parthenocissus tricuspidata - Boston Ivy.....	40.43	
32 93 13 00-0066 EA 5 Gallon Parthenocissus tricuspidata - Boston Ivy.....	110.65	
32 93 13 00-0067 EA 3 Gallon Bougainvillea spectabilis - Bougainvillea.....	46.50	
32 93 13 00-0068 EA 1 Quart Iberis sempervirens - Candytuft.....	13.30	
32 93 13 00-0069 EA 1 Gallon Iberis sempervirens - Candytuft.....	31.92	
32 93 13 00-0070 EA 1 Gallon Gelsemium sempervirens - Carolina Jessamine.....	38.30	
32 93 13 00-0071 EA 5 Gallon Gelsemium sempervirens - Carolina Jessamine.....	138.31	
32 93 13 00-0072 EA 3" Pot Ajuga reptans - Carpet Bugle.....	7.98	
32 93 13 00-0073 EA 1 Quart Ajuga reptans - Carpet Bugle.....	13.30	
32 93 13 00-0074 EA 1 Gallon Ajuga reptans - Carpet Bugle.....	31.92	
32 93 13 00-0075 EA 24 Plant Flat Ajuga reptans - Carpet Bugle.....	137.42	
32 93 13 00-0076 EA 1 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	31.92	
32 93 13 00-0077 EA 5 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	138.31	
32 93 13 00-0078 EA 1 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	41.67	
32 93 13 00-0079 EA 3 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	92.21	
32 93 13 00-0080 EA 5 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	138.31	
32 93 13 00-0081 EA 1 Gallon Ranunculaceae - Clematis Varieties.....	45.81	
32 93 13 00-0082 EA 2 Gallon Ranunculaceae - Clematis Varieties.....	84.73	
32 93 13 00-0083 EA 1 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	57.63	
32 93 13 00-0084 EA 2 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	108.17	
32 93 13 00-0085 EA 5 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	177.32	
32 93 13 00-0086 EA 4" Pot Lantana camera - Common Lantana.....	7.98	
32 93 13 00-0087 EA 1 Gallon Lantana camera - Common Lantana.....	23.05	
32 93 13 00-0088 EA 1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	27.49	
32 93 13 00-0089 EA 5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	90.43	
32 93 13 00-0090 EA 2 Quart Lysimachia nummularia - Creeping Jenny.....	13.30	
32 93 13 00-0091 EA 1 Gallon Lysimachia nummularia - Creeping Jenny.....	25.71	
32 93 13 00-0092 EA 2 Quart Liriope spicata - Creeping Lilytuft.....	23.05	
32 93 13 00-0093 EA 1 Gallon Liriope spicata - Creeping Lilytuft.....	41.67	
32 93 13 00-0094 EA 5 Gallon Liriope spicata - Creeping Lilytuft.....	87.78	
32 93 13 00-0095 EA Bare Root Liriope spicata - Creeping Liriope.....	5.81	
32 93 13 00-0096 EA 3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	7.98	
32 93 13 00-0097 EA 1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	31.92	
32 93 13 00-0098 EA 2-1/4" Pot Securigera varia - Crown Vetch.....	5.32	
32 93 13 00-0099 EA 50 Plant Flat Securigera varia - Crown Vetch.....	179.98	
32 93 13 00-0100 EA 1 Quart Senecio cineraria - Dusty Miller.....	13.30	
32 93 13 00-0101 EA 1 Gallon Senecio cineraria - Dusty Miller.....	31.92	
32 93 13 00-0102 EA 2 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	110.83	
32 93 13 00-0103 EA 5 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	203.03	
32 93 13 00-0104 EA 1 Gallon Ilex cornuta - Dwarf Holly.....	24.08	
32 93 13 00-0105 EA 3 Gallon Ilex cornuta - Dwarf Holly.....	51.60	
32 93 13 00-0106 EA 3 Gallon Rhampholepis umbellata 'Minor' - Dwarf Indian Hawthorn.....	51.60	
32 93 13 00-0107 EA 1 Gallon Tradescantia spathacea - Dwarf Oyster Plant.....	17.20	
32 93 13 00-0108 EA 2" To 3" Pot Hedera helix - English Ivy.....	7.98	
32 93 13 00-0109 EA 12" To 15" Runners Hedera helix - English Ivy.....	13.30	
32 93 13 00-0110 EA 1 Gallon Hedera helix - English Ivy.....	31.92	
32 93 13 00-0111 EA 50 Plant Flat Hedera helix - English Ivy.....	184.42	
32 93 13 00-0112 EA 4" Pot Lavandula angustifolia - English Lavender.....	11.53	
32 93 13 00-0113 EA 1 Quart Lavandula angustifolia - English Lavender.....	22.17	
32 93 13 00-0114 EA 1 Gallon Lavandula angustifolia - English Lavender.....	36.35	
32 93 13 00-0115 EA 1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper.....	34.58	
32 93 13 00-0116 EA 2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper.....	69.16	
32 93 13 00-0117 EA 1 Quart Arundo donax - Giant Reed.....	42.56	
32 93 13 00-0118 EA 1 Gallon Arundo donax - Giant Reed.....	61.18	
32 93 13 00-0119 EA 1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	36.35	
32 93 13 00-0120 EA 2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	69.16	
32 93 13 00-0121 EA 1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass.....	46.99	
32 93 13 00-0122 EA 1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass.....	70.93	
32 93 13 00-0123 EA 3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	7.98	
32 93 13 00-0124 EA 1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	36.35	
32 93 13 00-0125 EA 2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	69.16	
32 93 13 00-0126 EA 1 Gallon Hardenbergia violacea - Happy Wanderer.....	31.92	
32 93 13 00-0127 EA 5 Gallon Hardenbergia violacea - Happy Wanderer.....	106.39	
32 93 13 00-0128 EA 3 Gallon Hibiscus, Assorted Colors.....	41.57	
32 93 13 00-0129 EA 1 Gallon Acorus gramineus - Japanese Sweet Flag.....	33.25	
32 93 13 00-0130 EA 1 Gallon Jasminum volubile - Wax Jasmine.....	16.75	
32 93 13 00-0131 EA 1 Gallon Jasminum volubile - Wax Jasmine.....	41.57	
32 93 13 00-0132 EA 1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	20.89	
32 93 13 00-0133 EA 3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	46.50	
32 93 13 00-0134 EA 1 Gallon Cissus antarctica - Kangaroo Vine.....	25.71	
32 93 13 00-0135 EA 5 Gallon Cissus antarctica - Kangaroo Vine.....	80.68	
32 93 13 00-0136 EA 1 Quart Stachys byzantina - Lamb's Ear.....	13.30	
32 93 13 00-0137 EA 1 Quart Stachys byzantina - Lamb's Ear.....	31.92	
32 93 13 00-0138 EA 1 Gallon Lantana spp. Various Colors.....	18.82	
32 93 13 00-0139 EA 1 Gallon Lantana sellowiana - Trailing Lantana.....	12.38	
32 93 13 00-0140 EA 1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed.....	25.71	
32 93 13 00-0141 EA 5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed.....	92.21	
32 93 13 00-0142 EA 1 Gallon Liriope Evergreen Giant, 6 To 8 Bits Minimum.....	18.82	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0143	EA		1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	23.74	
32 93 13 00-0144	EA		3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	37.96	
32 93 13 00-0145	EA		1 Quart Moss Phlox, Creeping Phlox.....	13.30	
32 93 13 00-0146	EA		1 Gallon Moss Phlox, Creeping Phlox.....	31.92	
32 93 13 00-0147	EA		1 Gallon Nephrolepis exaltata - Common Boston Fern.....	16.75	
32 93 13 00-0148	EA		4" Pot Ophiopogon Japonicus - Mondo grass.....	7.98	
32 93 13 00-0149	EA		1 Gallon Ophiopogon Japonicus - Mondo grass.....	31.92	
32 93 13 00-0150	EA		5 Gallon Ophiopogon Japonicus - Mondo grass.....	73.59	
32 93 13 00-0151	EA		2' To 3' High Oregon Holly-Grape.....	36.85	
32 93 13 00-0152	EA		1 Gallon Pachysandra terminalis - Pachysandra.....	48.00	
32 93 13 00-0153	EA		2-1/4" Pot Vinca minor - Periwinkle.....	4.43	
32 93 13 00-0154	EA		4" Pot Vinca minor - Periwinkle.....	13.30	
32 93 13 00-0155	EA		Bare Root Vinca minor - Periwinkle.....	4.43	
32 93 13 00-0156	EA		1 Quart Nepeta mussinii - Persian Catmint.....	13.30	
32 93 13 00-0157	EA		1 Gallon Nepeta mussinii - Persian Catmint.....	27.49	
32 93 13 00-0158	EA		1 Gallon Coprosma kirkii - Prostrate Coprosma.....	22.17	
32 93 13 00-0159	EA		5 Gallon Coprosma kirkii - Prostrate Coprosma.....	80.68	
32 93 13 00-0160	EA		1 Gallon Juniperus Horizontalis - Prostrate Juniper.....	36.35	
32 93 13 00-0161	EA		3 Gallon Juniperus Horizontalis - Prostrate Juniper.....	78.02	
32 93 13 00-0162	EA		5 Gallon Juniperus Horizontalis - Prostrate Juniper.....	115.26	
32 93 13 00-0163	EA		1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper.....	31.66	
32 93 13 00-0164	EA		1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper.....	82.03	
32 93 13 00-0165	EA		24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper.....	137.43	
32 93 13 00-0166	EA		1 Gallon Tradescantia spathacea - Rhoec Discolor "Dwarf".....	16.75	
32 93 13 00-0167	EA		1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue.....	18.62	
32 93 13 00-0168	EA		1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue.....	33.25	
32 93 13 00-0169	EA		2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue.....	51.87	
32 93 13 00-0170	EA		1 Gallon Hymenocallis latifolia - Spider Lily.....	20.64	
32 93 13 00-0171	EA		3 Gallon Hymenocallis latifolia - Spider Lily.....	55.04	
32 93 13 00-0172	EA		1 Quart Hypericum perforatum - St. John's Wort.....	13.30	
32 93 13 00-0173	EA		1 Gallon Hypericum perforatum - St. John's Wort.....	31.92	
32 93 13 00-0174	EA		5 Gallon Hypericum perforatum - St. John's Wort.....	82.45	
32 93 13 00-0175	EA		24" To 30" High Viburnum awabuki - Sweet Viburnum.....	112.21	
32 93 13 00-0176	EA		1 Gallon Campsis radicans - Trumpet Creeper.....	48.76	
32 93 13 00-0177	EA		2 Gallon Campsis radicans - Trumpet Creeper.....	73.59	
32 93 13 00-0178	EA		5 Gallon Campsis radicans - Trumpet Creeper.....	177.32	
32 93 13 00-0179	EA		2-1/4" Pot Vinca major - Variegated Greater Periwinkle.....	4.43	
32 93 13 00-0180	EA		4" Pot Vinca major - Variegated Greater Periwinkle.....	13.30	
32 93 13 00-0181	EA		Bare Root Vinca major - Variegated Greater Periwinkle.....	4.43	
32 93 13 00-0182	EA		1 Quart Carex hachijoensis - Variegated Japanese Sedge.....	23.94	
32 93 13 00-0183	EA		1 Gallon Carex hachijoensis - Variegated Japanese Sedge.....	33.25	
32 93 13 00-0184	EA		2 Gallon Carex hachijoensis - Variegated Japanese Sedge.....	51.87	
32 93 13 00-0185	EA		1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf.....	36.35	
32 93 13 00-0186	EA		2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena.....	16.85	
32 93 13 00-0187	EA		1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena.....	25.71	
32 93 13 00-0188	EA		48 Plant Flat Vinca minor - Lesser Periwinkle.....	158.03	
32 93 13 00-0189	EA		3" Pot Parthenocissus quinquefolia - Virginia Creeper.....	7.98	
32 93 13 00-0190	EA		1 Gallon Parthenocissus quinquefolia - Virginia Creeper.....	41.67	
32 93 13 00-0191	EA		1 Gallon Jasminum polyanthum - Winter Jasmine.....	31.92	
32 93 13 00-0192	EA		2 Gallon Jasminum polyanthum - Winter Jasmine.....	63.84	
32 93 13 00-0193	EA		5 Gallon Jasminum polyanthum - Winter Jasmine.....	110.83	
32 93 13 00-0194	EA		1 Gallon Cistaceae - Wrinkleleaf Rock Rose.....	25.71	
32 93 13 00-0195	EA		5 Gallon Cistaceae - Wrinkleleaf Rock Rose.....	87.78	
32 93 13 00-0196	EA		1 Gallon Acrispon galaber - Common Deerweed.....	18.92	
32 93 13 00-0197	EA		1 Gallon Acacia redolens - Bank Catclaw.....	7.84	
32 93 13 00-0198	EA		5 Gallon Acacia redolens - Bank Catclaw.....	24.32	
32 93 13 00-0199	EA		15 Gallon Acacia redolens - Bank Catclaw.....	94.58	
32 93 13 00-0200	EA		1 Gallon Achillea filipendulina - Fernleaf Yarrow.....	11.62	
32 93 13 00-0201	EA		1 Gallon Achillea millefolium - Common Yarrow.....	10.54	
32 93 13 00-0202	EA		5 Gallon Achillea millefolium - Common Yarrow.....	32.43	
32 93 13 00-0203	EA		1 Gallon Achillea millefolium 'Paprika' - Red Yarrow.....	11.62	
32 93 13 00-0204	EA		1 Gallon Achillea 'Moonshine' - Yellow yarrow.....	11.62	
32 93 13 00-0205	EA		1 Gallon Agave americana - Century Plant.....	15.94	
32 93 13 00-0206	EA		5 Gallon Agave americana - Century Plant.....	43.24	
32 93 13 00-0207	EA		15 Gallon Agave americana - Century Plant.....	132.42	
32 93 13 00-0208	EA		24" Box Agave americana - Century Plant.....	472.92	
32 93 13 00-0209	EA		1 Gallon Agave vilmoriniana - Octopus Agave.....	15.94	
32 93 13 00-0210	EA		5 Gallon Agave vilmoriniana - Octopus Agave.....	43.24	
32 93 13 00-0211	EA		15 Gallon Agave vilmoriniana - Octopus Agave.....	132.42	
32 93 13 00-0212	EA		24" Box Agave vilmoriniana - Octopus Agave.....	472.92	
32 93 13 00-0213	EA		5 Gallon Nolina parryi - Giant Nolina.....	43.24	

32 93 23 Plants and Bulbs (32 93)

Note: Materials only. See CSI section 32 93 83 00-0062 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials (32 93 23)

32 93 23 00-0002	EA	2 Quart Assorted Daylilies.....	25.71
32 93 23 00-0003	EA	1 Gallon Assorted Daylilies.....	36.35
32 93 23 00-0004	EA	2 Gallon Assorted Daylilies.....	60.29
32 93 23 00-0005	EA	1 Quart Azure Penstemon.....	13.30
32 93 23 00-0006	EA	1 Gallon Azure Penstemon.....	33.25

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0007	EA	1 Quart Balloon Flower	13.30	
32 93 23 00-0008	EA	1 Gallon Balloon Flower	33.25	
32 93 23 00-0009	EA	1 Quart Black-eyed Susan	13.30	
32 93 23 00-0010	EA	1 Gallon Black-eyed Susan	33.25	
32 93 23 00-0011	EA	2 Gallon Black-eyed Susan	43.00	
32 93 23 00-0012	EA	1 Quart Blackberry Lily	13.30	
32 93 23 00-0013	EA	1 Gallon Blackberry Lily	33.25	
32 93 23 00-0014	EA	1 Quart Blank Flower	13.30	
32 93 23 00-0015	EA	1 Gallon Blank Flower	30.59	
32 93 23 00-0016	EA	2 Gallon Blank Flower	43.00	
32 93 23 00-0017	EA	1 Quart Blazing Star, Gayfeather	13.30	
32 93 23 00-0018	EA	1 Gallon Blazing Star, Gayfeather	33.25	
32 93 23 00-0019	EA	1 Quart Bloodred Geranium	22.61	
32 93 23 00-0020	EA	1 Gallon Bloodred Geranium	38.13	
32 93 23 00-0021	EA	1 Quart Blue Plumbago	13.30	
32 93 23 00-0022	EA	1 Gallon Blue Plumbago	33.25	
32 93 23 00-0023	EA	1 Quart Blue Star	23.94	
32 93 23 00-0024	EA	1 Gallon Blue Star	38.13	
32 93 23 00-0025	EA	1 Quart Cardinal Flower	13.30	
32 93 23 00-0026	EA	1 Gallon Cardinal Flower	33.25	
32 93 23 00-0027	EA	4" Pot Columbine	7.98	
32 93 23 00-0028	EA	1 Quart Columbine	13.30	
32 93 23 00-0029	EA	1 Gallon Columbine	33.25	
32 93 23 00-0030	EA	1 Quart Common Globeflower	13.30	
32 93 23 00-0031	EA	1 Gallon Common Globeflower	33.25	
32 93 23 00-0032	EA	1 Quart Cottage Pink, Scotch Pink	13.30	
32 93 23 00-0033	EA	1 Quart Cottage Pink, Scotch Pink	33.25	
32 93 23 00-0034	EA	1 Gallon Astilbe 'Deutschland'	47.88	
32 93 23 00-0035	EA	1 Quart Diploid	16.85	
32 93 23 00-0036	EA	1 Gallon Diploid	38.13	
32 93 23 00-0037	EA	3 Gallon Diploid	65.61	
32 93 23 00-0038	EA	4" Pot Dune Sunflower	18.98	
32 93 23 00-0039	EA	1 Quart Evans Begonia	23.94	
32 93 23 00-0040	EA	1 Gallon Evans Begonia	43.00	
32 93 23 00-0041	EA	1 Quart False Dragonhead	13.30	
32 93 23 00-0042	EA	1 Gallon False Dragonhead	33.25	
32 93 23 00-0043	EA	1 Quart False Spirea	13.30	
32 93 23 00-0044	EA	1 Gallon False Spirea	43.00	
32 93 23 00-0045	EA	3 Gallon False Spirea	59.40	
32 93 23 00-0046	EA	2 Quart False Sunflower	21.28	
32 93 23 00-0047	EA	1 Gallon False Sunflower	33.25	
32 93 23 00-0048	EA	2 Gallon False Sunflower	43.00	
32 93 23 00-0049	EA	1 Gallon Foxglove	30.59	
32 93 23 00-0050	EA	2 Gallon Foxglove	43.00	
32 93 23 00-0051	EA	3 Gallon Foxglove	62.06	
32 93 23 00-0052	EA	1 Gallon Francee Hostas	53.84	
32 93 23 00-0053	EA	1 Quart Garden Phlox	13.30	
32 93 23 00-0054	EA	1 Gallon Garden Phlox	33.25	
32 93 23 00-0055	EA	2 Quart Golden Groundsel	28.37	
32 93 23 00-0056	EA	2 Gallon Golden Groundsel	57.19	
32 93 23 00-0057	EA	1 Quart Golden Star	13.30	
32 93 23 00-0058	EA	1 Gallon Golden Star	33.25	
32 93 23 00-0059	EA	1 Quart Goldenrod	13.30	
32 93 23 00-0060	EA	1 Gallon Goldenrod	33.25	
32 93 23 00-0061	EA	1 Gallon Happy Returns Daylilies	61.92	
32 93 23 00-0062	EA	4" Pot Hardy Aster, Michaelmas Daisy	7.98	
32 93 23 00-0063	EA	1 Quart Hardy Aster, Michaelmas Daisy	13.30	
32 93 23 00-0064	EA	1 Gallon Hardy Aster, Michaelmas Daisy	33.25	
32 93 23 00-0065	EA	1 Quart Hardy Chrysanthemum	11.53	
32 93 23 00-0066	EA	6" To 8" Pot Hardy Chrysanthemum	19.07	
32 93 23 00-0067	EA	1 Gallon Hardy Chrysanthemum	30.59	
32 93 23 00-0068	EA	1 Gallon Herbaceous Peony	47.44	
32 93 23 00-0069	EA	2 Gallon Herbaceous Peony	75.81	
32 93 23 00-0070	EA	3 Gallon Herbaceous Peony	99.75	
32 93 23 00-0071	EA	4" Pot Japanese Anemone	7.98	
32 93 23 00-0072	EA	1 Quart Japanese Anemone	23.94	
32 93 23 00-0073	EA	2 Gallon Japanese Anemone	43.00	
32 93 23 00-0074	EA	2" Pot Japanese Spurge	4.73	
32 93 23 00-0075	EA	6" Pot Japanese Spurge	7.09	
32 93 23 00-0076	EA	1 Gallon Japanese Spurge	30.54	
32 93 23 00-0077	EA	1 Quart Oriental Poppy	19.07	
32 93 23 00-0078	EA	1 Gallon Oriental Poppy	38.13	
32 93 23 00-0079	EA	48 Plant Flat Pachysandra terminalis	158.03	
32 93 23 00-0080	EA	1 Gallon Pacific Coast Iris	26.16	
32 93 23 00-0081	EA	3 Gallon Pacific Coast Iris	49.66	
32 93 23 00-0082	EA	1 Gallon Palace Purple Coral Bells	50.34	
32 93 23 00-0083	EA	4" Pot Perennial Salvia	7.98	
32 93 23 00-0084	EA	1 Quart Perennial Salvia	13.30	
32 93 23 00-0085	EA	1 Gallon Perennial Salvia	33.25	
32 93 23 00-0086	EA	1 Quart Pincushion Flower	13.30	
32 93 23 00-0087	EA	1 Gallon Pincushion Flower	33.25	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0088	EA		2 Quart Plantain Lily	25.71	
32 93 23 00-0089	EA		1 Gallon Plantain Lily	36.35	
32 93 23 00-0090	EA		2 Gallon Plantain Lily	60.29	
32 93 23 00-0091	EA		3 Gallon Plantain Lily	113.94	
32 93 23 00-0092	EA		2 Quart Purple Coneflower	23.94	
32 93 23 00-0093	EA		1 Gallon Purple Coneflower	33.25	
32 93 23 00-0094	EA		2 Gallon Purple Coneflower	43.00	
32 93 23 00-0095	EA		1 Quart Purple Loosestrife	13.30	
32 93 23 00-0096	EA		1 Gallon Purple Loosestrife	33.25	
32 93 23 00-0097	EA		1 Quart Rose Mallow	26.16	
32 93 23 00-0098	EA		2 Gallon Rose Mallow	47.44	
32 93 23 00-0099	EA		3 Gallon Rose Mallow	81.13	
32 93 23 00-0100	EA		1 Gallon Autumn Joy Sedum	50.69	
32 93 23 00-0101	EA		1 Quart Siberian Iris	22.61	
32 93 23 00-0102	EA		2 Gallon Siberian Iris	43.00	
32 93 23 00-0103	EA		3 Gallon Siberian Iris	59.40	
32 93 23 00-0104	EA		1 Quart Speedwell	13.30	
32 93 23 00-0105	EA		1 Gallon Speedwell	33.25	
32 93 23 00-0106	EA		1 Quart Tetraploid	33.25	
32 93 23 00-0107	EA		1 Gallon Tetraploid	62.06	
32 93 23 00-0108	EA		3 Gallon Tetraploid	84.68	
32 93 23 00-0109	EA		1 Quart Threadleaf Coreopsis	13.30	
32 93 23 00-0110	EA		1 Gallon Threadleaf Coreopsis	33.25	
32 93 23 00-0111	EA		1 Quart Torch Lily	13.30	
32 93 23 00-0112	EA		1 Quart Bluebeard	23.94	
32 93 23 00-0113	EA		1 Gallon Bluebeard	35.47	
32 93 23 00-0114	EA		2 Gallon Bluebeard	51.87	
32 93 23 00-0115	EA		1 Gallon Anemopsis californica - Yerba Mansa	13.34	
32 93 23 00-0116	EA		1 Gallon Artemisia palmeri - San Diego Sagewort	11.86	
32 93 23 00-0117	EA		1 Gallon Arthrocnemum subterminale - Parish's Pickleweed	14.83	
32 93 23 00-0118	EA		1 Gallon Cressa truxillensis - Alkali Weed	14.83	
32 93 23 00-0119	EA		1 Gallon Frankenia salina - Alkali Heath	11.86	
32 93 23 00-0120	EA		4" Pot Jaumea carnosa - Salt Marsh Daisy	5.94	
32 93 23 00-0121	EA		1 Gallon Jaumea carnosa - Salt Marsh Daisy	11.87	
32 93 23 00-0122	EA		1 Gallon Juncus acutus - Spiny Rush	11.86	
32 93 23 00-0123	EA		5 Gallon Juncus acutus - Spiny Rush	31.02	
32 93 23 00-0124	EA		1 Gallon Limonium californicum - Sea Lavender	11.86	
32 93 23 00-0125	EA		1 Gallon Salicornia virginica - Deer Weed	11.86	
32 93 23 00-0126	EA		1 Gallon Suaeda esteroa - Sea Blite	14.83	
32 93 23 00-0127	EA		1 Gallon Suaeda taxifolia - Woolly Sea Blite	11.86	
32 93 23 00-0128 Annuals (32 93 23)					
32 93 23 00-0129	EA		2-1/2" Pot Annual Flowers	6.17	
32 93 23 00-0130	EA		3" Pot Annual Flowers	8.35	
32 93 23 00-0131	EA		4" Pot Annual Flowers	17.84	
32 93 23 00-0132	EA		5-1/2" Pot Annual Flowers	23.73	
32 93 23 00-0133	EA		6" Pot Annual Flowers	46.98	
32 93 23 00-0134	EA		8" Pot Annual Flowers	78.30	
32 93 23 00-0135	EA		36 Plant Flat Annual Flowers	102.50	
32 93 23 00-0136	EA		48 Plant Flat Annual Flowers	116.27	
32 93 23 00-0137 Bulbs (32 93 23)					
32 93 23 00-0138	EA		Top Size Allium giganteum - Giant Ornamental Onion	21.46	
32 93 23 00-0139	EA		Top Size Allium sphaerocephalum - Drumstick Ornamental Onion	1.24	
32 93 23 00-0140	EA		Top Size Crocus Hybrid	1.40	
32 93 23 00-0141	EA		Top Size Eranthis hyemalis - Winter Aconite	1.82	
32 93 23 00-0142	EA		Top Size Galanthus nivalis - Snowdrops	2.31	
32 93 23 00-0143	EA		Top Size Iris reticulata cvs - Dutch Iris	0.91	
32 93 23 00-0144	EA		Top Size Muscari armeniacum - Grape Hyacinth	1.07	
32 93 23 00-0145	EA		Top Size Muscari latifolium - Grape Hyacinth	1.24	
32 93 23 00-0146	EA		Narcissus 'Carlton' - Carlton Daffodil DNI	7.43	
32 93 23 00-0147	EA		Narcissus 'Dutch Master' - Dutch Master Daffodil DNI	3.55	
32 93 23 00-0148	EA		Narcissus 'February Gold' - February Gold Daffodil DNI	3.71	
32 93 23 00-0149	EA		Narcissus 'Ice Follies' - Ice Follies Daffodil DNI	3.71	
32 93 23 00-0150	EA		Narcissus 'Mount Hood' - Mount Hood Daffodil DNI	3.88	
32 93 23 00-0151	EA		Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI	4.13	
32 93 23 00-0152	EA		Narcissus 'Pipit' - Pipit Daffodil DNI	3.88	
32 93 23 00-0153	EA		Narcissus 'Salome' - Salome Daffodil DNI	3.63	
32 93 23 00-0154	EA		Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI	3.88	
32 93 23 00-0155	EA		Narcissus 'Thalia' - Thalia Daffodil DNI	3.88	
32 93 23 00-0156	EA		Top Size Scilla siberica - Siberian Squill	1.16	
32 93 23 00-0157	EA		Top Size Tulip 'Angelique' - Angelique Tulip	3.30	
32 93 23 00-0158	EA		Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip	2.48	
32 93 23 00-0159	EA		Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip	3.30	
32 93 23 00-0160	EA		Top Size Tulip 'Big Smile' - Big Smile Tulip	2.89	
32 93 23 00-0161	EA		Top Size Tulip 'Black Parrot' - Black Parrot Tulip	4.13	
32 93 23 00-0162	EA		Top Size Tulip 'Blue Heron' - Blue Heron Tulip	3.14	
32 93 23 00-0163	EA		Top Size Tulip 'Cardinal' - Cardinal Tulip	2.72	
32 93 23 00-0164	EA		Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip	3.05	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 23 00-0165	EA	Top Size Tulip clusiana - Species Tulip	3.05
32 93 23 00-0166	EA	Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip	3.05
32 93 23 00-0167	EA	Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip	2.48
32 93 23 00-0168	EA	Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip	2.39
32 93 23 00-0169	EA	Top Size Tulip 'Halcro' - Halcro Tulip	2.48
32 93 23 00-0170	EA	Top Size Tulip 'Ivory Floridale' - Ivory Floridale Tulip	4.13
32 93 23 00-0171	EA	Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip	2.48
32 93 23 00-0172	EA	Top Size Tulip 'Passionale' - Passionale Tulip	3.30
32 93 23 00-0173	EA	Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip	3.55
32 93 23 00-0174	EA	Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip	3.71
32 93 23 00-0175	EA	Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip	2.97
32 93 23 00-0176	EA	Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip	2.81
32 93 23 00-0177	EA	Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip	3.05
32 93 23 00-0178	EA	Top Size Tulip 'Princes' - Princes Tulip	3.05
32 93 23 00-0179	EA	Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip	2.39
32 93 23 00-0180	EA	Top Size Tulip saxatilis - Species Tulip	1.65
32 93 23 00-0181	EA	Top Size Tulip 'Shirley' - Shirley Tulip	2.48
32 93 23 00-0182	EA	Top Size Tulip 'Spring Green' - Spring Green Tulip	3.22
32 93 23 00-0183	EA	Top Size Tulip 'White Emperor' - White Emperor Tulip	2.48

32 93 33 Shrubs (32 93)

Note: (cvs = cultivar or cultivated varieties) materials only. See CSI section 32 93 83 00-0038 for installation and planting of shrubs.

32 93 33 00-0001**Shrubs (32 93 33)**

32 93 33 00-0002	EA	1 Gallon Abelia x grandiflora - Abelia	22.62
32 93 33 00-0003	EA	3 Gallon Abelia x grandiflora - Abelia	46.07
32 93 33 00-0004	EA	5 Gallon Abelia x grandiflora - Abelia	88.43
32 93 33 00-0005	EA	3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	105.93
32 93 33 00-0006	EA	18" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	154.82
32 93 33 00-0007	EA	24" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	172.74
32 93 33 00-0008	EA	30" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	218.37
32 93 33 00-0009	EA	36" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	242.82
32 93 33 00-0010	EA	18" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	48.89
32 93 33 00-0011	EA	24" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	65.19
32 93 33 00-0012	EA	30" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	81.48
32 93 33 00-0013	EA	36" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	44.47
32 93 33 00-0014	EA	42" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	52.31
32 93 33 00-0015	EA	48" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	62.78
32 93 33 00-0016	EA	60" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	73.24
32 93 33 00-0017	EA	72" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	88.93
32 93 33 00-0018	EA	36" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	43.16
32 93 33 00-0019	EA	42" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	45.77
32 93 33 00-0020	EA	48" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	48.39
32 93 33 00-0021	EA	60" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	54.93
32 93 33 00-0022	EA	36" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	43.81
32 93 33 00-0023	EA	42" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	46.43
32 93 33 00-0024	EA	48" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	49.04
32 93 33 00-0025	EA	60" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	51.66
32 93 33 00-0026	EA	1 Gallon Aspidistra elatior - Cast Iron Plant	8.99
32 93 33 00-0027	EA	2 Gallon Aspidistra elatior - Cast Iron Plant	20.79
32 93 33 00-0028	EA	1 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	9.86
32 93 33 00-0029	EA	5 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	24.38
32 93 33 00-0030	EA	1 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	9.86
32 93 33 00-0031	EA	5 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	24.38
32 93 33 00-0032	EA	1 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	10.54
32 93 33 00-0033	EA	3 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	23.18
32 93 33 00-0034	EA	5 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	31.33
32 93 33 00-0035	EA	1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	11.24
32 93 33 00-0036	EA	2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	16.44
32 93 33 00-0037	EA	15" To 18" Berberis - Northern Bayberry	46.92
32 93 33 00-0038	EA	2' To 2-1/2' Berberis - Northern Bayberry	59.57
32 93 33 00-0039	EA	2-1/2' To 3' Berberis - Northern Bayberry	83.46
32 93 33 00-0040	EA	1 Gallon Berberis Buxifolia 'Nana' - Barberry	11.13
32 93 33 00-0041	EA	5 Gallon Berberis Buxifolia 'Nana' - Barberry	26.82
32 93 33 00-0042	EA	18" To 24" Berberis julianae - Dwarf Wintergreen Barberry	50.16
32 93 33 00-0043	EA	2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry	64.21
32 93 33 00-0044	EA	2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberry	82.05
32 93 33 00-0045	EA	1 Gallon Berberis thunbergii - Crimson Pygmy Barberry	13.49
32 93 33 00-0046	EA	2 Gallon Berberis thunbergii - Crimson Pygmy Barberry	26.55
32 93 33 00-0047	EA	3 Gallon Berberis thunbergii - Crimson Pygmy Barberry	32.45
32 93 33 00-0048	EA	1 Gallon Berberis x mentorensis - Mentor Barberry	12.79
32 93 33 00-0049	EA	5 Gallon Berberis x mentorensis - Mentor Barberry	36.11
32 93 33 00-0050	EA	2' To 3' Berberis x mentorensis - Mentor Barberry	50.16
32 93 33 00-0051	EA	3' To 4' Berberis x mentorensis - Mentor Barberry	77.41
32 93 33 00-0052	EA	1 Gallon Buxus microphylla japonica - Japanese Boxwood	14.61
32 93 33 00-0053	EA	5 Gallon Buxus microphylla japonica - Japanese Boxwood	39.20
32 93 33 00-0054	EA	12" To 15" Buxus microphylla japonica - Japanese Boxwood	41.73
32 93 33 00-0055	EA	15" To 18" Buxus microphylla japonica - Japanese Boxwood	53.67
32 93 33 00-0056	EA	18" To 24" Buxus microphylla japonica - Japanese Boxwood	71.51
32 93 33 00-0057	EA	24" To 30" Buxus microphylla japonica - Japanese Boxwood	107.34



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0058	EA		30" To 36" Buxus microphylla japonica - Japanese Boxwood	149.07	
32 93 33 00-0059	EA		12" To 15" Buxus sempervirens - Common Boxwood	41.73	
32 93 33 00-0060	EA		15" To 18" Buxus sempervirens - Common Boxwood	53.67	
32 93 33 00-0061	EA		18" To 24" Buxus sempervirens - Common Boxwood	71.51	
32 93 33 00-0062	EA		24" To 30" Buxus sempervirens - Common Boxwood	107.34	
32 93 33 00-0063	EA		2 Gallon Buxus Hybrid - Boxwood Cultivars	27.46	
32 93 33 00-0064	EA		5 Gallon Buxus Hybrid - Boxwood Cultivars	45.77	
32 93 33 00-0065	EA		5 Gallon Buxus microphylla & cvs - Little leaf Boxwood	120.32	
32 93 33 00-0066	EA		18" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	65.39	
32 93 33 00-0067	EA		24" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	88.93	
32 93 33 00-0068	EA		30" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	120.32	
32 93 33 00-0069	EA		5 Gallon Calycanthus floridus - Common Sweetshrub	43.16	
32 93 33 00-0070	EA		30" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub	39.23	
32 93 33 00-0071	EA		36" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub	52.31	
32 93 33 00-0072	EA		1 Gallon Camellia "Sasanqua" - Camellia	16.76	
32 93 33 00-0073	EA		3 Gallon Camellia "Sasanqua" - Camellia	35.75	
32 93 33 00-0074	EA		5 Gallon Camellia "Sasanqua" - Camellia	59.43	
32 93 33 00-0075	EA		7 Gallon Camellia "Sasanqua" - Camellia	88.50	
32 93 33 00-0076	EA		15 Gallon Camellia "Sasanqua" - Camellia	229.62	
32 93 33 00-0077	EA		1 Gallon Camellia japonica - Camellia	16.76	
32 93 33 00-0078	EA		3 Gallon Camellia japonica - Camellia	35.75	
32 93 33 00-0079	EA		5 Gallon Camellia japonica - Camellia	59.43	
32 93 33 00-0080	EA		5 Gallon Ceanothus americanus - New Jersey Tea	43.16	
32 93 33 00-0081	EA		1 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	11.13	
32 93 33 00-0082	EA		5 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	28.94	
32 93 33 00-0083	EA		5 Gallon Celastrus scandens - Bittersweet	43.16	
32 93 33 00-0084	EA		36" Balled and Burlapped, Celastrus scandens - Bittersweet	36.62	
32 93 33 00-0085	EA		5 Gallon Cephalanthus occidentalis - Buttonbush	43.16	
32 93 33 00-0086	EA		24" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	32.70	
32 93 33 00-0087	EA		30" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	36.62	
32 93 33 00-0088	EA		36" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	39.23	
32 93 33 00-0089	EA		18" To 24" Chaenomeles speciosa - Flowering Quince	37.65	
32 93 33 00-0090	EA		2' To 3' Chaenomeles speciosa - Flowering Quince	50.16	
32 93 33 00-0091	EA		3' To 4' Chaenomeles speciosa - Flowering Quince	77.41	
32 93 33 00-0092	EA		3 Gallon Clethra alnifolia & cvs - Summersweet Clethra	41.85	
32 93 33 00-0093	EA		18" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	45.12	
32 93 33 00-0094	EA		24" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	50.35	
32 93 33 00-0095	EA		30" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	52.97	
32 93 33 00-0096	EA		36" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	62.12	
32 93 33 00-0097	EA		1 Gallon Cistus Hybridus - White Rockrose	9.86	
32 93 33 00-0098	EA		5 Gallon Cistus Hybridus - White Rockrose	24.38	
32 93 33 00-0099	EA		1 Gallon Coleonema Pulchellum - Confetti Bush	9.86	
32 93 33 00-0100	EA		5 Gallon Coleonema Pulchellum - Confetti Bush	24.38	
32 93 33 00-0101	EA		15 Gallon Coleonema Pulchellum - Confetti Bush	114.17	
32 93 33 00-0102	EA		2' To 3' Cornus mas - Cornelian Cherry	59.57	
32 93 33 00-0103	EA		3' To 4' Cornus mas - Cornelian Cherry	74.46	
32 93 33 00-0104	EA		4' To 5' Cornus mas - Cornelian Cherry	95.40	
32 93 33 00-0105	EA		5' To 6' Cornus mas - Cornelian Cherry	131.08	
32 93 33 00-0106	EA		5 Gallon Cornus alba & cvs - Tartarian Dogwood	39.23	
32 93 33 00-0107	EA		36" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	27.46	
32 93 33 00-0108	EA		48" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	31.39	
32 93 33 00-0109	EA		60" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	39.23	
32 93 33 00-0110	EA		72" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	47.08	
32 93 33 00-0111	EA		36" Balled and Burlapped, Cornus amomum - Silky Dogwood	39.23	
32 93 33 00-0112	EA		5 Gallon Cornus obliqua - Blue Fruited Dogwood	43.16	
32 93 33 00-0113	EA		5 Gallon Cornus racemosa - Gray Dogwood	43.16	
32 93 33 00-0114	EA		36" Balled and Burlapped, Cornus racemosa - Gray Dogwood	39.23	
32 93 33 00-0115	EA		48" Balled and Burlapped, Cornus racemosa - Gray Dogwood	45.77	
32 93 33 00-0116	EA		60" Balled and Burlapped, Cornus racemosa - Gray Dogwood	49.70	
32 93 33 00-0117	EA		72" Balled and Burlapped, Cornus racemosa - Gray Dogwood	60.16	
32 93 33 00-0118	EA		36" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	42.50	
32 93 33 00-0119	EA		48" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	47.74	
32 93 33 00-0120	EA		60" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	54.27	
32 93 33 00-0121	EA		24" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	34.00	
32 93 33 00-0122	EA		30" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	39.23	
32 93 33 00-0123	EA		36" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	41.85	
32 93 33 00-0124	EA		48" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	45.77	
32 93 33 00-0125	EA		60" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	51.01	
32 93 33 00-0126	EA		5 Gallon Corylus americana - American Filbert	40.54	
32 93 33 00-0127	EA		30" Balled and Burlapped, Corylus americana - American Filbert	45.77	
32 93 33 00-0128	EA		36" Balled and Burlapped, Corylus americana - American Filbert	49.04	
32 93 33 00-0129	EA		48" Balled and Burlapped, Corylus americana - American Filbert	52.97	
32 93 33 00-0130	EA		24" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	130.78	
32 93 33 00-0131	EA		30" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	170.02	
32 93 33 00-0132	EA		36" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	183.10	
32 93 33 00-0133	EA		42" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	235.41	
32 93 33 00-0134	EA		48" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	287.72	
32 93 33 00-0135	EA		60" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	326.96	
32 93 33 00-0136	EA		5' To 6' Cotinus coggygia - Smoke Tree	125.18	
32 93 33 00-0137	EA		6' To 8' Cotinus coggygia - Smoke Tree	187.70	
32 93 33 00-0138	EA		8' To 10' Cotinus coggygia - Smoke Tree	283.10	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0139	EA	5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	32.70	
32 93 33 00-0140	EA	18" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster	32.70	
32 93 33 00-0141	EA	24" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster	34.00	
32 93 33 00-0142	EA	12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster.....	31.33	
32 93 33 00-0143	EA	3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster	34.00	
32 93 33 00-0144	EA	18" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	32.70	
32 93 33 00-0145	EA	24" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	34.00	
32 93 33 00-0146	EA	1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster.....	13.49	
32 93 33 00-0147	EA	2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster.....	41.73	
32 93 33 00-0148	EA	3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster.....	56.34	
32 93 33 00-0149	EA	4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster.....	95.40	
32 93 33 00-0150	EA	1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	9.86	
32 93 33 00-0151	EA	5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	24.38	
32 93 33 00-0152	EA	1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	13.49	
32 93 33 00-0153	EA	2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	26.55	
32 93 33 00-0154	EA	1 Gallon Cotoneaster lacteus - Red Clusterberry	9.86	
32 93 33 00-0155	EA	5 Gallon Cotoneaster lacteus - Red Clusterberry	24.38	
32 93 33 00-0156	EA	15 Gallon Cotoneaster lacteus - Red Clusterberry	96.78	
32 93 33 00-0157	EA	18" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	33.35	
32 93 33 00-0158	EA	24" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	36.62	
32 93 33 00-0159	EA	30" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	47.08	
32 93 33 00-0160	EA	36" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	54.93	
32 93 33 00-0161	EA	42" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	62.78	
32 93 33 00-0162	EA	24" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	52.31	
32 93 33 00-0163	EA	30" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	62.78	
32 93 33 00-0164	EA	36" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	73.24	
32 93 33 00-0165	EA	2 Gallon Diervilla splendens - Splendens Bush Honeysuckle.....	19.62	
32 93 33 00-0166	EA	36" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle.....	47.08	
32 93 33 00-0167	EA	48" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle.....	62.78	
32 93 33 00-0168	EA	1 Gallon Elaeagnus - Silverberry	12.03	
32 93 33 00-0169	EA	3 Gallon Elaeagnus - Silverberry	24.06	
32 93 33 00-0170	EA	5 Gallon Elaeagnus - Silverberry	33.09	
32 93 33 00-0171	EA	3' To 4' Elaeagnus umbellata - Autumn Olive	39.06	
32 93 33 00-0172	EA	4' To 5' Elaeagnus umbellata - Autumn Olive	53.67	
32 93 33 00-0173	EA	5' To 6' Elaeagnus umbellata - Autumn Olive	64.21	
32 93 33 00-0174	EA	3' To 4' Elaeagnus angustifolia - Russian Olive	62.52	
32 93 33 00-0175	EA	1 Gallon Euonymus - Gold Spot	11.24	
32 93 33 00-0176	EA	2 Gallon Euonymus - Gold Spot	23.60	
32 93 33 00-0177	EA	5 Gallon Euonymus - Gold Spot	32.46	
32 93 33 00-0178	EA	1 Gallon Euonymus alatus - Winged Euonymus.....	9.60	
32 93 33 00-0179	EA	3 Gallon Euonymus alatus - Winged Euonymus.....	27.67	
32 93 33 00-0180	EA	24" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	37.30	
32 93 33 00-0181	EA	30" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	46.62	
32 93 33 00-0182	EA	36" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	64.07	
32 93 33 00-0183	EA	42" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	79.11	
32 93 33 00-0184	EA	48" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	93.25	
32 93 33 00-0185	EA	54" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	120.32	
32 93 33 00-0186	EA	5 Gallon Euonymus alatus - Winged Euonymus.....	34.59	
32 93 33 00-0187	EA	60" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	150.40	
32 93 33 00-0188	EA	30" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	58.85	
32 93 33 00-0189	EA	36" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	69.97	
32 93 33 00-0190	EA	42" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	91.55	
32 93 33 00-0191	EA	48" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	109.86	
32 93 33 00-0192	EA	60" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	136.01	
32 93 33 00-0193	EA	18" To 24" Euonymus alatus - Winged Burning Bush	41.73	
32 93 33 00-0194	EA	2' To 2-1/2' Euonymus alatus - Winged Burning Bush	49.17	
32 93 33 00-0195	EA	2-1/2' To 3' Euonymus alatus - Winged Burning Bush.....	67.16	
32 93 33 00-0196	EA	3' To 3-1/2' Euonymus alatus - Winged Burning Bush.....	80.50	
32 93 33 00-0197	EA	3-1/2' To 4' Euonymus alatus - Winged Burning Bush.....	101.30	
32 93 33 00-0198	EA	4' To 5' Euonymus alatus - Winged Burning Bush	143.03	
32 93 33 00-0199	EA	5' To 6' Euonymus alatus - Winged Burning Bush	178.85	
32 93 33 00-0200	EA	6' To 8' Euonymus alatus - Winged Burning Bush	208.64	
32 93 33 00-0201	EA	15" To 18" Euonymus alatus - Dwarf Winged Burning Bush.....	41.73	
32 93 33 00-0202	EA	18" To 24" Euonymus alatus - Dwarf Winged Burning Bush.....	47.63	
32 93 33 00-0203	EA	2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	58.17	
32 93 33 00-0204	EA	2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush.....	82.05	
32 93 33 00-0205	EA	3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	96.94	
32 93 33 00-0206	EA	3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush.....	116.19	
32 93 33 00-0207	EA	4' To 5' Euonymus alatus - Dwarf Winged Burning Bush.....	163.96	
32 93 33 00-0208	EA	5' To 6' Euonymus alatus - Dwarf Winged Burning Bush.....	193.74	
32 93 33 00-0209	EA	36" Balled and Burlapped, Euonymus atropurpurea - Eastern Wahoo	35.31	
32 93 33 00-0210	EA	1 Gallon Euonymus fortunei - Wintercreeper	13.49	
32 93 33 00-0211	EA	2 Gallon Euonymus fortunei - Wintercreeper	26.55	
32 93 33 00-0212	EA	3 Gallon Euonymus fortunei - Wintercreeper	32.46	
32 93 33 00-0213	EA	5 Gallon Euonymus fortunei - Wintercreeper	38.50	
32 93 33 00-0214	EA	2' To 3' Forsythia - Korean Forsythia	29.79	
32 93 33 00-0215	EA	3' To 4' Forsythia - Korean Forsythia	37.65	
32 93 33 00-0216	EA	4' To 5' Forsythia - Korean Forsythia	46.92	
32 93 33 00-0217	EA	30" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	30.08	
32 93 33 00-0218	EA	36" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	33.35	
32 93 33 00-0219	EA	48" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	35.97	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0220	EA	18"	Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	31.39	
32 93 33 00-0221	EA	24"	Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	41.85	
32 93 33 00-0222	EA	24"	Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	31.39	
32 93 33 00-0223	EA	30"	Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	36.62	
32 93 33 00-0224	EA	36"	Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	43.16	
32 93 33 00-0225	EA	42"	Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	49.70	
32 93 33 00-0226	EA	48"	Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	57.54	
32 93 33 00-0227	EA	2	Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	44.47	
32 93 33 00-0228	EA	3	Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	62.12	
32 93 33 00-0229	EA	5	Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	65.39	
32 93 33 00-0230	EA	15"	Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	68.01	
32 93 33 00-0231	EA	18"	Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	73.24	
32 93 33 00-0232	EA	24"	Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	88.93	
32 93 33 00-0233	EA	24"	Balled and Burlapped, Fothergilla major - Large Fothergilla	115.09	
32 93 33 00-0234	EA	30"	Balled and Burlapped, Fothergilla major - Large Fothergilla	130.78	
32 93 33 00-0235	EA	1	Gallon Gardenia jasminoides - Cape Jasmine	9.69	
32 93 33 00-0236	EA	3	Gallon Gardenia jasminoides - Cape Jasmine	25.43	
32 93 33 00-0237	EA	5	Gallon Gardenia jasminoides - Cape Jasmine	32.46	
32 93 33 00-0238	EA	36"	Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	91.55	
32 93 33 00-0239	EA	48"	Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	149.09	
32 93 33 00-0240	EA	60"	Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	188.33	
32 93 33 00-0241	EA	72"	Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	287.72	
32 93 33 00-0242	EA	84"	Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	326.96	
32 93 33 00-0243	EA	1	Gallon Hedychium gartdnerum - Variegated Ginger	5.56	
32 93 33 00-0244	EA	3	Gallon Hedychium gartdnerum - Variegated Ginger	19.55	
32 93 33 00-0245	EA	5	Gallon Hedychium gartdnerum - Variegated Ginger	37.60	
32 93 33 00-0246	EA	1	Gallon Hibiscus rosa-sinensis - Hibiscus	14.26	
32 93 33 00-0247	EA	3	Gallon Hibiscus rosa-sinensis - Hibiscus	24.06	
32 93 33 00-0248	EA	5	Gallon Hibiscus rosa-sinensis - Hibiscus	36.40	
32 93 33 00-0249	EA	5	Gallon Hibiscus syriacus - Rose Of Sharon	37.65	
32 93 33 00-0250	EA	2' To 3'	Hibiscus syriacus - Rose Of Sharon	32.03	
32 93 33 00-0251	EA	3' To 4'	Hibiscus syriacus - Rose Of Sharon	43.27	
32 93 33 00-0252	EA	4' To 5'	Hibiscus syriacus - Rose Of Sharon	62.52	
32 93 33 00-0253	EA	5' To 6'	Hibiscus syriacus - Rose Of Sharon	86.41	
32 93 33 00-0254	EA	2	Gallon Hydrangea - Blue Hydrangea	26.55	
32 93 33 00-0255	EA	5	Gallon Hydrangea - Blue Hydrangea	37.37	
32 93 33 00-0256	EA	2' To 3'	Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	41.73	
32 93 33 00-0257	EA	3' To 4'	Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	47.63	
32 93 33 00-0258	EA	2	Gallon Hydrangea quercifolia - Oakleaf Hydrangea	26.55	
32 93 33 00-0259	EA	5	Gallon Hydrangea arborescens & cvs - Smooth Hydrangea	45.77	
32 93 33 00-0260	EA	30"	Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	49.70	
32 93 33 00-0261	EA	36"	Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	57.54	
32 93 33 00-0262	EA	4	Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea	60.16	
32 93 33 00-0263	EA	18"	Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	47.08	
32 93 33 00-0264	EA	24"	Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	62.78	
32 93 33 00-0265	EA	3	Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	27.46	
32 93 33 00-0266	EA	5	Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	32.70	
32 93 33 00-0267	EA	18"	Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	28.12	
32 93 33 00-0268	EA	24"	Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	30.08	
32 93 33 00-0269	EA	30"	Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	34.00	
32 93 33 00-0270	EA	36"	Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	39.23	
32 93 33 00-0271	EA	48"	Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	52.31	
32 93 33 00-0272	EA	18"	Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	37.93	
32 93 33 00-0273	EA	24"	Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	43.16	
32 93 33 00-0274	EA	30"	Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	51.01	
32 93 33 00-0275	EA	2	Gallon Hypericum kalmianum - St. John's Wort	26.55	
32 93 33 00-0276	EA	3	Gallon Hypericum kalmianum - Kalm St. John's Wort	31.39	
32 93 33 00-0277	EA	24"	Balled and Burlapped, Hypericum kalmianum - Kalm St. John's Wort	34.00	
32 93 33 00-0278	EA	1	Gallon Ilex "Carissa" - Holly	13.49	
32 93 33 00-0279	EA	2	Gallon Ilex "Carissa" - Holly	26.55	
32 93 33 00-0280	EA	5	Gallon Ilex "Carissa" - Holly	37.37	
32 93 33 00-0281	EA	18" To 24"	Ilex - Gulfside Sweet Holly	35.83	
32 93 33 00-0282	EA	2' To 2-1/2'	Ilex - Gulfside Sweet Holly	45.38	
32 93 33 00-0283	EA	2-1/2' To 3'	Ilex - Gulfside Sweet Holly	58.87	
32 93 33 00-0284	EA	3' To 3-1/2'	Ilex - Gulfside Sweet Holly	71.51	
32 93 33 00-0285	EA	3	Gallon Ilex cornuta - Dwarf Horned Holly	26.76	
32 93 33 00-0286	EA	1	Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	13.49	
32 93 33 00-0287	EA	2	Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	26.55	
32 93 33 00-0288	EA	5	Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	38.50	
32 93 33 00-0289	EA	1	Gallon Ilex crenata - Hellers Japanese Holly	13.49	
32 93 33 00-0290	EA	2	Gallon Ilex crenata - Hellers Japanese Holly	29.51	
32 93 33 00-0291	EA	3	Gallon Ilex crenata - Hellers Japanese Holly	38.50	
32 93 33 00-0292	EA	2	Gallon Ilex crenata - Hetzi Japanese Holly	29.50	
32 93 33 00-0293	EA	3	Gallon Ilex crenata - Hetzi Japanese Holly	35.55	
32 93 33 00-0294	EA	2' To 3'	Ilex crenata - Hetzi Japanese Holly	71.51	
32 93 33 00-0295	EA	3' To 4'	Ilex crenata - Hetzi Japanese Holly	95.40	
32 93 33 00-0296	EA	2' To 3'	Ilex opaca - American Holly	95.40	
32 93 33 00-0297	EA	3' To 4'	Ilex opaca - American Holly	157.92	
32 93 33 00-0298	EA	4' To 5'	Ilex opaca - American Holly	202.60	
32 93 33 00-0299	EA	5' To 6'	Ilex opaca - American Holly	244.32	
32 93 33 00-0300	EA	6' To 7'	Ilex opaca - American Holly	342.67	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0301 EA 7' To 8' Ilex opaca - American Holly.....	476.85	
32 93 33 00-0302 EA 8' To 10' Ilex opaca - American Holly.....	685.34	
32 93 33 00-0303 EA 10' To 12' Ilex opaca - American Holly.....	1,043.05	
32 93 33 00-0304 EA 12' To 14' Ilex opaca - American Holly.....	1,266.44	
32 93 33 00-0305 EA 14' To 16' Ilex opaca - American Holly.....	1,564.43	
32 93 33 00-0306 EA 2' To 3' Ilex verticillata - Winterberry (Female).....	95.40	
32 93 33 00-0307 EA 3' To 4' Ilex verticillata - Winterberry (Female).....	125.18	
32 93 33 00-0308 EA 2' To 3' Ilex verticillata - Winterberry (Male).....	77.41	
32 93 33 00-0309 EA 3' To 4' Ilex verticillata - Winterberry (Male).....	107.34	
32 93 33 00-0310 EA 4' To 5' Ilex verticillata - Winterberry (Male).....	125.18	
32 93 33 00-0311 EA 1 Gallon Ilex vomitoria - Yaupon Holly.....	12.65	
32 93 33 00-0312 EA 3 Gallon Ilex vomitoria - Yaupon Holly.....	25.43	
32 93 33 00-0313 EA 10 Gallon Ilex vomitoria - Yaupon Holly.....	89.36	
32 93 33 00-0314 EA 18" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly.....	40.54	
32 93 33 00-0315 EA 24" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly.....	45.77	
32 93 33 00-0316 EA 3 Gallon Ilex meserveae & cvs - Blue Holly.....	52.31	
32 93 33 00-0317 EA 18" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly.....	48.39	
32 93 33 00-0318 EA 24" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly.....	58.85	
32 93 33 00-0319 EA 5 Gallon Ilex verticillata & cvs - Common Winterberry.....	43.16	
32 93 33 00-0320 EA 24" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	43.16	
32 93 33 00-0321 EA 30" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	45.77	
32 93 33 00-0322 EA 36" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	54.93	
32 93 33 00-0323 EA 42" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	61.47	
32 93 33 00-0324 EA 48" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	65.39	
32 93 33 00-0325 EA 60" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	83.70	
32 93 33 00-0326 EA 4' To 5' Ilex x attenuata "Foster" - Holly.....	154.97	
32 93 33 00-0327 EA 5' To 6' Ilex x attenuata "Foster" - Holly.....	205.55	
32 93 33 00-0328 EA 6' To 7' Ilex x attenuata "Foster" - Holly.....	183.91	
32 93 33 00-0329 EA 7' To 8' Ilex x attenuata "Foster" - Holly.....	357.56	
32 93 33 00-0330 EA 1 Gallon Jasminum - Jasmine.....	3.46	
32 93 33 00-0331 EA 3 Gallon Jasminum - Jasmine.....	13.54	
32 93 33 00-0332 EA 3 Gallon Jasminum - Orange Jasmine.....	10.53	
32 93 33 00-0333 EA 4' - 5' Jasminum - Orange Jasmine.....	120.32	
32 93 33 00-0334 EA 6' - 7' Jasminum - Orange Jasmine.....	240.64	
32 93 33 00-0335 EA 8' - 10' Jasminum - Orange Jasmine.....	324.86	
32 93 33 00-0336 EA 3 Gallon Juniperus chinensis cvs - Chinese Juniper.....	45.77	
32 93 33 00-0337 EA 5 Gallon Juniperus chinensis cvs - Chinese Juniper.....	51.01	
32 93 33 00-0338 EA 18" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	68.01	
32 93 33 00-0339 EA 24" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	88.93	
32 93 33 00-0340 EA 30" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	104.63	
32 93 33 00-0341 EA 36" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	141.25	
32 93 33 00-0342 EA 48" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	193.56	
32 93 33 00-0343 EA 1 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	21.81	
32 93 33 00-0344 EA 3 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	45.77	
32 93 33 00-0345 EA 5 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	51.01	
32 93 33 00-0346 EA 15" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	54.93	
32 93 33 00-0347 EA 18" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	60.16	
32 93 33 00-0348 EA 24" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	73.24	
32 93 33 00-0349 EA 30" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	88.93	
32 93 33 00-0350 EA 3 Gallon Juniperus procumbens cvs - Japanese Garden Juniper.....	35.31	
32 93 33 00-0351 EA 18" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	41.85	
32 93 33 00-0352 EA 24" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	57.54	
32 93 33 00-0353 EA 30" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	73.24	
32 93 33 00-0354 EA 36" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	88.93	
32 93 33 00-0355 EA 3 Gallon Juniperus sabina cvs - Savin Juniper.....	32.70	
32 93 33 00-0356 EA 5 Gallon Juniperus sabina cvs - Savin Juniper.....	39.23	
32 93 33 00-0357 EA 4 Gallon Juniperus virginiana cvs - Red Cedar Juniper.....	34.00	
32 93 33 00-0358 EA 36" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper.....	65.39	
32 93 33 00-0359 EA 48" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper.....	102.01	
32 93 33 00-0360 EA 60" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper.....	128.17	
32 93 33 00-0361 EA 15" To 18" Kalmia latifolia - Mountain Laurel.....	53.67	
32 93 33 00-0362 EA 18" To 24" Kalmia latifolia - Mountain Laurel.....	71.51	
32 93 33 00-0363 EA 2' To 3' Kalmia latifolia - Mountain Laurel.....	104.25	
32 93 33 00-0364 EA 4' To 5' Kalmia latifolia - Mountain Laurel.....	190.65	
32 93 33 00-0365 EA 5' To 6' Kalmia latifolia - Mountain Laurel.....	292.09	
32 93 33 00-0366 EA 6' To 8' Kalmia latifolia - Mountain Laurel.....	447.06	
32 93 33 00-0367 EA 1 Gallon Kerria japonica - Kerria.....	11.94	
32 93 33 00-0368 EA 5 Gallon Kerria japonica - Kerria.....	37.37	
32 93 33 00-0369 EA 24" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	37.93	
32 93 33 00-0370 EA 30" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	43.16	
32 93 33 00-0371 EA 36" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	47.08	
32 93 33 00-0372 EA 42" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	54.93	
32 93 33 00-0373 EA 48" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	62.78	
32 93 33 00-0374 EA 60" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	78.47	
32 93 33 00-0375 EA 1 Gallon Lagerstroemia indica - Crape Myrtle.....	8.99	
32 93 33 00-0376 EA 5 Gallon Lagerstroemia indica - Crape Myrtle.....	32.03	
32 93 33 00-0377 EA 3' To 4' Lagerstroemia indica - Crape Myrtle.....	44.68	
32 93 33 00-0378 EA 4' To 5' Lagerstroemia indica - Crape Myrtle.....	65.61	
32 93 33 00-0379 EA 5' To 6' Lagerstroemia indica - Crape Myrtle.....	104.25	
32 93 33 00-0380 EA 7' To 8' Lagerstroemia indica - Crape Myrtle.....	135.36	
32 93 33 00-0381 EA 9' To 10' Lagerstroemia indica - Crape Myrtle.....	180.48	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

32

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 33 00-0382	EA	11' To 12' Lagerstroemia indica - Crape Myrtle	376.00	
32 93 33 00-0383	EA	1 Gallon Leucothoe axillaris - Coast Leucothoe	13.49	
32 93 33 00-0384	EA	2 Gallon Leucothoe axillaris - Coast Leucothoe	29.51	
32 93 33 00-0385	EA	3 Gallon Leucothoe axillaris - Coast Leucothoe	35.55	
32 93 33 00-0386	EA	1 Gallon Ligustrum lucidum - Glossy Privet	8.29	
32 93 33 00-0387	EA	5 Gallon Ligustrum lucidum - Glossy Privet	25.43	
32 93 33 00-0388	EA	15 Gallon Ligustrum lucidum - Glossy Privet	119.14	
32 93 33 00-0389	EA	1 Gallon Ligustrum sinense - Variegated Chinese Privet	8.29	
32 93 33 00-0390	EA	2 Gallon Ligustrum sinense - Variegated Chinese Privet	17.84	
32 93 33 00-0391	EA	3 Gallon Ligustrum sinense - Variegated Chinese Privet	23.18	
32 93 33 00-0392	EA	36" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	39.23	
32 93 33 00-0393	EA	48" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	57.54	
32 93 33 00-0394	EA	60" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	73.24	
32 93 33 00-0395	EA	72" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	83.70	
32 93 33 00-0396	EA	5 Gallon Lindera benzoin - Spicebush	43.16	
32 93 33 00-0397	EA	36" Balled and Burlapped, Lindera benzoin - Spicebush	36.62	
32 93 33 00-0398	EA	48" Balled and Burlapped, Lindera benzoin - Spicebush	44.47	
32 93 33 00-0399	EA	2' To 3' Lonicera fragrantissima - Winter Honeysuckle	71.51	
32 93 33 00-0400	EA	3' To 4' Lonicera fragrantissima - Winter Honeysuckle	86.40	
32 93 33 00-0401	EA	30" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	39.23	
32 93 33 00-0402	EA	36" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	47.08	
32 93 33 00-0403	EA	42" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	52.31	
32 93 33 00-0404	EA	48" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	57.54	
32 93 33 00-0405	EA	1 Gallon Myrica cerifera - Wax Myrtle	7.52	
32 93 33 00-0406	EA	4 Gallon Myrica cerifera - Wax Myrtle	24.06	
32 93 33 00-0407	EA	7 Gallon Myrica cerifera - Wax Myrtle	52.64	
32 93 33 00-0408	EA	10 Gallon Myrica cerifera - Wax Myrtle	78.21	
32 93 33 00-0409	EA	15 Gallon Myrica cerifera - Wax Myrtle	120.32	
32 93 33 00-0410	EA	45 Gallon Myrica cerifera - Wax Myrtle	360.96	
32 93 33 00-0411	EA	1' - 2' Myrica cerifera - Wax Myrtle	10.53	
32 93 33 00-0412	EA	3' - 4' Myrica cerifera - Wax Myrtle	36.10	
32 93 33 00-0413	EA	5' - 6' Myrica cerifera - Wax Myrtle	66.18	
32 93 33 00-0414	EA	7' - 8' Myrica cerifera - Wax Myrtle	90.24	
32 93 33 00-0415	EA	9' - 10' Myrica cerifera - Wax Myrtle	120.32	
32 93 33 00-0416	EA	11' - 12' Myrica cerifera - Wax Myrtle	183.49	
32 93 33 00-0417	EA	3 Gallon Myrica pensylvanica - Northern Bayberry	39.23	
32 93 33 00-0418	EA	24" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	64.08	
32 93 33 00-0419	EA	30" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	94.16	
32 93 33 00-0420	EA	36" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	112.47	
32 93 33 00-0421	EA	48" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	117.70	
32 93 33 00-0422	EA	1 Gallon Nandina domestica - Heavenly Bamboo	13.49	
32 93 33 00-0423	EA	2 Gallon Nandina domestica - Heavenly Bamboo	29.51	
32 93 33 00-0424	EA	5 Gallon Nandina domestica - Heavenly Bamboo	44.68	
32 93 33 00-0425	EA	1 Gallon Osmanthus fragrans - Fragrant Tea Olive	8.29	
32 93 33 00-0426	EA	3 Gallon Osmanthus fragrans - Fragrant Tea Olive	22.48	
32 93 33 00-0427	EA	1 Gallon Philadelphus - Evergreen Mockorange	11.52	
32 93 33 00-0428	EA	5 Gallon Philadelphus - Evergreen Mockorange	37.37	
32 93 33 00-0429	EA	36" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange	39.23	
32 93 33 00-0430	EA	42" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange	45.77	
32 93 33 00-0431	EA	48" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange	52.31	
32 93 33 00-0432	EA	24" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	39.23	
32 93 33 00-0433	EA	30" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	45.77	
32 93 33 00-0434	EA	36" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	52.31	
32 93 33 00-0435	EA	42" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	65.39	
32 93 33 00-0436	EA	48" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	78.47	
32 93 33 00-0437	EA	12" To 15" Spread Pieris - Mountain Andromeda	36.11	
32 93 33 00-0438	EA	15" To 18" Spread Pieris - Mountain Andromeda	77.41	
32 93 33 00-0439	EA	12" To 15" Pieris japonica - Japanese Andromeda	46.93	
32 93 33 00-0440	EA	15" To 18" Pieris japonica - Japanese Andromeda	53.67	
32 93 33 00-0441	EA	18" To 24" Pieris japonica - Japanese Andromeda	67.16	
32 93 33 00-0442	EA	2' To 2-1/2' Pieris japonica - Japanese Andromeda	95.40	
32 93 33 00-0443	EA	2-1/2' To 3' Pieris japonica - Japanese Andromeda	113.24	
32 93 33 00-0444	EA	24" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	40.74	
32 93 33 00-0445	EA	30" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	52.15	
32 93 33 00-0446	EA	36" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	62.74	
32 93 33 00-0447	EA	48" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	80.67	
32 93 33 00-0448	EA	60" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	96.96	
32 93 33 00-0449	EA	72" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine	141.78	
32 93 33 00-0450	EA	30" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine	88.00	
32 93 33 00-0451	EA	36" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine	105.93	
32 93 33 00-0452	EA	48" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine	140.96	
32 93 33 00-0453	EA	1 Gallon Pittosporum - Pittosporum	4.96	
32 93 33 00-0454	EA	3 Gallon Pittosporum - Pittosporum	12.78	
32 93 33 00-0455	EA	1 Gallon Pittosporum - Varigated Pittosporum	4.96	
32 93 33 00-0456	EA	3 Gallon Pittosporum - Varigated Pittosporum	12.78	
32 93 33 00-0457	EA	5 Gallon Pittosporum - Varigated Pittosporum	22.41	
32 93 33 00-0458	EA	1 Gallon Podocarpus macrophyllus - Yew Podocarpus	6.02	
32 93 33 00-0459	EA	3 Gallon Podocarpus macrophyllus - Yew Podocarpus	18.05	
32 93 33 00-0460	EA	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	22.23	
32 93 33 00-0461	EA	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	31.39	
32 93 33 00-0462	EA	18" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil	23.54	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0463	EA	24" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil	26.16	
32 93 33 00-0464	EA	30" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil	37.93	
32 93 33 00-0465	EA	36" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil	43.81	
32 93 33 00-0466	EA	1 Gallon Prunus caroliniana - Carolina Cherry Laurel	5.60	
32 93 33 00-0467	EA	5 Gallon Prunus caroliniana - Carolina Cherry Laurel	14.01	
32 93 33 00-0468	EA	15 Gallon Prunus caroliniana - Carolina Cherry Laurel	83.51	
32 93 33 00-0469	EA	15" To 18" Prunus laurocerasus - Cherry Laurel	21.36	
32 93 33 00-0470	EA	18" To 24" Prunus laurocerasus - Cherry Laurel	26.44	
32 93 33 00-0471	EA	24" To 30" Prunus laurocerasus - Cherry Laurel	34.40	
32 93 33 00-0472	EA	15" To 18" Prunus triloba - Double White Flowering Almond	19.08	
32 93 33 00-0473	EA	18" To 24" Prunus triloba - Double White Flowering Almond	24.42	
32 93 33 00-0474	EA	3' To 4' Prunus triloba - Double White Flowering Almond	38.95	
32 93 33 00-0475	EA	4' To 6' Prunus triloba - Double White Flowering Almond	77.99	
32 93 33 00-0476	EA	5 Gallon Prunus triloba - Pink Flowering Almond	23.46	
32 93 33 00-0477	EA	18" To 24" Prunus triloba - Pink Flowering Almond	26.35	
32 93 33 00-0478	EA	2' To 3' Prunus triloba - Pink Flowering Almond	30.64	
32 93 33 00-0479	EA	2' To 3' Prunus virginiana - Brilliant Chokeberry	20.83	
32 93 33 00-0480	EA	3' To 4' Prunus virginiana - Brilliant Chokeberry	25.56	
32 93 33 00-0481	EA	4' To 5' Prunus virginiana - Brilliant Chokeberry	30.64	
32 93 33 00-0482	EA	5' To 6' Prunus virginiana - Brilliant Chokeberry	35.10	
32 93 33 00-0483	EA	1 Gallon Punica granatum - Dwarf Pomegranate	8.85	
32 93 33 00-0484	EA	3 Gallon Punica granatum - Dwarf Pomegranate	26.13	
32 93 33 00-0485	EA	7 Gallon Punica granatum - Dwarf Pomegranate	53.67	
32 93 33 00-0486	EA	1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha	11.24	
32 93 33 00-0487	EA	5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha	37.37	
32 93 33 00-0488	EA	5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha	77.41	
32 93 33 00-0489	EA	1 Gallon Ralphialepis indica - Indian Hawthorne	8.99	
32 93 33 00-0490	EA	2 Gallon Ralphialepis indica - Indian Hawthorne	17.14	
32 93 33 00-0491	EA	5 Gallon Ralphialepis indica - Indian Hawthorne	30.49	
32 93 33 00-0492	EA	1 Gallon Rhamnus californica - Coffeeberry	13.67	
32 93 33 00-0493	EA	5 Gallon Rhamnus californica - Coffeeberry	39.08	
32 93 33 00-0494	EA	15 Gallon Rhamnus californica - Coffeeberry	117.29	
32 93 33 00-0495	EA	4' To 5' Rhamnus frangula "Columnaris" - Tallhedge	68.56	
32 93 33 00-0496	EA	5' To 6' Rhamnus frangula "Columnaris" - Tallhedge	93.99	
32 93 33 00-0497	EA	6' To 8' Rhamnus frangula "Columnaris" - Tallhedge	122.23	
32 93 33 00-0498	EA	10' To 12' Rhamnus frangula "Columnaris" - Tallhedge	223.53	
32 93 33 00-0499	EA	1 Gallon Rhododendron - Azalea Evergreen Hybrids	14.61	
32 93 33 00-0500	EA	2 Gallon Rhododendron - Azalea Evergreen Hybrids	29.50	
32 93 33 00-0501	EA	3 Gallon Rhododendron - Azalea Evergreen Hybrids	38.50	
32 93 33 00-0502	EA	5 Gallon Rhododendron - Azalea Evergreen Hybrids	44.68	
32 93 33 00-0503	EA	15" To 18" Rhododendron - Azalea Evergreen Hybrids	52.26	
32 93 33 00-0504	EA	18" To 24" Rhododendron - Azalea Evergreen Hybrids	65.61	
32 93 33 00-0505	EA	2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids	95.40	
32 93 33 00-0506	EA	2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids	134.03	
32 93 33 00-0507	EA	1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	16.44	
32 93 33 00-0508	EA	2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	29.50	
32 93 33 00-0509	EA	15" To 18" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	50.72	
32 93 33 00-0510	EA	18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	65.61	
32 93 33 00-0511	EA	2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	95.40	
32 93 33 00-0512	EA	3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	140.08	
32 93 33 00-0513	EA	4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	187.70	
32 93 33 00-0514	EA	5 Gallon Rhododendron - Boxleaf Azara	37.37	
32 93 33 00-0515	EA	15 Gallon Rhododendron - Boxleaf Azara	134.03	
32 93 33 00-0516	EA	15" To 18" Rhododendron - Carolina Rhododendron	42.29	
32 93 33 00-0517	EA	18" To 24" Rhododendron - Carolina Rhododendron	74.46	
32 93 33 00-0518	EA	24" To 30" Rhododendron - Carolina Rhododendron	110.29	
32 93 33 00-0519	EA	2' To 3' Rhododendron - Five-leafed Azalea	50.16	
32 93 33 00-0520	EA	3' To 4' Rhododendron - Five-leafed Azalea	65.61	
32 93 33 00-0521	EA	4' To 5' Rhododendron - Five-leafed Azalea	86.41	
32 93 33 00-0522	EA	15" To 18" Rhododendron - Ghent Azalea	50.16	
32 93 33 00-0523	EA	18" To 24" Rhododendron - Ghent Azalea	62.52	
32 93 33 00-0524	EA	2' To 3' Rhododendron - Ghent Azalea	101.30	
32 93 33 00-0525	EA	3' To 4' Rhododendron - Ghent Azalea	140.08	
32 93 33 00-0526	EA	4' To 5' Rhododendron - Ghent Azalea	187.70	
32 93 33 00-0527	EA	5' To 6' Rhododendron - Ghent Azalea	250.37	
32 93 33 00-0528	EA	1 Gallon Rhododendron - Hybrid Rhododendron	16.44	
32 93 33 00-0529	EA	2 Gallon Rhododendron - Hybrid Rhododendron	35.55	
32 93 33 00-0530	EA	3 Gallon Rhododendron - Hybrid Rhododendron	50.44	
32 93 33 00-0531	EA	5 Gallon Rhododendron - Hybrid Rhododendron	56.34	
32 93 33 00-0532	EA	15" To 18" Rhododendron - Hybrid Rhododendron	47.63	
32 93 33 00-0533	EA	18" To 24" Rhododendron - Hybrid Rhododendron	65.61	
32 93 33 00-0534	EA	24" To 30" Rhododendron - Hybrid Rhododendron	89.36	
32 93 33 00-0535	EA	30" To 36" Rhododendron - Hybrid Rhododendron	104.25	
32 93 33 00-0536	EA	36" To 42" Rhododendron - Hybrid Rhododendron	149.07	
32 93 33 00-0537	EA	42" To 48" Rhododendron - Hybrid Rhododendron	184.75	
32 93 33 00-0538	EA	15" To 18" Rhododendron - Pjm Rhododendron	53.67	
32 93 33 00-0539	EA	18" To 24" Rhododendron - Pjm Rhododendron	65.61	
32 93 33 00-0540	EA	2' To 2-1/2' Rhododendron - Pjm Rhododendron	95.40	
32 93 33 00-0541	EA	2-1/2' To 3' Rhododendron - Pjm Rhododendron	122.23	
32 93 33 00-0542	EA	3' To 3-1/2' Rhododendron - Pjm Rhododendron	149.07	
32 93 33 00-0543	EA	12" To 15" Rhododendron - Torch Azalea	41.73	



Exterior Improvements			32
Planting			32 90
Plants			32 93

32

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 33 00-0544	EA	15" To 18" Rhododendron - Torch Azalea	50.16	
32 93 33 00-0545	EA	18" To 24" Rhododendron - Torch Azalea	62.52	
32 93 33 00-0546	EA	2' To 3' Rhododendron - Torch Azalea	104.25	
32 93 33 00-0547	EA	3 Gallon Rhododendron cvs - Lepidote Rhododendron	47.08	
32 93 33 00-0548	EA	5 Gallon Rhododendron cvs - Lepidote Rhododendron	57.54	
32 93 33 00-0549	EA	18" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	70.62	
32 93 33 00-0550	EA	24" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	88.93	
32 93 33 00-0551	EA	30" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	104.63	
32 93 33 00-0552	EA	36" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	125.55	
32 93 33 00-0553	EA	1 Gallon Rhus glabra - Dwarf Smooth Sumac	13.49	
32 93 33 00-0554	EA	5 Gallon Rhus glabra - Dwarf Smooth Sumac	37.37	
32 93 33 00-0555	EA	2 Gallon Rhus aromatica & cvs - Fragrant Sumac	31.39	
32 93 33 00-0556	EA	5 Gallon Rhus aromatica & cvs - Fragrant Sumac	43.16	
32 93 33 00-0557	EA	18" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac	49.70	
32 93 33 00-0558	EA	24" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac	65.39	
32 93 33 00-0559	EA	36" Balled and Burlapped, Rhus glabra - Smooth Sumac	39.23	
32 93 33 00-0560	EA	48" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac	65.39	
32 93 33 00-0561	EA	72" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac	104.63	
32 93 33 00-0562	EA	15" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant	35.31	
32 93 33 00-0563	EA	18" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant	40.54	
32 93 33 00-0564	EA	24" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant	58.85	
32 93 33 00-0565	EA	30" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant	78.47	
32 93 33 00-0566	EA	1 Gallon Rosa hybrids & cvs - Shrub Rose	21.58	
32 93 33 00-0567	EA	2 Gallon Rosa hybrids & cvs - Shrub Rose	26.16	
32 93 33 00-0568	EA	3 Gallon Rosa hybrids & cvs - Shrub Rose	32.70	
32 93 33 00-0569	EA	2 Gallon Rosa rugosa & cvs - Rugosa Rose	23.54	
32 93 33 00-0570	EA	3 Gallon Rosa rugosa & cvs - Rugosa Rose	30.08	
32 93 33 00-0571	EA	5 Gallon Sambucus canadensis - American Elder	43.16	
32 93 33 00-0572	EA	2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	19.39	
32 93 33 00-0573	EA	3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	28.38	
32 93 33 00-0574	EA	1 Gallon Sarcococca humilis - Fragrant Sarcococca	10.54	
32 93 33 00-0575	EA	5 Gallon Sarcococca humilis - Fragrant Sarcococca	27.54	
32 93 33 00-0576	EA	1 Gallon Skimmia japonica - Japanese Skimmia	13.49	
32 93 33 00-0577	EA	2 Gallon Skimmia japonica - Japanese Skimmia	26.83	
32 93 33 00-0578	EA	5 Gallon Skimmia japonica - Japanese Skimmia	43.27	
32 93 33 00-0579	EA	3' To 4' Spiraea - Garland Spiraea	62.52	
32 93 33 00-0580	EA	4' To 5' Spiraea - Garland Spiraea	95.40	
32 93 33 00-0581	EA	5 Gallon Spiraea - Snowmound Spiraea	37.37	
32 93 33 00-0582	EA	18" To 24" Spiraea - Snowmound Spiraea	30.63	
32 93 33 00-0583	EA	2' To 3' Spiraea - Snowmound Spiraea	43.27	
32 93 33 00-0584	EA	3' To 4' Spiraea - Snowmound Spiraea	50.16	
32 93 33 00-0585	EA	4' To 5' Spiraea - Snowmound Spiraea	86.40	
32 93 33 00-0586	EA	1 Gallon Spiraea japonica & cvs - Japanese Spiraea	13.49	
32 93 33 00-0587	EA	2 Gallon Spiraea japonica & cvs - Japanese Spiraea	26.55	
32 93 33 00-0588	EA	3 Gallon Spiraea japonica & cvs - Japanese Spiraea	30.73	
32 93 33 00-0589	EA	5 Gallon Spiraea japonica & cvs - Japanese Spiraea	33.35	
32 93 33 00-0590	EA	18" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea	34.00	
32 93 33 00-0591	EA	24" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea	39.23	
32 93 33 00-0592	EA	30" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea	44.47	
32 93 33 00-0593	EA	36" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea	51.66	
32 93 33 00-0594	EA	2 Gallon Spiraea nipponica & cvs - Nippon Spiraea	20.93	
32 93 33 00-0595	EA	5 Gallon Spiraea nipponica & cvs - Nippon Spiraea	31.39	
32 93 33 00-0596	EA	18" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	28.77	
32 93 33 00-0597	EA	24" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	34.00	
32 93 33 00-0598	EA	30" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	39.23	
32 93 33 00-0599	EA	36" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	44.47	
32 93 33 00-0600	EA	48" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	57.54	
32 93 33 00-0601	EA	1 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea	13.49	
32 93 33 00-0602	EA	2 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea	24.19	
32 93 33 00-0603	EA	4 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea	31.39	
32 93 33 00-0604	EA	18" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea	27.46	
32 93 33 00-0605	EA	24" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea	33.35	
32 93 33 00-0606	EA	30" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea	39.23	
32 93 33 00-0607	EA	36" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea	44.47	
32 93 33 00-0608	EA	5 Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	31.39	
32 93 33 00-0609	EA	18" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	31.39	
32 93 33 00-0610	EA	24" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	36.62	
32 93 33 00-0611	EA	30" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	49.70	
32 93 33 00-0612	EA	36" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	57.54	
32 93 33 00-0613	EA	42" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea	68.01	
32 93 33 00-0614	EA	5 Gallon Staphylea trifolia - Bladdernut	44.15	
32 93 33 00-0615	EA	2 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	31.39	
32 93 33 00-0616	EA	5 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	34.00	
32 93 33 00-0617	EA	24" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanadra	39.23	
32 93 33 00-0618	EA	30" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanadra	47.08	
32 93 33 00-0619	EA	2 Gallon Symphoricarpos albus - Common Snowberry	32.70	
32 93 33 00-0620	EA	5 Gallon Symphoricarpos albus - Common Snowberry	34.66	
32 93 33 00-0621	EA	24" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	57.54	
32 93 33 00-0622	EA	30" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	71.93	
32 93 33 00-0623	EA	36" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	83.70	
32 93 33 00-0624	EA	42" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	96.78	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0625	EA	18" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	57.54	
32 93 33 00-0626	EA	24" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	62.78	
32 93 33 00-0627	EA	30" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	71.93	
32 93 33 00-0628	EA	36" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	83.70	
32 93 33 00-0629	EA	42" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	96.78	
32 93 33 00-0630	EA	60" Balled and Burlapped, Syringa villosa & cvs - Late Lilac.....	45.77	
32 93 33 00-0631	EA	72" Balled and Burlapped, Syringa villosa & cvs - Late Lilac.....	49.70	
32 93 33 00-0632	EA	36" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	39.23	
32 93 33 00-0633	EA	42" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	44.47	
32 93 33 00-0634	EA	48" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	49.70	
32 93 33 00-0635	EA	60" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	57.54	
32 93 33 00-0636	EA	72" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	70.62	
32 93 33 00-0637	EA	5 Gallon Syringa x chinensis & cvs - Chinese Lilac.....	32.70	
32 93 33 00-0638	EA	36" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	37.93	
32 93 33 00-0639	EA	48" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	49.70	
32 93 33 00-0640	EA	48" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	207.94	
32 93 33 00-0641	EA	54" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	232.79	
32 93 33 00-0642	EA	60" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	256.33	
32 93 33 00-0643	EA	72" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	308.65	
32 93 33 00-0644	EA	18" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	54.93	
32 93 33 00-0645	EA	24" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	71.93	
32 93 33 00-0646	EA	30" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	83.70	
32 93 33 00-0647	EA	36" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	91.55	
32 93 33 00-0648	EA	15" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	54.93	
32 93 33 00-0649	EA	18" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	71.93	
32 93 33 00-0650	EA	24" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	85.01	
32 93 33 00-0651	EA	30" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	100.70	
32 93 33 00-0652	EA	36" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	151.71	
32 93 33 00-0653	EA	36" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	83.70	
32 93 33 00-0654	EA	48" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	112.47	
32 93 33 00-0655	EA	60" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	170.02	
32 93 33 00-0656	EA	72" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	248.49	
32 93 33 00-0657	EA	84" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	285.11	
32 93 33 00-0658	EA	96" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	330.88	
32 93 33 00-0659	EA	15" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	36.62	
32 93 33 00-0660	EA	18" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	51.01	
32 93 33 00-0661	EA	24" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	71.93	
32 93 33 00-0662	EA	3' To 4' Viburnum dilatatum - Linden Viburnum.....	62.52	
32 93 33 00-0663	EA	4' To 5' Viburnum dilatatum - Linden Viburnum.....	95.40	
32 93 33 00-0664	EA	5' To 6' Viburnum dilatatum - Linden Viburnum.....	125.18	
32 93 33 00-0665	EA	1 Gallon Viburnum japonicum - Japanese Viburnum.....	7.59	
32 93 33 00-0666	EA	3 Gallon Viburnum japonicum - Japanese Viburnum.....	20.79	
32 93 33 00-0667	EA	5 Gallon Viburnum plicatum - Japanese Snowball.....	37.37	
32 93 33 00-0668	EA	5' To 6' Viburnum plicatum - Japanese Snowball.....	140.08	
32 93 33 00-0669	EA	2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	65.61	
32 93 33 00-0670	EA	3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	77.41	
32 93 33 00-0671	EA	4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	108.89	
32 93 33 00-0672	EA	30" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum.....	71.93	
32 93 33 00-0673	EA	36" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum.....	86.32	
32 93 33 00-0674	EA	24" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	65.39	
32 93 33 00-0675	EA	30" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	78.47	
32 93 33 00-0676	EA	36" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	91.55	
32 93 33 00-0677	EA	42" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	104.63	
32 93 33 00-0678	EA	36" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	36.62	
32 93 33 00-0679	EA	42" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	39.23	
32 93 33 00-0680	EA	48" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	45.77	
32 93 33 00-0681	EA	60" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	52.31	
32 93 33 00-0682	EA	72" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	57.54	
32 93 33 00-0683	EA	30" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	35.31	
32 93 33 00-0684	EA	36" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	39.23	
32 93 33 00-0685	EA	42" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	49.70	
32 93 33 00-0686	EA	48" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	57.54	
32 93 33 00-0687	EA	60" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	78.47	
32 93 33 00-0688	EA	72" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	94.16	
32 93 33 00-0689	EA	36" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	39.23	
32 93 33 00-0690	EA	48" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	52.31	
32 93 33 00-0691	EA	5' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	65.39	
32 93 33 00-0692	EA	6' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	91.55	
32 93 33 00-0693	EA	7' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	130.78	
32 93 33 00-0694	EA	8' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	183.10	
32 93 33 00-0695	EA	9' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	235.41	
32 93 33 00-0696	EA	30" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	47.08	
32 93 33 00-0697	EA	36" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	52.31	
32 93 33 00-0698	EA	36" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	94.16	
32 93 33 00-0699	EA	48" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	143.86	
32 93 33 00-0700	EA	60" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	183.10	
32 93 33 00-0701	EA	72" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	222.33	
32 93 33 00-0702	EA	84" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	274.64	
32 93 33 00-0703	EA	96" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	326.96	
32 93 33 00-0704	EA	108" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	392.35	
32 93 33 00-0705	EA	120" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	457.74	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
32 93 33 00-0706	EA	30" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	39.89	
32 93 33 00-0707	EA	36" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	43.81	
32 93 33 00-0708	EA	48" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	49.70	
32 93 33 00-0709	EA	60" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	57.54	
32 93 33 00-0710	EA	72" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	66.05	
32 93 33 00-0711	EA	18" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	37.93	
32 93 33 00-0712	EA	24" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	45.77	
32 93 33 00-0713	EA	30" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	54.93	
32 93 33 00-0714	EA	36" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	62.78	
32 93 33 00-0715	EA	42" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	75.85	
32 93 33 00-0716	EA	48" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum.....	83.70	
32 93 33 00-0717	EA	30" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum.....	65.39	
32 93 33 00-0718	EA	36" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum.....	78.47	
32 93 33 00-0719	EA	42" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum.....	91.55	
32 93 33 00-0720	EA	48" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum.....	104.63	
32 93 33 00-0721	EA	60" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum.....	117.70	
32 93 33 00-0722	EA	30" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	83.70	
32 93 33 00-0723	EA	36" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	94.16	
32 93 33 00-0724	EA	42" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	107.24	
32 93 33 00-0725	EA	48" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	122.94	
32 93 33 00-0726	EA	2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball.....	77.41	
32 93 33 00-0727	EA	3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball.....	95.40	
32 93 33 00-0728	EA	4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball.....	140.08	
32 93 33 00-0729	EA	5 Gallon Weigela florida & cvs - Old Fashioned Weigela.....	43.16	
32 93 33 00-0730	EA	24" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	39.23	
32 93 33 00-0731	EA	30" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	44.47	
32 93 33 00-0732	EA	36" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	49.70	
32 93 33 00-0733	EA	42" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	57.54	
32 93 33 00-0734	EA	48" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	65.39	
32 93 33 00-0735	EA	1 Gallon Xylosma congestum - Shiny Xylosma.....	8.99	
32 93 33 00-0736	EA	5 Gallon Xylosma congestum - Shiny Xylosma.....	25.43	
32 93 33 00-0737	EA	15 Gallon Xylosma congestum - Shiny Xylosma.....	111.83	
32 93 33 00-0738	EA	1 Gallon Yucca aloifolia - Spanish Bayonet.....	7.59	
32 93 33 00-0739	EA	3 Gallon Yucca aloifolia - Spanish Bayonet.....	20.09	
32 93 33 00-0740	EA	1 Gallon Yucca filamentosa - Adams Needle.....	10.54	
32 93 33 00-0741	EA	3 Gallon Yucca filamentosa - Adams Needle.....	20.51	
32 93 33 00-0742	EA	5 Gallon Yucca filamentosa - Adams Needle.....	32.46	
32 93 33 00-0743	EA	5 Gallon Border Forsythia - Goldenbells.....	36.11	
32 93 33 00-0744	EA	2' To 3' Border Forsythia - Goldenbells.....	29.79	
32 93 33 00-0745	EA	3' To 4' Border Forsythia - Goldenbells.....	37.65	
32 93 33 00-0746	EA	4' To 5' Border Forsythia - Goldenbells.....	46.93	
32 93 33 00-0747	EA	5' To 6' Border Forsythia - Goldenbells.....	56.34	
32 93 33 00-0748	EA	6' To 8' Border Forsythia - Goldenbells.....	77.41	
32 93 33 00-0749	EA	3' Juniperus chinensis - Columnar Chinese Juniper.....	76.70	
32 93 33 00-0750	EA	4' Juniperus chinensis - Columnar Chinese Juniper.....	105.28	
32 93 33 00-0751	EA	5' Juniperus chinensis - Columnar Chinese Juniper.....	165.44	
32 93 33 00-0752	EA	6' Juniperus chinensis - Columnar Chinese Juniper.....	192.51	
32 93 33 00-0753	EA	7' Juniperus chinensis - Columnar Chinese Juniper.....	252.67	
32 93 33 00-0754	EA	2 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	15.04	
32 93 33 00-0755	EA	3 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	21.06	
32 93 33 00-0756	EA	5 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	50.99	
32 93 33 00-0757	EA	2 Gallon Chrysobalanus icaco - Cocoplum Green Tip.....	15.04	
32 93 33 00-0758	EA	3 Gallon Chrysobalanus icaco - Cocoplum Green Tip.....	21.06	
32 93 33 00-0759	EA	Beile Poitvine Roses.....	60.16	
32 93 33 00-0760	EA	3 Gallon Bird Of Paradise.....	27.07	
32 93 33 00-0761	EA	5 Gallon Bird Of Paradise.....	42.11	
32 93 33 00-0762	EA	7 Gallon Bird Of Paradise.....	57.15	
32 93 33 00-0763	EA	10 Gallon Bird Of Paradise.....	114.30	
32 93 33 00-0764	EA	18" Bonica Roses.....	69.18	
32 93 33 00-0765	EA	1 Gallon Burmese Grape.....	12.03	
32 93 33 00-0766	EA	5 Gallon Burmese Grape.....	33.09	
32 93 33 00-0767	EA	15 Gallon Burmese Grape.....	123.33	
32 93 33 00-0768	EA	6" To 9" Canby Paxistima.....	24.06	
32 93 33 00-0769	EA	9" To 12" Canby Paxistima.....	30.08	
32 93 33 00-0770	EA	12" To 15" Canby Paxistima.....	39.10	
32 93 33 00-0771	EA	5 Gallon Chastetree.....	42.11	
32 93 33 00-0772	EA	3' Chinese Lilac.....	60.16	
32 93 33 00-0773	EA	4' Chinese Lilac.....	75.20	
32 93 33 00-0774	EA	5' Chinese Lilac.....	102.27	
32 93 33 00-0775	EA	1 Gallon Christmas Berry.....	15.04	
32 93 33 00-0776	EA	2 Gallon Christmas Berry.....	33.09	
32 93 33 00-0777	EA	5 Gallon Christmas Berry.....	48.13	
32 93 33 00-0778	EA	15 Gallon Christmas Berry.....	222.59	
32 93 33 00-0779	EA	1 Gallon Concha Wild Lilac.....	12.03	
32 93 33 00-0780	EA	5 Gallon Concha Wild Lilac.....	30.08	
32 93 33 00-0781	EA	1 Gallon Flower Carpet Roses.....	30.08	
32 93 33 00-0782	EA	3 Gallon Flower Carpet Roses.....	57.15	
32 93 33 00-0783	EA	Goldfinger Potentillas.....	48.13	
32 93 33 00-0784	EA	Green Mound Alpine Currents.....	60.16	
32 93 33 00-0785	EA	24" Gro-Low Sumacs.....	60.16	
32 93 33 00-0786	EA	3 Gallon Heliconia.....	27.07	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0787	EA		1' Ibolium Private	3.01	
32 93 33 00-0788	EA		2' Ibolium Private	12.03	
32 93 33 00-0789	EA		3' Ibolium Private	21.06	
32 93 33 00-0790	EA		5 Gallon Japanese Privit.....	33.09	
32 93 33 00-0791	EA		24" Spirea - Little Princess.....	63.17	
32 93 33 00-0792	EA		2' Longstalk Holly.....	60.16	
32 93 33 00-0793	EA		2-1/2' Longstalk Holly.....	81.22	
32 93 33 00-0794	EA		3' Longstalk Holly.....	102.27	
32 93 33 00-0795	EA		3-1/2' Longstalk Holly.....	114.30	
32 93 33 00-0796	EA		3 Gallon Low Dense Pyracantha	30.08	
32 93 33 00-0797	EA		1 Gallon Pacific Wax Myrtle.....	9.02	
32 93 33 00-0798	EA		5 Gallon Pacific Wax Myrtle.....	30.08	
32 93 33 00-0799	EA		1 Gallon Red Escallonia.....	9.02	
32 93 33 00-0800	EA		5 Gallon Red Escallonia.....	30.08	
32 93 33 00-0801	EA		15 Gallon Red Escallonia.....	123.33	
32 93 33 00-0802	EA		24" Smooth Hydrangeas.....	72.19	
32 93 33 00-0803	EA		15" To 18" Somerset Burkwood Daphne	48.13	
32 93 33 00-0804	EA		18" To 24" Somerset Burkwood Daphne	63.17	
32 93 33 00-0805	EA		1 Gallon Spring Bouquet Laurustinis	9.02	
32 93 33 00-0806	EA		5 Gallon Spring Bouquet Laurustinis	33.09	
32 93 33 00-0807	EA		15" To 18" Summersweet	36.10	
32 93 33 00-0808	EA		18" To 24" Summersweet	42.11	
32 93 33 00-0809	EA		2' Sweet Shrubs.....	48.13	
32 93 33 00-0810	EA		3' Sweet Shrubs.....	63.17	
32 93 33 00-0811	EA		1 Gallon Variegated Silverberry	9.02	
32 93 33 00-0812	EA		3 Gallon Variegated Silverberry	21.06	
32 93 33 00-0813	EA		15 Gallon Variegated Silverberry	123.33	
32 93 33 00-0814	EA		1 Gallon Variegated Winter Daphne	15.04	
32 93 33 00-0815	EA		5 Gallon Variegated Winter Daphne	48.13	
32 93 33 00-0816	EA		15 Gallon Variegated Winter Daphne	222.59	
32 93 33 00-0817	EA		2' To 3' Virginia Sweetspire.....	105.28	
32 93 33 00-0818	EA		1 Gallon Warminster Broom.....	15.04	
32 93 33 00-0819	EA		2 Gallon Warminster Broom.....	30.08	
32 93 33 00-0820	EA		5 Gallon Warminster Broom.....	42.11	
32 93 33 00-0821	EA		1 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	10.54	
32 93 33 00-0822	EA		5 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	32.43	
32 93 33 00-0823	EA		15 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	105.39	
32 93 33 00-0824	EA		1 Gallon Dendromecon harfordii - Island Bush Poppy	27.02	
32 93 33 00-0825	EA		5 Gallon Dendromecon harfordii - Island Bush Poppy	67.56	
32 93 33 00-0826	EA		5 Gallon Senna artemisioides - Feathery Cassia.....	32.43	
32 93 33 00-0827	EA		15 Gallon Senna artemisioides - Feathery Cassia.....	129.04	
32 93 33 00-0828	EA		24" Box Senna artemisioides - Feathery Cassia.....	405.36	

32 93 43 Trees (32 93)

Note: (cvs = cultivar or cultivated varieties) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.

32 93 43 00-0001 Deciduous Ornamental Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA	6' Clump Form Acer ginnala & cvs - Amur Maple	287.06
32 93 43 00-0003	EA	7' Clump Form Acer ginnala & cvs - Amur Maple	350.85
32 93 43 00-0004	EA	8' Clump Form Acer ginnala & cvs - Amur Maple	398.70
32 93 43 00-0005	EA	10' Clump Form Acer ginnala & cvs - Amur Maple	462.49
32 93 43 00-0006	EA	12' Clump Form Acer ginnala & cvs - Amur Maple	526.28
32 93 43 00-0007	EA	14' Clump Form Acer ginnala & cvs - Amur Maple	621.97
32 93 43 00-0008	EA	1-1/2" To 2" Caliper Acer griseum - Paperbark Maple	285.63
32 93 43 00-0009	EA	2" To 2-1/2" Caliper Acer griseum - Paperbark Maple	1,020.66
32 93 43 00-0010	EA	2-1/2" To 3" Caliper Acer griseum - Paperbark Maple	1,275.83
32 93 43 00-0011	EA	5' Clump Form Acer griseum - Paperbark Maple	255.17
32 93 43 00-0012	EA	1-1/2" Caliper Aesculus californica - California Buckeye	637.91
32 93 43 00-0013	EA	2" Caliper Aesculus californica - California Buckeye.....	829.29
32 93 43 00-0014	EA	2-1/2" Caliper Aesculus californica - California Buckeye.....	956.87
32 93 43 00-0015	EA	3" Caliper Aesculus californica - California Buckeye.....	1,084.45
32 93 43 00-0016	EA	3-1/2" Caliper Aesculus californica - California Buckeye	1,275.83
32 93 43 00-0017	EA	6' Albizia julibrissin - Silk Tree.....	762.89
32 93 43 00-0018	EA	8' Albizia julibrissin - Silk Tree.....	1,017.18
32 93 43 00-0019	EA	10' Albizia julibrissin - Silk Tree.....	1,271.48
32 93 43 00-0020	EA	12' Albizia julibrissin - Silk Tree.....	1,525.78
32 93 43 00-0021	EA	36" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	104.63
32 93 43 00-0022	EA	48" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	130.78
32 93 43 00-0023	EA	60" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	162.17
32 93 43 00-0024	EA	60" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	130.78
32 93 43 00-0025	EA	72" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	156.94
32 93 43 00-0026	EA	7' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	183.10
32 93 43 00-0027	EA	8' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	209.25
32 93 43 00-0028	EA	5' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	235.41
32 93 43 00-0029	EA	6' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	261.57
32 93 43 00-0030	EA	7' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	300.80
32 93 43 00-0031	EA	8' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	340.03
32 93 43 00-0032	EA	9' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	392.35



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
32 93 43 00-0033	EA	1-1/2" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry	318.96	
32 93 43 00-0034	EA	2" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry	446.54	
32 93 43 00-0035	EA	2-1/2" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry	478.43	
32 93 43 00-0036	EA	3" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry	558.17	
32 93 43 00-0037	EA	6' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	398.70	
32 93 43 00-0038	EA	7' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	478.43	
32 93 43 00-0039	EA	8' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	558.17	
32 93 43 00-0040	EA	10' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	637.91	
32 93 43 00-0041	EA	12' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	717.65	
32 93 43 00-0042	EA	14' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry	797.39	
32 93 43 00-0043	EA	7' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	300.80	
32 93 43 00-0044	EA	8' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	353.11	
32 93 43 00-0045	EA	9' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	405.43	
32 93 43 00-0046	EA	10' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	444.66	
32 93 43 00-0047	EA	30" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	104.63	
32 93 43 00-0048	EA	48" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	222.33	
32 93 43 00-0049	EA	60" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry	287.72	
32 93 43 00-0050	EA	2' To 4' Amelemchier - Juneberry	31.85	
32 93 43 00-0051	EA	4' To 5' Amelemchier - Juneberry	33.41	
32 93 43 00-0052	EA	5' To 6' Amelemchier - Juneberry	39.78	
32 93 43 00-0053	EA	6' To 8' Amelemchier - Juneberry	47.46	
32 93 43 00-0054	EA	15 Gallon Chilopsis linearis - Desert Willow	69.77	
32 93 43 00-0055	EA	24" Box Chilopsis linearis - Desert Willow	224.68	
32 93 43 00-0056	EA	36" Box Chilopsis linearis - Desert Willow	591.26	
32 93 43 00-0057	EA	15 Gallon Chionanthus retusus - Chinese Fringe Tree	69.77	
32 93 43 00-0058	EA	24" Box Chionanthus retusus - Chinese Fringe Tree	189.20	
32 93 43 00-0059	EA	36" Box Chionanthus retusus - Chinese Fringe Tree	650.38	
32 93 43 00-0060	EA	1-1/2" Caliper Arbutus menziesii - Madrona	552.82	
32 93 43 00-0061	EA	2" Caliper Arbutus menziesii - Madrona	718.66	
32 93 43 00-0062	EA	2-1/2" Caliper Arbutus menziesii - Madrona	829.23	
32 93 43 00-0063	EA	3" Caliper Arbutus menziesii - Madrona	939.79	
32 93 43 00-0064	EA	3-1/2" Caliper Arbutus menziesii - Madrona	1,105.63	
32 93 43 00-0065	EA	1 Gallon Arbutus 'Marina' - Marina Strawberry Tree	7.69	
32 93 43 00-0066	EA	5 Gallon Arbutus 'Marina' - Marina Strawberry Tree	28.97	
32 93 43 00-0067	EA	15 Gallon Arbutus 'Marina' - Marina Strawberry Tree	93.42	
32 93 43 00-0068	EA	24" Box Arbutus 'Marina' - Marina Strawberry Tree	224.68	
32 93 43 00-0069	EA	36" Box Arbutus 'Marina' - Marina Strawberry Tree	722.64	
32 93 43 00-0070	EA	1 Gallon Arbutus unedo - Strawberry Tree	7.10	
32 93 43 00-0071	EA	5 Gallon Arbutus unedo - Strawberry Tree	21.29	
32 93 43 00-0072	EA	15 Gallon Arbutus unedo - Strawberry Tree	93.42	
32 93 43 00-0073	EA	24" Box Arbutus unedo - Strawberry Tree	224.68	
32 93 43 00-0074	EA	36" Box Arbutus unedo - Strawberry Tree	650.38	
32 93 43 00-0075	EA	3' Clump Form Asimina triloba - Paw-Paw	223.27	
32 93 43 00-0076	EA	4' Clump Form Asimina triloba - Paw-Paw	255.17	
32 93 43 00-0077	EA	5' Clump Form Asimina triloba - Paw-Paw	350.85	
32 93 43 00-0078	EA	6' Brachychiton acerifolius - Flame Tree	762.89	
32 93 43 00-0079	EA	8' Brachychiton acerifolius - Flame Tree	1,017.18	
32 93 43 00-0080	EA	10' Brachychiton acerifolius - Flame Tree	1,271.48	
32 93 43 00-0081	EA	12' Brachychiton acerifolius - Flame Tree	1,525.78	
32 93 43 00-0082	EA	1 Gallon Callistemon salignus - White BottleBrush	4.14	
32 93 43 00-0083	EA	5 Gallon Callistemon salignus - White BottleBrush	11.83	
32 93 43 00-0084	EA	15 Gallon Callistemon salignus - White BottleBrush	46.12	
32 93 43 00-0085	EA	24" Box Callistemon salignus - White BottleBrush	189.20	
32 93 43 00-0086	EA	5 Gallon Calodendrum capense - Cape Chestnut	47.68	
32 93 43 00-0087	EA	15 Gallon Calodendrum capense - Cape Chestnut	190.72	
32 93 43 00-0088	EA	24" Box Calodendrum capense - Cape Chestnut	715.21	
32 93 43 00-0089	EA	1-1/2" Caliper Carpinus caroliniana - American Hornbeam Ironwood	478.43	
32 93 43 00-0090	EA	2" Caliper Carpinus caroliniana - American Hornbeam Ironwood	558.17	
32 93 43 00-0091	EA	2-1/2" Caliper Carpinus caroliniana - American Hornbeam Ironwood	717.65	
32 93 43 00-0092	EA	5' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	287.06	
32 93 43 00-0093	EA	6' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	350.85	
32 93 43 00-0094	EA	7' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	478.43	
32 93 43 00-0095	EA	8' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	558.17	
32 93 43 00-0096	EA	10' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	669.81	
32 93 43 00-0097	EA	12' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	813.34	
32 93 43 00-0098	EA	14' Clump Form Carpinus caroliniana - American Hornbeam Ironwood	924.97	
32 93 43 00-0099	EA	8' Cassia leptophylla - Gold Medallion Tree	413.23	
32 93 43 00-0100	EA	10' Cassia leptophylla - Gold Medallion Tree	524.49	
32 93 43 00-0101	EA	12' Cassia leptophylla - Gold Medallion Tree	635.74	
32 93 43 00-0102	EA	5 Gallon Celtis Sinensis - Chinese Hackberry	46.64	
32 93 43 00-0103	EA	15 Gallon Celtis Sinensis - Chinese Hackberry	122.97	
32 93 43 00-0104	EA	24" Box Celtis Sinensis - Chinese Hackberry	402.82	
32 93 43 00-0105	EA	36" Box Celtis Sinensis - Chinese Hackberry	1,176.66	
32 93 43 00-0106	EA	15 Gallon Cercis canadensis - American Redbud, Eastern Redbud	93.42	
32 93 43 00-0107	EA	24" Box Cercis canadensis - American Redbud, Eastern Redbud	224.68	
32 93 43 00-0108	EA	36" Box Cercis canadensis - American Redbud, Eastern Redbud	591.26	
32 93 43 00-0109	EA	1 Gallon Cercis occidentalis - Western Redbud	7.69	
32 93 43 00-0110	EA	5 Gallon Cercis occidentalis - Western Redbud	28.97	
32 93 43 00-0111	EA	15 Gallon Cercis occidentalis - Western Redbud	93.42	
32 93 43 00-0112	EA	24" Box Cercis occidentalis - Western Redbud	224.68	
32 93 43 00-0113	EA	36" Box Cercis occidentalis - Western Redbud	650.38	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0114	EA		1 Gallon Chitalpa tashkentensis - Chitalpa	5.32	
32 93 43 00-0115	EA		5 Gallon Chitalpa tashkentensis - Chitalpa	16.56	
32 93 43 00-0116	EA		15 Gallon Chitalpa tashkentensis - Chitalpa	57.94	
32 93 43 00-0117	EA		24" Box Chitalpa tashkentensis - Chitalpa	189.20	
32 93 43 00-0118	EA		36" Box Chitalpa tashkentensis - Chitalpa	532.13	
32 93 43 00-0119	EA		5' To 6' Chaenomeles - Orange Quince	100.75	
32 93 43 00-0120	EA		6' To 8' Chaenomeles - Orange Quince	125.93	
32 93 43 00-0121	EA		1-1/2" Caliper Chilopsis linearis - Desert Willow	616.67	
32 93 43 00-0122	EA		2" Caliper Chilopsis linearis - Desert Willow	740.64	
32 93 43 00-0123	EA		2-1/2" Caliper Chilopsis linearis - Desert Willow	788.32	
32 93 43 00-0124	EA		3" Caliper Chilopsis linearis - Desert Willow	874.14	
32 93 43 00-0125	EA		5 Gallon Chionanthus retusus - Chinese Fringe Tree	31.79	
32 93 43 00-0126	EA		15 Gallon Chionanthus retusus - Chinese Fringe Tree	127.15	
32 93 43 00-0127	EA		24" Box Chionanthus retusus - Chinese Fringe Tree	635.74	
32 93 43 00-0128	EA		6' Chionanthus virginicus - White Fringe Tree	381.44	
32 93 43 00-0129	EA		8' Chionanthus virginicus - White Fringe Tree	513.52	
32 93 43 00-0130	EA		10' Chionanthus virginicus - White Fringe Tree	715.26	
32 93 43 00-0131	EA		5' Clump Form Chionanthus virginicus - White Fringetree	318.96	
32 93 43 00-0132	EA		6' Clump Form Chionanthus virginicus - White Fringetree	398.70	
32 93 43 00-0133	EA		7' Clump Form Chionanthus virginicus - White Fringetree	510.33	
32 93 43 00-0134	EA		4' To 5' Cornus - Pink Or Red Flowering Dogwood	115.14	
32 93 43 00-0135	EA		5' To 6' Cornus - Pink Or Red Flowering Dogwood	143.92	
32 93 43 00-0136	EA		6' To 7' Cornus - Pink Or Red Flowering Dogwood	201.49	
32 93 43 00-0137	EA		7' To 8' Cornus - Pink Or Red Flowering Dogwood	259.05	
32 93 43 00-0138	EA		4' To 5' Cornus - White Flowering Dogwood	76.76	
32 93 43 00-0139	EA		5' To 6' Cornus - White Flowering Dogwood	115.14	
32 93 43 00-0140	EA		6' To 7' Cornus - White Flowering Dogwood	161.19	
32 93 43 00-0141	EA		3' To 4' Cornus kousa - Japanese Dogwood	76.76	
32 93 43 00-0142	EA		4' To 5' Cornus kousa - Japanese Dogwood	88.27	
32 93 43 00-0143	EA		5' To 6' Cornus kousa - Japanese Dogwood	115.14	
32 93 43 00-0144	EA		6' To 8' Cornus kousa - Japanese Dogwood	168.87	
32 93 43 00-0145	EA		8' To 10' Cornus kousa - Japanese Dogwood	230.27	
32 93 43 00-0146	EA		1-1/2" Caliper Cornus alternifolia & cvs - Pagoda Dogwood	366.80	
32 93 43 00-0147	EA		2" Caliper Cornus alternifolia & cvs - Pagoda Dogwood	446.54	
32 93 43 00-0148	EA		4' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood	175.43	
32 93 43 00-0149	EA		5' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood	223.27	
32 93 43 00-0150	EA		6' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood	255.17	
32 93 43 00-0151	EA		7' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood	287.06	
32 93 43 00-0152	EA		8' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood	350.85	
32 93 43 00-0153	EA		4' Clump Form Cornus mas & cvs - Corneliancherry Dogwood	175.43	
32 93 43 00-0154	EA		5' Clump Form Cornus mas & cvs - Corneliancherry Dogwood	223.27	
32 93 43 00-0155	EA		6' Clump Form Cornus mas & cvs - Corneliancherry Dogwood	271.11	
32 93 43 00-0156	EA		7' Clump Form Cornus mas & cvs - Corneliancherry Dogwood	318.96	
32 93 43 00-0157	EA		8' Clump Form Cornus mas & cvs - Corneliancherry Dogwood	446.54	
32 93 43 00-0158	EA		1-1/2" Caliper Cornus mas & cvs - Corneliancherry Dogwood	398.70	
32 93 43 00-0159	EA		2" Caliper Cornus mas & cvs - Corneliancherry Dogwood	478.43	
32 93 43 00-0160	EA		2-1/2" Caliper Cornus mas & cvs - Corneliancherry Dogwood	558.17	
32 93 43 00-0161	EA		1-1/2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn	318.96	
32 93 43 00-0162	EA		2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn	398.70	
32 93 43 00-0163	EA		2-1/2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn	494.38	
32 93 43 00-0164	EA		3" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn	558.17	
32 93 43 00-0165	EA		3-1/2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn	637.91	
32 93 43 00-0166	EA		4" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn	717.65	
32 93 43 00-0167	EA		6' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn	318.96	
32 93 43 00-0168	EA		7' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn	382.75	
32 93 43 00-0169	EA		8' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn	446.54	
32 93 43 00-0170	EA		10' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn	558.17	
32 93 43 00-0171	EA		12' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn	717.65	
32 93 43 00-0172	EA		5 Gallon Crataegus phaenopyrum - Washington Hawthorn	46.64	
32 93 43 00-0173	EA		15 Gallon Crataegus phaenopyrum - Washington Hawthorn	122.97	
32 93 43 00-0174	EA		24" Box Crataegus phaenopyrum - Washington Hawthorn	402.82	
32 93 43 00-0175	EA		36" Box Crataegus phaenopyrum - Washington Hawthorn	1,176.66	
32 93 43 00-0176	EA		1-1/2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn	255.17	
32 93 43 00-0177	EA		2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn	287.06	
32 93 43 00-0178	EA		2-1/2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn	318.96	
32 93 43 00-0179	EA		3" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn	366.80	
32 93 43 00-0180	EA		3-1/2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn	478.43	
32 93 43 00-0181	EA		4" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn	542.23	
32 93 43 00-0182	EA		6' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn	223.27	
32 93 43 00-0183	EA		7' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn	271.11	
32 93 43 00-0184	EA		8' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn	318.96	
32 93 43 00-0185	EA		10' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn	398.70	
32 93 43 00-0186	EA		12' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn	494.38	
32 93 43 00-0187	EA		14' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn	590.07	
32 93 43 00-0188	EA		16' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn	685.76	
32 93 43 00-0189	EA		1-1/2" Caliper Crataegus viridis - Winter King Hawthorn	255.17	
32 93 43 00-0190	EA		2" Caliper Crataegus viridis - Winter King Hawthorn	287.06	
32 93 43 00-0191	EA		2-1/2" Caliper Crataegus viridis - Winter King Hawthorn	398.70	
32 93 43 00-0192	EA		3" Caliper Crataegus viridis - Winter King Hawthorn	526.28	
32 93 43 00-0193	EA		6' Clump Form Crataegus viridis - Winter King Hawthorn	239.22	
32 93 43 00-0194	EA		7' Clump Form Crataegus viridis - Winter King Hawthorn	318.96	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 43 00-0195	EA	8' Clump Form Crataegus viridis - Winter King Hawthorn.....	398.70	
32 93 43 00-0196	EA	10' Clump Form Crataegus viridis - Winter King Hawthorn.....	478.43	
32 93 43 00-0197	EA	1 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	13.78	
32 93 43 00-0198	EA	5 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	38.16	
32 93 43 00-0199	EA	15 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	167.49	
32 93 43 00-0200	EA	24" Box Eucalyptus ficifolia - Red-Flowering Gum.....	402.82	
32 93 43 00-0201	EA	36" Box Eucalyptus ficifolia - Red-Flowering Gum.....	1,060.05	
32 93 43 00-0202	EA	15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	103.88	
32 93 43 00-0203	EA	24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	339.22	
32 93 43 00-0204	EA	36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	901.04	
32 93 43 00-0205	EA	48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	2,014.10	
32 93 43 00-0206	EA	15 Gallon Geijera parvifolia - Australian Willow.....	220.08	
32 93 43 00-0207	EA	24" Box Geijera parvifolia - Australian Willow.....	453.00	
32 93 43 00-0208	EA	30" Box Geijera parvifolia - Australian Willow.....	843.64	
32 93 43 00-0209	EA	36" Box Geijera parvifolia - Australian Willow.....	1,210.44	
32 93 43 00-0210	EA	5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	29.68	
32 93 43 00-0211	EA	15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	103.88	
32 93 43 00-0212	EA	24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	339.22	
32 93 43 00-0213	EA	36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	901.04	
32 93 43 00-0214	EA	48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	2,014.10	
32 93 43 00-0215	EA	5 Gallon Ginkgo biloba - Maidenhair Tree or Ginkgo.....	28.97	
32 93 43 00-0216	EA	15 Gallon Ginkgo biloba - Maidenhair Tree or Ginkgo.....	93.42	
32 93 43 00-0217	EA	24" Box Ginkgo biloba - Maidenhair Tree or Ginkgo.....	189.20	
32 93 43 00-0218	EA	36" Box Ginkgo biloba - Maidenhair Tree or Ginkgo.....	650.38	
32 93 43 00-0219	EA	1-1/2" Caliper Ginko Biloba - Maidenhair Tree.....	652.90	
32 93 43 00-0220	EA	2" Caliper Ginko Biloba - Maidenhair Tree.....	909.66	
32 93 43 00-0221	EA	2-1/2" Caliper Ginko Biloba - Maidenhair Tree.....	1,096.73	
32 93 43 00-0222	EA	3" Caliper Ginko Biloba - Maidenhair Tree.....	1,280.13	
32 93 43 00-0223	EA	3-1/2" Caliper Ginko Biloba - Maidenhair Tree.....	1,676.28	
32 93 43 00-0224	EA	4" Caliper Ginko Biloba - Maidenhair Tree.....	1,789.98	
32 93 43 00-0225	EA	4-1/2" Caliper Ginko Biloba - Maidenhair Tree.....	1,907.36	
32 93 43 00-0226	EA	4' Clump Form Hamamelis virginiana - Common Witchhazel.....	159.48	
32 93 43 00-0227	EA	5' Clump Form Hamamelis virginiana - Common Witchhazel.....	207.32	
32 93 43 00-0228	EA	6' Clump Form Hamamelis virginiana - Common Witchhazel.....	255.17	
32 93 43 00-0229	EA	7' Clump Form Hamamelis virginiana - Common Witchhazel.....	350.85	
32 93 43 00-0230	EA	8' Clump Form Hamamelis virginiana - Common Witchhazel.....	478.43	
32 93 43 00-0231	EA	1 Gallon Ilex Cassine - Casine Holly (Dahoon).....	9.17	
32 93 43 00-0232	EA	5 Gallon Ilex Cassine - Casine Holly (Dahoon).....	29.34	
32 93 43 00-0233	EA	4' To 5' Ilex Cassine - Casine Holly (Dahoon).....	50.44	
32 93 43 00-0234	EA	6' To 7' Ilex Cassine - Casine Holly (Dahoon).....	96.28	
32 93 43 00-0235	EA	8' To 9' Ilex Cassine - Casine Holly (Dahoon).....	128.38	
32 93 43 00-0236	EA	10' To 12' Ilex Cassine - Casine Holly (Dahoon).....	165.06	
32 93 43 00-0237	EA	1-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	381.44	
32 93 43 00-0238	EA	2" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	619.85	
32 93 43 00-0239	EA	2-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	762.89	
32 93 43 00-0240	EA	3" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	842.36	
32 93 43 00-0241	EA	24" Box Koelreuteria bipinnata - Chinese Flame Tree.....	371.91	
32 93 43 00-0242	EA	30" Box Koelreuteria bipinnata - Chinese Flame Tree.....	858.25	
32 93 43 00-0243	EA	36" Box Koelreuteria bipinnata - Chinese Flame Tree.....	1,343.00	
32 93 43 00-0244	EA	1-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree.....	346.48	
32 93 43 00-0245	EA	2" Cliber Koelreuteria paniculata - Golden Rain Tree.....	562.63	
32 93 43 00-0246	EA	3" Cliber Koelreuteria paniculata - Golden Rain Tree.....	778.78	
32 93 43 00-0247	EA	4' To 5' Lagerstroemia indica - Crape Myrtle.....	234.75	
32 93 43 00-0248	EA	6' Lagerstroemia indica - Crape Myrtle.....	436.49	
32 93 43 00-0249	EA	8' Lagerstroemia indica - Crape Myrtle.....	451.16	
32 93 43 00-0250	EA	10' Lagerstroemia indica - Crape Myrtle.....	546.53	
32 93 43 00-0251	EA	24" Box Lagerstroemia indica - Crape Myrtle.....	429.16	
32 93 43 00-0252	EA	1 Gallon Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree.....	11.71	
32 93 43 00-0253	EA	5 Gallon Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree.....	28.97	
32 93 43 00-0254	EA	15 Gallon Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree.....	93.42	
32 93 43 00-0255	EA	1 Gallon Jacaranda mimosifolia - Jacaranda.....	7.69	
32 93 43 00-0256	EA	5 Gallon Jacaranda mimosifolia - Jacaranda.....	21.29	
32 93 43 00-0257	EA	15 Gallon Jacaranda mimosifolia - Jacaranda.....	57.94	
32 93 43 00-0258	EA	24" Box Jacaranda mimosifolia - Jacaranda.....	189.20	
32 93 43 00-0259	EA	36" Box Jacaranda mimosifolia - Jacaranda.....	532.13	
32 93 43 00-0260	EA	1 Gallon Koelreuteria bipinnata - Chinese Flame Tree.....	7.69	
32 93 43 00-0261	EA	5 Gallon Koelreuteria bipinnata - Chinese Flame Tree.....	21.29	
32 93 43 00-0262	EA	15 Gallon Koelreuteria bipinnata - Chinese Flame Tree.....	69.77	
32 93 43 00-0263	EA	5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	29.68	
32 93 43 00-0264	EA	15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	125.09	
32 93 43 00-0265	EA	24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	339.22	
32 93 43 00-0266	EA	36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	954.04	
32 93 43 00-0267	EA	48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	2,438.12	
32 93 43 00-0268	EA	5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	29.68	
32 93 43 00-0269	EA	15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	125.09	
32 93 43 00-0270	EA	24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	339.22	
32 93 43 00-0271	EA	36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	954.04	
32 93 43 00-0272	EA	48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	2,438.12	
32 93 43 00-0273	EA	5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	29.68	
32 93 43 00-0274	EA	15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	125.09	
32 93 43 00-0275	EA	24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	339.22	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0276	EA	36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	954.04
32 93 43 00-0277	EA	48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	2,438.12
32 93 43 00-0278	EA	15 Gallon Macadamia integrifolia - Smoothshell macadamia	177.38
32 93 43 00-0279	EA	2' To 3' Magnolia Virginiana - Sweetbay Magnolia	60.45
32 93 43 00-0280	EA	3' To 4' Magnolia Virginiana - Sweetbay Magnolia	90.67
32 93 43 00-0281	EA	4' To 5' Magnolia Virginiana - Sweetbay Magnolia	113.34
32 93 43 00-0282	EA	5' To 6' Magnolia Virginiana - Sweetbay Magnolia	141.16
32 93 43 00-0283	EA	4' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia	239.22
32 93 43 00-0284	EA	5' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia	318.96
32 93 43 00-0285	EA	6' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia	414.64
32 93 43 00-0286	EA	7' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia	462.49
32 93 43 00-0287	EA	9' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia	621.97
32 93 43 00-0288	EA	8' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia	558.17
32 93 43 00-0289	EA	6' Magnolia grandiflora 'St. Mary's'.....	476.80
32 93 43 00-0290	EA	8' Magnolia grandiflora 'St. Mary's'.....	842.36
32 93 43 00-0291	EA	10' Magnolia grandiflora 'St. Mary's'.....	1,058.51
32 93 43 00-0292	EA	12' Magnolia grandiflora 'St. Mary's'.....	1,271.48
32 93 43 00-0293	EA	14' Magnolia grandiflora 'St. Mary's'.....	1,478.10
32 93 43 00-0294	EA	16' Magnolia grandiflora 'St. Mary's'.....	1,748.28
32 93 43 00-0295	EA	24" Box Magnolia grandiflora 'St. Mary's'.....	524.49
32 93 43 00-0296	EA	6' Magnolia grandiflora - Southern Magnolia	235.22
32 93 43 00-0297	EA	7' Magnolia grandiflora - Southern Magnolia	356.01
32 93 43 00-0298	EA	8' Magnolia grandiflora - Southern Magnolia	499.06
32 93 43 00-0299	EA	9' Magnolia grandiflora - Southern Magnolia	664.35
32 93 43 00-0300	EA	10' Magnolia grandiflora - Southern Magnolia	1,010.83
32 93 43 00-0301	EA	24" Box Magnolia grandiflora - Southern Magnolia	413.23
32 93 43 00-0302	EA	4' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	239.22
32 93 43 00-0303	EA	5' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	318.96
32 93 43 00-0304	EA	6' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	414.64
32 93 43 00-0305	EA	7' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	462.49
32 93 43 00-0306	EA	8' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	558.17
32 93 43 00-0307	EA	9' Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	621.97
32 93 43 00-0308	EA	4' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	239.22
32 93 43 00-0309	EA	5' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	318.96
32 93 43 00-0310	EA	6' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	414.64
32 93 43 00-0311	EA	7' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	462.49
32 93 43 00-0312	EA	8' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	558.17
32 93 43 00-0313	EA	9' Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	621.97
32 93 43 00-0314	EA	4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	239.22
32 93 43 00-0315	EA	5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	318.96
32 93 43 00-0316	EA	6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	414.64
32 93 43 00-0317	EA	7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	462.49
32 93 43 00-0318	EA	8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	558.17
32 93 43 00-0319	EA	9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	621.97
32 93 43 00-0320	EA	4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	239.22
32 93 43 00-0321	EA	5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	318.96
32 93 43 00-0322	EA	6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	414.64
32 93 43 00-0323	EA	7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	462.49
32 93 43 00-0324	EA	8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	558.17
32 93 43 00-0325	EA	9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	621.97
32 93 43 00-0326	EA	5 Gallon Malus - Crabapple	64.76
32 93 43 00-0327	EA	15 Gallon Malus - Crabapple	165.15
32 93 43 00-0328	EA	20 Gallon Malus - Crabapple	194.29
32 93 43 00-0329	EA	1-1/2" Caliper Malus cvs - Crabapple Varieties.....	191.37
32 93 43 00-0330	EA	2" Caliper Malus cvs - Crabapple Varieties.....	255.17
32 93 43 00-0331	EA	2-1/2" Caliper Malus cvs - Crabapple Varieties.....	318.96
32 93 43 00-0332	EA	3" Caliper Malus cvs - Crabapple Varieties.....	382.75
32 93 43 00-0333	EA	3-1/2" Caliper Malus cvs - Crabapple Varieties.....	446.54
32 93 43 00-0334	EA	4" Caliper Malus cvs - Crabapple Varieties.....	510.33
32 93 43 00-0335	EA	6' Clump Form Malus cvs - Crabapple Varieties.....	287.06
32 93 43 00-0336	EA	7' Clump Form Malus cvs - Crabapple Varieties.....	318.96
32 93 43 00-0337	EA	8' Clump Form Malus cvs - Crabapple Varieties.....	398.70
32 93 43 00-0338	EA	10' Clump Form Malus cvs - Crabapple Varieties.....	446.54
32 93 43 00-0339	EA	12' Clump Form Malus cvs - Crabapple Varieties.....	574.12
32 93 43 00-0340	EA	1-1/2" Caliper Malus dwarf cvs - Dwarf Crabapple Cultivars	318.96
32 93 43 00-0341	EA	2" Caliper Malus dwarf cvs - Dwarf Crabapple Cultivars.....	398.70
32 93 43 00-0342	EA	4' Clump Form Malus dwarf cvs - Dwarf Crabapple.....	239.22
32 93 43 00-0343	EA	5' Clump Form Malus dwarf cvs - Dwarf Crabapple.....	303.01
32 93 43 00-0344	EA	6' Clump Form Malus dwarf cvs - Dwarf Crabapple.....	366.80
32 93 43 00-0345	EA	7' Clump Form Malus dwarf cvs - Dwarf Crabapple.....	414.64
32 93 43 00-0346	EA	8' Clump Form Malus dwarf cvs - Dwarf Crabapple.....	462.49
32 93 43 00-0347	EA	9' Clump Form Malus dwarf cvs - Dwarf Crabapple.....	510.33
32 93 43 00-0348	EA	1 Gallon Melaleuca saligna (Callistemon salignus) - White Bottle Brush.....	6.80
32 93 43 00-0349	EA	5 Gallon Melaleuca saligna (Callistemon salignus) - White Bottle Brush.....	32.52
32 93 43 00-0350	EA	15 Gallon Melaleuca saligna (Callistemon salignus) - White Bottle Brush.....	56.17
32 93 43 00-0351	EA	15 Gallon Melia azedarach - China Berry	67.39
32 93 43 00-0352	EA	24" Box Melia azedarach - China Berry	222.30
32 93 43 00-0353	EA	4' To 5' Oxydendrum arboreum - Sourwood	146.32
32 93 43 00-0354	EA	5' To 6' Oxydendrum arboreum - Sourwood	182.90
32 93 43 00-0355	EA	6' To 7' Oxydendrum arboreum - Sourwood	219.48
32 93 43 00-0356	EA	7' To 8' Oxydendrum arboreum - Sourwood	256.06



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 93 43 00-0357	EA 1 Gallon Pittosporum undulatum - Victorian Box	25.79			
32 93 43 00-0358	EA 5 Gallon Pittosporum undulatum - Victorian Box	55.56			
32 93 43 00-0359	EA 15 Gallon Pittosporum undulatum - Victorian Box	313.50			
32 93 43 00-0360	EA 24" Box Pittosporum undulatum - Victorian Box	754.00			
32 93 43 00-0361	EA 36" Box Pittosporum undulatum - Victorian Box	2,182.62			
32 93 43 00-0362	EA 48" Box Pittosporum undulatum - Victorian Box	4,960.50			
32 93 43 00-0363	EA 5 Gallon Platanus Racemosa - California Sycamore	21.29			
32 93 43 00-0364	EA 15 Gallon Platanus Racemosa - California Sycamore	57.94			
32 93 43 00-0365	EA 24" Box Platanus Racemosa - California Sycamore	189.20			
32 93 43 00-0366	EA 36" Box Platanus Racemosa - California Sycamore	532.13			
32 93 43 00-0367	EA 1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	6.82			
32 93 43 00-0368	EA 5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	28.89			
32 93 43 00-0369	EA 20 Gallon Prunus subhirtella - Flowering Cherry	394.55			
32 93 43 00-0370	EA 1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry	407.84			
32 93 43 00-0371	EA 2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry	509.75			
32 93 43 00-0372	EA 3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry	1,063.80			
32 93 43 00-0373	EA 3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry	819.90			
32 93 43 00-0374	EA 4" To 5" Caliper Prunus subhirtella - Flowering Cherry	1,595.70			
32 93 43 00-0375	EA 4' To 6' Prunus - Pigeon Plum	161.32			
32 93 43 00-0376	EA 8' To 10' Prunus - Pigeon Plum	548.49			
32 93 43 00-0377	EA 10' To 12' Prunus - Pigeon Plum	696.90			
32 93 43 00-0378	EA 14' To 16' Prunus - Pigeon Plum	1,096.98			
32 93 43 00-0379	EA 5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	101.91			
32 93 43 00-0380	EA 15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	279.14			
32 93 43 00-0381	EA 20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	363.53			
32 93 43 00-0382	EA 5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	115.20			
32 93 43 00-0383	EA 6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	221.54			
32 93 43 00-0384	EA 1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	407.84			
32 93 43 00-0385	EA 2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	487.59			
32 93 43 00-0386	EA 1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry	319.23			
32 93 43 00-0387	EA 1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry	265.84			
32 93 43 00-0388	EA 1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry	389.90			
32 93 43 00-0389	EA 2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry	465.44			
32 93 43 00-0390	EA 2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry	598.36			
32 93 43 00-0391	EA 6' To 8' Prunus yedoensis - Yoshino Cherry	230.61			
32 93 43 00-0392	EA 1-1/2" To 2" Caliper Prunus yedoensis - Yoshino Cherry	354.67			
32 93 43 00-0393	EA 2" To 2-1/2" Caliper Prunus yedoensis - Yoshino Cherry	434.21			
32 93 43 00-0394	EA 2-1/2" To 3" Caliper Prunus yedoensis - Yoshino Cherry	554.05			
32 93 43 00-0395	EA 15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear	308.04			
32 93 43 00-0396	EA 20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear	385.05			
32 93 43 00-0397	EA 1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	400.45			
32 93 43 00-0398	EA 2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	477.46			
32 93 43 00-0399	EA 2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	646.89			
32 93 43 00-0400	EA 3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	847.12			
32 93 43 00-0401	EA 3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	1,078.14			
32 93 43 00-0402	EA 15 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	308.04			
32 93 43 00-0403	EA 20 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	385.05			
32 93 43 00-0404	EA 1-1/2" To 2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	261.84			
32 93 43 00-0405	EA 2" To 2-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	400.45			
32 93 43 00-0406	EA 2-1/2" To 3" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	477.05			
32 93 43 00-0407	EA 3" To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	646.89			
32 93 43 00-0408	EA 3-1/2" To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	847.12			
32 93 43 00-0409	EA 5 Gallon Pyrus calleryana 'Chanticleer' - Chanticleer Flowering Pear	26.28			
32 93 43 00-0410	EA 15 Gallon Pyrus calleryana 'Chanticleer' - Chanticleer Flowering Pear	68.32			
32 93 43 00-0411	EA 24" Box Pyrus calleryana 'Chanticleer' - Chanticleer Flowering Pear	236.50			
32 93 43 00-0412	EA 36" Box Pyrus calleryana 'Chanticleer' - Chanticleer Flowering Pear	630.67			
32 93 43 00-0413	EA 1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	561.11			
32 93 43 00-0414	EA 2" Caliper Pyrus calleryana & cvs - Callery Pear	701.39			
32 93 43 00-0415	EA 2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	869.73			
32 93 43 00-0416	EA 3" Caliper Pyrus calleryana & cvs - Callery Pear	981.95			
32 93 43 00-0417	EA 3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	1,094.17			
32 93 43 00-0418	EA 4" Caliper Pyrus calleryana & cvs - Callery Pear	1,402.78			
32 93 43 00-0419	EA 5 Gallon Quercus kelloggii - California Black Oak	53.21			
32 93 43 00-0420	EA 15 Gallon Quercus kelloggii - California Black Oak	94.60			
32 93 43 00-0421	EA 1 Gallon Quercus lobata - Valley Oak	10.63			
32 93 43 00-0422	EA 5 Gallon Quercus lobata - Valley Oak	31.92			
32 93 43 00-0423	EA 15 Gallon Quercus lobata - Valley Oak	95.77			
32 93 43 00-0424	EA 1 Gallon Ribes aureum - Golden Currant	5.97			
32 93 43 00-0425	EA 5 Gallon Ribes aureum - Golden Currant	17.07			
32 93 43 00-0426	EA 1 Gallon Ribes sanguineum - Red Flowering Currant	5.97			
32 93 43 00-0427	EA 5 Gallon Ribes sanguineum - Red Flowering Currant	17.07			
32 93 43 00-0428	EA 1 Gallon Ribes viburnifolium - Evergreen Currant	5.97			
32 93 43 00-0429	EA 5 Gallon Ribes viburnifolium - Evergreen Currant	17.07			
32 93 43 00-0430	EA 1-3/4" Caliper Sophora japonica - Japanese Pagoda	426.43			
32 93 43 00-0431	EA 2" Caliper Sophora japonica - Japanese Pagoda	479.73			
32 93 43 00-0432	EA 2-1/2" Caliper Sophora japonica - Japanese Pagoda	559.69			
32 93 43 00-0433	EA 3" Caliper Sophora japonica - Japanese Pagoda	818.59			
32 93 43 00-0434	EA 3-1/2" Caliper Sophora japonica - Japanese Pagoda	1,237.40			
32 93 43 00-0435	EA 1-1/2" Caliper Sorbus alnifolia - Korean Mountainash	318.96			
32 93 43 00-0436	EA 2" Caliper Sorbus alnifolia - Korean Mountainash	398.70			
32 93 43 00-0437	EA 2-1/2" Caliper Sorbus alnifolia - Korean Mountainash	494.38			

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0438 EA 3" Caliper Sorbus alnifolia - Korean Mountainash.....	606.02	
32 93 43 00-0439 EA 3-1/2" Caliper Sorbus alnifolia - Korean Mountainash	733.60	
32 93 43 00-0440 EA 4" Caliper Sorbus alnifolia - Korean Mountainash.....	877.13	
32 93 43 00-0441 EA 1-1/2" Caliper Syringa reticulata & cvs - Japanese Tree Lilac	414.64	
32 93 43 00-0442 EA 2" Caliper Syringa reticulata & cvs - Japanese Tree Lilac	446.54	
32 93 43 00-0443 EA 2-1/2" Caliper Syringa reticulata & cvs - Japanese Tree Lilac	542.23	
32 93 43 00-0444 EA 4' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac	255.17	
32 93 43 00-0445 EA 5' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac	303.01	
32 93 43 00-0446 EA 6' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac	350.85	
32 93 43 00-0447 EA 7' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac	398.70	
32 93 43 00-0448 EA 8' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac	462.49	
32 93 43 00-0449 EA 10' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac	590.07	
32 93 43 00-0450 EA 12' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac	669.81	
32 93 43 00-0451 EA 14' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac	765.50	
32 93 43 00-0452 EA 6' Prunus cerasifera - Purple Leaf Plum	247.94	
32 93 43 00-0453 EA 8' Prunus cerasifera - Purple Leaf Plum	286.08	
32 93 43 00-0454 EA 10' Prunus cerasifera - Purple Leaf Plum	368.73	
32 93 43 00-0455 EA 24" Box Prunus cerasifera - Purple Leaf Plum	392.57	
32 93 43 00-0456 EA 30" Box Prunus cerasifera - Purple Leaf Plum	794.68	
32 93 43 00-0457 EA 36" Box Prunus cerasifera - Purple Leaf Plum	1,219.03	
32 93 43 00-0458 EA 6' Pittosporum phylliraeoides - Willow Pittosporum	518.13	
32 93 43 00-0459 EA 8' Pittosporum phylliraeoides - Willow Pittosporum	740.64	
32 93 43 00-0460 EA 10' Pittosporum phylliraeoides - Willow Pittosporum	886.86	
32 93 43 00-0461 EA 12' Pittosporum phylliraeoides - Willow Pittosporum	1,144.33	
32 93 43 00-0462 EA 24" Box Sapium sebiferum - Chinese Tallow Tree	806.96	
32 93 43 00-0463 EA 15 Gallon Sapium sebiferum - Chinese Tallow Tree	220.08	
32 93 43 00-0464 EA 6' Stenocarpus sinuatus - Firewheel Tree	762.89	
32 93 43 00-0465 EA 8' Stenocarpus sinuatus - Firewheel Tree	1,017.18	
32 93 43 00-0466 EA 10' Stenocarpus sinuatus - Firewheel Tree	1,271.48	
32 93 43 00-0467 EA 12' Stenocarpus sinuatus - Firewheel Tree	1,525.78	
32 93 43 00-0468 EA 24" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree	754.00	
32 93 43 00-0469 EA 36" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree	2,182.62	
32 93 43 00-0470 EA 2-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree	689.78	
32 93 43 00-0471 EA 1-1/2" Caliper Tipuana tipu - Tipu Tree	492.70	
32 93 43 00-0472 EA 2" Caliper Tipuana tipu - Tipu Tree	642.10	
32 93 43 00-0473 EA 2-1/2" Caliper Tipuana tipu - Tipu Tree	813.75	
32 93 43 00-0474 EA 3" Caliper Tipuana tipu - Tipu Tree	937.72	
32 93 43 00-0475 EA 3-1/2" Caliper Tipuana tipu - Tipu Tree	1,379.56	
32 93 43 00-0476 EA 4" Caliper Tipuana tipu - Tipu Tree	1,843.65	
32 93 43 00-0477 EA 1 Gallon Tipuana tipu - Tipu Tree	7.69	
32 93 43 00-0478 EA 5 Gallon Tipuana tipu - Tipu Tree	21.29	
32 93 43 00-0479 EA 15 Gallon Tipuana tipu - Tipu Tree	69.77	
32 93 43 00-0480 EA 24" Box Tipuana tipu - Tipu Tree	371.91	

32 93 43 00-0481**Deciduous Shade Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0482 EA 3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple	244.39	
32 93 43 00-0483 EA 4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple	299.57	
32 93 43 00-0484 EA 4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple	390.23	
32 93 43 00-0485 EA 5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple	505.85	
32 93 43 00-0486 EA 2' To 2-1/2' Acer palmatum - Japanese Maple	25.78	
32 93 43 00-0487 EA 4' To 5' Acer palmatum - Japanese Maple	54.13	
32 93 43 00-0488 EA 5' To 6' Acer palmatum - Japanese Maple	70.88	
32 93 43 00-0489 EA 6' To 7' Acer palmatum - Japanese Maple	128.88	
32 93 43 00-0490 EA 7' To 8' Acer palmatum - Japanese Maple	180.43	
32 93 43 00-0491 EA 8' To 10' Acer palmatum - Japanese Maple	231.99	
32 93 43 00-0492 EA 10' To 12' Acer palmatum - Japanese Maple	309.32	
32 93 43 00-0493 EA 2" Caliper Acer platanoides & cvs - Norway Maple	131.39	
32 93 43 00-0494 EA 2" Caliper Acer platanoides & cvs - Norway Maple	159.95	
32 93 43 00-0495 EA 3" Caliper Acer platanoides & cvs - Norway Maple	205.65	
32 93 43 00-0496 EA 3-1/2" Caliper Acer platanoides & cvs - Norway Maple	239.93	
32 93 43 00-0497 EA 4" Caliper Acer platanoides & cvs - Norway Maple	257.07	
32 93 43 00-0498 EA 4-1/2" Caliper Acer platanoides & cvs - Norway Maple	279.92	
32 93 43 00-0499 EA 5" Caliper Acer platanoides & cvs - Norway Maple	314.19	
32 93 43 00-0500 EA 2" Caliper Acer rubrum & cvs - Red Maple	125.68	
32 93 43 00-0501 EA 2-1/2" Caliper Acer rubrum & cvs - Red Maple	159.95	
32 93 43 00-0502 EA 3" Caliper Acer rubrum & cvs - Red Maple	205.65	
32 93 43 00-0503 EA 3-1/2" Caliper Acer rubrum & cvs - Red Maple	251.35	
32 93 43 00-0504 EA 4" Caliper Acer rubrum & cvs - Red Maple	285.63	
32 93 43 00-0505 EA 4-1/2" Caliper Acer rubrum & cvs - Red Maple	331.33	
32 93 43 00-0506 EA 5" Caliper Acer rubrum & cvs - Red Maple	371.32	
32 93 43 00-0507 EA 8' Clump Form Acer rubrum & cvs - Red Maple	154.24	
32 93 43 00-0508 EA 10' Clump Form Acer rubrum & cvs - Red Maple	205.65	
32 93 43 00-0509 EA 12' Clump Form Acer rubrum & cvs - Red Maple	239.93	
32 93 43 00-0510 EA 14' Clump Form Acer rubrum & cvs - Red Maple	274.21	
32 93 43 00-0511 EA 16' Clump Form Acer rubrum & cvs - Red Maple	308.48	
32 93 43 00-0512 EA 18' Clump Form Acer rubrum & cvs - Red Maple	342.76	
32 93 43 00-0513 EA 2" Caliper Acer saccharinum & cvs - Silver Maple	102.83	
32 93 43 00-0514 EA 2-1/2" Caliper Acer saccharinum & cvs - Silver Maple	137.10	



Exterior Improvements			32
Planting			32 90
Plants			32 93

32

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 93 43 00-0515	EA 3" Caliper Acer saccharinum & cvs - Silver Maple.....	171.38		
32 93 43 00-0516	EA 3-1/2" Caliper Acer saccharinum & cvs - Silver Maple.....	205.65		
32 93 43 00-0517	EA 4" Caliper Acer saccharinum & cvs - Silver Maple.....	239.93		
32 93 43 00-0518	EA 4-1/2" Caliper Acer saccharinum & cvs - Silver Maple.....	274.21		
32 93 43 00-0519	EA 5" Caliper Acer saccharinum & cvs - Silver Maple.....	308.48		
32 93 43 00-0520	EA 2" Caliper Acer saccharum & cvs - Sugar Maple.....	125.68		
32 93 43 00-0521	EA 2-1/2" Caliper Acer saccharum & cvs - Sugar Maple.....	165.67		
32 93 43 00-0522	EA 3" Caliper Acer saccharum & cvs - Sugar Maple.....	199.94		
32 93 43 00-0523	EA 3-1/2" Caliper Acer saccharum & cvs - Sugar Maple.....	228.50		
32 93 43 00-0524	EA 4" Caliper Acer saccharum & cvs - Sugar Maple.....	268.49		
32 93 43 00-0525	EA 4-1/2" Caliper Acer saccharum & cvs - Sugar Maple.....	308.48		
32 93 43 00-0526	EA 5" Caliper Acer saccharum & cvs - Sugar Maple.....	342.76		
32 93 43 00-0527	EA 10' Clump Form Acer saccharum & cvs - Sugar Maple.....	228.50		
32 93 43 00-0528	EA 12' Clump Form Acer saccharum & cvs - Sugar Maple.....	268.49		
32 93 43 00-0529	EA 14' Clump Form Acer saccharum & cvs - Sugar Maple.....	314.19		
32 93 43 00-0530	EA 16' Clump Form Acer saccharum & cvs - Sugar Maple.....	348.47		
32 93 43 00-0531	EA 18' Clump Form Acer saccharum & cvs - Sugar Maple.....	422.73		
32 93 43 00-0532	EA 20' Clump Form Acer saccharum & cvs - Sugar Maple.....	457.01		
32 93 43 00-0533	EA 2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	142.82		
32 93 43 00-0534	EA 2-1/2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	177.09		
32 93 43 00-0535	EA 3" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	217.08		
32 93 43 00-0536	EA 3-1/2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	251.35		
32 93 43 00-0537	EA 4" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	274.21		
32 93 43 00-0538	EA 4-1/2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	302.77		
32 93 43 00-0539	EA 5" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	337.04		
32 93 43 00-0540	EA 10' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	205.65		
32 93 43 00-0541	EA 12' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	271.92		
32 93 43 00-0542	EA 14' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	316.48		
32 93 43 00-0543	EA 16' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	348.47		
32 93 43 00-0544	EA 18' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	422.73		
32 93 43 00-0545	EA 20' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	457.01		
32 93 43 00-0546	EA 2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	199.94		
32 93 43 00-0547	EA 2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	222.79		
32 93 43 00-0548	EA 3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	251.35		
32 93 43 00-0549	EA 3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	285.63		
32 93 43 00-0550	EA 4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	342.76		
32 93 43 00-0551	EA 2" Caliper Aesculus x carnea - Red Horsechestnut.....	199.94		
32 93 43 00-0552	EA 2-1/2" Caliper Aesculus x carnea - Red Horsechestnut.....	222.79		
32 93 43 00-0553	EA 3" Caliper Aesculus x carnea - Red Horsechestnut.....	251.35		
32 93 43 00-0554	EA 3-1/2" Caliper Aesculus x carnea - Red Horsechestnut.....	285.63		
32 93 43 00-0555	EA 4" Caliper Aesculus x carnea - Red Horsechestnut.....	342.76		
32 93 43 00-0556	EA 2" Caliper Alnus glutinosa - Common Alder, Black Alder.....	142.82		
32 93 43 00-0557	EA 2-1/2" Caliper Alnus glutinosa - Common Alder, Black Alder.....	165.67		
32 93 43 00-0558	EA 3" Caliper Alnus glutinosa - Common Alder, Black Alder.....	188.52		
32 93 43 00-0559	EA 3-1/2" Caliper Alnus glutinosa - Common Alder, Black Alder.....	217.08		
32 93 43 00-0560	EA 8' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	148.53		
32 93 43 00-0561	EA 10' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	182.80		
32 93 43 00-0562	EA 12' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	205.65		
32 93 43 00-0563	EA 14' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	228.50		
32 93 43 00-0564	EA 16' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	257.07		
32 93 43 00-0565	EA 18' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	285.63		
32 93 43 00-0566	EA 2" Caliper Betula nigra - River Birch.....	142.82		
32 93 43 00-0567	EA 2-1/2" Caliper Betula nigra - River Birch.....	161.72		
32 93 43 00-0568	EA 3" Caliper Betula nigra - River Birch.....	182.80		
32 93 43 00-0569	EA 3-1/2" Caliper Betula nigra - River Birch.....	228.50		
32 93 43 00-0570	EA 4" Caliper Betula nigra - River Birch.....	257.07		
32 93 43 00-0571	EA 4-1/2" Caliper Betula nigra - River Birch.....	285.63		
32 93 43 00-0572	EA 5" Caliper Betula nigra - River Birch.....	314.19		
32 93 43 00-0573	EA 8' Clump Form Betula nigra - River Birch.....	131.39		
32 93 43 00-0574	EA 10' Clump Form Betula nigra - River Birch.....	148.53		
32 93 43 00-0575	EA 12' Clump Form Betula nigra - River Birch.....	171.38		
32 93 43 00-0576	EA 14' Clump Form Betula nigra - River Birch.....	199.94		
32 93 43 00-0577	EA 16' Clump Form Betula nigra - River Birch.....	228.50		
32 93 43 00-0578	EA 12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	171.38		
32 93 43 00-0579	EA 14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	205.65		
32 93 43 00-0580	EA 16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	239.93		
32 93 43 00-0581	EA 18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	285.63		
32 93 43 00-0582	EA 20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	297.06		
32 93 43 00-0583	EA 2" Caliper Carpinus betulus & cvs - European Hornbeam.....	228.50		
32 93 43 00-0584	EA 2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	257.07		
32 93 43 00-0585	EA 3" Caliper Carpinus betulus & cvs - European Hornbeam.....	297.06		
32 93 43 00-0586	EA 3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	359.89		
32 93 43 00-0587	EA 6' Clump Form Carpinus betulus & cvs - European Hornbeam.....	102.83		
32 93 43 00-0588	EA 7' Clump Form Carpinus betulus & cvs - European Hornbeam.....	142.82		
32 93 43 00-0589	EA 8' Clump Form Carpinus betulus & cvs - European Hornbeam.....	177.09		
32 93 43 00-0590	EA 2" Caliper Catalpa speciosa - Western Catalpa.....	125.68		
32 93 43 00-0591	EA 2-1/2" Caliper Catalpa speciosa - Western Catalpa.....	171.38		
32 93 43 00-0592	EA 3" Caliper Catalpa speciosa - Western Catalpa.....	222.79		
32 93 43 00-0593	EA 3-1/2" Caliper Catalpa speciosa - Western Catalpa.....	268.49		
32 93 43 00-0594	EA 4" Caliper Catalpa speciosa - Western Catalpa.....	308.48		
32 93 43 00-0595	EA 2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	159.95		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COST
DEMOLITION
UNIT COST

32 93 43 00-0596	EA	2-1/2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	182.80	
32 93 43 00-0597	EA	3" Caliper Celtis occidentalis & cvs - Common Hackberry.....	222.79	
32 93 43 00-0598	EA	3-1/2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	262.78	
32 93 43 00-0599	EA	4" Caliper Celtis occidentalis & cvs - Common Hackberry.....	302.77	
32 93 43 00-0600	EA	4-1/2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	342.76	
32 93 43 00-0601	EA	3" Caliper Cercidiphyllum japonicum - Katsuratree.....	199.94	
32 93 43 00-0602	EA	3-1/2" Caliper Cercidiphyllum japonicum - Katsuratree.....	228.50	
32 93 43 00-0603	EA	4" Caliper Cercidiphyllum japonicum - Katsuratree.....	268.49	
32 93 43 00-0604	EA	5" Caliper Cercidiphyllum japonicum - Katsuratree.....	319.91	
32 93 43 00-0605	EA	6' Clump Form Cercidiphyllum japonicum - Katsuratree.....	159.95	
32 93 43 00-0606	EA	7' Clump Form Cercidiphyllum japonicum - Katsuratree.....	188.52	
32 93 43 00-0607	EA	8' Clump Form Cercidiphyllum japonicum - Katsuratree.....	228.50	
32 93 43 00-0608	EA	10' Clump Form Cercidiphyllum japonicum - Katsuratree.....	285.63	
32 93 43 00-0609	EA	12' Clump Form Cercidiphyllum japonicum - Katsuratree.....	342.76	
32 93 43 00-0610	EA	2" Caliper Cladrastus lutea - American Yellowwood.....	285.63	
32 93 43 00-0611	EA	2-1/2" Caliper Cladrastus lutea - American Yellowwood.....	342.76	
32 93 43 00-0612	EA	3" Caliper Cladrastus lutea - American Yellowwood.....	399.88	
32 93 43 00-0613	EA	3-1/2" Caliper Cladrastus lutea - American Yellowwood.....	457.01	
32 93 43 00-0614	EA	2" Caliper Corylus columna - Turkish Filbert.....	177.09	
32 93 43 00-0615	EA	2-1/2" Caliper Corylus columna - Turkish Filbert.....	199.94	
32 93 43 00-0616	EA	3" Caliper Corylus columna - Turkish Filbert.....	228.50	
32 93 43 00-0617	EA	3-1/2" Caliper Corylus columna - Turkish Filbert.....	262.78	
32 93 43 00-0618	EA	4" Caliper Corylus columna - Turkish Filbert.....	314.19	
32 93 43 00-0619	EA	4-1/2" Caliper Corylus columna - Turkish Filbert.....	365.61	
32 93 43 00-0620	EA	5" Caliper Corylus columna - Turkish Filbert.....	417.02	
32 93 43 00-0621	EA	8' Clump Form Corylus columna - Turkish Filbert.....	159.95	
32 93 43 00-0622	EA	10' Clump Form Corylus columna - Turkish Filbert.....	194.23	
32 93 43 00-0623	EA	12' Clump Form Corylus columna - Turkish Filbert.....	228.50	
32 93 43 00-0624	EA	14' Clump Form Corylus columna - Turkish Filbert.....	257.07	
32 93 43 00-0625	EA	16' Clump Form Corylus columna - Turkish Filbert.....	285.63	
32 93 43 00-0626	EA	1-1/2" Caliper Diospyros - Persimmon.....	102.83	
32 93 43 00-0627	EA	2" Caliper Diospyros - Persimmon.....	125.68	
32 93 43 00-0628	EA	2-1/2" Caliper Diospyros - Persimmon.....	159.95	
32 93 43 00-0629	EA	3" Caliper Diospyros - Persimmon.....	199.94	
32 93 43 00-0630	EA	3-1/2" Caliper Diospyros - Persimmon.....	239.93	
32 93 43 00-0631	EA	1-1/2" Caliper Fagus grandifolia - American Beech.....	228.50	
32 93 43 00-0632	EA	2" Caliper Fagus grandifolia - American Beech.....	297.06	
32 93 43 00-0633	EA	2-1/2" Caliper Fagus grandifolia - American Beech.....	377.03	
32 93 43 00-0634	EA	3" Caliper Fagus grandifolia - American Beech.....	457.01	
32 93 43 00-0635	EA	3-1/2" Caliper Fagus grandifolia - American Beech.....	542.70	
32 93 43 00-0636	EA	2" Caliper Fagus sylvatica & cvs - European Beech.....	257.07	
32 93 43 00-0637	EA	2-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	308.48	
32 93 43 00-0638	EA	3" Caliper Fagus sylvatica & cvs - European Beech.....	371.32	
32 93 43 00-0639	EA	3-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	411.31	
32 93 43 00-0640	EA	4" Caliper Fagus sylvatica & cvs - European Beech.....	485.57	
32 93 43 00-0641	EA	4-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	628.39	
32 93 43 00-0642	EA	5" Caliper Fagus sylvatica & cvs - European Beech.....	742.64	
32 93 43 00-0643	EA	2" Caliper Fraxinus americana & cvs - White Ash.....	142.82	
32 93 43 00-0644	EA	2-1/2" Caliper Fraxinus americana & cvs - White Ash.....	171.38	
32 93 43 00-0645	EA	3" Caliper Fraxinus americana & cvs - White Ash.....	217.08	
32 93 43 00-0646	EA	3-1/2" Caliper Fraxinus americana & cvs - White Ash.....	262.78	
32 93 43 00-0647	EA	4" Caliper Fraxinus americana & cvs - White Ash.....	308.48	
32 93 43 00-0648	EA	4-1/2" Caliper Fraxinus americana & cvs - White Ash.....	342.76	
32 93 43 00-0649	EA	5" Caliper Fraxinus americana & cvs - White Ash.....	399.88	
32 93 43 00-0650	EA	2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	125.68	
32 93 43 00-0651	EA	2-1/2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	148.53	
32 93 43 00-0652	EA	3" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	199.94	
32 93 43 00-0653	EA	3-1/2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	239.93	
32 93 43 00-0654	EA	4" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	285.63	
32 93 43 00-0655	EA	4-1/2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	308.48	
32 93 43 00-0656	EA	5" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	342.76	
32 93 43 00-0657	EA	1-1/2" Caliper Fraxinus quadrangulata - Blue Ash.....	171.38	
32 93 43 00-0658	EA	2" Caliper Fraxinus quadrangulata - Blue Ash.....	211.37	
32 93 43 00-0659	EA	2-1/2" Caliper Fraxinus quadrangulata - Blue Ash.....	257.07	
32 93 43 00-0660	EA	3" Caliper Fraxinus quadrangulata - Blue Ash.....	314.19	
32 93 43 00-0661	EA	3-1/2" Caliper Fraxinus quadrangulata - Blue Ash.....	371.32	
32 93 43 00-0662	EA	1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	199.94	
32 93 43 00-0663	EA	2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	222.79	
32 93 43 00-0664	EA	2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	251.35	
32 93 43 00-0665	EA	3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	279.92	
32 93 43 00-0666	EA	3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	314.19	
32 93 43 00-0667	EA	4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	342.76	
32 93 43 00-0668	EA	4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	514.13	
32 93 43 00-0669	EA	5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	571.26	
32 93 43 00-0670	EA	2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	137.10	
32 93 43 00-0671	EA	2-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	171.38	
32 93 43 00-0672	EA	3" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	205.65	
32 93 43 00-0673	EA	3-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	239.93	
32 93 43 00-0674	EA	4" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	274.21	
32 93 43 00-0675	EA	4-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	308.48	
32 93 43 00-0676	EA	5" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	365.61	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0677	EA		10' - 12' Bursera Simaruba - Gumbo Limbo.....	72.26	
32 93 43 00-0678	EA		12' - 14' Bursera Simaruba - Gumbo Limbo.....	85.40	
32 93 43 00-0679	EA		14' - 16' Bursera Simaruba - Gumbo Limbo.....	118.25	
32 93 43 00-0680	EA		17' - 18' Bursera Simaruba - Gumbo Limbo.....	153.73	
32 93 43 00-0681	EA		19' - 20' Bursera Simaruba - Gumbo Limbo.....	170.81	
32 93 43 00-0682	EA		21' - 22' Bursera Simaruba - Gumbo Limbo.....	202.34	
32 93 43 00-0683	EA		2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	177.09	
32 93 43 00-0684	EA		2-1/2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	217.08	
32 93 43 00-0685	EA		3" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	257.07	
32 93 43 00-0686	EA		3-1/2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	302.77	
32 93 43 00-0687	EA		4" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	342.76	
32 93 43 00-0688	EA		4-1/2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	382.74	
32 93 43 00-0689	EA		5" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	428.45	
32 93 43 00-0690	EA		1-1/2" To 2" Caliper Zelkova serrata - Japanese Keaki Tree.....	88.41	
32 93 43 00-0691	EA		2" To 2-1/2" Caliper Zelkova serrata - Japanese Keaki Tree.....	108.30	
32 93 43 00-0692	EA		2-1/2" To 3" Caliper Zelkova serrata - Japanese Keaki Tree.....	137.22	
32 93 43 00-0693	EA		1-1/2" Caliper Juglans cinerea - Butternut.....	137.10	
32 93 43 00-0694	EA		2" Caliper Juglans cinerea - Butternut.....	159.95	
32 93 43 00-0695	EA		2-1/2" Caliper Juglans cinerea - Butternut.....	199.94	
32 93 43 00-0696	EA		3" Caliper Juglans cinerea - Butternut.....	251.35	
32 93 43 00-0697	EA		3-1/2" Caliper Juglans cinerea - Butternut.....	308.48	
32 93 43 00-0698	EA		1-1/2" Caliper Juglans californica - California Walnut.....	137.10	
32 93 43 00-0699	EA		2" Caliper Juglans californica - California Walnut.....	159.95	
32 93 43 00-0700	EA		2-1/2" Caliper Juglans californica - California Walnut.....	199.94	
32 93 43 00-0701	EA		3" Caliper Juglans californica - California Walnut.....	251.35	
32 93 43 00-0702	EA		3-1/2" Caliper Juglans californica - California Walnut.....	308.48	
32 93 43 00-0703	EA		4" Caliper Juglans californica - California Walnut.....	371.32	
32 93 43 00-0704	EA		4-1/2" Caliper Juglans californica - California Walnut.....	428.45	
32 93 43 00-0705	EA		5" Caliper Juglans californica - California Walnut.....	485.57	
32 93 43 00-0706	EA		5 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	15.47	
32 93 43 00-0707	EA		15 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	38.66	
32 93 43 00-0708	EA		20 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	77.33	
32 93 43 00-0709	EA		55 Gallon Koelreuteria Paniculata - Goldenrain Tree.....	100.53	
32 93 43 00-0710	EA		1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	73.46	
32 93 43 00-0711	EA		2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	88.93	
32 93 43 00-0712	EA		2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	123.73	
32 93 43 00-0713	EA		1-1/2" Caliper Liquidambar styraciflua - American Sweetgum.....	182.80	
32 93 43 00-0714	EA		2" Caliper Liquidambar styraciflua - American Sweetgum.....	228.50	
32 93 43 00-0715	EA		2-1/2" Caliper Liquidambar styraciflua - American Sweetgum.....	285.63	
32 93 43 00-0716	EA		3" Caliper Liquidambar styraciflua - American Sweetgum.....	342.76	
32 93 43 00-0717	EA		3-1/2" Caliper Liquidambar styraciflua - American Sweetgum.....	399.88	
32 93 43 00-0718	EA		1-1/2" Caliper Liriodendron tulipifera - Tulip Tree.....	182.80	
32 93 43 00-0719	EA		2" Caliper Liriodendron tulipifera - Tulip Tree.....	251.35	
32 93 43 00-0720	EA		2-1/2" Caliper Liriodendron tulipifera - Tulip Tree.....	297.06	
32 93 43 00-0721	EA		3" Caliper Liriodendron tulipifera - Tulip Tree.....	342.76	
32 93 43 00-0722	EA		3-1/2" Caliper Liriodendron tulipifera - Tulip Tree.....	388.46	
32 93 43 00-0723	EA		8' Clump Form Liriodendron tulipifera - Tulip Tree.....	137.10	
32 93 43 00-0724	EA		10' Clump Form Liriodendron tulipifera - Tulip Tree.....	245.64	
32 93 43 00-0725	EA		12' Clump Form Liriodendron tulipifera - Tulip Tree.....	297.06	
32 93 43 00-0726	EA		1-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	182.80	
32 93 43 00-0727	EA		2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	228.50	
32 93 43 00-0728	EA		2-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	285.63	
32 93 43 00-0729	EA		3" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	342.76	
32 93 43 00-0730	EA		3-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	399.88	
32 93 43 00-0731	EA		4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	79.98	
32 93 43 00-0732	EA		5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	91.40	
32 93 43 00-0733	EA		6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	108.54	
32 93 43 00-0734	EA		7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	137.10	
32 93 43 00-0735	EA		8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	171.38	
32 93 43 00-0736	EA		2" Caliper Ostrya virginiana - American Hophornbeam.....	148.53	
32 93 43 00-0737	EA		2-1/2" Caliper Ostrya virginiana - American Hophornbeam.....	188.52	
32 93 43 00-0738	EA		3" Caliper Ostrya virginiana - American Hophornbeam.....	228.50	
32 93 43 00-0739	EA		3-1/2" Caliper Ostrya virginiana - American Hophornbeam.....	268.49	
32 93 43 00-0740	EA		4" Caliper Ostrya virginiana - American Hophornbeam.....	325.62	
32 93 43 00-0741	EA		2" Caliper Phellodendron amurense - Amur Corktree.....	114.25	
32 93 43 00-0742	EA		2-1/2" Caliper Phellodendron amurense - Amur Corktree.....	142.82	
32 93 43 00-0743	EA		3" Caliper Phellodendron amurense - Amur Corktree.....	171.38	
32 93 43 00-0744	EA		3-1/2" Caliper Phellodendron amurense - Amur Corktree.....	199.94	
32 93 43 00-0745	EA		4" Caliper Phellodendron amurense - Amur Corktree.....	228.50	
32 93 43 00-0746	EA		4-1/2" Caliper Phellodendron amurense - Amur Corktree.....	257.07	
32 93 43 00-0747	EA		5" Caliper Phellodendron amurense - Amur Corktree.....	285.63	
32 93 43 00-0748	EA		1-1/2" To 2" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	341.12	
32 93 43 00-0749	EA		2" To 2-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	608.89	
32 93 43 00-0750	EA		2-1/2" To 3" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	891.32	
32 93 43 00-0751	EA		3" To 3-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	1,107.74	
32 93 43 00-0752	EA		3-1/2" To 4" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	1,434.19	
32 93 43 00-0753	EA		4" To 5" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	1,632.26	
32 93 43 00-0754	EA		24" Box Platanus acerifolia "Bloodgold" - London Plane.....	429.16	
32 93 43 00-0755	EA		30" Box Platanus Occidentalis - Buttonwood Sycamore.....	248.18	
32 93 43 00-0756	EA		36" Box Platanus Occidentalis - Buttonwood Sycamore.....	361.00	
32 93 43 00-0757	EA		42" Box Platanus occidentalis - Buttonwood Sycamore.....	537.01	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0758 EA 1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore	83.04	
32 93 43 00-0759 EA 2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	99.28	
32 93 43 00-0760 EA 2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore	135.37	
32 93 43 00-0761 EA 3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	164.28	
32 93 43 00-0762 EA 8' To 10' Platanus occidentalis - Green Or Silver Buttonwood	68.32	
32 93 43 00-0763 EA 10' To 12' Platanus occidentalis - Green Or Silver Buttonwood	85.40	
32 93 43 00-0764 EA 12' To 14' Platanus occidentalis - Green Or Silver Buttonwood	151.10	
32 93 43 00-0765 EA 16' To 18' Platanus occidentalis - Green Or Silver Buttonwood	216.79	
32 93 43 00-0766 EA 2" Caliper Platanus x acerifolia & cvs - London Planetree	137.10	
32 93 43 00-0767 EA 2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree	165.67	
32 93 43 00-0768 EA 3" Caliper Platanus x acerifolia & cvs - London Planetree	199.94	
32 93 43 00-0769 EA 3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree	239.93	
32 93 43 00-0770 EA 4" Caliper Platanus x acerifolia & cvs - London Planetree	285.63	
32 93 43 00-0771 EA 2" Caliper Populus alba & cvs - White Poplar	137.10	
32 93 43 00-0772 EA 2-1/2" Caliper Populus alba & cvs - White Poplar	159.95	
32 93 43 00-0773 EA 3" Caliper Populus alba & cvs - White Poplar	182.80	
32 93 43 00-0774 EA 3-1/2" Caliper Populus alba & cvs - White Poplar	217.08	
32 93 43 00-0775 EA 4" Caliper Populus alba & cvs - White Poplar	239.93	
32 93 43 00-0776 EA 4-1/2" Caliper Populus alba & cvs - White Poplar	274.21	
32 93 43 00-0777 EA 2" Caliper Populus deltoides & cvs - Eastern Cottonwood	125.68	
32 93 43 00-0778 EA 2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	165.67	
32 93 43 00-0779 EA 3" Caliper Populus deltoides & cvs - Eastern Cottonwood	199.94	
32 93 43 00-0780 EA 3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	239.93	
32 93 43 00-0781 EA 4" Caliper Populus deltoides & cvs - Eastern Cottonwood	285.63	
32 93 43 00-0782 EA 1 Gallon Quercus agrifolia - Coast Live Oak	11.71	
32 93 43 00-0783 EA 5 Gallon Quercus agrifolia - Coast Live Oak	28.97	
32 93 43 00-0784 EA 15 Gallon Quercus agrifolia - Coast Live Oak	93.42	
32 93 43 00-0785 EA 24" Box Quercus agrifolia - Coast Live Oak	283.80	
32 93 43 00-0786 EA 6' To 8' Quercus acutissima - Sawtooth Oak	42.96	
32 93 43 00-0787 EA 8' To 10' Quercus acutissima - Sawtooth Oak	64.44	
32 93 43 00-0788 EA 10' To 12' Quercus acutissima - Sawtooth Oak	75.18	
32 93 43 00-0789 EA 1-1/2" To 2" Caliper Quercus acutissima - Sawtooth Oak	85.92	
32 93 43 00-0790 EA 2" To 2-1/2" Caliper Quercus acutissima - Sawtooth Oak	96.66	
32 93 43 00-0791 EA 3" To 3-1/2" Caliper Quercus virginiana - Live Oak	340.25	
32 93 43 00-0792 EA 3-1/2" To 4" Caliper Quercus virginiana - Live Oak	458.55	
32 93 43 00-0793 EA 4" To 4-1/2" Caliper Quercus virginiana - Live Oak	620.16	
32 93 43 00-0794 EA 4-1/2" To 5" Caliper Quercus virginiana - Live Oak	827.76	
32 93 43 00-0795 EA 5" To 5-1/2" Caliper Quercus virginiana - Live Oak	998.56	
32 93 43 00-0796 EA 5-1/2" To 6" Caliper Quercus virginiana - Live Oak	1,103.68	
32 93 43 00-0797 EA 6" To 6-1/2" Caliper Quercus virginiana - Live Oak	1,484.71	
32 93 43 00-0798 EA 6-1/2" To 7" Caliper Quercus virginiana - Live Oak	1,865.74	
32 93 43 00-0799 EA 7" To 7-1/2" Caliper Quercus virginiana - Live Oak	2,246.77	
32 93 43 00-0800 EA 7-1/2" To 8" Caliper Quercus virginiana - Live Oak	2,726.34	
32 93 43 00-0801 EA 8" To 8-1/2" Caliper Quercus virginiana - Live Oak	3,205.92	
32 93 43 00-0802 EA 2" Caliper Quercus alba - White Oak	171.38	
32 93 43 00-0803 EA 2-1/2" Caliper Quercus alba - White Oak	199.94	
32 93 43 00-0804 EA 3" Caliper Quercus alba - White Oak	251.35	
32 93 43 00-0805 EA 3-1/2" Caliper Quercus alba - White Oak	314.19	
32 93 43 00-0806 EA 4" Caliper Quercus alba - White Oak	371.32	
32 93 43 00-0807 EA 4-1/2" Caliper Quercus alba - White Oak	457.01	
32 93 43 00-0808 EA 5" Caliper Quercus alba - White Oak	542.70	
32 93 43 00-0809 EA 2" Caliper Quercus bicolor - Swamp White Oak	199.94	
32 93 43 00-0810 EA 2-1/2" Caliper Quercus bicolor - Swamp White Oak	228.50	
32 93 43 00-0811 EA 3" Caliper Quercus bicolor - Swamp White Oak	262.78	
32 93 43 00-0812 EA 3-1/2" Caliper Quercus bicolor - Swamp White Oak	291.34	
32 93 43 00-0813 EA 4" Caliper Quercus bicolor - Swamp White Oak	331.33	
32 93 43 00-0814 EA 4-1/2" Caliper Quercus bicolor - Swamp White Oak	365.61	
32 93 43 00-0815 EA 5" Caliper Quercus bicolor - Swamp White Oak	411.31	
32 93 43 00-0816 EA 10' Clump Form Quercus bicolor - Swamp White Oak	285.63	
32 93 43 00-0817 EA 12' Clump Form Quercus bicolor - Swamp White Oak	342.76	
32 93 43 00-0818 EA 14' Clump Form Quercus bicolor - Swamp White Oak	399.88	
32 93 43 00-0819 EA 16' Clump Form Quercus bicolor - Swamp White Oak	457.01	
32 93 43 00-0820 EA 2" Caliper Quercus coccinea - Scarlet Oak	148.53	
32 93 43 00-0821 EA 2-1/2" Caliper Quercus coccinea - Scarlet Oak	188.52	
32 93 43 00-0822 EA 3" Caliper Quercus coccinea - Scarlet Oak	234.22	
32 93 43 00-0823 EA 3-1/2" Caliper Quercus coccinea - Scarlet Oak	285.63	
32 93 43 00-0824 EA 4" Caliper Quercus coccinea - Scarlet Oak	342.76	
32 93 43 00-0825 EA 4-1/2" Caliper Quercus coccinea - Scarlet Oak	405.60	
32 93 43 00-0826 EA 5" Caliper Quercus coccinea - Scarlet Oak	474.15	
32 93 43 00-0827 EA 1-1/2" Caliper Quercus imbricaria - Shingle Oak	148.53	
32 93 43 00-0828 EA 2" Caliper Quercus imbricaria - Shingle Oak	199.94	
32 93 43 00-0829 EA 2-1/2" Caliper Quercus imbricaria - Shingle Oak	268.49	
32 93 43 00-0830 EA 3" Caliper Quercus imbricaria - Shingle Oak	399.88	
32 93 43 00-0831 EA 3-1/2" Caliper Quercus imbricaria - Shingle Oak	542.70	
32 93 43 00-0832 EA 1-1/2" Caliper Quercus macrocarpa - Bur Oak	148.53	
32 93 43 00-0833 EA 2" Caliper Quercus macrocarpa - Bur Oak	177.09	
32 93 43 00-0834 EA 2-1/2" Caliper Quercus macrocarpa - Bur Oak	211.37	
32 93 43 00-0835 EA 3" Caliper Quercus macrocarpa - Bur Oak	257.07	
32 93 43 00-0836 EA 3-1/2" Caliper Quercus macrocarpa - Bur Oak	314.19	
32 93 43 00-0837 EA 4" Caliper Quercus macrocarpa - Bur Oak	371.32	
32 93 43 00-0838 EA 9' Clump Form Quercus macrocarpa - Bur Oak	342.76	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
32 93 43 00-0839	EA	10' Clump Form Quercus macrocarpa - Bur Oak	399.88	
32 93 43 00-0840	EA	12' Clump Form Quercus macrocarpa - Bur Oak	457.01	
32 93 43 00-0841	EA	2" Caliper Quercus palustris - Pin Oak	125.68	
32 93 43 00-0842	EA	2-1/2" Caliper Quercus palustris - Pin Oak	171.38	
32 93 43 00-0843	EA	3" Caliper Quercus palustris - Pin Oak	222.79	
32 93 43 00-0844	EA	3-1/2" Caliper Quercus palustris - Pin Oak	257.07	
32 93 43 00-0845	EA	4" Caliper Quercus palustris - Pin Oak	297.06	
32 93 43 00-0846	EA	4-1/2" Caliper Quercus palustris - Pin Oak	337.04	
32 93 43 00-0847	EA	5" Caliper Quercus palustris - Pin Oak	371.32	
32 93 43 00-0848	EA	2" Caliper Quercus robur & cvs - English Oak	148.53	
32 93 43 00-0849	EA	2-1/2" Caliper Quercus robur & cvs - English Oak	182.80	
32 93 43 00-0850	EA	3" Caliper Quercus robur & cvs - English Oak	217.08	
32 93 43 00-0851	EA	3-1/2" Caliper Quercus robur & cvs - English Oak	257.07	
32 93 43 00-0852	EA	4" Caliper Quercus robur & cvs - English Oak	297.06	
32 93 43 00-0853	EA	4-1/2" Caliper Quercus robur & cvs - English Oak	342.76	
32 93 43 00-0854	EA	5" Caliper Quercus robur & cvs - English Oak	388.46	
32 93 43 00-0855	EA	2" Caliper Quercus rubra - Red Oak	171.38	
32 93 43 00-0856	EA	2-1/2" Caliper Quercus rubra - Red Oak	199.94	
32 93 43 00-0857	EA	3" Caliper Quercus rubra - Red Oak	239.93	
32 93 43 00-0858	EA	3-1/2" Caliper Quercus rubra - Red Oak	285.63	
32 93 43 00-0859	EA	4" Caliper Quercus rubra - Red Oak	342.76	
32 93 43 00-0860	EA	4-1/2" Caliper Quercus rubra - Red Oak	399.88	
32 93 43 00-0861	EA	5" Caliper Quercus rubra - Red Oak	457.01	
32 93 43 00-0862	EA	16' Clump Form Quercus rubra - Red Oak	371.32	
32 93 43 00-0863	EA	18' Clump Form Quercus rubra - Red Oak	445.58	
32 93 43 00-0864	EA	20' Clump Form Quercus rubra - Red Oak	497.00	
32 93 43 00-0865	EA	2" Caliper Quercus shumardii - Shumard Oak	194.23	
32 93 43 00-0866	EA	2-1/2" Caliper Quercus shumardii - Shumard Oak	245.64	
32 93 43 00-0867	EA	3" Caliper Quercus shumardii - Shumard Oak	285.63	
32 93 43 00-0868	EA	3-1/2" Caliper Quercus shumardii - Shumard Oak	342.76	
32 93 43 00-0869	EA	4" Caliper Quercus shumardii - Shumard Oak	399.88	
32 93 43 00-0870	EA	4-1/2" Caliper Quercus shumardii - Shumard Oak	457.01	
32 93 43 00-0871	EA	5" Caliper Quercus shumardii - Shumard Oak	514.13	
32 93 43 00-0872	EA	2" Caliper Quercus schuettii - Swamp Bur Oak	171.38	
32 93 43 00-0873	EA	2-1/2" Caliper Quercus schuettii - Swamp Bur Oak	205.65	
32 93 43 00-0874	EA	3" Caliper Quercus schuettii - Swamp Bur Oak	257.07	
32 93 43 00-0875	EA	3-1/2" Caliper Quercus schuettii - Swamp Bur Oak	314.19	
32 93 43 00-0876	EA	4" Caliper Quercus schuettii - Swamp Bur Oak	365.61	
32 93 43 00-0877	EA	4-1/2" Caliper Quercus schuettii - Swamp Bur Oak	411.31	
32 93 43 00-0878	EA	1-1/2" Caliper Quercus suber - Cork Oak	513.52	
32 93 43 00-0879	EA	2" Caliper Quercus suber - Cork Oak	711.59	
32 93 43 00-0880	EA	2-1/2" Caliper Quercus suber - Cork Oak	909.66	
32 93 43 00-0881	EA	3" Caliper Quercus suber - Cork Oak	1,137.08	
32 93 43 00-0882	EA	3-1/2" Caliper Quercus suber - Cork Oak	1,705.62	
32 93 43 00-0883	EA	4" Caliper Quercus suber - Cork Oak	2,200.80	
32 93 43 00-0884	EA	4-1/2" Caliper Quercus suber - Cork Oak	2,861.04	
32 93 43 00-0885	EA	1-1/2" Caliper Quercus ilex - Holly Oak	568.54	
32 93 43 00-0886	EA	2" Caliper Quercus ilex - Holly Oak	766.61	
32 93 43 00-0887	EA	2-1/2" Caliper Quercus ilex - Holly Oak	939.01	
32 93 43 00-0888	EA	3" Caliper Quercus ilex - Holly Oak	1,137.08	
32 93 43 00-0889	EA	3-1/2" Caliper Quercus ilex - Holly Oak	1,705.62	
32 93 43 00-0890	EA	4" Caliper Quercus ilex - Holly Oak	2,200.80	
32 93 43 00-0891	EA	24" Box Salix babylonica - Weeping Willow	144.39	
32 93 43 00-0892	EA	36" Box Salix babylonica - Weeping Willow	361.00	
32 93 43 00-0893	EA	1-1/2" To 2" Caliper Salix babylonica - Weeping Willow	83.04	
32 93 43 00-0894	EA	2" To 2-1/2" Caliper Salix babylonica - Weeping Willow	99.28	
32 93 43 00-0895	EA	2-1/2" To 3" Caliper Salix babylonica - Weeping Willow	108.30	
32 93 43 00-0896	EA	2" Caliper Salix alba & cvs - White Willow	91.40	
32 93 43 00-0897	EA	2-1/2" Caliper Salix alba & cvs - White Willow	108.54	
32 93 43 00-0898	EA	3" Caliper Salix alba & cvs - White Willow	142.82	
32 93 43 00-0899	EA	3-1/2" Caliper Salix alba & cvs - White Willow	171.38	
32 93 43 00-0900	EA	4" Caliper Salix alba & cvs - White Willow	205.65	
32 93 43 00-0901	EA	4-1/2" Caliper Salix alba & cvs - White Willow	239.93	
32 93 43 00-0902	EA	5" Caliper Salix alba & cvs - White Willow	274.21	
32 93 43 00-0903	EA	5' Clump Form Sassafras albidum - Common Sassafras	108.54	
32 93 43 00-0904	EA	6' Clump Form Sassafras albidum - Common Sassafras	131.39	
32 93 43 00-0905	EA	7' Clump Form Sassafras albidum - Common Sassafras	165.67	
32 93 43 00-0906	EA	8' Clump Form Sassafras albidum - Common Sassafras	188.52	
32 93 43 00-0907	EA	10' Clump Form Sassafras albidum - Common Sassafras	211.37	
32 93 43 00-0908	EA	12' Clump Form Sassafras albidum - Common Sassafras	257.07	
32 93 43 00-0909	EA	14' Clump Form Sassafras albidum - Common Sassafras	314.19	
32 93 43 00-0910	EA	16' Clump Form Sassafras albidum - Common Sassafras	371.32	
32 93 43 00-0911	EA	1-3/4" Caliper Sophora japonica - Chinese Scholar	189.20	
32 93 43 00-0912	EA	2" Caliper Sophora japonica - Chinese Scholar	210.22	
32 93 43 00-0913	EA	2-1/2" Caliper Sophora japonica - Chinese Scholar	282.49	
32 93 43 00-0914	EA	3" Caliper Sophora japonica - Chinese Scholar	367.89	
32 93 43 00-0915	EA	3-1/2" Caliper Sophora japonica - Chinese Scholar	427.02	
32 93 43 00-0916	EA	10' To 12' Swietenia Mahagoni - Mahogany	101.17	
32 93 43 00-0917	EA	12' To 14' Swietenia Mahagoni - Mahogany	118.25	
32 93 43 00-0918	EA	14' To 16' Swietenia Mahagoni - Mahogany	157.67	
32 93 43 00-0919	EA	16' To 18' Swietenia Mahagoni - Mahogany	177.38	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0920 EA 2" Caliper Taxodium distichum - Common Bald Cypress	142.82	
32 93 43 00-0921 EA 2-1/2" Caliper Taxodium distichum - Common Bald Cypress	165.67	
32 93 43 00-0922 EA 3" Caliper Taxodium distichum - Common Bald Cypress	199.94	
32 93 43 00-0923 EA 3-1/2" Caliper Taxodium distichum - Common Bald Cypress	228.50	
32 93 43 00-0924 EA 4" Caliper Taxodium distichum - Common Bald Cypress	251.35	
32 93 43 00-0925 EA 6' Clump Form Taxodium distichum - Common Bald Cypress	125.68	
32 93 43 00-0926 EA 7' Clump Form Taxodium distichum - Common Bald Cypress	142.82	
32 93 43 00-0927 EA 8' Clump Form Taxodium distichum - Common Bald Cypress	205.65	
32 93 43 00-0928 EA 10' Clump Form Taxodium distichum - Common Bald Cypress	228.50	
32 93 43 00-0929 EA 12' Clump Form Taxodium distichum - Common Bald Cypress	257.07	
32 93 43 00-0930 EA 14' Clump Form Taxodium distichum - Common Bald Cypress	297.06	
32 93 43 00-0931 EA 16' Clump Form Taxodium distichum - Common Bald Cypress	342.76	
32 93 43 00-0932 EA 2' Thuja occidentalis - American Arborvitae	19.58	
32 93 43 00-0933 EA 2-1/2' Thuja occidentalis - American Arborvitae	21.15	
32 93 43 00-0934 EA 3' Thuja occidentalis - American Arborvitae	30.22	
32 93 43 00-0935 EA 4' Thuja occidentalis - American Arborvitae	41.52	
32 93 43 00-0936 EA 5' Thuja occidentalis - American Arborvitae	57.81	
32 93 43 00-0937 EA 6' Thuja occidentalis - American Arborvitae	80.15	
32 93 43 00-0938 EA 7' Thuja occidentalis - American Arborvitae	97.23	
32 93 43 00-0939 EA 8' Thuja occidentalis - American Arborvitae	136.65	
32 93 43 00-0940 EA 2" Caliper Tilia americana & cvs - American Linden Basswood	142.82	
32 93 43 00-0941 EA 2-1/2" Caliper Tilia americana & cvs - American Linden Basswood	165.67	
32 93 43 00-0942 EA 3" Caliper Tilia americana & cvs - American Linden Basswood	211.37	
32 93 43 00-0943 EA 3-1/2" Caliper Tilia americana & cvs - American Linden Basswood	245.64	
32 93 43 00-0944 EA 4" Caliper Tilia americana & cvs - American Linden Basswood	279.92	
32 93 43 00-0945 EA 4-1/2" Caliper Tilia americana & cvs - American Linden Basswood	314.19	
32 93 43 00-0946 EA 5" Caliper Tilia americana & cvs - American Linden Basswood	342.76	
32 93 43 00-0947 EA 10' Clump Form Tilia americana & cvs - American Linden Basswood	182.80	
32 93 43 00-0948 EA 12' Clump Form Tilia americana & cvs - American Linden Basswood	199.94	
32 93 43 00-0949 EA 14' Clump Form Tilia americana & cvs - American Linden Basswood	228.50	
32 93 43 00-0950 EA 16' Clump Form Tilia americana & cvs - American Linden Basswood	262.78	
32 93 43 00-0951 EA 2" Caliper Tilia cordata & cvs - Littleleaf Linden	143.67	
32 93 43 00-0952 EA 2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	173.55	
32 93 43 00-0953 EA 3" Caliper Tilia cordata & cvs - Littleleaf Linden	199.94	
32 93 43 00-0954 EA 3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	245.64	
32 93 43 00-0955 EA 4" Caliper Tilia cordata & cvs - Littleleaf Linden	279.92	
32 93 43 00-0956 EA 4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	314.19	
32 93 43 00-0957 EA 5" Caliper Tilia cordata & cvs - Littleleaf Linden	348.47	
32 93 43 00-0958 EA 2" Caliper Tilia tomentosa & cvs - Silver Linden	159.95	
32 93 43 00-0959 EA 2-1/2" Caliper Tilia tomentosa & cvs - Silver Linden	177.09	
32 93 43 00-0960 EA 3" Caliper Tilia tomentosa & cvs - Silver Linden	194.23	
32 93 43 00-0961 EA 3-1/2" Caliper Tilia tomentosa & cvs - Silver Linden	217.08	
32 93 43 00-0962 EA 4" Caliper Tilia tomentosa & cvs - Silver Linden	251.35	
32 93 43 00-0963 EA 4-1/2" Caliper Tilia tomentosa & cvs - Silver Linden	297.06	
32 93 43 00-0964 EA 5" Caliper Tilia tomentosa & cvs - Silver Linden	388.46	
32 93 43 00-0965 EA 2" Caliper Tilia x euchlora - Crimean Linden	159.95	
32 93 43 00-0966 EA 2-1/2" Caliper Tilia x euchlora - Crimean Linden	205.65	
32 93 43 00-0967 EA 3" Caliper Tilia x euchlora - Crimean Linden	251.35	
32 93 43 00-0968 EA 3-1/2" Caliper Tilia x euchlora - Crimean Linden	285.63	
32 93 43 00-0969 EA 4" Caliper Tilia x euchlora - Crimean Linden	319.91	
32 93 43 00-0970 EA 4-1/2" Caliper Tilia x euchlora - Crimean Linden	359.89	
32 93 43 00-0971 EA 5" Caliper Tilia x euchlora - Crimean Linden	388.46	
32 93 43 00-0972 EA 2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	159.95	
32 93 43 00-0973 EA 2-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	182.80	
32 93 43 00-0974 EA 3" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	199.94	
32 93 43 00-0975 EA 3-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	217.08	
32 93 43 00-0976 EA 4" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	239.93	
32 93 43 00-0977 EA 4-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	285.63	
32 93 43 00-0978 EA 5" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	337.04	
32 93 43 00-0979 EA 2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	182.80	
32 93 43 00-0980 EA 2-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	199.94	
32 93 43 00-0981 EA 3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	217.08	
32 93 43 00-0982 EA 3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	239.93	
32 93 43 00-0983 EA 4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	285.63	
32 93 43 00-0984 EA 4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	337.04	
32 93 43 00-0985 EA 5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	388.46	
32 93 43 00-0986 EA 2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	182.80	
32 93 43 00-0987 EA 2-1/2" Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm	199.94	
32 93 43 00-0988 EA 3" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	217.08	
32 93 43 00-0989 EA 3-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	239.93	
32 93 43 00-0990 EA 4" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	285.63	
32 93 43 00-0991 EA 4-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	337.04	
32 93 43 00-0992 EA 5" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	388.46	

32 93 43 00-0993**Evergreen Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0994 EA 6' Abies balsamea - Balsam Fir	139.70
32 93 43 00-0995 EA 7' Abies balsamea - Balsam Fir	174.62
32 93 43 00-0996 EA 8' Abies balsamea - Balsam Fir	209.54

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0997 EA 9' Abies balsamea - Balsam Fir	279.39	
32 93 43 00-0998 EA 10' Abies balsamea - Balsam Fir	349.24	
32 93 43 00-0999 EA 12' Abies balsamea - Balsam Fir	419.09	
32 93 43 00-1000 EA 6' Abies concolor - White Fir	202.56	
32 93 43 00-1001 EA 7' Abies concolor - White Fir	230.50	
32 93 43 00-1002 EA 8' Abies concolor - White Fir	272.41	
32 93 43 00-1003 EA 9' Abies concolor - White Fir	314.32	
32 93 43 00-1004 EA 10' Abies concolor - White Fir	370.19	
32 93 43 00-1005 EA 12' Abies concolor - White Fir	454.01	
32 93 43 00-1006 EA 14' Abies concolor - White Fir	558.78	
32 93 43 00-1007 EA 16' Abies concolor - White Fir	628.63	
32 93 43 00-1008 EA 6' Abies fraseri - Frasier Fir	139.70	
32 93 43 00-1009 EA 7' Abies fraseri - Frasier Fir	174.62	
32 93 43 00-1010 EA 8' Abies fraseri - Frasier Fir	209.54	
32 93 43 00-1011 EA 9' Abies fraseri - Frasier Fir	279.39	
32 93 43 00-1012 EA 10' Abies fraseri - Frasier Fir	349.24	
32 93 43 00-1013 EA 12' Abies fraseri - Frasier Fir	419.09	
32 93 43 00-1014 EA 5 Gallon Araucaria heterophylla (Araucaria excelsa) - Norfolk Island Pine, Star Pine	71.43	
32 93 43 00-1015 EA 15 Gallon Araucaria heterophylla (Araucaria excelsa) - Norfolk Island Pine, Star Pine	496.05	
32 93 43 00-1016 EA 24" Box Araucaria heterophylla (Araucaria excelsa) - Norfolk Island Pine, Star Pine	992.10	
32 93 43 00-1017 EA 36" Box Araucaria heterophylla (Araucaria excelsa) - Norfolk Island Pine, Star Pine	2,381.04	
32 93 43 00-1018 EA 1 Gallon Bauhinia variegata (Bauhinia purpurea) - Purple Orchid Tree	7.69	
32 93 43 00-1019 EA 5 Gallon Bauhinia variegata (Bauhinia purpurea) - Purple Orchid Tree	28.97	
32 93 43 00-1020 EA 15 Gallon Bauhinia variegata (Bauhinia purpurea) - Purple Orchid Tree	93.42	
32 93 43 00-1021 EA 24" Box Bauhinia variegata (Bauhinia purpurea) - Purple Orchid Tree	224.68	
32 93 43 00-1022 EA 5 Gallon Bauhinia blakeana - Hong Kong Orchid Tree	21.29	
32 93 43 00-1023 EA 15 Gallon Bauhinia blakeana - Hong Kong Orchid Tree	93.42	
32 93 43 00-1024 EA 24" Box Bauhinia blakeana - Hong Kong Orchid Tree	224.68	
32 93 43 00-1025 EA 1 Gallon Callistemon viminalis - Weeping Bottlebrush	17.86	
32 93 43 00-1026 EA 5 Gallon Callistemon viminalis - Weeping Bottlebrush	55.56	
32 93 43 00-1027 EA 15 Gallon Callistemon viminalis - Weeping Bottlebrush	194.45	
32 93 43 00-1028 EA 24" Box Callistemon viminalis - Weeping Bottlebrush	634.94	
32 93 43 00-1029 EA 36" Box Callistemon viminalis - Weeping Bottlebrush	1,785.78	
32 93 43 00-1030 EA 2' To 3' Cedrus atlantica - Blue Atlas Cedar	25.16	
32 93 43 00-1031 EA 3' To 4' Cedrus atlantica - Blue Atlas Cedar	40.45	
32 93 43 00-1032 EA 4' To 5' Cedrus atlantica - Blue Atlas Cedar	60.09	
32 93 43 00-1033 EA 5' To 6' Cedrus atlantica - Blue Atlas Cedar	80.84	
32 93 43 00-1034 EA 7' To 8' Cedrus atlantica - Blue Atlas Cedar	114.77	
32 93 43 00-1035 EA 1 Gallon Cedrus deodara - Deodar Cedar	39.29	
32 93 43 00-1036 EA 5 Gallon Cedrus deodara - Deodar Cedar	71.43	
32 93 43 00-1037 EA 15 Gallon Cedrus deodara - Deodar Cedar	313.50	
32 93 43 00-1038 EA 24" Box Cedrus deodara - Deodar Cedar	992.10	
32 93 43 00-1039 EA 36" Box Cedrus deodara - Deodar Cedar	2,182.62	
32 93 43 00-1040 EA 6' Cedrus decurrens - Incense Cedar	117.27	
32 93 43 00-1041 EA 8' Cedrus decurrens - Incense Cedar	242.58	
32 93 43 00-1042 EA 10' Cedrus decurrens - Incense Cedar	321.30	
32 93 43 00-1043 EA 12' Cedrus decurrens - Incense Cedar	425.72	
32 93 43 00-1044 EA 6' To 8' Cedrus deodara - Indian Cedar	103.85	
32 93 43 00-1045 EA 8' To 10' Cedrus deodara - Indian Cedar	120.24	
32 93 43 00-1046 EA 10' To 12' Cedrus deodara - Indian Cedar	163.94	
32 93 43 00-1047 EA 12' To 14' Cedrus deodara - Indian Cedar	213.11	
32 93 43 00-1048 EA 14' To 16' Cedrus deodara - Indian Cedar	273.25	
32 93 43 00-1049 EA 5 Gallon Cedrus libani - Cedar of Lebanon	71.43	
32 93 43 00-1050 EA 15 Gallon Cedrus libani - Cedar of Lebanon	313.50	
32 93 43 00-1051 EA 24" Box Cedrus libani - Cedar of Lebanon	754.00	
32 93 43 00-1052 EA 36" Box Cedrus libani - Cedar of Lebanon	2,182.62	
32 93 43 00-1053 EA 15 Gallon Celtis australis - European Hackberry	257.95	
32 93 43 00-1054 EA 24" Box Celtis australis - European Hackberry	892.89	
32 93 43 00-1055 EA 15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress	32.46	
32 93 43 00-1056 EA 18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress	48.69	
32 93 43 00-1057 EA 2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress	75.74	
32 93 43 00-1058 EA 3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress	129.85	
32 93 43 00-1059 EA 4' To 5' Chamaecyparis pisifera - Sawara Cypress	39.34	
32 93 43 00-1060 EA 5' To 6' Chamaecyparis pisifera - Sawara Cypress	61.25	
32 93 43 00-1061 EA 6' To 7' Chamaecyparis pisifera - Sawara Cypress	76.48	
32 93 43 00-1062 EA 7' To 8' Chamaecyparis pisifera - Sawara Cypress	109.31	
32 93 43 00-1063 EA 1 Gallon Cinnamomum camphora - Camphor Tree	25.79	
32 93 43 00-1064 EA 5 Gallon Cinnamomum camphora - Camphor Tree	71.43	
32 93 43 00-1065 EA 15 Gallon Cinnamomum camphora - Camphor Tree	194.45	
32 93 43 00-1066 EA 24" Box Cinnamomum camphora - Camphor Tree	634.94	
32 93 43 00-1067 EA 36" Box Cinnamomum camphora - Camphor Tree	1,785.78	
32 93 43 00-1068 EA 1 Gallon Cleyera japonica - Japanese Cleyera	4.43	
32 93 43 00-1069 EA 3 Gallon Cleyera japonica - Japanese Cleyera	11.11	
32 93 43 00-1070 EA 7 Gallon Cleyera japonica - Japanese Cleyera	31.82	
32 93 43 00-1071 EA 5 Gallon Cupressocyparis leylandii - Leyland Cypress	17.86	
32 93 43 00-1072 EA 15 Gallon Cupressocyparis leylandii - Leyland Cypress	71.44	
32 93 43 00-1073 EA 4' To 5' Cupressocyparis leylandii - Leyland Cypress	31.25	
32 93 43 00-1074 EA 5' To 6' Cupressocyparis leylandii - Leyland Cypress	40.18	
32 93 43 00-1075 EA 6' To 7' Cupressocyparis leylandii - Leyland Cypress	62.51	
32 93 43 00-1076 EA 24" Box Cupressocyparis leylandii - Leyland Cypress	151.81	
32 93 43 00-1077 EA 1 Gallon Cupressus macrocarpa - Monterey Cypress	3.26	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-1078	EA	5 Gallon Cupressus macrocarpa - Monterey Cypress	14.66	
32 93 43 00-1079	EA	15 Gallon Cupressus macrocarpa - Monterey Cypress	48.85	
32 93 43 00-1080	EA	5 Gallon Cupressus sempervirens - Italian Cypress	16.81	
32 93 43 00-1081	EA	15 Gallon Cupressus sempervirens - Italian Cypress	46.22	
32 93 43 00-1082	EA	1 Gallon Eriobotrya deflexa - Bronze Loquat	25.79	
32 93 43 00-1083	EA	5 Gallon Eriobotrya deflexa - Bronze Loquat	71.43	
32 93 43 00-1084	EA	15 Gallon Eriobotrya deflexa - Bronze Loquat	313.50	
32 93 43 00-1085	EA	24" Box Eriobotrya deflexa - Bronze Loquat	754.00	
32 93 43 00-1086	EA	36" Box Eriobotrya deflexa - Bronze Loquat	2,182.62	
32 93 43 00-1087	EA	1 Gallon Heteromeles arbutifolia - Toyon	25.79	
32 93 43 00-1088	EA	5 Gallon Heteromeles arbutifolia - Toyon	71.43	
32 93 43 00-1089	EA	15 Gallon Heteromeles arbutifolia - Toyon	238.06	
32 93 43 00-1090	EA	24" Box Heteromeles arbutifolia - Toyon	754.00	
32 93 43 00-1091	EA	1 Gallon Illicium anisatum - Anise Tree	4.80	
32 93 43 00-1092	EA	3 Gallon Illicium anisatum - Anise Tree	11.11	
32 93 43 00-1093	EA	1 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	4.94	
32 93 43 00-1094	EA	2 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	9.66	
32 93 43 00-1095	EA	3 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	11.98	
32 93 43 00-1096	EA	5 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	14.08	
32 93 43 00-1097	EA	1 Gallon Juniperus - Blue Sargent Juniper	4.94	
32 93 43 00-1098	EA	2 Gallon Juniperus - Blue Sargent Juniper	9.66	
32 93 43 00-1099	EA	3 Gallon Juniperus - Blue Sargent Juniper	11.98	
32 93 43 00-1100	EA	5 Gallon Juniperus - Blue Sargent Juniper	14.08	
32 93 43 00-1101	EA	5 Gallon Juniperus - Compact Pfitzer Juniper	14.08	
32 93 43 00-1102	EA	15" To 18" Juniperus - Compact Pfitzer Juniper	15.23	
32 93 43 00-1103	EA	18" To 24" Juniperus - Compact Pfitzer Juniper	18.38	
32 93 43 00-1104	EA	2' To 2 1/2' Juniperus - Compact Pfitzer Juniper	27.31	
32 93 43 00-1105	EA	2-1/2' To 3' Juniperus - Compact Pfitzer Juniper	31.62	
32 93 43 00-1106	EA	5' To 6' Juniperus - Fairview Juniper	47.10	
32 93 43 00-1107	EA	1 Gallon Juniperus - Hollywood Juniper	6.30	
32 93 43 00-1108	EA	5 Gallon Juniperus - Hollywood Juniper	17.54	
32 93 43 00-1109	EA	15 Gallon Juniperus - Hollywood Juniper	74.38	
32 93 43 00-1110	EA	4' To 5' Juniperus - Hollywood Juniper	49.17	
32 93 43 00-1111	EA	5' To 6' Juniperus - Hollywood Juniper	63.35	
32 93 43 00-1112	EA	1 Gallon Juniperus - Parson's Juniper	4.94	
32 93 43 00-1113	EA	2 Gallon Juniperus - Parson's Juniper	9.77	
32 93 43 00-1114	EA	3 Gallon Juniperus - Parson's Juniper	12.08	
32 93 43 00-1115	EA	5 Gallon Juniperus - Parson's Juniper	14.29	
32 93 43 00-1116	EA	5 Gallon Juniperus - Skyrocket Juniper	17.65	
32 93 43 00-1117	EA	15 Gallon Juniperus - Skyrocket Juniper	75.11	
32 93 43 00-1118	EA	2' To 3' Juniperus - Skyrocket Juniper	26.47	
32 93 43 00-1119	EA	3' To 4' Juniperus - Skyrocket Juniper	37.50	
32 93 43 00-1120	EA	4' To 5' Juniperus - Skyrocket Juniper	49.69	
32 93 43 00-1121	EA	5' To 6' Juniperus - Skyrocket Juniper	64.08	
32 93 43 00-1122	EA	6' To 8' Juniperus - Skyrocket Juniper	82.78	
32 93 43 00-1123	EA	1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	4.94	
32 93 43 00-1124	EA	2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	9.72	
32 93 43 00-1125	EA	3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	11.92	
32 93 43 00-1126	EA	5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	14.13	
32 93 43 00-1127	EA	1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	4.94	
32 93 43 00-1128	EA	2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	9.72	
32 93 43 00-1129	EA	3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	11.92	
32 93 43 00-1130	EA	5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	14.13	
32 93 43 00-1131	EA	2' To 3' Juniperus virginiana - Eastern Red Cedar	26.47	
32 93 43 00-1132	EA	3' To 4' Juniperus virginiana - Eastern Red Cedar	37.50	
32 93 43 00-1133	EA	4' To 5' Juniperus virginiana - Eastern Red Cedar	49.69	
32 93 43 00-1134	EA	5' To 6' Juniperus virginiana - Eastern Red Cedar	64.08	
32 93 43 00-1135	EA	1 Gallon Laurus nobilis - Sweet Bay	17.86	
32 93 43 00-1136	EA	5 Gallon Laurus nobilis - Sweet Bay	55.56	
32 93 43 00-1137	EA	15 Gallon Laurus nobilis - Sweet Bay	194.45	
32 93 43 00-1138	EA	24" Box Laurus nobilis - Sweet Bay	634.94	
32 93 43 00-1139	EA	36" Box Laurus nobilis - Sweet Bay	2,182.62	
32 93 43 00-1140	EA	5 Gallon Lophostemon confertus (Tristania conferta) - Brisbane Box	55.56	
32 93 43 00-1141	EA	15 Gallon Lophostemon confertus (Tristania conferta) - Brisbane Box	194.45	
32 93 43 00-1142	EA	24" Box Lophostemon confertus (Tristania conferta) - Brisbane Box	634.94	
32 93 43 00-1143	EA	36" Box Lophostemon confertus (Tristania conferta) - Brisbane Box	1,785.78	
32 93 43 00-1144	EA	1 Gallon Lyonothamnus floribundus - Catalina Ironwood	39.29	
32 93 43 00-1145	EA	5 Gallon Lyonothamnus floribundus - Catalina Ironwood	97.23	
32 93 43 00-1146	EA	15 Gallon Lyonothamnus floribundus - Catalina Ironwood	496.05	
32 93 43 00-1147	EA	24" Box Lyonothamnus floribundus - Catalina Ironwood	992.10	
32 93 43 00-1148	EA	1 Gallon Lyonothamnus floribundus ssp. asplenifolius - Catalina Ironwood	39.64	
32 93 43 00-1149	EA	5 Gallon Lyonothamnus floribundus ssp. asplenifolius - Catalina Ironwood	119.01	
32 93 43 00-1150	EA	6' Melaleuca linariifolia - Flaxleaf Paperbark	337.36	
32 93 43 00-1151	EA	8' Melaleuca linariifolia - Flaxleaf Paperbark	449.82	
32 93 43 00-1152	EA	10' Melaleuca linariifolia - Flaxleaf Paperbark	562.28	
32 93 43 00-1153	EA	12' Melaleuca linariifolia - Flaxleaf Paperbark	674.73	
32 93 43 00-1154	EA	1 Gallon Melaleuca linariifolia - Flaxleaf Paperbark	9.40	
32 93 43 00-1155	EA	5 Gallon Melaleuca linariifolia - Flaxleaf Paperbark	29.24	
32 93 43 00-1156	EA	15 Gallon Melaleuca linariifolia - Flaxleaf Paperbark	102.33	
32 93 43 00-1157	EA	24" Box Melaleuca linariifolia - Flaxleaf Paperbark	334.15	
32 93 43 00-1158	EA	6' Melaleuca quinquenervia - Cajeput Tree	337.36	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
32 93 43 00-1159	EA	8' Melaleuca quinquenervia - Cajeput Tree	449.82	
32 93 43 00-1160	EA	10' Melaleuca quinquenervia - Cajeput Tree	562.28	
32 93 43 00-1161	EA	12' Melaleuca quinquenervia - Cajeput Tree	674.73	
32 93 43 00-1162	EA	24" Box Melaleuca quinquenervia - Cajeput Tree	187.96	
32 93 43 00-1163	EA	30" Box Melaleuca quinquenervia - Cajeput Tree	473.92	
32 93 43 00-1164	EA	36" Box Melaleuca quinquenervia - Cajeput Tree	747.02	
32 93 43 00-1165	EA	4' Metrosideros excelsus - New Zealand Christmas Tree	99.60	
32 93 43 00-1166	EA	5' Metrosideros excelsus - New Zealand Christmas Tree	134.95	
32 93 43 00-1167	EA	6' Metrosideros excelsus - New Zealand Christmas Tree	229.73	
32 93 43 00-1168	EA	8' Metrosideros excelsus - New Zealand Christmas Tree	284.35	
32 93 43 00-1169	EA	24" Box Metrosideros excelsus - New Zealand Christmas Tree	189.20	
32 93 43 00-1170	EA	1 Gallon Photinia fraseri - Fraser's Photinia	17.86	
32 93 43 00-1171	EA	5 Gallon Photinia fraseri - Fraser's Photinia	154.77	
32 93 43 00-1172	EA	15 Gallon Photinia fraseri - Fraser's Photinia	234.14	
32 93 43 00-1173	EA	24" Box Photinia fraseri - Fraser's Photinia	754.00	
32 93 43 00-1174	EA	5' Picea abies & cvs - Norway Spruce	153.67	
32 93 43 00-1175	EA	6' Picea abies & cvs - Norway Spruce	174.62	
32 93 43 00-1176	EA	7' Picea abies & cvs - Norway Spruce	209.54	
32 93 43 00-1177	EA	8' Picea abies & cvs - Norway Spruce	244.47	
32 93 43 00-1178	EA	9' Picea abies & cvs - Norway Spruce	328.28	
32 93 43 00-1179	EA	10' Picea abies & cvs - Norway Spruce	398.13	
32 93 43 00-1180	EA	12' Picea abies & cvs - Norway Spruce	488.93	
32 93 43 00-1181	EA	14' Picea abies & cvs - Norway Spruce	593.71	
32 93 43 00-1182	EA	6' Picea glauca - White Spruce	146.68	
32 93 43 00-1183	EA	7' Picea glauca - White Spruce	209.54	
32 93 43 00-1184	EA	8' Picea glauca - White Spruce	244.47	
32 93 43 00-1185	EA	9' Picea glauca - White Spruce	293.36	
32 93 43 00-1186	EA	10' Picea glauca - White Spruce	349.24	
32 93 43 00-1187	EA	12' Picea glauca - White Spruce	419.09	
32 93 43 00-1188	EA	4' Picea glauca densata - Black Hills Spruce	83.82	
32 93 43 00-1189	EA	5' Picea glauca densata - Black Hills Spruce	125.73	
32 93 43 00-1190	EA	6' Picea glauca densata - Black Hills Spruce	188.59	
32 93 43 00-1191	EA	7' Picea glauca densata - Black Hills Spruce	223.51	
32 93 43 00-1192	EA	8' Picea glauca densata - Black Hills Spruce	258.44	
32 93 43 00-1193	EA	9' Picea glauca densata - Black Hills Spruce	286.38	
32 93 43 00-1194	EA	10' Picea glauca densata - Black Hills Spruce	314.32	
32 93 43 00-1195	EA	1 Gallon Melaleuca citrina (Callistemon citrinus) - Lemon Bottlebrush	13.89	
32 93 43 00-1196	EA	5 Gallon Melaleuca citrina (Callistemon citrinus) - Lemon Bottlebrush	39.68	
32 93 43 00-1197	EA	15 Gallon Melaleuca citrina (Callistemon citrinus) - Lemon Bottlebrush	154.77	
32 93 43 00-1198	EA	24" Box Melaleuca citrina (Callistemon citrinus) - Lemon Bottlebrush	634.94	
32 93 43 00-1199	EA	36" Box Melaleuca citrina (Callistemon citrinus) - Lemon Bottlebrush	1,785.78	
32 93 43 00-1200	EA	1 Gallon Melaleuca viminalis (Callistemon viminalis) - Weeping Bottle Brush	17.86	
32 93 43 00-1201	EA	5 Gallon Melaleuca viminalis (Callistemon viminalis) - Weeping Bottle Brush	55.56	
32 93 43 00-1202	EA	15 Gallon Melaleuca viminalis (Callistemon viminalis) - Weeping Bottle Brush	194.45	
32 93 43 00-1203	EA	24" Box Melaleuca viminalis (Callistemon viminalis) - Weeping Bottle Brush	634.94	
32 93 43 00-1204	EA	36" Box Melaleuca viminalis (Callistemon viminalis) - Weeping Bottle Brush	1,785.78	
32 93 43 00-1205	EA	1 Gallon Metrosideros excelsa - New Zealand Christmas Tree	7.69	
32 93 43 00-1206	EA	5 Gallon Metrosideros excelsa - New Zealand Christmas Tree	28.97	
32 93 43 00-1207	EA	15 Gallon Metrosideros excelsa - New Zealand Christmas Tree	93.42	
32 93 43 00-1208	EA	24" Box Olea europaea 'Swan Hill' - Swan Hill Olive	992.10	
32 93 43 00-1209	EA	36" Box Olea europaea 'Swan Hill' - Swan Hill Olive	2,381.04	
32 93 43 00-1210	EA	6' Picea omorika & cvs - Serbian Spruce	188.59	
32 93 43 00-1211	EA	7' Picea omorika & cvs - Serbian Spruce	209.54	
32 93 43 00-1212	EA	8' Picea omorika & cvs - Serbian Spruce	251.45	
32 93 43 00-1213	EA	9' Picea omorika & cvs - Serbian Spruce	293.36	
32 93 43 00-1214	EA	10' Picea omorika & cvs - Serbian Spruce	335.27	
32 93 43 00-1215	EA	5' Picea pungens - Colorado Green Spruce	153.67	
32 93 43 00-1216	EA	6' Picea pungens - Colorado Green Spruce	195.57	
32 93 43 00-1217	EA	7' Picea pungens - Colorado Green Spruce	230.50	
32 93 43 00-1218	EA	8' Picea pungens - Colorado Green Spruce	265.42	
32 93 43 00-1219	EA	9' Picea pungens - Colorado Green Spruce	307.33	
32 93 43 00-1220	EA	10' Picea pungens - Colorado Green Spruce	579.74	
32 93 43 00-1221	EA	12' Picea pungens - Colorado Green Spruce	419.09	
32 93 43 00-1222	EA	14' Picea pungens - Colorado Green Spruce	488.93	
32 93 43 00-1223	EA	16' Picea pungens - Colorado Green Spruce	628.63	
32 93 43 00-1224	EA	5' Picea pungens glauca & cvs - Colorado Blue Spruce	153.67	
32 93 43 00-1225	EA	6' Picea pungens glauca & cvs - Colorado Blue Spruce	209.54	
32 93 43 00-1226	EA	7' Picea pungens glauca & cvs - Colorado Blue Spruce	244.47	
32 93 43 00-1227	EA	8' Picea pungens glauca & cvs - Colorado Blue Spruce	279.39	
32 93 43 00-1228	EA	9' Picea pungens glauca & cvs - Colorado Blue Spruce	314.32	
32 93 43 00-1229	EA	10' Picea pungens glauca & cvs - Colorado Blue Spruce	384.16	
32 93 43 00-1230	EA	12' Picea pungens glauca & cvs - Colorado Blue Spruce	488.93	
32 93 43 00-1231	EA	16' Picea pungens glauca & cvs - Colorado Blue Spruce	733.40	
32 93 43 00-1232	EA	6' Pinus canariensis - Canary Island Pine	385.56	
32 93 43 00-1233	EA	8' Pinus canariensis - Canary Island Pine	514.08	
32 93 43 00-1234	EA	10' Pinus canariensis - Canary Island Pine	642.60	
32 93 43 00-1235	EA	12' Pinus canariensis - Canary Island Pine	771.12	
32 93 43 00-1236	EA	1 Gallon Pinus canariensis - Canary Island Pine	25.79	
32 93 43 00-1237	EA	5 Gallon Pinus canariensis - Canary Island Pine	71.43	
32 93 43 00-1238	EA	15 Gallon Pinus canariensis - Canary Island Pine	234.14	
32 93 43 00-1239	EA	24" Box Pinus canariensis - Canary Island Pine	396.81	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-1240	EA	1 Gallon Pinus eldarica - Eldarica Pine, Afghan Pine, Mondell Pine.....	17.86	
32 93 43 00-1241	EA	5 Gallon Pinus eldarica - Eldarica Pine, Afghan Pine, Mondell Pine.....	55.56	
32 93 43 00-1242	EA	15 Gallon Pinus eldarica - Eldarica Pine, Afghan Pine, Mondell Pine.....	194.45	
32 93 43 00-1243	EA	24" Box Pinus eldarica - Eldarica Pine, Afghan Pine, Mondell Pine.....	634.94	
32 93 43 00-1244	EA	36" Box Pinus eldarica - Eldarica Pine, Afghan Pine, Mondell Pine.....	1,785.78	
32 93 43 00-1245	EA	1 Gallon Pinus halepensis - Aleppo Pine.....	17.86	
32 93 43 00-1246	EA	5 Gallon Pinus halepensis - Aleppo Pine.....	55.56	
32 93 43 00-1247	EA	15 Gallon Pinus halepensis - Aleppo Pine.....	194.45	
32 93 43 00-1248	EA	24" Box Pinus halepensis - Aleppo Pine.....	634.94	
32 93 43 00-1249	EA	36" Box Pinus halepensis - Aleppo Pine.....	1,785.78	
32 93 43 00-1250	EA	1 Gallon Pinus muricata - Bishop Pine.....	39.64	
32 93 43 00-1251	EA	5 Gallon Pinus muricata - Bishop Pine.....	119.01	
32 93 43 00-1252	EA	15 Gallon Pinus patula - Jelecote Pine, Mexican Weeping Pine.....	257.95	
32 93 43 00-1253	EA	24" Box Pinus patula - Jelecote Pine, Mexican Weeping Pine.....	892.89	
32 93 43 00-1254	EA	6' Pinus pinea - Italian Stone Pine.....	385.56	
32 93 43 00-1255	EA	8' Pinus pinea - Italian Stone Pine.....	514.08	
32 93 43 00-1256	EA	10' Pinus pinea - Italian Stone Pine.....	642.60	
32 93 43 00-1257	EA	12' Pinus pinea - Italian Stone Pine.....	771.12	
32 93 43 00-1258	EA	1 Gallon Pinus pinea - Italian Stone Pine.....	13.57	
32 93 43 00-1259	EA	5 Gallon Pinus pinea - Italian Stone Pine.....	37.59	
32 93 43 00-1260	EA	15 Gallon Pinus pinea - Italian Stone Pine.....	123.22	
32 93 43 00-1261	EA	24" Box Pinus pinea - Italian Stone Pine.....	334.15	
32 93 43 00-1262	EA	36" Box Pinus pinea - Italian Stone Pine.....	939.80	
32 93 43 00-1263	EA	2' Pinus strobus - Pyramidal White Pine.....	19.34	
32 93 43 00-1264	EA	3' Pinus strobus - Pyramidal White Pine.....	25.85	
32 93 43 00-1265	EA	4' Pinus strobus - Pyramidal White Pine.....	28.52	
32 93 43 00-1266	EA	5' Pinus strobus - Pyramidal White Pine.....	31.18	
32 93 43 00-1267	EA	6' Pinus strobus - Pyramidal White Pine.....	38.85	
32 93 43 00-1268	EA	7' Pinus strobus - Pyramidal White Pine.....	51.69	
32 93 43 00-1269	EA	8' Pinus strobus - Pyramidal White Pine.....	71.04	
32 93 43 00-1270	EA	10' Pinus strobus - Pyramidal White Pine.....	141.74	
32 93 43 00-1271	EA	12' Pinus strobus - Pyramidal White Pine.....	336.84	
32 93 43 00-1272	EA	14' Pinus strobus - Pyramidal White Pine.....	451.91	
32 93 43 00-1273	EA	16' Pinus strobus - Pyramidal White Pine.....	543.62	
32 93 43 00-1274	EA	2' Pinus strobus - White Pine.....	29.72	
32 93 43 00-1275	EA	3' Pinus strobus - White Pine.....	42.41	
32 93 43 00-1276	EA	4' Pinus strobus - White Pine.....	67.63	
32 93 43 00-1277	EA	5' Pinus strobus - White Pine.....	96.39	
32 93 43 00-1278	EA	6' Pinus strobus - White Pine.....	141.37	
32 93 43 00-1279	EA	7' Pinus strobus - White Pine.....	168.68	
32 93 43 00-1280	EA	8' Pinus strobus - White Pine.....	228.12	
32 93 43 00-1281	EA	10' Pinus strobus - White Pine.....	306.84	
32 93 43 00-1282	EA	12' Pinus strobus - White Pine.....	406.44	
32 93 43 00-1283	EA	14' Pinus strobus - White Pine.....	498.02	
32 93 43 00-1284	EA	16' Pinus strobus - White Pine.....	605.65	
32 93 43 00-1285	EA	3' Pinus sylvestris - Scotch Pine.....	45.89	
32 93 43 00-1286	EA	4' Pinus sylvestris - Scotch Pine.....	63.70	
32 93 43 00-1287	EA	5' Pinus sylvestris - Scotch Pine.....	89.41	
32 93 43 00-1288	EA	6' Pinus sylvestris - Scotch Pine.....	124.05	
32 93 43 00-1289	EA	7' Pinus sylvestris - Scotch Pine.....	151.99	
32 93 43 00-1290	EA	8' Pinus sylvestris - Scotch Pine.....	214.57	
32 93 43 00-1291	EA	9' Pinus sylvestris - Scotch Pine.....	272.41	
32 93 43 00-1292	EA	10' Pinus sylvestris - Scotch Pine.....	314.32	
32 93 43 00-1293	EA	12' Pinus sylvestris - Scotch Pine.....	370.19	
32 93 43 00-1294	EA	14' Pinus sylvestris - Scotch Pine.....	419.09	
32 93 43 00-1295	EA	16' Pinus sylvestris - Scotch Pine.....	488.93	
32 93 43 00-1296	EA	5' To 6' Pinus taeda - Loblolly Pine.....	19.97	
32 93 43 00-1297	EA	1 Gallon Pinus thunbergiana - Japanese Black Pine.....	4.94	
32 93 43 00-1298	EA	5 Gallon Pinus thunbergiana - Japanese Black Pine.....	17.54	
32 93 43 00-1299	EA	15 Gallon Pinus thunbergiana - Japanese Black Pine.....	56.84	
32 93 43 00-1300	EA	2' To 3' Pinus thunbergiana - Japanese Black Pine.....	24.06	
32 93 43 00-1301	EA	3' To 4' Pinus thunbergiana - Japanese Black Pine.....	30.57	
32 93 43 00-1302	EA	4' To 5' Pinus thunbergiana - Japanese Black Pine.....	45.91	
32 93 43 00-1303	EA	5' To 6' Pinus thunbergiana - Japanese Black Pine.....	89.61	
32 93 43 00-1304	EA	6' To 7' Pinus thunbergiana - Japanese Black Pine.....	100.54	
32 93 43 00-1305	EA	7' To 8' Pinus thunbergiana - Japanese Black Pine.....	125.65	
32 93 43 00-1306	EA	4' Pinus cembra - Swiss Stone Pine.....	118.74	
32 93 43 00-1307	EA	5' Pinus cembra - Swiss Stone Pine.....	146.68	
32 93 43 00-1308	EA	6' Pinus cembra - Swiss Stone Pine.....	181.60	
32 93 43 00-1309	EA	6' Pinus flexilis & cvs - Limber Pine.....	174.62	
32 93 43 00-1310	EA	7' Pinus flexilis & cvs - Limber Pine.....	202.56	
32 93 43 00-1311	EA	8' Pinus flexilis & cvs - Limber Pine.....	251.45	
32 93 43 00-1312	EA	9' Pinus flexilis & cvs - Limber Pine.....	307.33	
32 93 43 00-1313	EA	10' Pinus flexilis & cvs - Limber Pine.....	349.24	
32 93 43 00-1314	EA	1 Gallon Pinus mugo - Mugho Pine.....	6.51	
32 93 43 00-1315	EA	2 Gallon Pinus mugo - Mugho Pine.....	13.76	
32 93 43 00-1316	EA	3 Gallon Pinus mugo - Mugho Pine.....	17.23	
32 93 43 00-1317	EA	5 Gallon Pinus mugo - Mugho Pine.....	21.85	
32 93 43 00-1318	EA	12" To 15" Spread Pinus mugo - Mugho Pine.....	16.91	
32 93 43 00-1319	EA	15" To 18" Spread Pinus mugo - Mugho Pine.....	20.17	
32 93 43 00-1320	EA	18" To 24" Spread Pinus mugo - Mugho Pine.....	27.31	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-1321	EA	2'	To 2-1/2' Spread Pinus mugo - Mugho Pine	38.24	
32 93 43 00-1322	EA	2-1/2'	To 3' Spread Pinus mugo - Mugho Pine	49.17	
32 93 43 00-1323	EA	3'	To 3-1/2' Spread Pinus mugo - Mugho Pine	61.25	
32 93 43 00-1324	EA	3-1/2'	To 4' Spread Pinus mugo - Mugho Pine	74.38	
32 93 43 00-1325	EA	6'	Pinus nigra - Austrian Pine.....	174.62	
32 93 43 00-1326	EA	7'	Pinus nigra - Austrian Pine.....	209.54	
32 93 43 00-1327	EA	8'	Pinus nigra - Austrian Pine.....	272.41	
32 93 43 00-1328	EA	9'	Pinus nigra - Austrian Pine.....	314.32	
32 93 43 00-1329	EA	10'	Pinus nigra - Austrian Pine.....	370.19	
32 93 43 00-1330	EA	12'	Pinus nigra - Austrian Pine.....	419.09	
32 93 43 00-1331	EA	14'	Pinus nigra - Austrian Pine.....	467.98	
32 93 43 00-1332	EA	16'	Pinus nigra - Austrian Pine.....	530.84	
32 93 43 00-1333	EA	5'	Pinus peuce - Macedonian Pine	216.53	
32 93 43 00-1334	EA	6'	Pinus peuce - Macedonian Pine	272.41	
32 93 43 00-1335	EA	7'	Pinus peuce - Macedonian Pine	314.32	
32 93 43 00-1336	EA	8'	Pinus peuce - Macedonian Pine	356.22	
32 93 43 00-1337	EA	9'	Pinus peuce - Macedonian Pine	412.10	
32 93 43 00-1338	EA	1	Gallon Pinus torreyana - Torrey Pine.....	39.29	
32 93 43 00-1339	EA	5	Gallon Pinus torreyana - Torrey Pine.....	97.23	
32 93 43 00-1340	EA	15	Gallon Pinus torreyana - Torrey Pine.....	313.50	
32 93 43 00-1341	EA	24"	Box Pinus torreyana - Torrey Pine.....	754.00	
32 93 43 00-1342	EA	36"	Box Pinus torreyana - Torrey Pine.....	2,182.62	
32 93 43 00-1343	EA	6'	Pittosporum undulatum - Victorian Box	212.06	
32 93 43 00-1344	EA	8'	Pittosporum undulatum - Victorian Box	335.76	
32 93 43 00-1345	EA	10'	Pittosporum undulatum - Victorian Box	441.79	
32 93 43 00-1346	EA	1	Gallon Podocarpus - Chinese Podocarpus	3.26	
32 93 43 00-1347	EA	3	Gallon Podocarpus - Chinese Podocarpus	7.56	
32 93 43 00-1348	EA	7	Gallon Podocarpus - Chinese Podocarpus	21.85	
32 93 43 00-1349	EA	15	Gallon Podocarpus - Chinese Podocarpus	35.51	
32 93 43 00-1350	EA	4'	To 5' Podocarpus - Chinese Podocarpus.....	54.63	
32 93 43 00-1351	EA	1	Gallon Rhus lancea - African Sumac.....	25.79	
32 93 43 00-1352	EA	5	Gallon Rhus lancea - African Sumac.....	71.43	
32 93 43 00-1353	EA	15	Gallon Rhus lancea - African Sumac.....	194.45	
32 93 43 00-1354	EA	6'	Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	401.62	
32 93 43 00-1355	EA	8'	Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	530.14	
32 93 43 00-1356	EA	10'	Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	674.73	
32 93 43 00-1357	EA	12'	Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	803.25	
32 93 43 00-1358	EA	24"	Box Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	187.96	
32 93 43 00-1359	EA	1	Gallon Podocarpus macrophyllus - Yew Pine	7.47	
32 93 43 00-1360	EA	3	Gallon Podocarpus macrophyllus - Yew Pine	17.51	
32 93 43 00-1361	EA	5	Gallon Podocarpus macrophyllus - Yew Pine	22.97	
32 93 43 00-1362	EA	15	Gallon Podocarpus macrophyllus - Yew Pine	99.60	
32 93 43 00-1363	EA	24"	Box Podocarpus macrophyllus - Yew Pine	192.78	
32 93 43 00-1364	EA	5'	Pseudotsuga menziesii - Douglas Fir.....	139.70	
32 93 43 00-1365	EA	6'	Pseudotsuga menziesii - Douglas Fir.....	167.63	
32 93 43 00-1366	EA	7'	Pseudotsuga menziesii - Douglas Fir.....	209.54	
32 93 43 00-1367	EA	8'	Pseudotsuga menziesii - Douglas Fir.....	251.45	
32 93 43 00-1368	EA	9'	Pseudotsuga menziesii - Douglas Fir.....	314.32	
32 93 43 00-1369	EA	10'	Pseudotsuga menziesii - Douglas Fir.....	370.19	
32 93 43 00-1370	EA	12'	Pseudotsuga menziesii - Douglas Fir.....	419.09	
32 93 43 00-1371	EA	15	Gallon Prosopis alba 'Colorado' - Argentine Mesquite.....	226.16	
32 93 43 00-1372	EA	24"	Box Prosopis alba 'Colorado' - Argentine Mesquite.....	785.70	
32 93 43 00-1373	EA	15	Gallon Prosopis hybrid 'Phoenix' - Phoenix Mesquite.....	226.16	
32 93 43 00-1374	EA	24"	Box Prosopis hybrid 'Phoenix' - Phoenix Mesquite.....	785.70	
32 93 43 00-1375	EA	1	Gallon Prunus ilicifolia ssp lyonii (Prunus lyonii) - Catalina Cherry	25.79	
32 93 43 00-1376	EA	5	Gallon Prunus ilicifolia ssp lyonii (Prunus lyonii) - Catalina Cherry	97.23	
32 93 43 00-1377	EA	15	Gallon Prunus ilicifolia ssp lyonii (Prunus lyonii) - Catalina Cherry	218.26	
32 93 43 00-1378	EA	24"	Box Prunus ilicifolia ssp lyonii (Prunus lyonii) - Catalina Cherry	754.00	
32 93 43 00-1379	EA	24"	Box Quercus engelmannii - Mesa Oak	952.42	
32 93 43 00-1380	EA	36"	Box Quercus engelmannii - Mesa Oak	2,381.04	
32 93 43 00-1381	EA	5	Gallon Quillaja saponaria - Soapbark Tree.....	257.95	
32 93 43 00-1382	EA	15	Gallon Quillaja saponaria - Soapbark Tree.....	892.89	
32 93 43 00-1383	EA	24"	Box Rhus lancea - African Sumac.....	198.40	
32 93 43 00-1384	EA	30"	Box Rhus lancea - African Sumac.....	321.30	
32 93 43 00-1385	EA	8'	Rhus lancea - African Sumac.....	481.95	
32 93 43 00-1386	EA	10'	Rhus lancea - African Sumac.....	538.18	
32 93 43 00-1387	EA	12'	Rhus lancea - African Sumac.....	642.60	
32 93 43 00-1388	EA	5'	To 6' Sequoia sempervirens - Dawn Redwood	68.29	
32 93 43 00-1389	EA	6'	To 8' Sequoia sempervirens - Dawn Redwood	92.19	
32 93 43 00-1390	EA	8'	To 10' Sequoia sempervirens - Dawn Redwood	112.67	
32 93 43 00-1391	EA	3'	To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae	13.17	
32 93 43 00-1392	EA	3'	To 4' Thuja occidentalis 'Woodwardii' - Woodward Arborvitae	24.65	
32 93 43 00-1393	EA	5'	To 6' Taxodium distichum & cvs - Bald Cypress	48.54	
32 93 43 00-1394	EA	6'	To 7' Taxodium distichum & cvs - Bald Cypress	60.67	
32 93 43 00-1395	EA	7'	To 8' Taxodium distichum & cvs - Bald Cypress	75.01	
32 93 43 00-1396	EA	8'	To 10' Taxodium distichum & cvs - Bald Cypress	94.92	
32 93 43 00-1397	EA	6'	Tsuga canadensis - Northern Hemlock.....	139.70	
32 93 43 00-1398	EA	7'	Tsuga canadensis - Northern Hemlock.....	174.62	
32 93 43 00-1399	EA	8'	Tsuga canadensis - Northern Hemlock.....	237.48	
32 93 43 00-1400	EA	9'	Tsuga canadensis - Northern Hemlock.....	279.39	
32 93 43 00-1401	EA	10'	Tsuga canadensis - Northern Hemlock.....	314.32	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-1402	EA	12' Tsuga canadensis - Northern Hemlock	349.24	
32 93 43 00-1403	EA	1 Gallon Tristania conferta - Brisbane Box	25.79	
32 93 43 00-1404	EA	5 Gallon Tristania conferta - Brisbane Box	71.43	
32 93 43 00-1405	EA	15 Gallon Tristania conferta - Brisbane Box	194.45	
32 93 43 00-1406	EA	24" Box Tristania conferta - Brisbane Box	634.94	
32 93 43 00-1407	EA	36" Box Tristania conferta - Brisbane Box	1,785.78	
32 93 43 00-1408 Palm And Subtropical Trees (32 93 43)				
Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.				
32 93 43 00-1409	EA	4' To 5' Acacia baileyana - Bailey Acacia	262.78	
32 93 43 00-1410	EA	6' Acacia baileyana - Bailey Acacia	315.34	
32 93 43 00-1411	EA	8' Acacia baileyana - Bailey Acacia	367.89	
32 93 43 00-1412	EA	10' Acacia baileyana - Bailey Acacia	459.86	
32 93 43 00-1413	EA	6' Agonis flexuosa - Peppermint Tree	157.67	
32 93 43 00-1414	EA	8' Agonis flexuosa - Peppermint Tree	197.08	
32 93 43 00-1415	EA	10' Agonis flexuosa - Peppermint Tree	236.50	
32 93 43 00-1416	EA	24" Box Agonis flexuosa - Peppermint Tree	196.43	
32 93 43 00-1417	EA	4' To 5' Archontophoenix cunninghamiana - King Palm	107.48	
32 93 43 00-1418	EA	6' To 8' Archontophoenix cunninghamiana - King Palm	167.20	
32 93 43 00-1419	EA	8' To 10' Archontophoenix cunninghamiana - King Palm	214.97	
32 93 43 00-1420	EA	10' To 12' Archontophoenix cunninghamiana - King Palm	286.62	
32 93 43 00-1421	EA	4' To 5' Arecastrum romanzoffianum - Queen Palm	81.43	
32 93 43 00-1422	EA	6' To 8' Arecastrum romanzoffianum - Queen Palm	114.00	
32 93 43 00-1423	EA	8' To 10' Arecastrum romanzoffianum - Queen Palm	146.57	
32 93 43 00-1424	EA	10' To 12' Arecastrum romanzoffianum - Queen Palm	179.14	
32 93 43 00-1425	EA	12' To 14' Arecastrum romanzoffianum - Queen Palm	217.14	
32 93 43 00-1426	EA	14' To 16' Arecastrum romanzoffianum - Queen Palm	271.42	
32 93 43 00-1427	EA	4' To 5' Bauninia blakeana - Hong Kong Orchid	466.85	
32 93 43 00-1428	EA	6' Bauninia blakeana - Hong Kong Orchid	553.71	
32 93 43 00-1429	EA	8' Bauninia blakeana - Hong Kong Orchid	738.28	
32 93 43 00-1430	EA	10' Bauninia blakeana - Hong Kong Orchid	922.84	
32 93 43 00-1431	EA	6' Bauhinia purpurea - Purple Orchid Tree	586.28	
32 93 43 00-1432	EA	8' Bauhinia purpurea - Purple Orchid Tree	781.70	
32 93 43 00-1433	EA	10' Bauhinia purpurea - Purple Orchid Tree	977.13	
32 93 43 00-1434	EA	24" Box Bauhinia purpurea - Purple Orchid Tree	254.05	
32 93 43 00-1435	EA	6' Bauhinia variegata candida - White Orchid Tree	651.42	
32 93 43 00-1436	EA	8' Bauhinia variegata candida - White Orchid Tree	868.56	
32 93 43 00-1437	EA	10' Bauhinia variegata candida - White Orchid Tree	1,085.70	
32 93 43 00-1438	EA	6' Callistemon citrinus - Crimson or Lemon Bottle Brush	354.75	
32 93 43 00-1439	EA	8' Callistemon citrinus - Crimson or Lemon Bottle Brush	473.00	
32 93 43 00-1440	EA	10' Callistemon citrinus - Crimson or Lemon Bottle Brush	591.26	
32 93 43 00-1441	EA	6' Callistemon viminalis - Weeping Bottle Brush	354.75	
32 93 43 00-1442	EA	8' Callistemon viminalis - Weeping Bottle Brush	473.00	
32 93 43 00-1443	EA	10' Callistemon viminalis - Weeping Bottle Brush	591.26	
32 93 43 00-1444	EA	12' Callistemon viminalis - Weeping Bottle Brush	709.51	
32 93 43 00-1445	EA	3' To 4' Chamaedorea radicalis - Dwarf Bamboo Palm	228.00	
32 93 43 00-1446	EA	5' To 6' Chamaedorea radicalis - Dwarf Bamboo Palm	358.28	
32 93 43 00-1447	EA	3' To 4' Chamaerops humilis - European Fan Palm	195.43	
32 93 43 00-1448	EA	5' To 6' Chamaerops humilis - European Fan Palm	260.57	
32 93 43 00-1449	EA	7' To 8' Chamaerops humilis - European Fan Palm	607.99	
32 93 43 00-1450	EA	9' To 10' Chamaerops humilis - European Fan Palm	1,042.27	
32 93 43 00-1451	EA	6' To 7' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	152.00	
32 93 43 00-1452	EA	8' To 10' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	304.00	
32 93 43 00-1453	EA	10' To 12' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	390.85	
32 93 43 00-1454	EA	12' To 14' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	542.85	
32 93 43 00-1455	EA	12' To 16' Cocos nucifera - Coconut Palm	457.88	
32 93 43 00-1456	EA	6' Eriobotrya deflexa - Bronze Loquat	586.28	
32 93 43 00-1457	EA	8' Eriobotrya deflexa - Bronze Loquat	781.70	
32 93 43 00-1458	EA	10' Eriobotrya deflexa - Bronze Loquat	977.13	
32 93 43 00-1459	EA	6' Eucalyptus erythrocorys - Red Cap Gum	586.28	
32 93 43 00-1460	EA	8' Eucalyptus erythrocorys - Red Cap Gum	781.70	
32 93 43 00-1461	EA	10' Eucalyptus erythrocorys - Red Cap Gum	977.13	
32 93 43 00-1462	EA	6' Eucalyptus gunnii - Cider Gum	586.28	
32 93 43 00-1463	EA	8' Eucalyptus gunnii - Cider Gum	781.70	
32 93 43 00-1464	EA	10' Eucalyptus gunnii - Cider Gum	977.13	
32 93 43 00-1465	EA	6' Eucalyptus leucoxylon - White Ironbark	586.28	
32 93 43 00-1466	EA	8' Eucalyptus leucoxylon - White Ironbark	781.70	
32 93 43 00-1467	EA	10' Eucalyptus leucoxylon - White Ironbark	977.13	
32 93 43 00-1468	EA	12' Eucalyptus leucoxylon - White Ironbark	1,172.56	
32 93 43 00-1469	EA	6' Eucalyptus polyanthemos - Silver Dollar Gum	586.28	
32 93 43 00-1470	EA	8' Eucalyptus polyanthemos - Silver Dollar Gum	781.70	
32 93 43 00-1471	EA	10' Eucalyptus polyanthemos - Silver Dollar Gum	977.13	
32 93 43 00-1472	EA	6' Eucalyptus torquata - Coral Gum	586.28	
32 93 43 00-1473	EA	8' Eucalyptus torquata - Coral Gum	781.70	
32 93 43 00-1474	EA	10' Eucalyptus torquata - Coral Gum	977.13	
32 93 43 00-1475	EA	8' Fraxinus oxycarpa "Raywood" - Raywood Ash	367.89	
32 93 43 00-1476	EA	10' Fraxinus oxycarpa "Raywood" - Raywood Ash	499.28	
32 93 43 00-1477	EA	12' Fraxinus oxycarpa "Raywood" - Raywood Ash	617.53	
32 93 43 00-1478	EA	6' Jacarandra acutifolia - Jacaranda	586.28	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-1479	EA		8' Jacarandra acutifolia - Jacaranda	781.70	
32 93 43 00-1480	EA		10' Jacarandra acutifolia - Jacaranda	977.13	
32 93 43 00-1481	EA		24" Box Jacarandra acutifolia - Jacaranda	254.05	
32 93 43 00-1482	EA		6' Olea europaea - Olive "Fruitless"	433.76	
32 93 43 00-1483	EA		8' Olea europaea - Olive "Fruitless"	578.34	
32 93 43 00-1484	EA		10' Olea europaea - Olive "Fruitless"	722.92	
32 93 43 00-1485	EA		12' Olea europaea - Olive "Fruitless"	867.51	
32 93 43 00-1486	EA		24" Box Olea europaea - Olive "Fruitless"	533.36	
32 93 43 00-1487	EA		5 Gallon Pistacia chinensis - Chinese Pistache	39.09	
32 93 43 00-1488	EA		15 Gallon Pistacia chinensis - Chinese Pistache	130.28	
32 93 43 00-1489	EA		24" Box Pistacia chinensis - Chinese Pistache	505.94	
32 93 43 00-1490	EA		36" Box Pistacia chinensis - Chinese Pistache	1,346.27	
32 93 43 00-1491	EA		48" Box Pistacia chinensis - Chinese Pistache	2,866.25	
32 93 43 00-1492	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Single	24.44	
32 93 43 00-1493	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Single	81.46	
32 93 43 00-1494	EA		24" Box Pyrus kawakamii - Evergreen Pear, Single	306.14	
32 93 43 00-1495	EA		30" Box Pyrus kawakamii - Evergreen Pear, Single	559.72	
32 93 43 00-1496	EA		36" Box Pyrus kawakamii - Evergreen Pear, Single	814.62	
32 93 43 00-1497	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Multi	24.44	
32 93 43 00-1498	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Multi	86.72	
32 93 43 00-1499	EA		24" Box Pyrus kawakamii - Evergreen Pear, Multi	315.34	
32 93 43 00-1500	EA		30" Box Pyrus kawakamii - Evergreen Pear, Multi	559.72	
32 93 43 00-1501	EA		36" Box Pyrus kawakamii - Evergreen Pear, Multi	814.62	
32 93 43 00-1502	EA		4' To 5' Rhaps excelsa - Lady Palm	412.57	
32 93 43 00-1503	EA		6' To 7' Rhaps excelsa - Lady Palm	586.28	
32 93 43 00-1504	EA		8' To 9' Roystonea regia - Royal Palm	332.22	
32 93 43 00-1505	EA		10' To 11' Roystonea regia - Royal Palm	406.05	
32 93 43 00-1506	EA		12' To 13' Roystonea regia - Royal Palm	479.88	
32 93 43 00-1507	EA		14' To 15' Roystonea regia - Royal Palm	553.71	
32 93 43 00-1508	EA		16' To 17' Roystonea regia - Royal Palm	627.53	
32 93 43 00-1509	EA		18' To 19' Roystonea regia - Royal Palm	701.36	
32 93 43 00-1510	EA		20' To 21' Roystonea regia - Royal Palm	775.19	
32 93 43 00-1511	EA		10' To 16' Sabal palmetto - Cabbage Palm	167.90	
32 93 43 00-1512	EA		6' To 7' Thrinax morrisii - Key Thatch Palm	455.99	
32 93 43 00-1513	EA		8' To 9' Thrinax morrisii - Key Thatch Palm	586.28	
32 93 43 00-1514	EA		10' To 11' Thrinax morrisii - Key Thatch Palm	716.56	
32 93 43 00-1515	EA		9' Ptychosperma elegans - Alexander Palm, Solitaire Palm	162.86	
32 93 43 00-1516	EA		11' Ptychosperma elegans - Alexander Palm, Solitaire Palm	271.42	
32 93 43 00-1517	EA		15' Ptychosperma elegans - Alexander Palm, Solitaire Palm	412.57	
32 93 43 00-1518	EA		17' Ptychosperma elegans - Alexander Palm, Solitaire Palm	466.85	
32 93 43 00-1519	EA		20' Ptychosperma elegans - Alexander Palm, Solitaire Palm	542.85	
32 93 43 00-1520	EA		1 Gallon Washingtonia robusta - Mexican Fan Palm	9.54	
32 93 43 00-1521	EA		5 Gallon Washingtonia robusta - Mexican Fan Palm	29.68	
32 93 43 00-1522	EA		15 Gallon Washingtonia robusta - Mexican Fan Palm	103.88	
32 93 43 00-1523	EA		24" Box Washingtonia robusta - Mexican Fan Palm	339.22	
32 93 43 00-1524	EA		36" Box Washingtonia robusta - Mexican Fan Palm	901.04	
32 93 43 00-1525	EA		6' Washingtonia robusta - Mexican Fan Palm	586.28	
32 93 43 00-1526	EA		8' Washingtonia robusta - Mexican Fan Palm	781.70	
32 93 43 00-1527	EA		10' Washingtonia robusta - Mexican Fan Palm	977.13	
32 93 43 00-1528	EA		12' Washingtonia robusta - Mexican Fan Palm	1,172.56	
32 93 43 00-1529	EA		5 Gallon Phoenix roebelenii - Pygmy Date Palm	43.24	
32 93 43 00-1530	EA		7 Gallon Phoenix roebelenii - Pygmy Date Palm	105.39	
32 93 43 00-1531	EA		15 Gallon Phoenix roebelenii - Pygmy Date Palm	159.44	
32 93 43 00-1532	EA		24" Box Phoenix roebelenii - Pygmy Date Palm	472.92	

32 93 63 Specialty Plants (32 93)**32 93 63 00-0001 Specialty Plants In Place** (32 93 63)
Note: Includes plant and placement for trees.

32 93 63 00-0002	EA	5 Gallon Trees	185.41
32 93 63 00-0003	EA	7 Gallon Trees	223.93
32 93 63 00-0004	EA	15 Gallon Trees	448.05
32 93 63 00-0005	EA	24" Box Container Trees	787.64
32 93 63 00-0006	EA	36" Box Container Trees	2,423.47
32 93 63 00-0007	EA	48" Box Container Trees	5,012.17
32 93 63 00-0008	EA	60" Box Container Trees	8,244.55
32 93 63 00-0009	EA	72" Box Container Trees	13,755.96

32 93 83 Planting of Trees, Shrubs and Ground Cover (32 93)

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 83 00-0001 Planting Trees (32 93 83)

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0002	EA	3" To 5" Bare Root Seedlings Tree Planting	1.63
32 93 83 00-0003	EA	6" To 10" Bare Root Seedlings Tree Planting	2.62
32 93 83 00-0004	EA	11" To 16" Bare Root Seedlings Tree Planting	3.27
32 93 83 00-0005	EA	17" To 24" Bare Root Seedlings Tree Planting	5.24

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0006	EA		1 Gallon Container Tree Planting.....	26.16	
			For>10 To 25, Deduct	-1.31	
			For>25 To 50, Deduct	-3.27	
			For>50 To 100, Deduct	-5.23	
			For>100, Deduct	-7.85	
32 93 83 00-0007	EA		2 Gallon Container Tree Planting.....	36.62	
			For>10 To 25, Deduct	-1.83	
			For>25 To 50, Deduct	-4.58	
			For>50 To 100, Deduct	-7.32	
			For>100, Deduct	-10.99	
32 93 83 00-0008	EA		3 Gallon Container Tree Planting.....	47.08	
			For>10 To 25, Deduct	-2.35	
			For>25 To 50, Deduct	-5.89	
			For>50 To 100, Deduct	-9.42	
			For>100, Deduct	-14.12	
32 93 83 00-0009	EA		5 Gallon Container Tree Planting.....	78.47	
			For>10 To 25, Deduct	-3.92	
			For>25 To 50, Deduct	-9.81	
			For>50 To 100, Deduct	-15.69	
			For>100, Deduct	-23.54	
32 93 83 00-0010	EA		7 Gallon Container Tree Planting.....	104.62	
			For>10 To 25, Deduct	-5.23	
			For>25 To 50, Deduct	-13.08	
			For>50 To 100, Deduct	-20.92	
			For>100, Deduct	-31.39	
32 93 83 00-0011	EA		10 Gallon Container Tree Planting.....	136.01	
			For>10 To 25, Deduct	-6.80	
			For>25 To 50, Deduct	-17.00	
			For>50 To 100, Deduct	-27.20	
			For>100, Deduct	-40.80	
32 93 83 00-0012	EA		15 Gallon Container Tree Planting.....	193.55	
			For>10 To 25, Deduct	-9.68	
			For>25 To 50, Deduct	-24.19	
			For>50 To 100, Deduct	-38.71	
			For>100, Deduct	-58.07	
32 93 83 00-0013	EA		20 Gallon Container Tree Planting.....	319.11	
			For>10 To 25, Deduct	-15.96	
			For>25 To 50, Deduct	-39.89	
			For>50 To 100, Deduct	-63.82	
			For>100, Deduct	-95.73	
32 93 83 00-0014	EA		25 Gallon Container Tree Planting.....	413.26	
			For>10 To 25, Deduct	-20.66	
			For>25 To 50, Deduct	-51.66	
			For>50 To 100, Deduct	-82.65	
			For>100, Deduct	-123.98	
32 93 83 00-0015	EA		30 Gallon Container Tree Planting.....	496.96	
			For>10 To 25, Deduct	-24.85	
			For>25 To 50, Deduct	-62.12	
			For>50 To 100, Deduct	-99.39	
			For>100, Deduct	-149.09	
32 93 83 00-0016	EA		45 Gallon Container Tree Planting.....	617.29	
			For>10 To 25, Deduct	-30.86	
			For>25 To 50, Deduct	-77.16	
			For>50 To 100, Deduct	-123.46	
			For>100, Deduct	-185.19	
32 93 83 00-0017	EA		65 Gallon Container Tree Planting.....	732.37	
			For>10 To 25, Deduct	-36.62	
			For>25 To 50, Deduct	-91.55	
			For>50 To 100, Deduct	-146.47	
			For>100, Deduct	-219.71	
32 93 83 00-0018	EA		24" Box Container Tree Planting.....	136.01	
			For>10 To 25, Deduct	-6.80	
			For>25 To 50, Deduct	-17.00	
			For>50 To 100, Deduct	-27.20	
			For>100, Deduct	-40.80	
32 93 83 00-0019	EA		36" Box Container Tree Planting.....	413.26	
			For>10 To 25, Deduct	-20.66	
			For>25 To 50, Deduct	-51.66	
			For>50 To 100, Deduct	-82.65	
			For>100, Deduct	-123.98	
32 93 83 00-0020	EA		48" Box Container Tree Planting.....	732.37	
			For>10 To 25, Deduct	-36.62	
			For>25 To 50, Deduct	-91.55	
			For>50 To 100, Deduct	-146.47	
			For>100, Deduct	-219.71	
32 93 83 00-0021	EA		60" Box Container Tree Planting.....	868.38	
			For>10 To 25, Deduct	-43.42	
			For>25 To 50, Deduct	-108.55	
			For>50 To 100, Deduct	-173.68	
			For>100, Deduct	-260.51	
32 93 83 00-0022	EA		72" Box Container Tree Planting.....	1,046.25	
			For>10 To 25, Deduct	-52.31	
			For>25 To 50, Deduct	-130.78	
			For>50 To 100, Deduct	-209.25	
			For>100, Deduct	-313.88	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0023	EA	6'	Balled And Burlapped Tree Planting	261.56	
			For >10 To 25, Deduct	-13.08	
			For >25 To 50, Deduct	-32.70	
			For >50 To 100, Deduct	-52.31	
			For >100, Deduct	-78.47	
32 93 83 00-0024	EA	7'	Balled And Burlapped Tree Planting	348.40	
			For >10 To 25, Deduct	-17.42	
			For >25 To 50, Deduct	-43.55	
			For >50 To 100, Deduct	-69.68	
			For >100, Deduct	-104.52	
32 93 83 00-0025	EA	8'	Balled And Burlapped Tree Planting	392.34	
			For >10 To 25, Deduct	-19.62	
			For >25 To 50, Deduct	-49.04	
			For >50 To 100, Deduct	-78.47	
			For >100, Deduct	-117.70	
32 93 83 00-0026	EA	10'	Balled And Burlapped Tree Planting	457.74	
			For >10 To 25, Deduct	-22.89	
			For >25 To 50, Deduct	-57.22	
			For >50 To 100, Deduct	-91.55	
			For >100, Deduct	-137.32	
32 93 83 00-0027	EA	12'	Balled And Burlapped Tree Planting	612.05	
			For >10 To 25, Deduct	-30.60	
			For >25 To 50, Deduct	-76.51	
			For >50 To 100, Deduct	-122.41	
			For >100, Deduct	-183.62	
32 93 83 00-0028	EA	14'	Balled And Burlapped Tree Planting	700.99	
			For >10 To 25, Deduct	-35.05	
			For >25 To 50, Deduct	-87.62	
			For >50 To 100, Deduct	-140.20	
			For >100, Deduct	-210.30	
32 93 83 00-0029	EA	16'	Balled And Burlapped Tree Planting	850.08	
			For >10 To 25, Deduct	-42.50	
			For >25 To 50, Deduct	-106.26	
			For >50 To 100, Deduct	-170.02	
			For >100, Deduct	-255.02	
32 93 83 00-0030	EA	18'	Balled And Burlapped Tree Planting	1,020.09	
			For >10 To 25, Deduct	-51.00	
			For >25 To 50, Deduct	-127.51	
			For >50 To 100, Deduct	-204.02	
			For >100, Deduct	-306.03	
32 93 83 00-0031	EA	20'	Balled And Burlapped Tree Planting	1,177.03	
			For >10 To 25, Deduct	-58.85	
			For >25 To 50, Deduct	-147.13	
			For >50 To 100, Deduct	-235.41	
			For >100, Deduct	-353.11	
32 93 83 00-0032	EA	1-1/2"	Caliper Balled And Burlapped Tree Planting	392.34	
			For >10 To 25, Deduct	-19.62	
			For >25 To 50, Deduct	-49.04	
			For >50 To 100, Deduct	-78.47	
			For >100, Deduct	-117.70	
32 93 83 00-0033	EA	2"	Caliper Balled And Burlapped Tree Planting	457.74	
			For >10 To 25, Deduct	-22.89	
			For >25 To 50, Deduct	-57.22	
			For >50 To 100, Deduct	-91.55	
			For >100, Deduct	-137.32	
32 93 83 00-0034	EA	2-1/2"	Caliper Balled And Burlapped Tree Planting	614.67	
			For >10 To 25, Deduct	-30.73	
			For >25 To 50, Deduct	-76.83	
			For >50 To 100, Deduct	-122.93	
			For >100, Deduct	-184.40	
32 93 83 00-0035	EA	3"	Caliper Balled And Burlapped Tree Planting	706.21	
			For >10 To 25, Deduct	-35.31	
			For >25 To 50, Deduct	-88.28	
			For >50 To 100, Deduct	-141.24	
			For >100, Deduct	-211.86	
32 93 83 00-0036	EA	3-1/2"	Caliper Balled And Burlapped Tree Planting	784.69	
			For >10 To 25, Deduct	-39.23	
			For >25 To 50, Deduct	-98.09	
			For >50 To 100, Deduct	-156.94	
			For >100, Deduct	-235.41	
32 93 83 00-0037	EA	4"	Caliper Balled And Burlapped Tree Planting	899.76	
			For >10 To 25, Deduct	-44.99	
			For >25 To 50, Deduct	-112.47	
			For >50 To 100, Deduct	-179.95	
			For >100, Deduct	-269.93	
32 93 83 00-0038	Planting Shrubs (32 93 83)				
	Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.				
32 93 83 00-0039	EA	1 Gallon Container Shrub Planting	22.24		
			For >10 To 25, Deduct	-1.11	
			For >25 To 50, Deduct	-2.78	
			For >50 To 100, Deduct	-4.45	
			For >100, Deduct	-6.67	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0040	EA		2 Gallon Container Shrub Planting	31.38	
			For>10 To 25, Deduct	-1.57	
			For>25 To 50, Deduct	-3.92	
			For>50 To 100, Deduct	-6.28	
			For>100, Deduct	-9.41	
32 93 83 00-0041	EA		3 Gallon Container Shrub Planting	39.24	
			For>10 To 25, Deduct	-1.96	
			For>25 To 50, Deduct	-4.91	
			For>50 To 100, Deduct	-7.85	
			For>100, Deduct	-11.77	
32 93 83 00-0042	EA		4 Gallon Container Shrub Planting	52.32	
			For>10 To 25, Deduct	-2.62	
			For>25 To 50, Deduct	-6.54	
			For>50 To 100, Deduct	-10.46	
			For>100, Deduct	-15.70	
32 93 83 00-0043	EA		5 Gallon Container Shrub Planting	65.39	
			For>10 To 25, Deduct	-3.27	
			For>25 To 50, Deduct	-8.17	
			For>50 To 100, Deduct	-13.08	
			For>100, Deduct	-19.62	
32 93 83 00-0044	EA		7 Gallon Container Shrub Planting	88.93	
			For>10 To 25, Deduct	-4.45	
			For>25 To 50, Deduct	-11.12	
			For>50 To 100, Deduct	-17.79	
			For>100, Deduct	-26.68	
32 93 83 00-0045	EA		10 Gallon Container Shrub Planting	117.70	
			For>10 To 25, Deduct	-5.89	
			For>25 To 50, Deduct	-14.71	
			For>50 To 100, Deduct	-23.54	
			For>100, Deduct	-35.31	
32 93 83 00-0046	EA		15 Gallon Container Shrub Planting	162.17	
			For>10 To 25, Deduct	-8.11	
			For>25 To 50, Deduct	-20.27	
			For>50 To 100, Deduct	-32.43	
			For>100, Deduct	-48.65	
32 93 83 00-0047	EA		20 Gallon Container Shrub Planting	272.03	
			For>10 To 25, Deduct	-13.60	
			For>25 To 50, Deduct	-34.00	
			For>50 To 100, Deduct	-54.41	
			For>100, Deduct	-81.61	
32 93 83 00-0048	EA		25 Gallon Container Shrub Planting	348.40	
			For>10 To 25, Deduct	-17.42	
			For>25 To 50, Deduct	-43.55	
			For>50 To 100, Deduct	-69.68	
			For>100, Deduct	-104.52	
32 93 83 00-0049	EA		15" Balled And Burlapped Shrub Planting	73.24	
			For>10 To 25, Deduct	-3.66	
			For>25 To 50, Deduct	-9.16	
			For>50 To 100, Deduct	-14.65	
			For>100, Deduct	-21.97	
32 93 83 00-0050	EA		18" Balled And Burlapped Shrub Planting	75.85	
			For>10 To 25, Deduct	-3.79	
			For>25 To 50, Deduct	-9.48	
			For>50 To 100, Deduct	-15.17	
			For>100, Deduct	-22.76	
32 93 83 00-0051	EA		24" Balled And Burlapped Shrub Planting	83.70	
			For>10 To 25, Deduct	-4.19	
			For>25 To 50, Deduct	-10.46	
			For>50 To 100, Deduct	-16.74	
			For>100, Deduct	-25.11	
32 93 83 00-0052	EA		30" Balled And Burlapped Shrub Planting	83.70	
			For>10 To 25, Deduct	-4.19	
			For>25 To 50, Deduct	-10.46	
			For>50 To 100, Deduct	-16.74	
			For>100, Deduct	-25.11	
32 93 83 00-0053	EA		36" Balled And Burlapped Shrub Planting	91.55	
			For>10 To 25, Deduct	-4.58	
			For>25 To 50, Deduct	-11.44	
			For>50 To 100, Deduct	-18.31	
			For>100, Deduct	-27.47	
32 93 83 00-0054	EA		42" Balled And Burlapped Shrub Planting	96.78	
			For>10 To 25, Deduct	-4.84	
			For>25 To 50, Deduct	-12.10	
			For>50 To 100, Deduct	-19.36	
			For>100, Deduct	-29.03	
32 93 83 00-0055	EA		48" Balled And Burlapped Shrub Planting	104.62	
			For>10 To 25, Deduct	-5.23	
			For>25 To 50, Deduct	-13.08	
			For>50 To 100, Deduct	-20.92	
			For>100, Deduct	-31.39	
32 93 83 00-0056	EA		5' Balled And Burlapped Shrub Planting	156.93	
			For>10 To 25, Deduct	-7.85	
			For>25 To 50, Deduct	-19.62	
			For>50 To 100, Deduct	-31.39	
			For>100, Deduct	-47.08	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0057	EA	6'	Balled And Burlapped Shrub Planting.....	222.33	
			For >10 To 25, Deduct	-11.12	
			For >25 To 50, Deduct	-27.79	
			For >50 To 100, Deduct	-44.47	
			For >100, Deduct	-66.70	
32 93 83 00-0058	EA	7'	Balled And Burlapped Shrub Planting.....	295.57	
			For >10 To 25, Deduct	-14.78	
			For >25 To 50, Deduct	-36.95	
			For >50 To 100, Deduct	-59.11	
			For >100, Deduct	-88.67	
32 93 83 00-0059	EA	8'	Balled And Burlapped Shrub Planting.....	334.80	
			For >10 To 25, Deduct	-16.74	
			For >25 To 50, Deduct	-41.85	
			For >50 To 100, Deduct	-66.96	
			For >100, Deduct	-100.44	
32 93 83 00-0060	EA	9'	Balled And Burlapped Shrub Planting.....	360.96	
			For >10 To 25, Deduct	-18.05	
			For >25 To 50, Deduct	-45.12	
			For >50 To 100, Deduct	-72.19	
			For >100, Deduct	-108.29	
32 93 83 00-0061	EA	10'	Balled And Burlapped Shrub Planting.....	392.34	
			For >10 To 25, Deduct	-19.62	
			For >25 To 50, Deduct	-49.04	
			For >50 To 100, Deduct	-78.47	
			For >100, Deduct	-117.70	
32 93 83 00-0062	Planting Groundcover, Vines, Perennials, Annuals And Bulbs (32 93 83) See CSI section 32 91 13 16-0001 for mulch.				
32 93 83 00-0063	EA	2-1/4"	Diameter Potted Groundcover And Flower Planting.....	2.18	
			For >10 To 25, Deduct	-0.11	
			For >25 To 50, Deduct	-0.27	
			For >50 To 100, Deduct	-0.44	
			For >100, Deduct	-0.65	
32 93 83 00-0064	EA	3"	Diameter Potted Groundcover And Flower Planting.....	2.49	
			For >10 To 25, Deduct	-0.12	
			For >25 To 50, Deduct	-0.31	
			For >50 To 100, Deduct	-0.50	
			For >100, Deduct	-0.75	
32 93 83 00-0065	EA	4"	Diameter Potted Groundcover And Flower Planting.....	2.91	
			For >10 To 25, Deduct	-0.15	
			For >25 To 50, Deduct	-0.36	
			For >50 To 100, Deduct	-0.58	
			For >100, Deduct	-0.87	
32 93 83 00-0066	EA	5-1/2"	Diameter Potted Groundcover And Flower Planting.....	3.49	
			For >10 To 25, Deduct	-0.17	
			For >25 To 50, Deduct	-0.44	
			For >50 To 100, Deduct	-0.70	
			For >100, Deduct	-1.05	
32 93 83 00-0067	EA	6"	Diameter Potted Groundcover And Flower Planting.....	4.36	
			For >10 To 25, Deduct	-0.22	
			For >25 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-0.87	
			For >100, Deduct	-1.31	
32 93 83 00-0068	EA	8"	Diameter Potted Groundcover And Flower Planting.....	6.54	
			For >10 To 25, Deduct	-0.33	
			For >25 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.31	
			For >100, Deduct	-1.96	
32 93 83 00-0069	EA	1 Gallon Container	Groundcover And Flower Planting.....	20.92	
			For >10 To 25, Deduct	-1.05	
			For >25 To 50, Deduct	-2.62	
			For >50 To 100, Deduct	-4.18	
			For >100, Deduct	-6.28	
32 93 83 00-0070	EA	2 Gallon Container	Groundcover And Flower Planting.....	28.78	
			For >10 To 25, Deduct	-1.44	
			For >25 To 50, Deduct	-3.60	
			For >50 To 100, Deduct	-5.76	
			For >100, Deduct	-8.63	
32 93 83 00-0071	EA	3 Gallon Container	Groundcover And Flower Planting.....	36.62	
			For >10 To 25, Deduct	-1.83	
			For >25 To 50, Deduct	-4.58	
			For >50 To 100, Deduct	-7.32	
			For >100, Deduct	-10.99	
32 93 83 00-0072	EA	4 Gallon Container	Groundcover And Flower Planting.....	47.08	
			For >10 To 25, Deduct	-2.35	
			For >25 To 50, Deduct	-5.89	
			For >50 To 100, Deduct	-9.42	
			For >100, Deduct	-14.12	
32 93 83 00-0073	EA	5 Gallon Container	Groundcover And Flower Planting.....	57.54	
			For >10 To 25, Deduct	-2.88	
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-11.51	
			For >100, Deduct	-17.26	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0074 EA 7 Gallon Container Groundcover And Flower Planting	78.47	
For >10 To 25, Deduct	-3.92	
For >25 To 50, Deduct	-9.81	
For >50 To 100, Deduct	-15.69	
For >100, Deduct	-23.54	
32 93 83 00-0075 EA Bulb Planting.....	1.30	
For >10 To 25, Deduct	-0.07	
For >25 To 50, Deduct	-0.16	
For >50 To 100, Deduct	-0.26	
For >100, Deduct	-0.39	
32 93 83 00-0076 EA Flats Of 24 Groundcover And Flower Planting.....	36.62	
For >10 To 25, Deduct	-1.83	
For >25, Deduct	-4.58	
32 93 83 00-0077 EA Flats Of 36 Groundcover And Flower Planting.....	51.94	
For >10 To 25, Deduct	-2.60	
For >25, Deduct	-6.49	
32 93 83 00-0078 EA Flats Of 48 Groundcover And Flower Planting.....	69.15	
For >10 To 25, Deduct	-3.46	
For >25, Deduct	-8.64	

32 93 83 00-0079**Tree Pits** (32 93 83)

Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch.

32 93 83 00-0080 EA 2' x 1-1/4' Deep Tree Pit	132.16	
32 93 83 00-0081 EA 2' x 2-1/2' Deep Tree Pit	198.18	
32 93 83 00-0082 EA 2-1/2' x 1-1/2' Deep Tree Pit	256.59	
32 93 83 00-0083 EA 2-1/2' x 3' Deep Tree Pit	384.81	
32 93 83 00-0084 EA 3' x 1-3/4' Deep Tree Pit	394.96	
32 93 83 00-0085 EA 3' x 3-1/2' Deep Tree Pit	589.24	
32 93 83 00-0086 EA 3-1/2' x 1-3/4' Deep Tree Pit	483.35	
32 93 83 00-0087 EA 3-1/2' x 3-1/2' Deep Tree Pit	723.96	
32 93 83 00-0088 EA 4' x 2' Deep Tree Pit.....	577.49	
32 93 83 00-0089 EA 4' x 4' Deep Tree Pit.....	865.73	
32 93 83 00-0090 EA 4-1/2' x 2' Deep Tree Pit	830.22	
32 93 83 00-0091 EA 4-1/2' x 4' Deep Tree Pit	1,247.90	
32 93 83 00-0092 EA 5' x 2-1/4' Deep Tree Pit	1,104.31	
32 93 83 00-0093 EA 5' x 4-1/2' Deep Tree Pit	1,644.26	
32 93 83 00-0094 EA 6' x 2-1/2' Deep Tree Pit	1,566.17	
32 93 83 00-0095 EA 6' x 5' Deep Tree Pit.....	2,345.60	
32 93 83 00-0096 EA 7' x 3' Deep Tree Pit.....	2,637.73	
32 93 83 00-0097 EA 7' x 6' Deep Tree Pit.....	3,978.82	
32 93 83 00-0098 EA 8' x 3-1/4' Deep Tree Pit	3,624.03	
32 93 83 00-0099 EA 8' x 6-1/2' Deep Tree Pit	5,433.61	

32 94 Planting Accessories (32 90)**32 94 13 Landscape Edging** (32 94)

Note: Including stakes.

32 94 13 00-0001 Landscape Edging (32 94 13)

Note: Includes stakes.

32 94 13 00-0002 LF 6" Poly/Vinyl Landscape Edging With Non-Round Top.....	6.49	1.33
For >2,000 To 5,000 LF, Deduct	-0.38	
For >5,000 LF, Deduct	-0.76	
32 94 13 00-0003 LF 5" Polyethylene Landscape Edging With Round Top.....	3.87	1.33
For >2,000 To 5,000 LF, Deduct	-0.12	
For >5,000 LF, Deduct	-0.24	
32 94 13 00-0004 LF 5-1/2" Polyethylene Landscape Edging With Round Top	3.93	1.33
For >2,000 To 5,000 LF, Deduct	-0.13	
For >5,000 LF, Deduct	-0.25	
32 94 13 00-0005 LF 5" Polyethylene Landscape Edging With Corrugated Sides And Round Top	3.97	1.33
For >2,000 To 5,000 LF, Deduct	-0.13	
For >5,000 LF, Deduct	-0.26	
32 94 13 00-0006 LF 1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	11.19	3.17
For >1,000 LF, Deduct	-1.22	
32 94 13 00-0007 LF 1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	12.20	3.17
For >1,000 LF, Deduct	-1.47	
32 94 13 00-0008 LF 1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	12.27	3.17
For >1,000 LF, Deduct	-1.49	
32 94 13 00-0009 LF 3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	14.04	3.27
For >1,000 LF, Deduct	-1.89	
32 94 13 00-0010 LF 3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	15.28	3.27
For >1,000 LF, Deduct	-2.20	
32 94 13 00-0011 LF 3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	15.26	3.27
For >1,000 LF, Deduct	-2.19	
32 94 13 00-0012 LF 1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	12.55	3.38
For >1,000 LF, Deduct	-1.47	
32 94 13 00-0013 LF 1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	13.93	3.38
For >1,000 LF, Deduct	-1.82	



Exterior Improvements			32
Planting			32 90
Planting Accessories			32 94

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 13 00-0014	LF	1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging		14.07	3.38
		For >1,000 LF, Deduct	.....	-1.85	
32 94 13 00-0015	LF	3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	.....	15.79	3.48
		For >1,000 LF, Deduct	.....	-2.24	
32 94 13 00-0016	LF	3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	.....	17.17	3.48
		For >1,000 LF, Deduct	.....	-2.58	
32 94 13 00-0017	LF	3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	.....	17.29	3.48
		For >1,000 LF, Deduct	.....	-2.61	
32 94 13 00-0018	LF	1/8" x 4" Powder Coated Steel Landscape Edging	.....	11.91	3.27
		For >1,000 LF, Deduct	.....	-1.34	
32 94 13 00-0019	LF	3/16" x 4" Powder Coated Steel Landscape Edging	.....	13.94	3.27
		For >1,000 LF, Deduct	.....	-1.85	
32 94 13 00-0020	LF	1/4" x 5" Powder Coated Steel Landscape Edging	.....	19.40	3.27
		For >1,000 LF, Deduct	.....	-3.21	
32 94 13 00-0021	LF	1/2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)	.....	8.99	3.17
		For >1,000 LF, Deduct	.....	-0.67	
32 94 13 00-0022	LF	1" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)	.....	10.20	3.17
		For >1,000 LF, Deduct	.....	-0.97	
32 94 13 00-0023	LF	1" x 6", Recycled Plastic Landscape Edging (Bend-A-Board)	.....	11.27	3.17
		For >1,000 LF, Deduct	.....	-1.24	
32 94 13 00-0024	LF	2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)	.....	11.49	3.17
		For >1,000 LF, Deduct	.....	-1.29	
32 94 13 00-0025		Concrete Band, Cast In Place	(32 94 13)		
		Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.			
32 94 13 00-0026	LF	6" x 4" Concrete Band	.....	18.64	9.52
		Note: Excludes base course.			
		For Up To 20, Add	.....	11.19	
		For >20 To 50, Add	.....	6.34	
		For >50 To 100, Add	.....	2.43	
		For >500 To 1,000, Deduct	.....	-2.43	
		For >1,000, Deduct	.....	-4.10	
32 94 13 00-0027	LF	6" x 6" Concrete Band	.....	22.08	11.20
		Note: Excludes base course.			
		For Up To 20, Add	.....	13.37	
		For >20 To 50, Add	.....	7.58	
		For >50 To 100, Add	.....	2.90	
		For >500 To 1,000, Deduct	.....	-2.90	
		For >1,000, Deduct	.....	-4.89	
32 94 13 00-0028	LF	8" x 6" Concrete Band	.....	25.34	128.77
		Note: Excludes base course.			
		For Up To 20, Add	.....	15.43	
		For >20 To 50, Add	.....	8.75	
		For >50 To 100, Add	.....	3.34	
		For >500 To 1,000, Deduct	.....	-3.34	
		For >1,000, Deduct	.....	-5.64	
32 94 13 00-0029	LF	10" x 6" Concrete Band	.....	28.02	139.97
		Note: Excludes base course.			
		For Up To 20, Add	.....	17.08	
		For >20 To 50, Add	.....	9.69	
		For >50 To 100, Add	.....	3.70	
		For >500 To 1,000, Deduct	.....	-3.70	
		For >1,000, Deduct	.....	-6.24	
32 94 13 00-0030	LF	12" x 6" Concrete Band	.....	29.04	14.56
		Note: Excludes base course.			
		For Up To 20, Add	.....	17.56	
		For >20 To 50, Add	.....	9.96	
		For >50 To 100, Add	.....	3.80	
		For >500 To 1,000, Deduct	.....	-3.80	
		For >1,000, Deduct	.....	-6.43	
32 94 16		Landscape Timbers	(32 94)		
32 94 16 00-0001	LF	1" x 4" Redwood Edging	.....	5.64	1.86
32 94 16 00-0002	LF	2" x 4" Redwood Edging	.....	7.72	2.80
32 94 16 00-0003	LF	3" x 4" Pressure Treated Landscape Timber	.....	6.16	2.80
		Note: 2 rounded edges and 2 straight edges.			
32 94 16 00-0004	LF	3" x 5" Pressure Treated Landscape Timber	.....	8.05	3.60
		Note: 2 rounded edges and 2 straight edges.			
32 94 16 00-0005	LF	4" x 6" Pressure Treated Hardwood	.....	10.92	3.72
32 94 16 00-0006	LF	6" x 6" Pressure Treated Hardwood	.....	14.26	4.66
32 94 16 00-0007	LF	6" x 8" Pressure Treated Hardwood	.....	16.62	5.48
32 94 16 00-0008	LF	1" x 4" Pressure Treated Pine	.....	4.32	1.86
32 94 16 00-0009	LF	2" x 4" Pressure Treated Pine	.....	6.54	2.80
32 94 16 00-0010	LF	4" x 6" Pressure Treated Pine	.....	10.39	3.60
32 94 16 00-0011	LF	6" x 6" Pressure Treated Pine	.....	14.14	4.66
32 94 16 00-0012	LF	6" x 8" Pressure Treated Pine	.....	17.31	5.48
32 94 16 00-0013	LF	6" x 8" Railroad Ties	.....	15.90	5.09
32 94 16 00-0014	LF	7" x 9" Railroad Ties	.....	19.12	6.40
32 94 23		Plant Protection	(32 94)		
32 94 23 00-0001	SF	Tree Trunk Protection - Hardware Cloth 1/4" Mesh, 23 Gauge	.....	2.90	

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 Tree Grates (32 94)				
32 94 43 00-0001 Tree Grates With Frames (32 94 43)				
32 94 43 00-0002 Round Cast Iron Tree Grates With Frames (32 94 43 00-0001)				
32 94 43 00-0003	EA	32" Diameter, 100 To 150 Lb., Cast Iron Tree Gate With Frame.....	1,114.93	66.83
		For >3 To 9, Deduct	-73.59	
		For >9, Deduct	-152.10	
32 94 43 00-0004	EA	36" Diameter, 125 To 175 Lb., Cast Iron Tree Gate With Frame.....	1,293.34	66.83
		For >3 To 9, Deduct	-86.98	
		For >9, Deduct	-179.75	
32 94 43 00-0005	EA	42" Diameter, 150 To 200 Lb., Cast Iron Tree Gate With Frame.....	1,560.90	89.11
		For >3 To 9, Deduct	-103.70	
		For >9, Deduct	-214.32	
32 94 43 00-0006	EA	48" Diameter, 200 To 250 Lb., Cast Iron Tree Gate With Frame.....	1,949.21	89.11
		For >3 To 9, Deduct	-132.83	
		For >9, Deduct	-274.51	
32 94 43 00-0007	EA	54" Diameter, 300 To 350 Lb., Cast Iron Tree Gate With Frame.....	2,500.13	111.39
		For >3 To 9, Deduct	-170.80	
		For >9, Deduct	-352.99	
32 94 43 00-0008	EA	60" Diameter, Up To 350 Lb., Cast Iron Tree Gate With Frame.....	2,618.14	133.66
		For >3 To 9, Deduct	-176.31	
		For >9, Deduct	-364.38	
32 94 43 00-0009	EA	60" Diameter, >350 Lb., Cast Iron Tree Gate With Frame.....	2,888.38	133.66
		For >3 To 9, Deduct	-196.58	
		For >9, Deduct	-406.27	
32 94 43 00-0010	EA	72" Diameter, Up To 550 Lb., Cast Iron Tree Gate With Frame.....	3,841.97	189.35
		For >3 To 9, Deduct	-259.75	
		For >9, Deduct	-536.81	
32 94 43 00-0011	EA	72" Diameter, >500 To 550 Lb., Cast Iron Tree Gate With Frame.....	3,999.40	189.35
		For >3 To 9, Deduct	-271.55	
		For >9, Deduct	-561.21	
32 94 43 00-0012	EA	72" Diameter, >600 To 650 Lb., Cast Iron Tree Gate With Frame.....	4,130.58	189.35
		For >3 To 9, Deduct	-281.39	
		For >9, Deduct	-581.54	
32 94 43 00-0013	EA	72" Diameter, >650 To 700 Lb., Cast Iron Tree Gate With Frame.....	4,235.53	189.35
		For >3 To 9, Deduct	-289.26	
		For >9, Deduct	-597.81	
32 94 43 00-0014	EA	72" Diameter, >700 Lb., Cast Iron Tree Gate With Frame.....	4,314.24	189.35
		For >3 To 9, Deduct	-295.17	
		For >9, Deduct	-610.01	
32 94 43 00-0015	EA	93" Diameter, 950 To 1,000 Lb., Cast Iron Tree Gate With Frame.....	4,727.41	222.76
		For >3 To 9, Deduct	-321.14	
		For >9, Deduct	-663.69	
32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)				
32 94 43 00-0017	EA	30" x 30", 75 To 125 Lb., Cast Iron Tree Gate With Frame.....	1,025.72	66.83
		For >3 To 9, Deduct	-66.90	
		For >9, Deduct	-138.27	
32 94 43 00-0018	EA	36" x 36", 100 To 150 Lb., Cast Iron Tree Gate With Frame.....	1,248.73	66.83
		For >3 To 9, Deduct	-83.63	
		For >9, Deduct	-172.84	
32 94 43 00-0019	EA	48" x 48", Up To 200 Lb., Cast Iron Tree Gate With Frame.....	1,849.45	111.39
		For >3 To 9, Deduct	-122.00	
		For >9, Deduct	-252.14	
32 94 43 00-0020	EA	48" x 48", >200 To 250 Lb., Cast Iron Tree Gate With Frame.....	2,190.54	111.39
		For >3 To 9, Deduct	-147.58	
		For >9, Deduct	-305.01	
32 94 43 00-0021	EA	48" x 48", >250 To 300 Lb., Cast Iron Tree Gate With Frame.....	2,505.38	111.39
		For >3 To 9, Deduct	-171.20	
		For >9, Deduct	-353.81	
32 94 43 00-0022	EA	48" x 48", >300 To 350 Lb., Cast Iron Tree Gate With Frame.....	2,793.99	111.39
		For >3 To 9, Deduct	-192.84	
		For >9, Deduct	-398.54	
32 94 43 00-0023	EA	48" x 48", >350 To 400 Lb., Cast Iron Tree Gate With Frame.....	3,056.36	111.39
		For >3 To 9, Deduct	-212.52	
		For >9, Deduct	-439.21	
32 94 43 00-0024	EA	48" x 48", >400 Lb., Cast Iron Tree Gate With Frame.....	3,292.49	111.39
		For >3 To 9, Deduct	-230.23	
		For >9, Deduct	-475.81	
32 94 43 00-0025	EA	60" x 60", Up To 400 Lb., Cast Iron Tree Gate With Frame.....	3,145.47	155.93
		For >3 To 9, Deduct	-212.52	
		For >9, Deduct	-439.21	
32 94 43 00-0026	EA	60" x 60", >400 To 450 Lb., Cast Iron Tree Gate With Frame.....	3,381.60	155.93
		For >3 To 9, Deduct	-230.23	
		For >9, Deduct	-475.81	
32 94 43 00-0027	EA	60" x 60", >450 To 500 Lb., Cast Iron Tree Gate With Frame.....	3,591.49	155.93
		For >3 To 9, Deduct	-245.97	
		For >9, Deduct	-508.34	
32 94 43 00-0028	EA	60" x 60", >500 To 550 Lb., Cast Iron Tree Gate With Frame.....	3,775.15	155.93
		For >3 To 9, Deduct	-259.75	
		For >9, Deduct	-536.81	



Exterior Improvements			32
Planting			32 90
Planting Accessories			32 94

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0029	EA		60" x 60", >550 To 600 Lb., Cast Iron Tree Grate With Frame	3,932.58	155.93
			For >3 To 9, Deduct	-271.55	
			For >9, Deduct	-561.21	
32 94 43 00-0030	EA		60" x 60", >600 Lb., Cast Iron Tree Grate With Frame	4,063.76	155.93
			For >3 To 9, Deduct	-281.39	
			For >9, Deduct	-581.54	
32 94 43 00-0031	EA		72" x 72", Up To 550 Lb., Cast Iron Tree Grate With Frame.....	3,841.97	189.35
			For >3 To 9, Deduct	-259.75	
			For >9, Deduct	-536.81	
32 94 43 00-0032	EA		72" x 72", >550 To 600 Lb., Cast Iron Tree Grate With Frame	3,999.40	189.35
			For >3 To 9, Deduct	-271.55	
			For >9, Deduct	-561.21	
32 94 43 00-0033	EA		72" x 72", >600 To 650 Lb., Cast Iron Tree Grate With Frame	4,130.58	189.35
			For >3 To 9, Deduct	-281.39	
			For >9, Deduct	-581.54	
32 94 43 00-0034	EA		72" x 72", >650 To 700 Lb., Cast Iron Tree Grate With Frame	4,235.53	189.35
			For >3 To 9, Deduct	-289.26	
			For >9, Deduct	-597.81	
32 94 43 00-0035	EA		72" x 72", >700 To 750 Lb., Cast Iron Tree Grate With Frame	4,314.24	189.35
			For >3 To 9, Deduct	-295.17	
			For >9, Deduct	-610.01	
32 94 43 00-0036	EA		72" x 72", >750 To 800 Lb., Cast Iron Tree Grate With Frame	4,366.71	189.35
			For >3 To 9, Deduct	-299.10	
			For >9, Deduct	-618.14	
32 94 43 00-0037	EA		72" x 72", >800 To 850 Lb., Cast Iron Tree Grate With Frame	4,392.95	189.35
			For >3 To 9, Deduct	-301.07	
			For >9, Deduct	-622.21	
32 94 43 00-0038	EA		72" x 72", >850 Lb., Cast Iron Tree Grate With Frame	4,419.19	189.35
			For >3 To 9, Deduct	-303.04	
			For >9, Deduct	-626.28	
32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)					
32 94 43 00-0040	EA		36" x 48", 200 To 250 Lb., Cast Iron Tree Grate With Frame	1,949.21	89.11
			For >3 To 9, Deduct	-132.83	
			For >9, Deduct	-274.51	
32 94 43 00-0041	EA		36" x 60", 200 To 250 Lb., Cast Iron Tree Grate With Frame	1,988.56	89.11
			For >3 To 9, Deduct	-135.78	
			For >9, Deduct	-280.60	
32 94 43 00-0042	EA		36" x 72", 275 To 325 Lb., Cast Iron Tree Grate With Frame	2,429.29	111.39
			For >3 To 9, Deduct	-165.49	
			For >9, Deduct	-342.01	
32 94 43 00-0043	EA		48" x 72", Up To 350 Lb., Cast Iron Tree Grate With Frame.....	2,867.45	111.39
			For >3 To 9, Deduct	-198.35	
			For >9, Deduct	-409.93	
32 94 43 00-0044	EA		48" x 72", >350 Lb., Cast Iron Tree Grate With Frame	3,056.36	111.39
			For >3 To 9, Deduct	-212.52	
			For >9, Deduct	-439.21	
32 94 43 00-0045	EA		60" x 84", 700 To 750 Lb., Cast Iron Tree Grate With Frame	4,078.11	189.35
			For >3 To 9, Deduct	-277.46	
			For >9, Deduct	-573.41	
32 94 46 Tree Grids (32 94)					
32 94 46 00-0001 Tree Wells (32 94 46)					
32 94 46 00-0002	EA		Type 1, Case 1 Tree Well, 4'-1" x 4'-1" x 3" Permeable Concrete Cover.....	1,019.87	111.39
			Note: Includes saw cutting, concrete removal, excavation, 3" permeable concrete tree well cover, premolded joint filler, drywell pipes and 3" layer of crushed rock. Excludes tree, soil, tree planting, and water.		
32 94 46 00-0003	EA		Type 1, Case 2 Tree Well, 2'-11" x 5'-6" x 3" Permeable Concrete Cover.....	992.60	89.11
			Note: Includes saw cutting, concrete removal, excavation, 3" permeable concrete tree well cover, premolded joint filler, drywell pipes and 3" layer of crushed rock. Excludes tree, soil, tree planting, and water.		
32 94 46 00-0004	EA		Type 2, Case 1 Tree Well, 4'-1" x 4'-1" x 3" "Manhole" Brick Cover	1,227.69	111.39
			Note: Includes saw cutting, concrete removal, excavation, manhole brick tree well cover, premolded joint filler, redwood header, drywell pipes and 3" layer of crushed rock. Excludes tree, soil, tree planting, and water.		
32 94 46 00-0005	EA		Type 2, Case 2 Tree Well, 2'-11" x 5'-6" x 3" "Manhole" Brick Cover	1,197.26	89.11
			Note: Includes saw cutting, concrete removal, excavation, manhole brick tree well cover, premolded joint filler, redwood header, drywell pipes and 3" layer of crushed rock. Excludes tree, soil, tree planting, and water.		
32 94 46 00-0006	EA		Type 3, Case 1 Tree Well, 4'-1" x 4'-1" x 3" Hollow Concrete Block Cover.....	1,093.21	111.39
			Note: Includes saw cutting, concrete removal, excavation, hollow concrete block tree well cover, premolded joint filler, redwood header, drywell pipes and 3" layer of crushed rock. Excludes tree, soil, tree planting, and water.		
32 94 46 00-0007	EA		Type 3, Tree Well, 3' x 18" Precast Permeable Concrete.....	219.76	
			Note: Includes saw cutting, concrete removal, and precast permeable concrete tree well cover. Excludes excavation, tree, soil, tree planting, and water.		
32 94 46 00-0008	EA		Type 3, Tree Well, 4' x 24" Precast Permeable Concrete.....	332.27	
			Note: Includes saw cutting, concrete removal, and precast permeable concrete tree well cover. Excludes excavation, tree, soil, tree planting, and water.		
32 94 46 00-0009	EA		Type 3, Tree Well, 3' x 3' Precast Permeable Concrete	409.42	
			Note: Includes saw cutting, concrete removal, and precast permeable concrete tree well cover. Excludes excavation, tree, soil, tree planting, and water.		
32 94 46 00-0010	EA		Type 3, Tree Well, 4' x 4' Precast Permeable Concrete	617.03	
			Note: Includes saw cutting, concrete removal, and precast permeable concrete tree well cover. Excludes excavation, tree, soil, tree planting, and water.		

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 94 46 00-0011 EA Type 4 Tree Well, 5' x 5' Cast Iron Grate With Frame.....4,418.67
Note: Includes saw cutting, concrete removal, excavation, cast iron grate with frame, drywell pipes and 3" layer of crushed rock. Excludes tree, soil, tree planting, and water.

32 94 49 Plant and Tree Accessories (32 94)

32 94 49 00-0001 Tree Guying (32 94 49)

32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001)

Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.

32 94 49 00-0003 EA Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap 27.92
32 94 49 00-0004 EA Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap 50.19
32 94 49 00-0005 EA Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap 86.27

32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001)

Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.

32 94 49 00-0007 EA Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope 116.54
32 94 49 00-0008 EA Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope 157.10
32 94 49 00-0009 EA Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope 200.72
32 94 49 00-0010 EA Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope 260.05

32 94 49 00-0011 Tree Wrap (32 94 49)

32 94 49 00-0012 EA Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree 7.91
32 94 49 00-0013 EA Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree 13.14
32 94 49 00-0014 EA Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree 26.04
32 94 49 00-0015 EA Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree 40.27

32 94 49 00-0016 Tree Guards (32 94 49)

32 94 49 00-0017 EA 3' Preformed Plastic Tree Guard.....12.88
32 94 49 00-0018 EA 2' Preformed Plastic Tree Guard.....11.90

32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49)

Note: When no design available.

32 94 49 00-0020 EA Stake Out Trees Or Shrubs 8.26

32 94 49 00-0021 Root Barriers (32 94 49)

32 94 49 00-0022 EA 12" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....13.74
32 94 49 00-0023 EA 18" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....19.44
32 94 49 00-0024 EA 24" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....22.95
32 94 49 00-0025 EA 36" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....42.94
32 94 49 00-0026 EA 48" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....59.29

32 94 49 00-0027 Silva Cells (32 94 49)

Note: Excludes excavation, earthwork, crushed aggregate base, backfill, compaction, planting soil, tree and mulch. See CSI section 31 23 16 36-0001 for excavation, 31 23 16 36-0016 for backfill, 31 23 16 36-0020 for compaction, 32 11 16 16-0000 for crushed aggregate base, 32 91 13 16-0001 for mulch, 32 91 19 13-0010 for planting soil.

32 94 49 00-0028 EA 48" x 24" x 30.9" High Silva Cell 2 - 2x System (DeepRoot SC2-2X) 413.69
Note: Includes one SC2 base, one SC2 deck and six 2X posts.
32 94 49 00-0029 EA 10" Long x 19/64" Diameter Galvanized Timber Spikes (DeepRoot SC Spike) 3.24
32 94 49 00-0030 EA 25" Long Cable/Zip Ties (DeepRoot SC2-Cable ties) 0.99
32 94 49 00-0031 SF Bi/Uniaxial GeoGrid, Miragrid 2XT/ SG150 (DeepRoot SC2-GG 12-150).....0.76
32 94 49 00-0032 SF Woven PP Geotextile Fabric (DeepRoot GT-570) 0.84
32 94 49 00-0033 EA Strong Back, Silva Cell 2 (DeepRoot SC2-SB) 119.31
32 94 49 00-0034 LF 18" x 2' Universal Tree Root Guide (DeepRoot UB 18-2) 13.72

32 96 Transplanting (32 90)

See CSI section 32 94 49 00-0001 for guying.

32 96 33 Shrub Transplanting (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 33 00-0001 Moving Shrubs On Site, Relocate (32 96 33)

Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.

32 96 33 00-0002 EA Up To 18" Root Ball, Move Shrubs On Site 89.30
For >25 To 50, Deduct-8.93
For >50, Deduct-13.40
32 96 33 00-0003 EA >18" To 24" Root Ball, Move Shrubs On Site.....120.82
For >25 To 50, Deduct-12.08
For >50, Deduct-18.12
32 96 33 00-0004 EA >24" To 30" Root Ball, Move Shrubs On Site.....204.86
For >25 To 50, Deduct-20.49
For >50, Deduct-30.73



Exterior Improvements		32	32
Planting		32 90	
Transplanting		32 96	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 96 33 00-0005	EA		>30" To 36" Root Ball, Move Shrubs On Site	315.17	
			For >25 To 50, Deduct	-31.52	
			For >50, Deduct	-47.28	
32 96 43 Tree Transplanting (32 96)					
Note: Includes digging up, moving on site, digging new hole and replanting.					
32 96 43 00-0001 Moving Trees On Site, Relocate (32 96 43)					
Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-1038 for crane lifting equipment, 32 94 49 00-0001 for guying.					
32 96 43 00-0002	EA		Up To 24" Root Ball, Move Trees On Site	334.28	
			For >5 To 10, Deduct	-16.71	
			For >10 To 20, Deduct	-33.43	
			For >20, Deduct	-50.14	
32 96 43 00-0003	EA		>24" To 30" Root Ball, Move Trees On Site.....	458.44	
			For >5 To 10, Deduct	-22.92	
			For >10 To 20, Deduct	-45.84	
			For >20, Deduct	-68.77	
32 96 43 00-0004	EA		>30" To 36" Root Ball, Move Trees On Site.....	742.84	
			For >5 To 10, Deduct	-37.14	
			For >10 To 20, Deduct	-74.28	
			For >20, Deduct	-111.43	
32 96 43 00-0005	EA		>36" To 48" Root Ball, Move Trees On Site.....	1,234.26	
			For >5 To 10, Deduct	-61.71	
			For >10 To 20, Deduct	-123.43	
			For >20, Deduct	-185.14	
32 96 43 00-0006	EA		>48" To 60" Root Ball, Move Trees On Site.....	2,005.67	
			For >5 To 10, Deduct	-100.28	
			For >10 To 20, Deduct	-200.57	
			For >20, Deduct	-300.85	
32 96 43 00-0007	EA		>60" To 72" Root Ball, Move Trees On Site.....	2,587.97	
			For >5 To 10, Deduct	-129.40	
			For >10 To 20, Deduct	-258.80	
			For >20, Deduct	-388.20	
32 96 43 00-0008	EA		>72" To 84" Root Ball, Move Trees On Site.....	3,342.78	
			For >5 To 10, Deduct	-167.14	
			For >10 To 20, Deduct	-334.28	
			For >20, Deduct	-501.42	
32 96 43 00-0009	EA		>84" To 96" Root Ball, Move Trees On Site.....	4,011.34	
			For >5 To 10, Deduct	-200.57	
			For >10 To 20, Deduct	-401.13	
			For >20, Deduct	-601.70	
32 96 43 00-0010	EA		>96" To 120" Root Ball, Move Trees On Site.....	4,558.34	
			For >5 To 10, Deduct	-227.92	
			For >10 To 20, Deduct	-455.83	
			For >20, Deduct	-683.75	

END OF SECTION 32

32	32	Exterior Improvements
	32 90	Planting
	32 96	Transplanting



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST

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		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Water Utilities	33 01 10	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 Utilities

Note: Buried plastic pipe and conduit includes detectable tracer wire

33 01 Operation and Maintenance of Utilities ⁽³³⁾

33 01 10 Operation and Maintenance of Water Utilities ^(33 01)

33 01 10 54 Cleaning of Water Utility Piping ^(33 01 10)

See CSI section 33 01 30 41-0012 for cleaning of water lines.

33 01 10 58 Disinfection of Water Utility Piping Systems ^(33 01 10)

33 01 10 58-0001 Water Main Disinfection/Sterilization ^(33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Set-up And Removal Of Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	1,179.14	
33 01 10 58-0003	EA	Move And Set-up At Different Access/Location For Water Main Disinfection/Sterilization, Gas Chlorination Method	589.57	
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization	0.44	
		For >250 To 500, Deduct	-0.02	
		For >500 To 1,000, Deduct	-0.04	
		For >1,000 To 2,000, Deduct	-0.07	
		For >2,000 To 5,000, Deduct	-0.09	
		For >5,000, Deduct	-0.11	
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization	0.68	
		For >250 To 500, Deduct	-0.03	
		For >500 To 1,000, Deduct	-0.07	
		For >1,000 To 2,000, Deduct	-0.10	
		For >2,000 To 5,000, Deduct	-0.14	
		For >5,000, Deduct	-0.17	
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization	0.89	
		For >250 To 500, Deduct	-0.04	
		For >500 To 1,000, Deduct	-0.09	
		For >1,000 To 2,000, Deduct	-0.13	
		For >2,000 To 5,000, Deduct	-0.18	
		For >5,000, Deduct	-0.22	
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization	1.04	
		For >250 To 500, Deduct	-0.05	
		For >500 To 1,000, Deduct	-0.10	
		For >1,000 To 2,000, Deduct	-0.16	
		For >2,000 To 5,000, Deduct	-0.21	
		For >5,000, Deduct	-0.26	
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization	1.36	
		For >250 To 500, Deduct	-0.07	
		For >500 To 1,000, Deduct	-0.14	
		For >1,000 To 2,000, Deduct	-0.20	
		For >2,000 To 5,000, Deduct	-0.27	
		For >5,000, Deduct	-0.34	
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.54	
		For >250 To 500, Deduct	-0.08	
		For >500 To 1,000, Deduct	-0.15	
		For >1,000 To 2,000, Deduct	-0.23	
		For >2,000 To 5,000, Deduct	-0.31	
		For >5,000, Deduct	-0.39	
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.76	
		For >250 To 500, Deduct	-0.09	
		For >500 To 1,000, Deduct	-0.18	
		For >1,000 To 2,000, Deduct	-0.26	
		For >2,000 To 5,000, Deduct	-0.35	
		For >5,000, Deduct	-0.44	
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	2.08	
		For >250 To 500, Deduct	-0.10	
		For >500 To 1,000, Deduct	-0.21	
		For >1,000 To 2,000, Deduct	-0.31	
		For >2,000 To 5,000, Deduct	-0.42	
		For >5,000, Deduct	-0.52	
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	2.68	
		For >250 To 500, Deduct	-0.13	
		For >500 To 1,000, Deduct	-0.27	
		For >1,000 To 2,000, Deduct	-0.40	
		For >2,000 To 5,000, Deduct	-0.54	
		For >5,000, Deduct	-0.67	
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	3.93	
		For >250 To 500, Deduct	-0.20	
		For >500 To 1,000, Deduct	-0.39	
		For >1,000 To 2,000, Deduct	-0.59	
		For >2,000 To 5,000, Deduct	-0.79	
		For >5,000, Deduct	-0.98	
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization	5.44	
		For >250 To 500, Deduct	-0.27	
		For >500 To 1,000, Deduct	-0.54	
		For >1,000 To 2,000, Deduct	-0.82	
		For >2,000 To 5,000, Deduct	-1.09	
		For >5,000, Deduct	-1.36	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 10 71 Relining Water Utilities Pipelines (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001 Relining Underground Water Pipelines (33 01 10 71)

Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hour response for owners' backups.

33 01 10 71-0002 Set-Up And Reinsertion For Relining Underground Water Pipelines (33 01 10 71-0001)

33 01 10 71-0003	EA	Initial Set-up And Final Equipment Removal For Relining Underground Water Pipelines.....	5,635.89
33 01 10 71-0004	EA	Move And Set-up At Different Access/Location	2,254.36

33 01 10 71-0005 Lining Pipe With Cement (33 01 10 71-0001)

33 01 10 71-0006	LF	Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement	66.88
		For 3/16" Thickness, Add	1.08
		For 1/4" Thickness, Add	2.15
33 01 10 71-0007	LF	>500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement	59.57
		For 3/16" Thickness, Add	1.08
		For 1/4" Thickness, Add	2.15
33 01 10 71-0008	LF	>1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement	49.78
		For 3/16" Thickness, Add	1.08
		For 1/4" Thickness, Add	2.15
33 01 10 71-0009	LF	>5,000', 4" Pipe, 1/8" Pipe Lining With Cement	37.48
		For 3/16" Thickness, Add	1.08
		For 1/4" Thickness, Add	2.15
33 01 10 71-0010	LF	Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement	69.62
		For 3/16" Thickness, Add	1.61
		For 1/4" Thickness, Add	3.22
33 01 10 71-0011	LF	>500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement	62.04
		For 3/16" Thickness, Add	1.61
		For 1/4" Thickness, Add	3.22
33 01 10 71-0012	LF	>1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement	51.91
		For 3/16" Thickness, Add	1.61
		For 1/4" Thickness, Add	3.22
33 01 10 71-0013	LF	>5,000', 6" Pipe, 1/8" Pipe Lining With Cement	39.45
		For 3/16" Thickness, Add	1.61
		For 1/4" Thickness, Add	3.22
33 01 10 71-0014	LF	Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement	72.25
		For 3/16" Thickness, Add	2.14
		For 1/4" Thickness, Add	4.28
33 01 10 71-0015	LF	>500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement	64.50
		For 3/16" Thickness, Add	2.14
		For 1/4" Thickness, Add	4.28
33 01 10 71-0016	LF	>1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement	54.03
		For 3/16" Thickness, Add	2.14
		For 1/4" Thickness, Add	4.28
33 01 10 71-0017	LF	>5,000', 8" Pipe, 1/8" Pipe Lining With Cement	41.39
		For 3/16" Thickness, Add	2.14
		For 1/4" Thickness, Add	4.28
33 01 10 71-0018	LF	Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement	74.29
		For 3/16" Thickness, Add	2.69
		For 1/4" Thickness, Add	5.37
33 01 10 71-0019	LF	>500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement	66.42
		For 3/16" Thickness, Add	2.69
		For 1/4" Thickness, Add	5.37
33 01 10 71-0020	LF	>1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement	55.79
		For 3/16" Thickness, Add	2.69
		For 1/4" Thickness, Add	5.37
33 01 10 71-0021	LF	>5,000', 10" Pipe, 1/8" Pipe Lining With Cement	43.38
		For 3/16" Thickness, Add	2.69
		For 1/4" Thickness, Add	5.37
33 01 10 71-0022	LF	Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement	80.33
		For 3/16" Thickness, Add	3.22
		For 1/4" Thickness, Add	6.43
33 01 10 71-0023	LF	>500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement	71.96
		For 3/16" Thickness, Add	3.22
		For 1/4" Thickness, Add	6.43
33 01 10 71-0024	LF	>1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement	60.66
		For 3/16" Thickness, Add	3.22
		For 1/4" Thickness, Add	6.43
33 01 10 71-0025	LF	>5,000', 12" Pipe, 1/8" Pipe Lining With Cement	47.24
		For 3/16" Thickness, Add	3.22
		For 1/4" Thickness, Add	6.43
33 01 10 71-0026	LF	Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	86.87
		For 1/4" Thickness, Add	3.58
		For 5/16" Thickness, Add	7.15
33 01 10 71-0027	LF	>500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	78.18
		For 1/4" Thickness, Add	3.58
		For 5/16" Thickness, Add	7.15
33 01 10 71-0028	LF	>1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	66.41
		For 1/4" Thickness, Add	3.58
		For 5/16" Thickness, Add	7.15
33 01 10 71-0029	LF	>5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	53.54
		For 1/4" Thickness, Add	3.58
		For 5/16" Thickness, Add	7.15



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Water Utilities	33 01 10	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030 LF Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	91.23	
For 1/4" Thickness, Add	4.29	
For 5/16" Thickness, Add	8.57	
33 01 10 71-0031 LF >500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	82.27	
For 1/4" Thickness, Add	4.29	
For 5/16" Thickness, Add	8.57	
33 01 10 71-0032 LF >1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	70.11	
For 1/4" Thickness, Add	4.29	
For 5/16" Thickness, Add	8.57	
33 01 10 71-0033 LF >5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	57.92	
For 1/4" Thickness, Add	4.29	
For 5/16" Thickness, Add	8.57	
33 01 10 71-0034 LF Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	96.63	
For 1/4" Thickness, Add	5.00	
For 5/16" Thickness, Add	10.01	
33 01 10 71-0035 LF >500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	87.36	
For 1/4" Thickness, Add	5.00	
For 5/16" Thickness, Add	10.01	
33 01 10 71-0036 LF >1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	74.60	
For 1/4" Thickness, Add	5.00	
For 5/16" Thickness, Add	10.01	
33 01 10 71-0037 LF >5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	63.19	
For 1/4" Thickness, Add	5.00	
For 5/16" Thickness, Add	10.01	
33 01 10 71-0038 LF Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	102.13	
For 1/4" Thickness, Add	5.72	
For 5/16" Thickness, Add	11.44	
33 01 10 71-0039 LF >500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	92.47	
For 1/4" Thickness, Add	5.72	
For 5/16" Thickness, Add	11.44	
33 01 10 71-0040 LF >1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	79.32	
For 1/4" Thickness, Add	5.72	
For 5/16" Thickness, Add	11.44	
33 01 10 71-0041 LF >5,000', 24" Pipe, 3/16" Pipe Lining With Cement	68.70	
For 1/4" Thickness, Add	5.72	
For 5/16" Thickness, Add	11.44	
33 01 10 71-0042 LF Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	109.65	
For 1/4" Thickness, Add	7.15	
For 5/16" Thickness, Add	14.29	
33 01 10 71-0043 LF >500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	99.44	
For 1/4" Thickness, Add	7.15	
For 5/16" Thickness, Add	14.29	
33 01 10 71-0044 LF >1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	85.50	
For 1/4" Thickness, Add	7.15	
For 5/16" Thickness, Add	14.29	
33 01 10 71-0045 LF >5,000', 30" Pipe, 3/16" Pipe Lining With Cement	74.77	
For 1/4" Thickness, Add	7.15	
For 5/16" Thickness, Add	14.29	
33 01 10 71-0046 LF Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	117.08	
For 1/4" Thickness, Add	8.58	
For 5/16" Thickness, Add	17.16	
33 01 10 71-0047 LF 500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	106.43	
For 1/4" Thickness, Add	8.58	
For 5/16" Thickness, Add	17.16	
33 01 10 71-0048 LF >1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	91.71	
For 1/4" Thickness, Add	8.58	
For 5/16" Thickness, Add	17.16	
33 01 10 71-0049 LF >5,000', 36" Pipe, 3/16" Pipe Lining With Cement	80.86	
For 1/4" Thickness, Add	8.58	
For 5/16" Thickness, Add	17.16	
33 01 10 71-0050 LF Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	144.88	
For 3/8" Thickness, Add	22.52	
For 7/16" Thickness, Add	33.78	
33 01 10 71-0051 LF >500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	133.26	
For 3/8" Thickness, Add	22.52	
For 7/16" Thickness, Add	33.78	
33 01 10 71-0052 LF >1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	117.26	
For 3/8" Thickness, Add	22.52	
For 7/16" Thickness, Add	33.78	
33 01 10 71-0053 LF >5,000', 42" Pipe, 1/4" Pipe Lining With Cement.....	106.09	
For 3/8" Thickness, Add	22.52	
For 7/16" Thickness, Add	33.78	
33 01 10 71-0054 LF Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	159.70	
For 3/8" Thickness, Add	25.74	
For 7/16" Thickness, Add	38.60	
33 01 10 71-0055 LF >500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	147.27	
For 3/8" Thickness, Add	25.74	
For 7/16" Thickness, Add	38.60	
33 01 10 71-0056 LF >1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	130.06	
For 3/8" Thickness, Add	25.74	
For 7/16" Thickness, Add	38.60	
33 01 10 71-0057 LF >5,000', 48" Pipe, 1/4" Pipe Lining With Cement.....	118.66	
For 3/8" Thickness, Add	25.74	
For 7/16" Thickness, Add	38.60	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement	168.13	
For 3/8" Thickness, Add	28.95	
For 7/16" Thickness, Add	43.43	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	155.44	
For 3/8" Thickness, Add	28.95	
For 7/16" Thickness, Add	43.43	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	137.84	
For 3/8" Thickness, Add	28.95	
For 7/16" Thickness, Add	43.43	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement	126.88	
For 3/8" Thickness, Add	28.95	
For 7/16" Thickness, Add	43.43	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement	176.60	
For 3/8" Thickness, Add	32.18	
For 7/16" Thickness, Add	48.26	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	163.68	
For 3/8" Thickness, Add	32.18	
For 7/16" Thickness, Add	48.26	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	145.74	
For 3/8" Thickness, Add	32.18	
For 7/16" Thickness, Add	48.26	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement	135.12	
For 3/8" Thickness, Add	32.18	
For 7/16" Thickness, Add	48.26	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement	185.38	
For 3/8" Thickness, Add	35.39	
For 7/16" Thickness, Add	53.09	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	172.19	
For 3/8" Thickness, Add	35.39	
For 7/16" Thickness, Add	53.09	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	153.96	
For 3/8" Thickness, Add	35.39	
For 7/16" Thickness, Add	53.09	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement	144.12	
For 3/8" Thickness, Add	35.39	
For 7/16" Thickness, Add	53.09	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement	194.61	
For 3/8" Thickness, Add	38.61	
For 7/16" Thickness, Add	57.91	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	181.19	
For 3/8" Thickness, Add	38.61	
For 7/16" Thickness, Add	57.91	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	162.52	
For 3/8" Thickness, Add	38.61	
For 7/16" Thickness, Add	57.91	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement	153.23	
For 3/8" Thickness, Add	38.61	
For 7/16" Thickness, Add	57.91	
33 01 10 71-0074 Lining Pipe With Epoxy (33 01 10 71-0001)		
33 01 10 71-0075 LF Up To 500', 4" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	63.54	
33 01 10 71-0076 LF >500' To 1,000', 4" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	56.82	
33 01 10 71-0077 LF >1,000' To 5,000', 4" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	47.79	
33 01 10 71-0078 LF >5,000', 4" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	43.28	
33 01 10 71-0079 LF Up To 500', 6" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	67.04	
33 01 10 71-0080 LF >500' To 1,000', 6" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	60.07	
33 01 10 71-0081 LF >1,000' To 5,000', 6" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	50.75	
33 01 10 71-0082 LF >5,000', 6" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	46.06	
33 01 10 71-0083 LF Up To 500', 8" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	70.45	
33 01 10 71-0084 LF >500' To 1,000', 8" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	63.33	
33 01 10 71-0085 LF >1,000' To 5,000', 8" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	53.68	
33 01 10 71-0086 LF >5,000', 8" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	48.94	
33 01 10 71-0087 LF Up To 500', 10" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	67.56	
33 01 10 71-0088 LF >500' To 1,000', 10" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	66.09	
33 01 10 71-0089 LF >1,000' To 5,000', 10" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	56.33	
33 01 10 71-0090 LF >5,000', 10" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	51.48	
33 01 10 71-0091 LF Up To 500', 12" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	79.90	
33 01 10 71-0092 LF >500' To 1,000', 12" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	72.18	
33 01 10 71-0093 LF >1,000' To 5,000', 12" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	61.78	
33 01 10 71-0094 LF >5,000', 12" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	56.54	
33 01 10 71-0095 LF Up To 500', >12" To 16" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	84.97	
33 01 10 71-0096 LF >500' To 1,000', >12" To 16" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	76.95	
33 01 10 71-0097 LF >1,000' To 5,000', >12" To 16" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	66.13	
33 01 10 71-0098 LF >5,000', >12" To 16" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	60.66	
33 01 10 71-0099 LF Up To 500', >16" To 20" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	89.95	
33 01 10 71-0100 LF >500' To 1,000', >16" To 20" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	81.72	
33 01 10 71-0101 LF 1,000' To 5,000', >16" To 20" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	70.52	
33 01 10 71-0102 LF >5,000', >16" To 20" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	64.86	
33 01 10 71-0103 LF Up To 500', >20" To 22" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	95.94	
33 01 10 71-0104 LF >500' To 1,000', >20" To 22" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	87.40	
33 01 10 71-0105 LF >1,000' To 5,000', >20" To 22" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	75.66	
33 01 10 71-0106 LF >5,000', >20" To 22" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	69.90	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Water Utilities	33 01 10	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
33 01 10 71-0107	LF Up To 500', 24" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	101.97			
33 01 10 71-0108	LF >500' To 1,000', 24" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	93.10			
33 01 10 71-0109	LF >1,000' To 5,000', 24" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	80.99			
33 01 10 71-0110	LF >5,000', 24" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	74.94			
33 01 10 71-0111	LF Up To 500', 30" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	110.92			
33 01 10 71-0112	LF >500' To 1,000', 30" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	101.52			
33 01 10 71-0113	LF >1,000' To 5,000', 30" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	88.71			
33 01 10 71-0114	LF >5,000', 30" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	82.22			
33 01 10 71-0115	LF Up To 500', 36" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	119.76			
33 01 10 71-0116	LF >500' To 1,000', 36" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	109.96			
33 01 10 71-0117	LF >1,000' To 5,000', 36" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	96.42			
33 01 10 71-0118	LF >5,000', 36" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	89.70			
33 01 10 71-0119	LF Up To 500', 42" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	133.54			
33 01 10 71-0120	LF >500' To 1,000', 42" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	122.85			
33 01 10 71-0121	LF >1,000' To 5,000', 42" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	108.14			
33 01 10 71-0122	LF >5,000', 42" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	100.85			
33 01 10 71-0123	LF Up To 500', 48" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	147.23			
33 01 10 71-0124	LF >500' To 1,000', 48" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	135.79			
33 01 10 71-0125	LF >1,000' To 5,000', 48" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	119.97			
33 01 10 71-0126	LF >5,000', 48" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	112.15			
33 01 10 71-0127	LF Up To 500', 54" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	155.02			
33 01 10 71-0128	LF >500' To 1,000', 54" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	143.33			
33 01 10 71-0129	LF >1,000' To 5,000', 54" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	127.16			
33 01 10 71-0130	LF >5,000', 54" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	119.12			
33 01 10 71-0131	LF Up To 500', 60" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	162.80			
33 01 10 71-0132	LF >500' To 1,000', 60" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	150.92			
33 01 10 71-0133	LF >1,000' To 5,000', 60" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	134.41			
33 01 10 71-0134	LF >5,000', 60" Pipe, 1 mm (40 Mil) Epoxy Resin Lining	125.87			
33 01 10 71-0135	Water House Connection (33 01 10 71-0001)				
33 01 10 71-0136	EA Blow Out Line To Water House Connection After Lining	58.95			
33 01 20	Operation and Maintenance of Wells (33 01)				
33 01 20 00-0001	Pull Submersible Well Pumps For Repair (33 01 20)				
	Note: Includes cleaning.				
33 01 20 00-0002	EA Up To 100' Depth, Pull Submersible Well Pumps For Repair	100.05			
	Note: Includes reinstallation after repair.				
33 01 20 00-0003	EA >100 To 200' Depth, Pull Submersible Well Pumps For Repair	133.41			
	Note: Includes reinstallation after repair.				
33 01 20 00-0004	EA >200 To 300' Depth, Pull Submersible Well Pumps For Repair	173.43			
	Note: Includes reinstallation after repair.				
33 01 20 00-0005	EA >300 To 400' Depth, Pull Submersible Well Pumps For Repair	226.78			
	Note: Includes reinstallation after repair.				
33 01 20 00-0006	EA >400 To 500' Depth, Pull Submersible Well Pumps For Repair	280.15			
	Note: Includes reinstallation after repair.				
33 01 20 00-0007	EA >500 To 600' Depth, Pull Submersible Well Pumps For Repair	320.17			
	Note: Includes reinstallation after repair.				
33 01 30	Operation and Maintenance of Sewer Utilities (33 01)				
33 01 30 11	Television Inspection Of Pipelines (33 01 30)				
	Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.				
33 01 30 11-0001	Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)				
33 01 30 11-0002	Set-up For Video Camera (33 01 30 11-0001)				
	Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1" to 12" diameter pipes for distances up to 300 feet. Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).				
33 01 30 11-0003	EA Initial Set-up And Final Equipment Removal For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	990.87			
33 01 30 11-0004	EA Initial Set-up And Final Equipment Removal For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert	1,981.75			
33 01 30 11-0005	EA Initial Set-up And Final Equipment Removal For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	2,972.62			
33 01 30 11-0006	EA Move And Set-up At Different Access/Location For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	495.44			
33 01 30 11-0007	EA Move And Set-up At Different Access/Location For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	990.87			
33 01 30 11-0008	Video Camera Planning And Analysis Inspection (33 01 30 11-0001)				
	Note: For pipe interior and culverts.				
33 01 30 11-0009	LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase	2.52			
	Note: CCTV inspection of pipe interior.				
	For >500 To 1,000, Deduct			-0.25	
	For >1,000 To 5,000, Deduct			-0.63	
	For >5,000, Deduct			-0.88	
	For Inspection Not Requiring Pre-cleaning, Deduct			-0.38	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0010	LF	>6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase.....	3.35	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.34	
		For >1,000 To 5,000, Deduct	-0.84	
		For >5,000, Deduct	-1.17	
		For Inspection Not Requiring Pre-cleaning, Deduct	-0.50	
33 01 30 11-0011	LF	>12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase.....	4.18	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.42	
		For >1,000 To 5,000, Deduct	-1.05	
		For >5,000, Deduct	-1.46	
		For Inspection Not Requiring Pre-cleaning, Deduct	-0.63	
33 01 30 11-0012	LF	>21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....	5.59	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.56	
		For >1,000 To 5,000, Deduct	-1.40	
		For >5,000, Deduct	-1.96	
		For Inspection Not Requiring Pre-cleaning, Deduct	-0.84	
33 01 30 11-0013	LF	>30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....	7.85	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.79	
		For >1,000 To 5,000, Deduct	-1.96	
		For >5,000, Deduct	-2.75	
		For Inspection Not Requiring Pre-cleaning, Deduct	-1.18	
33 01 30 11-0014	LF	>42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....	10.47	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-1.05	
		For >1,000 To 5,000, Deduct	-2.62	
		For >5,000, Deduct	-3.66	
		For Inspection Not Requiring Pre-cleaning, Deduct	-1.57	
33 01 30 11-0015	LF	>60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....	14.78	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-1.48	
		For >1,000 To 5,000, Deduct	-3.70	
		For >5,000, Deduct	-5.17	
		For Inspection Not Requiring Pre-cleaning, Deduct	-2.22	
33 01 30 11-0016	LF	>72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....	20.93	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-2.09	
		For >1,000 To 5,000, Deduct	-5.23	
		For >5,000, Deduct	-7.33	
		For Inspection Not Requiring Pre-cleaning, Deduct	-3.14	
33 01 30 11-0017		Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0018	LF	4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	3.72	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.37	
		For >1,000 To 5,000, Deduct	-0.93	
		For >5,000, Deduct	-1.30	
33 01 30 11-0019	LF	>6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	4.96	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.50	
		For >1,000 To 5,000, Deduct	-1.24	
		For >5,000, Deduct	-1.74	
33 01 30 11-0020	LF	>12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	6.19	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.62	
		For >1,000 To 5,000, Deduct	-1.55	
		For >5,000, Deduct	-2.17	
33 01 30 11-0021	LF	>21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	8.25	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.83	
		For >1,000 To 5,000, Deduct	-2.06	
		For >5,000, Deduct	-2.89	
33 01 30 11-0022	LF	>30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	11.61	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-1.16	
		For >1,000 To 5,000, Deduct	-2.90	
		For >5,000, Deduct	-4.06	
33 01 30 11-0023	LF	>42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	15.48	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-1.55	
		For >1,000 To 5,000, Deduct	-3.87	
		For >5,000, Deduct	-5.42	
33 01 30 11-0024	LF	>60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	21.86	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-2.19	
		For >1,000 To 5,000, Deduct	-5.47	
		For >5,000, Deduct	-7.65	
33 01 30 11-0025	LF	>72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	30.96	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-3.10	
		For >1,000 To 5,000, Deduct	-7.74	
		For >5,000, Deduct	-10.84	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)				
33 01 30 11-0027	LF	4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	2.66	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.27	
		For >1,000 To 5,000, Deduct	-0.67	
		For >5,000, Deduct	-0.93	
33 01 30 11-0028	LF	>6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	3.54	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.35	
		For >1,000 To 5,000, Deduct	-0.89	
		For >5,000, Deduct	-1.24	
33 01 30 11-0029	LF	>12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	4.42	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.44	
		For >1,000 To 5,000, Deduct	-1.11	
		For >5,000, Deduct	-1.55	
33 01 30 11-0030	LF	>21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	5.90	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.59	
		For >1,000 To 5,000, Deduct	-1.48	
		For >5,000, Deduct	-2.07	
33 01 30 11-0031	LF	>30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	8.29	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-0.83	
		For >1,000 To 5,000, Deduct	-2.07	
		For >5,000, Deduct	-2.90	
33 01 30 11-0032	LF	>42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	11.06	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-1.11	
		For >1,000 To 5,000, Deduct	-2.77	
		For >5,000, Deduct	-3.87	
33 01 30 11-0033	LF	>60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	15.61	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-1.56	
		For >1,000 To 5,000, Deduct	-3.90	
		For >5,000, Deduct	-5.46	
33 01 30 11-0034	LF	>72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	22.12	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	-2.21	
		For >1,000 To 5,000, Deduct	-5.53	
		For >5,000, Deduct	-7.74	
33 01 30 23 Pipe Bursting (33 01 30)				
33 01 30 23-0001		Pipe Bursting (33 01 30 23)		
		Note: The following section excludes costs for CCTV Inspection, sewer cleaning, pavement both temporary and permanent, emergency after hour response for owners' backups, bypass pumping, tree removal, service saddles, soil testing, and erosion control. See CSI section 31 13 13 00-0001 for tree removal.		
33 01 30 23-0002		Manhole Chipping (33 01 30 23-0001)		
		Note: For use at manholes to open holes for pipe bursting head.		
33 01 30 23-0003	EA	6" To 15" Diameter, Manhole Chipping.....	423.65	
33 01 30 23-0004	EA	>15" To 24" Diameter, Manhole Chipping.....	497.36	
33 01 30 23-0005	EA	>24" To 36" Diameter, Manhole Chipping.....	621.66	
33 01 30 23-0006		Pipe Bursting (33 01 30 23-0001)		
		Note: Includes equipment to burst or upsize existing clay, cast iron, concrete, PVC or ductile iron pipe; pipe bursting royalty fee. Excludes CCTV inspection, PE piping, excavation of pit, backfill, compaction, final grade, seed and sod restoration, recovery of bursting head disabled by obstruction, either undocumented or unrecognizable during CCTV inspection. See CSI section 33 01 30 23-0051 for PE piping.		
33 01 30 23-0007		Set-up For Pipe Bursting Equipment (33 01 30 23-0006)		
33 01 30 23-0008	EA	Initial Set-up And Final Equipment Removal For Up To 12" Underground Pipelines For Pipe Bursting Equipment	7,301.53	
33 01 30 23-0009	EA	Initial Set-up And Final Equipment Removal For > 12" To 24" Underground Pipelines For Pipe Bursting Equipment	10,952.30	
33 01 30 23-0010	EA	Initial Set-up And Final Equipment Removal For > 24" To 36" Underground Pipelines For Pipe Bursting Equipment	18,253.83	
33 01 30 23-0011	EA	Move And Set-up At Different Access/Location For Up To 12" Underground Pipelines For Pipe Bursting Equipment	2,738.08	
33 01 30 23-0012	EA	Move And Set-up At Different Access/Location For > 12" To 24" Underground Pipelines For Pipe Bursting Equipment	4,107.12	
33 01 30 23-0013	EA	Move And Set-up At Different Access/Location For > 2" To 36" Underground Pipelines For Pipe Bursting Equipment	6,845.18	
33 01 30 23-0014	EA	Move And Set-up Pipe Bursting Equipment For Laterals.....	1,825.38	
33 01 30 23-0015		Pneumatic Head Pipe Bursting (33 01 30 23-0006)		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0016	LF		4" Diameter, Pneumatic Head Pipe Bursting	26.84	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.08	
			For >150 To 200, Add	1.25	
			For >100 To 150, Add	2.49	
			For >75 To 100, Add	3.74	
			For >50 To 75, Add	4.98	
			For >25 To 50, Add	6.64	
			For Up To 25, Add	9.13	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.08	
			For Bursting Ductile Iron Pipe, Add	7.01	
33 01 30 23-0017	LF		6" Diameter, Pneumatic Head Pipe Bursting	30.82	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.57	
			For >150 To 200, Add	1.54	
			For >100 To 150, Add	3.09	
			For >75 To 100, Add	4.63	
			For >50 To 75, Add	6.17	
			For >25 To 50, Add	8.23	
			For Up To 25, Add	11.32	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.57	
			For Bursting Ductile Iron Pipe, Add	8.33	
33 01 30 23-0018	LF		8" Diameter, Pneumatic Head Pipe Bursting	34.56	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.04	
			For >150 To 200, Add	1.82	
			For >100 To 150, Add	3.65	
			For >75 To 100, Add	5.47	
			For >50 To 75, Add	7.30	
			For >25 To 50, Add	9.73	
			For Up To 25, Add	13.38	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.04	
			For Bursting Ductile Iron Pipe, Add	9.56	
33 01 30 23-0019	LF		10" Diameter, Pneumatic Head Pipe Bursting	39.39	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.64	
			For >150 To 200, Add	2.19	
			For >100 To 150, Add	4.37	
			For >75 To 100, Add	6.56	
			For >50 To 75, Add	8.75	
			For >25 To 50, Add	11.66	
			For Up To 25, Add	16.03	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.64	
			For Bursting Ductile Iron Pipe, Add	11.16	
33 01 30 23-0020	LF		12" Diameter, Pneumatic Head Pipe Bursting	44.95	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.34	
			For >150 To 200, Add	2.60	
			For >100 To 150, Add	5.21	
			For >75 To 100, Add	7.81	
			For >50 To 75, Add	10.41	
			For >25 To 50, Add	13.88	
			For Up To 25, Add	19.09	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.34	
			For Bursting Ductile Iron Pipe, Add	12.99	
33 01 30 23-0021	LF		15" Diameter, Pneumatic Head Pipe Bursting	49.98	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.48	
			For >150 To 200, Add	2.69	
			For >100 To 150, Add	5.37	
			For >75 To 100, Add	8.06	
			For >50 To 75, Add	10.75	
			For >25 To 50, Add	14.33	
			For Up To 25, Add	19.71	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.48	
			For Bursting Ductile Iron Pipe, Add	13.95	
33 01 30 23-0022	LF		18" Diameter, Pneumatic Head Pipe Bursting	55.55	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.18	
			For >150 To 200, Add	3.11	
			For >100 To 150, Add	6.21	
			For >75 To 100, Add	9.32	
			For >50 To 75, Add	12.42	
			For >25 To 50, Add	16.56	
			For Up To 25, Add	22.77	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.18	
			For Bursting Ductile Iron Pipe, Add	15.78	
33 01 30 23-0023	LF		21"/22" Diameter, Pneumatic Head Pipe Bursting	70.49	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.16	
			For >150 To 200, Add	3.69	
			For >100 To 150, Add	7.39	
			For >75 To 100, Add	11.08	
			For >50 To 75, Add	14.78	
			For >25 To 50, Add	19.70	
			For Up To 25, Add	27.09	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.16	
			For Bursting Ductile Iron Pipe, Add	19.44	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0024 LF 24" Diameter, Pneumatic Head Pipe Bursting	86.32	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	8.14	
For >150 To 200, Add	4.88	
For >100 To 150, Add	9.76	
For >75 To 100, Add	14.65	
For >50 To 75, Add	19.53	
For >25 To 50, Add	26.04	
For Up To 25, Add	35.80	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	8.14	
For Bursting Ductile Iron Pipe, Add	24.66	
33 01 30 23-0025 LF 30" Diameter, Pneumatic Head Pipe Bursting	95.82	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	8.44	
For >150 To 200, Add	5.06	
For >100 To 150, Add	10.13	
For >75 To 100, Add	15.19	
For >50 To 75, Add	20.26	
For >25 To 50, Add	27.01	
For Up To 25, Add	37.14	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	8.44	
For Bursting Ductile Iron Pipe, Add	26.53	
33 01 30 23-0026 LF 36" Diameter, Pneumatic Head Pipe Bursting	122.15	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	11.73	
For >150 To 200, Add	7.04	
For >100 To 150, Add	14.08	
For >75 To 100, Add	21.12	
For >50 To 75, Add	28.16	
For >25 To 50, Add	37.54	
For Up To 25, Add	51.62	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	11.73	
For Bursting Ductile Iron Pipe, Add	35.22	
33 01 30 23-0027 Static Head Pipe Bursting (33 01 30 23-0006)		
33 01 30 23-0028 LF 4" Diameter, Static Head Pipe Bursting	34.90	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.08	
For >150 To 200, Add	1.85	
For >100 To 150, Add	3.70	
For >75 To 100, Add	5.55	
For >50 To 75, Add	7.40	
For >25 To 50, Add	9.86	
For Up To 25, Add	13.56	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.08	
For Bursting Ductile Iron Pipe, Add	9.67	
33 01 30 23-0029 LF 6" Diameter, Static Head Pipe Bursting	38.92	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.59	
For >150 To 200, Add	2.15	
For >100 To 150, Add	4.30	
For >75 To 100, Add	6.45	
For >50 To 75, Add	8.60	
For >25 To 50, Add	11.47	
For Up To 25, Add	15.77	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.59	
For Bursting Ductile Iron Pipe, Add	11.00	
33 01 30 23-0030 LF 8" Diameter, Static Head Pipe Bursting	43.56	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.17	
For >150 To 200, Add	2.50	
For >100 To 150, Add	5.00	
For >75 To 100, Add	7.50	
For >50 To 75, Add	10.00	
For >25 To 50, Add	13.33	
For Up To 25, Add	18.33	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.17	
For Bursting Ductile Iron Pipe, Add	12.53	
33 01 30 23-0031 LF 10" Diameter, Static Head Pipe Bursting	49.59	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.92	
For >150 To 200, Add	2.95	
For >100 To 150, Add	5.90	
For >75 To 100, Add	8.85	
For >50 To 75, Add	11.81	
For >25 To 50, Add	15.74	
For Up To 25, Add	21.64	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.92	
For Bursting Ductile Iron Pipe, Add	14.52	
33 01 30 23-0032 LF 12" Diameter, Static Head Pipe Bursting	56.54	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.79	
For >150 To 200, Add	3.47	
For >100 To 150, Add	6.95	
For >75 To 100, Add	10.42	
For >50 To 75, Add	13.89	
For >25 To 50, Add	18.52	
For Up To 25, Add	25.47	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.79	
For Bursting Ductile Iron Pipe, Add	16.82	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0033	LF		15" Diameter, Static Head Pipe Bursting	64.84	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.34	
			For >150 To 200, Add	3.80	
			For >100 To 150, Add	7.60	
			For >75 To 100, Add	11.41	
			For >50 To 75, Add	15.21	
			For >25 To 50, Add	20.28	
			For Up To 25, Add	27.88	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.34	
			For Bursting Ductile Iron Pipe, Add	18.85	
33 01 30 23-0034	LF		18" Diameter, Static Head Pipe Bursting	71.51	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.17	
			For >150 To 200, Add	4.30	
			For >100 To 150, Add	8.60	
			For >75 To 100, Add	12.91	
			For >50 To 75, Add	17.21	
			For >25 To 50, Add	22.94	
			For Up To 25, Add	31.55	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	7.17	
			For Bursting Ductile Iron Pipe, Add	21.05	
33 01 30 23-0035	LF		21"/22" Diameter, Static Head Pipe Bursting	89.91	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	8.59	
			For >150 To 200, Add	5.15	
			For >100 To 150, Add	10.30	
			For >75 To 100, Add	15.45	
			For >50 To 75, Add	20.60	
			For >25 To 50, Add	27.47	
			For Up To 25, Add	37.77	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	8.59	
			For Bursting Ductile Iron Pipe, Add	25.85	
33 01 30 23-0036	LF		24" Diameter, Static Head Pipe Bursting	115.19	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	11.75	
			For >150 To 200, Add	7.05	
			For >100 To 150, Add	14.09	
			For >75 To 100, Add	21.14	
			For >50 To 75, Add	28.19	
			For >25 To 50, Add	37.58	
			For Up To 25, Add	51.68	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	11.75	
			For Bursting Ductile Iron Pipe, Add	34.19	
33 01 30 23-0037	LF		30" Diameter, Static Head Pipe Bursting	140.57	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	14.04	
			For >150 To 200, Add	8.42	
			For >100 To 150, Add	16.84	
			For >75 To 100, Add	25.26	
			For >50 To 75, Add	33.68	
			For >25 To 50, Add	44.91	
			For Up To 25, Add	61.75	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	14.04	
			For Bursting Ductile Iron Pipe, Add	41.30	
33 01 30 23-0038	LF		36" Diameter, Static Head Pipe Bursting	169.05	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	17.60	
			For >150 To 200, Add	10.56	
			For >100 To 150, Add	21.11	
			For >75 To 100, Add	31.67	
			For >50 To 75, Add	42.23	
			For >25 To 50, Add	56.30	
			For Up To 25, Add	77.42	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	17.60	
			For Bursting Ductile Iron Pipe, Add	50.69	
33 01 30 23-0039			Hydraulic Head Pipe Bursting (33 01 30 23-0006)		
33 01 30 23-0040	LF		4" Diameter, Hydraulic Head Pipe Bursting	30.52	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.54	
			For >150 To 200, Add	1.52	
			For >100 To 150, Add	3.04	
			For >75 To 100, Add	4.56	
			For >50 To 75, Add	6.08	
			For >25 To 50, Add	8.11	
			For Up To 25, Add	11.15	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.54	
			For Bursting Ductile Iron Pipe, Add	8.23	
33 01 30 23-0041	LF		6" Diameter, Hydraulic Head Pipe Bursting	34.08	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.98	
			For >150 To 200, Add	1.79	
			For >100 To 150, Add	3.58	
			For >75 To 100, Add	5.36	
			For >50 To 75, Add	7.15	
			For >25 To 50, Add	9.54	
			For Up To 25, Add	13.11	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.98	
			For Bursting Ductile Iron Pipe, Add	9.40	



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		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0042	LF	8" Diameter, Hydraulic Head Pipe Bursting	38.15	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.49	
		For >150 To 200, Add	2.09	
		For >100 To 150, Add	4.19	
		For >75 To 100, Add	6.28	
		For >50 To 75, Add	8.37	
		For >25 To 50, Add	11.16	
		For Up To 25, Add	15.35	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.49	
		For Bursting Ductile Iron Pipe, Add	10.75	
33 01 30 23-0043	LF	10" Diameter, Hydraulic Head Pipe Bursting	43.46	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.15	
		For >150 To 200, Add	2.49	
		For >100 To 150, Add	4.98	
		For >75 To 100, Add	7.47	
		For >50 To 75, Add	9.97	
		For >25 To 50, Add	13.29	
		For Up To 25, Add	18.27	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.15	
		For Bursting Ductile Iron Pipe, Add	12.50	
33 01 30 23-0044	LF	12" Diameter, Hydraulic Head Pipe Bursting	49.59	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.92	
		For >150 To 200, Add	2.95	
		For >100 To 150, Add	5.90	
		For >75 To 100, Add	8.85	
		For >50 To 75, Add	11.81	
		For >25 To 50, Add	15.74	
		For Up To 25, Add	21.64	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.92	
		For Bursting Ductile Iron Pipe, Add	14.52	
33 01 30 23-0045	LF	15" Diameter, Hydraulic Head Pipe Bursting	56.73	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.32	
		For >150 To 200, Add	3.19	
		For >100 To 150, Add	6.39	
		For >75 To 100, Add	9.58	
		For >50 To 75, Add	12.77	
		For >25 To 50, Add	17.03	
		For Up To 25, Add	23.42	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.32	
		For Bursting Ductile Iron Pipe, Add	16.17	
33 01 30 23-0046	LF	18" Diameter, Hydraulic Head Pipe Bursting	63.29	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.14	
		For >150 To 200, Add	3.69	
		For >100 To 150, Add	7.37	
		For >75 To 100, Add	11.06	
		For >50 To 75, Add	14.74	
		For >25 To 50, Add	19.66	
		For Up To 25, Add	27.03	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.14	
		For Bursting Ductile Iron Pipe, Add	18.34	
33 01 30 23-0047	LF	21"/22" Diameter, Hydraulic Head Pipe Bursting	80.08	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.36	
		For >150 To 200, Add	4.41	
		For >100 To 150, Add	8.83	
		For >75 To 100, Add	13.24	
		For >50 To 75, Add	17.66	
		For >25 To 50, Add	23.54	
		For Up To 25, Add	32.37	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	7.36	
		For Bursting Ductile Iron Pipe, Add	22.61	
33 01 30 23-0048	LF	24" Diameter, Hydraulic Head Pipe Bursting	103.33	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	10.26	
		For >150 To 200, Add	6.16	
		For >100 To 150, Add	12.32	
		For >75 To 100, Add	18.47	
		For >50 To 75, Add	24.63	
		For >25 To 50, Add	32.84	
		For Up To 25, Add	45.16	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	10.26	
		For Bursting Ductile Iron Pipe, Add	30.28	
33 01 30 23-0049	LF	30" Diameter, Hydraulic Head Pipe Bursting	127.27	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	12.37	
		For >150 To 200, Add	7.42	
		For >100 To 150, Add	14.85	
		For >75 To 100, Add	22.27	
		For >50 To 75, Add	29.69	
		For >25 To 50, Add	39.59	
		For Up To 25, Add	54.44	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	12.37	
		For Bursting Ductile Iron Pipe, Add	36.91	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0050	LF	36" Diameter, Hydraulic Head Pipe Bursting	154.34	
		<i>For The Increase In Pipe Diameter By 1 Pipe Size, Add</i>	15.76	
		<i>For >150 To 200, Add</i>	9.45	
		<i>For >100 To 150, Add</i>	18.91	
		<i>For >75 To 100, Add</i>	28.36	
		<i>For >50 To 75, Add</i>	37.82	
		<i>For >25 To 50, Add</i>	50.42	
		<i>For Up To 25, Add</i>	69.33	
		<i>For Bursting Polyvinyl Chloride (PVC) Pipe, Add</i>	15.76	
		<i>For Bursting Ductile Iron Pipe, Add</i>	45.84	
33 01 30 23-0051		Pipe Lining (33 01 30 23-0001)		
33 01 30 23-0052		Pipe Fusion For High-Density Polyethylene (HDPE) Pipe Lining (33 01 30 23-0051)		
		Note: Per each joint.		
33 01 30 23-0053	EA	4" To 15", Pipe Fusion For High-Density Polyethylene (HDPE) Pipe Lining	134.73	
33 01 30 23-0054	EA	>15" To 24", Pipe Fusion For High-Density Polyethylene (HDPE) Pipe Lining	154.58	
33 01 30 23-0055	EA	>24" To 36", Pipe Fusion For High-Density Polyethylene (HDPE) Pipe Lining	184.36	
33 01 30 23-0056		High-Density Polyethylene (HDPE) Pipe Lining, DR 17 (33 01 30 23-0051)		
		Note: Material to be installed behind bursting head. Excludes pipe joint fusion. See CSI section 33 01 30 23-0052 for pipe joint fusion.		
33 01 30 23-0057	LF	4" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	4.28	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-0.47	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	1.27	
		<i>For White Interior Pipe, Add</i>	0.85	
		<i>For Gray Interior Pipe, Add</i>	0.65	
33 01 30 23-0058	LF	5" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	5.66	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-0.71	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	1.92	
		<i>For White Interior Pipe, Add</i>	1.30	
		<i>For Gray Interior Pipe, Add</i>	0.98	
33 01 30 23-0059	LF	6" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	7.38	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-1.01	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	2.74	
		<i>For White Interior Pipe, Add</i>	1.85	
		<i>For Gray Interior Pipe, Add</i>	1.40	
33 01 30 23-0060	LF	7.125" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	8.29	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-1.17	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	3.17	
		<i>For White Interior Pipe, Add</i>	2.14	
		<i>For Gray Interior Pipe, Add</i>	1.62	
33 01 30 23-0061	LF	8" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	11.34	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-1.71	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	4.64	
		<i>For White Interior Pipe, Add</i>	3.13	
		<i>For Gray Interior Pipe, Add</i>	2.37	
33 01 30 23-0062	LF	10" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	16.64	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-2.65	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	7.20	
		<i>For White Interior Pipe, Add</i>	4.86	
		<i>For Gray Interior Pipe, Add</i>	3.68	
33 01 30 23-0063	LF	12" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	22.69	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-3.73	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	10.13	
		<i>For White Interior Pipe, Add</i>	6.84	
		<i>For Gray Interior Pipe, Add</i>	5.18	
33 01 30 23-0064	LF	13.375" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	24.83	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-4.10	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	11.15	
		<i>For White Interior Pipe, Add</i>	7.52	
		<i>For Gray Interior Pipe, Add</i>	5.70	
33 01 30 23-0065	LF	14" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	27.08	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-4.50	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	12.22	
		<i>For White Interior Pipe, Add</i>	8.25	
		<i>For Gray Interior Pipe, Add</i>	6.25	
33 01 30 23-0066	LF	16" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	34.84	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-5.87	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	15.96	
		<i>For White Interior Pipe, Add</i>	10.77	
		<i>For Gray Interior Pipe, Add</i>	8.16	
33 01 30 23-0067	LF	18" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	43.69	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-7.44	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	20.21	
		<i>For White Interior Pipe, Add</i>	13.64	
		<i>For Gray Interior Pipe, Add</i>	10.33	
33 01 30 23-0068	LF	20" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	53.54	
		<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-9.18	
		<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	24.94	
		<i>For White Interior Pipe, Add</i>	16.83	
		<i>For Gray Interior Pipe, Add</i>	12.75	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0069	LF	22" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	64.44	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-11.11	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	30.18	
		For White Interior Pipe, Add	20.36	
		For Gray Interior Pipe, Add	15.43	
33 01 30 23-0070	LF	24" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	76.41	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-13.22	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	35.92	
		For White Interior Pipe, Add	24.24	
		For Gray Interior Pipe, Add	18.37	
33 01 30 23-0071	LF	26" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	89.38	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-15.51	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	42.13	
		For White Interior Pipe, Add	28.43	
		For Gray Interior Pipe, Add	21.54	
33 01 30 23-0072	LF	28" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	103.50	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-17.99	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	48.88	
		For White Interior Pipe, Add	32.98	
		For Gray Interior Pipe, Add	24.99	
33 01 30 23-0073	LF	30" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	118.68	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-20.65	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	56.11	
		For White Interior Pipe, Add	37.86	
		For Gray Interior Pipe, Add	28.69	
33 01 30 23-0074	LF	32" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	134.95	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-23.49	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	63.82	
		For White Interior Pipe, Add	43.07	
		For Gray Interior Pipe, Add	32.63	
33 01 30 23-0075	LF	34" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	166.11	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-28.99	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	78.75	
		For White Interior Pipe, Add	53.15	
		For Gray Interior Pipe, Add	40.26	
33 01 30 23-0076	LF	36" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	171.12	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-29.74	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	80.79	
		For White Interior Pipe, Add	54.52	
		For Gray Interior Pipe, Add	41.30	
33 01 30 23-0077		Re-Connection Of Non-Renewed Laterals (33 01 30 23-0001)		
		Note: Excludes earthwork excavation and backfill		
33 01 30 23-0078		Re-Connection Of Laterals; Insert-A-Tee (33 01 30 23-0077)		
		Note: Includes cutting hole in pipe and excavation vacuum truck for exterior pipe lateral reconnection. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling, and back-fill material. See CSI section 01 74 19 00-0041 for hauling, 31 05 16 00-0001 for back-fill material.		
33 01 30 23-0079	EA	Re-Connection Of Non-Renewed Lateral, 6 To 8" Main With 4" Inserta-Tee	1,260.31	
		For No Excavation, Deduct	-830.59	
33 01 30 23-0080	EA	Re-Connection Of Non-Renewed Lateral, 8" Main With 6" Inserta-Tee.....	1,415.34	
		For No Excavation, Deduct	-934.42	
33 01 30 23-0081	EA	Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 4" Inserta-Tee	1,493.96	
		For No Excavation, Deduct	-986.32	
33 01 30 23-0082	EA	Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 6" Inserta-Tee	1,572.60	
		For No Excavation, Deduct	-1,038.24	
33 01 30 23-0083	EA	Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 8" Inserta-Tee	1,693.69	
		For No Excavation, Deduct	-1,090.15	
33 01 30 23-0084	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 4" Inserta-Tee	1,588.24	
		For No Excavation, Deduct	-1,038.24	
33 01 30 23-0085	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 6" Inserta-Tee	1,669.10	
		For No Excavation, Deduct	-1,090.15	
33 01 30 23-0086	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 8" Inserta-Tee	1,781.26	
		For No Excavation, Deduct	-1,142.06	
33 01 30 23-0087	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 10" Inserta-Tee	2,045.39	
		For No Excavation, Deduct	-1,193.97	
33 01 30 23-0088	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 12" Inserta-Tee	2,150.85	
		For No Excavation, Deduct	-1,245.89	
33 01 30 23-0089	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 15" Inserta-Tee	2,551.31	
		For No Excavation, Deduct	-1,297.79	
33 01 30 23-0090		Re-Connection Of Laterals; Saddle Style (33 01 30 23-0077)		
		Note: Includes excavation vacuum truck for exterior pipe lateral reconnection, fusion to high-density polyethylene (HDPE) pipe for lateral. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling and back-fill material. See CSI section 01 74 19 00-0041 for hauling, 31 05 16 00-0001 for back-fill material.		
33 01 30 23-0091	EA	Re-Connection Of Non-Renewed Lateral, 6" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	2,777.47	
		For No Excavation, Deduct	-927.00	
		For Strap-On Saddle Type Instead Of Fusion Weld	-232.28	
33 01 30 23-0092	EA	Re-Connection Of Non-Renewed Lateral, 8" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	3,062.41	
		For No Excavation, Deduct	-964.08	
		For Strap-On Saddle Type Instead Of Fusion Weld	-215.49	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0093 EA Re-Connection Of Non-Renewed Lateral, 10" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,245.68	
For No Excavation, Deduct	-1,001.16	
For Strap-On Saddle Type Instead Of Fusion Weld	-63.96	
33 01 30 23-0094 EA Re-Connection Of Non-Renewed Lateral, 12" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,468.16	
For No Excavation, Deduct	-1,112.40	
For Strap-On Saddle Type Instead Of Fusion Weld	-108.45	
33 01 30 23-0095 EA Re-Connection Of Non-Renewed Lateral, 14" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	7,854.72	
For No Excavation, Deduct	-1,186.56	
For Strap-On Saddle Type Instead Of Fusion Weld	347.62	
33 01 30 23-0096 EA Re-Connection Of Non-Renewed Lateral, 16" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	8,513.79	
For No Excavation, Deduct	-1,316.34	
For Strap-On Saddle Type Instead Of Fusion Weld	355.63	
33 01 30 23-0097 EA Re-Connection Of Non-Renewed Lateral, 18" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	11,432.60	
For No Excavation, Deduct	-1,446.12	
For Strap-On Saddle Type Instead Of Fusion Weld	702.61	
33 01 30 23-0098 EA Re-Connection Of Non-Renewed Lateral, 20" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	10,903.37	
For No Excavation, Deduct	-1,631.51	
For Strap-On Saddle Type Instead Of Fusion Weld	493.45	
33 01 30 23-0099 EA Re-Connection Of Non-Renewed Lateral, 24" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	13,241.79	
For No Excavation, Deduct	-1,928.16	
For Strap-On Saddle Type Instead Of Fusion Weld	636.56	
33 01 30 41 Cleaning of Sewers (33 01 30)		
33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41)		
Note: Includes flushing. Owner provided water.		
33 01 30 41-0002 Pipe Line Cleaning (33 01 30 41-0001)		
Note: Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0003 Set-up And Reinsertion For Hydro Jet (33 01 30 41-0002)		
Note: Includes mobilization delivery, set-up, cleanup after use and return.		
33 01 30 41-0004 EA Initial Set-up And Final Equipment Removal For Up To 8" Jet Cleaning	1,553.66	
33 01 30 41-0005 EA Initial Set-up And Final Equipment Removal For >8" To 12" Jet Cleaning.....	2,330.49	
33 01 30 41-0006 EA Initial Set-up And Final Equipment Removal For >12" To 30" Jet Cleaning.....	3,107.33	
33 01 30 41-0007 EA Initial Set-up And Final Equipment Removal For >30" Jet Cleaning	4,143.09	
33 01 30 41-0008 EA Move And Set-up At Different Access/Location For Up To 8" Jet Cleaning	388.41	
33 01 30 41-0009 EA Move And Set-up At Different Access/Location For >8" To 12" Jet Cleaning	582.62	
33 01 30 41-0010 EA Move And Set-up At Different Access/Location For >12" To 30" Jet Cleaning	776.83	
33 01 30 41-0011 EA Move And Set-up At Different Access/Location For >30" Jet Cleaning	971.04	
33 01 30 41-0012 Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)		
33 01 30 41-0013 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	4.18	
For >250 To 500, Deduct	-0.21	
For >500 To 1,000, Deduct	-0.42	
For >1,000 To 2,000, Deduct	-0.63	
For >2,000 To 5,000, Deduct	-0.84	
For >5,000, Deduct	-1.05	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.14	
33 01 30 41-0014 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.80	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.48	
For >1,000 To 2,000, Deduct	-0.72	
For >2,000 To 5,000, Deduct	-0.96	
For >5,000, Deduct	-1.20	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.60	
33 01 30 41-0015 LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	5.63	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.56	
For >1,000 To 2,000, Deduct	-0.84	
For >2,000 To 5,000, Deduct	-1.13	
For >5,000, Deduct	-1.41	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.22	
33 01 30 41-0016 LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	6.96	
For >250 To 500, Deduct	-0.35	
For >500 To 1,000, Deduct	-0.70	
For >1,000 To 2,000, Deduct	-1.04	
For >2,000 To 5,000, Deduct	-1.39	
For >5,000, Deduct	-1.74	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.22	
33 01 30 41-0017 LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	7.89	
For >250 To 500, Deduct	-0.39	
For >500 To 1,000, Deduct	-0.79	
For >1,000 To 2,000, Deduct	-1.18	
For >2,000 To 5,000, Deduct	-1.58	
For >5,000, Deduct	-1.97	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.92	
33 01 30 41-0018 LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	9.12	
For >250 To 500, Deduct	-0.46	
For >500 To 1,000, Deduct	-0.91	
For >1,000 To 2,000, Deduct	-1.37	
For >2,000 To 5,000, Deduct	-1.82	
For >5,000, Deduct	-2.28	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	6.84	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0019	LF	>16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	10.97	
		For >250 To 500, Deduct	-0.55	
		For >500 To 1,000, Deduct	-1.10	
		For >1,000 To 2,000, Deduct	-1.65	
		For >2,000 To 5,000, Deduct	-2.19	
		For >5,000, Deduct	-2.74	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	8.23	
33 01 30 41-0020	LF	>24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	12.45	
		For >250 To 500, Deduct	-0.62	
		For >500 To 1,000, Deduct	-1.25	
		For >1,000 To 2,000, Deduct	-1.87	
		For >2,000 To 5,000, Deduct	-2.49	
		For >5,000, Deduct	-3.11	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	9.34	
33 01 30 41-0021	LF	>30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	14.71	
		For >250 To 500, Deduct	-0.74	
		For >500 To 1,000, Deduct	-1.47	
		For >1,000 To 2,000, Deduct	-2.21	
		For >2,000 To 5,000, Deduct	-2.94	
		For >5,000, Deduct	-3.68	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	11.03	
33 01 30 41-0022	LF	>42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	18.49	
		For >250 To 500, Deduct	-0.92	
		For >500 To 1,000, Deduct	-1.85	
		For >1,000 To 2,000, Deduct	-2.77	
		For >2,000 To 5,000, Deduct	-3.70	
		For >5,000, Deduct	-4.62	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	13.87	
33 01 30 41-0023	LF	>60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	21.58	
		For >250 To 500, Deduct	-1.08	
		For >500 To 1,000, Deduct	-2.16	
		For >1,000 To 2,000, Deduct	-3.24	
		For >2,000 To 5,000, Deduct	-4.32	
		For >5,000, Deduct	-5.40	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	16.19	
33 01 30 41-0024		Flushing Of Storm Water Pipelines (33 01 30 41-0002)		
		Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0025	LF	12" To 16" Diameter Pipe Line Flushing.....	1.69	
		For >250 To 500, Deduct	-0.08	
		For >500 To 1,000, Deduct	-0.17	
		For >1,000 To 2,000, Deduct	-0.25	
		For >2,000 To 5,000, Deduct	-0.34	
		For >5,000, Deduct	-0.42	
33 01 30 41-0026	LF	>16" To 24" Diameter Pipe Line Flushing.....	1.94	
		For >250 To 500, Deduct	-0.10	
		For >500 To 1,000, Deduct	-0.19	
		For >1,000 To 2,000, Deduct	-0.29	
		For >2,000 To 5,000, Deduct	-0.39	
		For >5,000, Deduct	-0.49	
33 01 30 41-0027	LF	>24" To 30" Diameter Pipe Line Flushing.....	2.28	
		For >250 To 500, Deduct	-0.11	
		For >500 To 1,000, Deduct	-0.23	
		For >1,000 To 2,000, Deduct	-0.34	
		For >2,000 To 5,000, Deduct	-0.46	
		For >5,000, Deduct	-0.57	
33 01 30 41-0028	LF	>30" To 42" Diameter Pipe Line Flushing.....	2.62	
		For >250 To 500, Deduct	-0.13	
		For >500 To 1,000, Deduct	-0.26	
		For >1,000 To 2,000, Deduct	-0.39	
		For >2,000 To 5,000, Deduct	-0.52	
		For >5,000, Deduct	-0.66	
33 01 30 41-0029	LF	>42" To 60" Diameter Pipe Line Flushing.....	3.49	
		For >250 To 500, Deduct	-0.17	
		For >500 To 1,000, Deduct	-0.35	
		For >1,000 To 2,000, Deduct	-0.52	
		For >2,000 To 5,000, Deduct	-0.70	
		For >5,000, Deduct	-0.87	
33 01 30 41-0030		Hydro Jet Cleaning Of Culverts (33 01 30 41-0002)		
33 01 30 41-0031	LF	Jet Cleaning Of Culvert, 0-250 LF.....	19.33	
		For >250 To 500, Deduct	-0.97	
		For >500 To 1,000, Deduct	-1.93	
		For >1,000 To 2,000, Deduct	-2.90	
		For >2,000 To 5,000, Deduct	-3.87	
		For >5,000, Deduct	-4.83	
33 01 30 41-0032		Pipe Line Cleaning, Mechanical Method (33 01 30 41-0001)		
		Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0033	EA	Initial Set-up And Final Equipment Removal For Mechanical Cleaning.....	1,414.97	
33 01 30 41-0034	EA	Move And Set-up At Different Access/Location For Mechanical Cleaning.....	471.65	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0035 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	8.18	
For>250 To 500, Deduct	-0.39	
For>500 To 1,000, Deduct	-0.79	
For>1,000 To 2,000, Deduct	-1.18	
For>2,000 To 5,000, Deduct	-1.57	
For>5,000, Deduct	-1.97	
33 01 30 41-0036 LF 6" Diameter Pipe Line Cleaning, Mechanical Method	10.75	
For>250 To 500, Deduct	-0.51	
For>500 To 1,000, Deduct	-1.01	
For>1,000 To 2,000, Deduct	-1.52	
For>2,000 To 5,000, Deduct	-2.02	
For>5,000, Deduct	-2.53	
33 01 30 41-0037 LF 8" Diameter Pipe Line Cleaning, Mechanical Method	12.58	
For>250 To 500, Deduct	-0.59	
For>500 To 1,000, Deduct	-1.18	
For>1,000 To 2,000, Deduct	-1.77	
For>2,000 To 5,000, Deduct	-2.36	
For>5,000, Deduct	-2.95	
33 01 30 41-0038 LF 10" Diameter Pipe Line Cleaning, Mechanical Method	14.56	
For>250 To 500, Deduct	-0.68	
For>500 To 1,000, Deduct	-1.36	
For>1,000 To 2,000, Deduct	-2.04	
For>2,000 To 5,000, Deduct	-2.72	
For>5,000, Deduct	-3.40	
33 01 30 41-0039 LF 12" Diameter Pipe Line Cleaning, Mechanical Method	15.85	
For>250 To 500, Deduct	-0.74	
For>500 To 1,000, Deduct	-1.47	
For>1,000 To 2,000, Deduct	-2.21	
For>2,000 To 5,000, Deduct	-2.95	
For>5,000, Deduct	-3.69	
33 01 30 41-0040 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method	18.27	
For>250 To 500, Deduct	-0.84	
For>500 To 1,000, Deduct	-1.68	
For>1,000 To 2,000, Deduct	-2.53	
For>2,000 To 5,000, Deduct	-3.37	
For>5,000, Deduct	-4.21	
33 01 30 41-0041 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method	23.04	
For>250 To 500, Deduct	-1.04	
For>500 To 1,000, Deduct	-2.08	
For>1,000 To 2,000, Deduct	-3.12	
For>2,000 To 5,000, Deduct	-4.16	
For>5,000, Deduct	-5.20	
33 01 30 41-0042 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method	26.38	
For>250 To 500, Deduct	-1.16	
For>500 To 1,000, Deduct	-2.32	
For>1,000 To 2,000, Deduct	-3.48	
For>2,000 To 5,000, Deduct	-4.64	
For>5,000, Deduct	-5.80	
33 01 30 41-0043 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method	30.66	
For>250 To 500, Deduct	-1.33	
For>500 To 1,000, Deduct	-2.67	
For>1,000 To 2,000, Deduct	-4.00	
For>2,000 To 5,000, Deduct	-5.34	
For>5,000, Deduct	-6.67	
33 01 30 41-0044 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method	40.15	
For>250 To 500, Deduct	-1.77	
For>500 To 1,000, Deduct	-3.54	
For>1,000 To 2,000, Deduct	-5.31	
For>2,000 To 5,000, Deduct	-7.08	
For>5,000, Deduct	-8.85	
33 01 30 41-0045 LF >60" Diameter Pipe Line Cleaning, Mechanical Method	45.67	
For>250 To 500, Deduct	-1.97	
For>500 To 1,000, Deduct	-3.93	
For>1,000 To 2,000, Deduct	-5.90	
For>2,000 To 5,000, Deduct	-7.86	
For>5,000, Deduct	-9.83	
33 01 30 41-0046 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)		
33 01 30 41-0047 EA Initial Set-up And Final Equipment Removal For Auguring	1,414.97	
33 01 30 41-0048 EA Move And Set-up At Different Location For Auguring	471.65	
33 01 30 41-0049 LF Up To 4" Diameter Pipe Line Auguring/Rod Out	4.72	
For>250 To 500, Deduct	-0.24	
For>500 To 1,000, Deduct	-0.47	
For>1,000 To 2,000, Deduct	-0.71	
For>2,000 To 5,000, Deduct	-0.94	
For>5,000, Deduct	-1.18	
33 01 30 41-0050 LF 6" Diameter Pipe Line Auguring/Rod Out	6.09	
For>250 To 500, Deduct	-0.30	
For>500 To 1,000, Deduct	-0.61	
For>1,000 To 2,000, Deduct	-0.91	
For>2,000 To 5,000, Deduct	-1.22	
For>5,000, Deduct	-1.52	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0051	LF	8" Diameter Pipe Line Auguring/Rod Out	7.08	
		For >250 To 500, Deduct	-0.35	
		For >500 To 1,000, Deduct	-0.71	
		For >1,000 To 2,000, Deduct	-1.06	
		For >2,000 To 5,000, Deduct	-1.42	
		For >5,000, Deduct	-1.77	
33 01 30 41-0052	LF	10" Diameter Pipe Line Auguring/Rod Out	8.23	
		For >250 To 500, Deduct	-0.41	
		For >500 To 1,000, Deduct	-0.82	
		For >1,000 To 2,000, Deduct	-1.23	
		For >2,000 To 5,000, Deduct	-1.65	
		For >5,000, Deduct	-2.06	
33 01 30 41-0053	LF	12" Diameter Pipe Line Auguring/Rod Out	8.84	
		For >250 To 500, Deduct	-0.44	
		For >500 To 1,000, Deduct	-0.88	
		For >1,000 To 2,000, Deduct	-1.33	
		For >2,000 To 5,000, Deduct	-1.77	
		For >5,000, Deduct	-2.21	
33 01 30 41-0054	LF	>12" To 16" Diameter Pipe Line Auguring/Rod Out	10.11	
		For >250 To 500, Deduct	-0.51	
		For >500 To 1,000, Deduct	-1.01	
		For >1,000 To 2,000, Deduct	-1.52	
		For >2,000 To 5,000, Deduct	-2.02	
		For >5,000, Deduct	-2.53	
33 01 30 41-0055	LF	>16" To 24" Diameter Pipe Line Auguring/Rod Out	12.42	
		For >250 To 500, Deduct	-0.62	
		For >500 To 1,000, Deduct	-1.24	
		For >1,000 To 2,000, Deduct	-1.86	
		For >2,000 To 5,000, Deduct	-2.48	
		For >5,000, Deduct	-3.11	
33 01 30 41-0056	LF	>24" To 30" Diameter Pipe Line Auguring/Rod Out	13.88	
		For >250 To 500, Deduct	-0.69	
		For >500 To 1,000, Deduct	-1.39	
		For >1,000 To 2,000, Deduct	-2.08	
		For >2,000 To 5,000, Deduct	-2.78	
		For >5,000, Deduct	-3.47	
33 01 30 41-0057	LF	>30" To 42" Diameter Pipe Line Auguring/Rod Out	16.08	
		For >250 To 500, Deduct	-0.80	
		For >500 To 1,000, Deduct	-1.61	
		For >1,000 To 2,000, Deduct	-2.41	
		For >2,000 To 5,000, Deduct	-3.22	
		For >5,000, Deduct	-4.02	
33 01 30 41-0058	LF	>42 To 60" Diameter Pipe Line Auguring/Rod Out	22.10	
		For >250 To 500, Deduct	-1.11	
		For >500 To 1,000, Deduct	-2.21	
		For >1,000 To 2,000, Deduct	-3.32	
		For >2,000 To 5,000, Deduct	-4.42	
		For >5,000, Deduct	-5.53	
33 01 30 41-0059	LF	>60" Diameter Pipe Line Auguring/Rod Out	23.59	
		For >250 To 500, Deduct	-1.18	
		For >500 To 1,000, Deduct	-2.36	
		For >1,000 To 2,000, Deduct	-3.54	
		For >2,000 To 5,000, Deduct	-4.72	
		For >5,000, Deduct	-5.90	

33 01 30 42 Cleaning of Manholes (33 01 30)

33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)

Note: Includes flushing. Owner provided water.

33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)

33 01 30 42-0003	EA	Rod Out Waste Water Drain	55.90	
33 01 30 42-0004	EA	Rod Out Sewer Catch Basin	111.80	
33 01 30 42-0005	EA	Up To 6" Diameter Pipe, Rod Out Blockage	22.36	
33 01 30 42-0006	EA	8" Diameter Pipe, Rod Out Blockage	24.59	
33 01 30 42-0007	EA	10" Diameter Pipe, Rod Out Blockage	27.95	
33 01 30 42-0008	EA	12" Diameter Pipe, Rod Out Blockage	32.42	
33 01 30 42-0009	EA	>12" To 16" Diameter Pipe, Rod Out Blockage	38.01	
33 01 30 42-0010	EA	>16" To 24" Diameter Pipe, Rod Out Blockage	44.72	
33 01 30 42-0011	EA	>24" To 30" Diameter Pipe, Rod Out Blockage	52.55	
33 01 30 42-0012	EA	>30" To 42" Diameter Pipe, Rod Out Blockage	60.37	
33 01 30 42-0013	EA	>42" To 60" Diameter Pipe, Rod Out Blockage	70.43	
33 01 30 42-0014	EA	>60" Diameter Pipe, Rod Out Blockage	83.85	
33 01 30 42-0015	EA	Clean Out Debris From Entrance To Inlet Structure	279.51	
33 01 30 42-0016	EA	3' To 4' Diameter, Clean Out Blocked Manhole By Hand	1,046.25	
		For >10 To 100, Deduct	-156.94	
		For >100 To 250, Deduct	-235.41	
		For >250, Deduct	-313.88	
33 01 30 42-0017	EA	5' To 6' Diameter, Clean Out Blocked Manhole By Hand	1,255.49	
		For >10 To 100, Deduct	-188.32	
		For >100 To 250, Deduct	-282.49	
		For >250, Deduct	-376.65	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 42-0018 EA Clean Out Blocked Catch Basin By Hand.....	627.75	
For >10 To 100, Deduct	-94.16	
For >100 To 250, Deduct	-141.24	
For >250, Deduct	-188.33	
33 01 30 42-0019 Cleaning Manholes And Drainage Structures With Jet/Vacuum (33 01 30 42-0001)		
Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.		
33 01 30 42-0020 EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes.....	303.95	
33 01 30 42-0021 EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes.....	282.73	
33 01 30 42-0022 EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes.....	261.50	
33 01 30 42-0023 EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes.....	240.27	
33 01 30 42-0024 EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes.....	219.04	
33 01 30 42-0025 EA Jet/Vacuum Clean >250 Catch Basins Or Manholes.....	197.81	
33 01 30 43 Removal of Protruding Service Connection (33 01 30)		
33 01 30 43-0001 Trim Protruding Service Taps (33 01 30 43)		
33 01 30 43-0002 EA Trim Protruding Service Tap, 4", Robotic.....	766.01	
33 01 30 43-0003 EA Trim Protruding Service Tap, 6", Robotic.....	842.61	
33 01 30 43-0004 EA Trim Protruding Service Tap, 8", Robotic.....	919.21	
33 01 30 51 Maintenance of Utilities (33 01 30)		
33 01 30 51-0001 Pipe Repair (33 01 30 51)		
Note: Excludes excavation and backfill where required See CSI section 31 23 00 00-0000 for excavation and backfill.		
33 01 30 51-0002 Pipe Repair Clamp, Full Circle, Single Band (33 01 30 51-0001)		
Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0003 EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	129.53	
For Stainless Steel Nuts And Bolts, Add	20.64	
33 01 30 51-0004 EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	183.47	
For Stainless Steel Nuts And Bolts, Add	31.10	
33 01 30 51-0005 EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	211.73	
For Stainless Steel Nuts And Bolts, Add	36.63	
33 01 30 51-0006 EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	241.09	
For Stainless Steel Nuts And Bolts, Add	42.14	
33 01 30 51-0007 EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	139.67	
For Stainless Steel Nuts And Bolts, Add	22.41	
33 01 30 51-0008 EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	194.96	
For Stainless Steel Nuts And Bolts, Add	33.19	
33 01 30 51-0009 EA 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	223.26	
For Stainless Steel Nuts And Bolts, Add	38.59	
33 01 30 51-0010 EA 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	257.82	
For Stainless Steel Nuts And Bolts, Add	45.15	
33 01 30 51-0011 EA 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	150.04	
For Stainless Steel Nuts And Bolts, Add	24.52	
33 01 30 51-0012 EA 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	202.73	
For Stainless Steel Nuts And Bolts, Add	34.70	
33 01 30 51-0013 EA 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	234.18	
For Stainless Steel Nuts And Bolts, Add	40.68	
33 01 30 51-0014 EA 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	272.72	
For Stainless Steel Nuts And Bolts, Add	48.30	
33 01 30 51-0015 EA 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	168.96	
For Stainless Steel Nuts And Bolts, Add	27.88	
33 01 30 51-0016 EA 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	222.91	
For Stainless Steel Nuts And Bolts, Add	37.53	
33 01 30 51-0017 EA 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	270.26	
For Stainless Steel Nuts And Bolts, Add	45.68	
33 01 30 51-0018 EA 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	325.57	
For Stainless Steel Nuts And Bolts, Add	55.11	
33 01 30 51-0019 EA 4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	424.99	
For Stainless Steel Nuts And Bolts, Add	74.02	
33 01 30 51-0020 EA 4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	528.43	
For Stainless Steel Nuts And Bolts, Add	92.93	
33 01 30 51-0021 EA 4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	644.46	
For Stainless Steel Nuts And Bolts, Add	113.99	
33 01 30 51-0022 EA 6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	198.57	
For Stainless Steel Nuts And Bolts, Add	32.90	
33 01 30 51-0023 EA 6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	263.45	
For Stainless Steel Nuts And Bolts, Add	44.63	
33 01 30 51-0024 EA 6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	312.10	
For Stainless Steel Nuts And Bolts, Add	52.62	
33 01 30 51-0025 EA 6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	365.83	
For Stainless Steel Nuts And Bolts, Add	61.15	
33 01 30 51-0026 EA 6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	505.22	
For Stainless Steel Nuts And Bolts, Add	88.61	
33 01 30 51-0027 EA 6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	614.19	
For Stainless Steel Nuts And Bolts, Add	108.06	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0028	EA	6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	733.56 129.12	
33 01 30 51-0029	EA	8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	259.98 39.36	
33 01 30 51-0030	EA	8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	337.50 52.08	
33 01 30 51-0031	EA	8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	407.30 63.02	
33 01 30 51-0032	EA	8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	486.46 75.10	
33 01 30 51-0033	EA	8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	644.50 104.04	
33 01 30 51-0034	EA	8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	770.84 124.41	
33 01 30 51-0035	EA	8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	913.22 146.43	
33 01 30 51-0036	EA	10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	303.79 47.90	
33 01 30 51-0037	EA	10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	407.48 66.26	
33 01 30 51-0038	EA	10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	480.12 77.47	
33 01 30 51-0039	EA	10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	588.78 95.82	
33 01 30 51-0040	EA	10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	771.68 129.97	
33 01 30 51-0041	EA	10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	879.27 145.27	
33 01 30 51-0042	EA	10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,129.82 191.65	
33 01 30 51-0043	EA	12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	345.98 54.03	
33 01 30 51-0044	EA	12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	451.27 71.86	
33 01 30 51-0045	EA	12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	544.67 86.96	
33 01 30 51-0046	EA	12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	669.72 108.06	
33 01 30 51-0047	EA	12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	860.44 142.72	
33 01 30 51-0048	EA	12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,012.31 166.67	
33 01 30 51-0049	EA	12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,285.01 216.11	
33 01 30 51-0050		Pipe Repair Clamp, Full Circle, Double Bands (33 01 30 51-0001) Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0051	EA	14.38" To 15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	762.50 207.89	
33 01 30 51-0052	EA	14.38" To 15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,079.62 300.12	
33 01 30 51-0053	EA	14.38" To 15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,453.05 407.00	
33 01 30 51-0054	EA	14.38" To 15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,136.85 613.43	
33 01 30 51-0055	EA	15.07" To 15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	800.36 218.12	
33 01 30 51-0056	EA	15.07" To 15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,130.20 314.03	
33 01 30 51-0057	EA	15.07" To 15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,517.49 424.56	
33 01 30 51-0058	EA	15.07" To 15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,240.13 642.70	
33 01 30 51-0059	EA	15.92" To 16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	821.08 222.53	
33 01 30 51-0060	EA	15.92" To 16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,157.44 319.90	
33 01 30 51-0061	EA	15.92" To 16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,557.71 434.08	
33 01 30 51-0062	EA	15.92" To 16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,297.68 656.60	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0063	EA	16.56" To 17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	842.89	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	226.92	
33 01 30 51-0064	EA	16.56" To 17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,188.48	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	326.48	
33 01 30 51-0065	EA	16.56" To 17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,596.93	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	442.13	
33 01 30 51-0066	EA	16.56" To 17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,355.33	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	669.79	
33 01 30 51-0067	EA	17.15" To 17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	862.56	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	230.58	
33 01 30 51-0068	EA	17.15" To 17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,215.18	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	331.60	
33 01 30 51-0069	EA	17.15" To 17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,636.14	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	450.18	
33 01 30 51-0070	EA	17.15" To 17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,407.64	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	680.76	
33 01 30 51-0071	EA	17.82" To 18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	881.11	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	234.25	
33 01 30 51-0072	EA	17.82" To 18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,242.41	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	337.45	
33 01 30 51-0073	EA	17.82" To 18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,671.03	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	457.50	
33 01 30 51-0074	EA	17.82" To 18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,441.51	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	686.25	
33 01 30 51-0075	EA	18.46" To 19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	902.29	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	238.81	
33 01 30 51-0076	EA	18.46" To 19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,274.49	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	344.77	
33 01 30 51-0077	EA	18.46" To 19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,708.00	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	465.55	
33 01 30 51-0078	EA	18.46" To 19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,515.26	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	705.65	
33 01 30 51-0079		Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080		Compression Couplings And Fittings For Copper Pipe (33 01 30 51-0079) Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081		Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082	EA	1/2" Copper Compression Repair Coupling.....	77.83	
33 01 30 51-0083	EA	3/4" Copper Compression Repair Coupling.....	90.65	
33 01 30 51-0084	EA	1" Copper Compression Repair Coupling.....	106.53	
33 01 30 51-0085	EA	1-1/4" Copper Compression Repair Coupling.....	119.90	
33 01 30 51-0086	EA	1-1/2" Copper Compression Repair Coupling.....	183.88	
33 01 30 51-0087		Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088	EA	1/2" Copper Compression Repair 90 Degree Elbow.....	92.92	
33 01 30 51-0089	EA	1" Copper Compression Repair 90 Degree Elbow.....	108.69	
33 01 30 51-0090	EA	1-1/2" Copper Compression Repair 90 Degree Elbow.....	218.19	
33 01 30 51-0091	EA	1" IPS x 1" CTS 90 Degree Plain End Street Elbow.....	88.48	
33 01 30 51-0092	EA	3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow.....	79.34	
33 01 30 51-0093	EA	1" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....	92.86	
33 01 30 51-0094	EA	1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....	114.45	
33 01 30 51-0095		Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096	EA	1/2" Copper Compression Repair Tee.....	169.46	
33 01 30 51-0097	EA	3/4" Copper Compression Repair Tee.....	133.28	
33 01 30 51-0098	EA	1" Copper Compression Repair Tee.....	158.23	
33 01 30 51-0099	EA	1" F x 1" M x 1" CTS Street Tee.....	131.48	
33 01 30 51-0100		Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101	EA	3/4" M x 1/2" CTS Male Adapter.....	80.20	
33 01 30 51-0102	EA	3/4" M x 3/4" CTS Male Adapter.....	65.03	
33 01 30 51-0103	EA	1" M x 1" CTS Male Adapter.....	74.49	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0104	EA	1-1/4" M x 1" CTS Male Adapter.....	91.15	
33 01 30 51-0105	EA	1-1/4" M x 1-1/4" CTS Male Adapter.....	108.12	
33 01 30 51-0106	EA	1-1/2" M x 1" CTS Male Adapter.....	118.32	
33 01 30 51-0107		Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
33 01 30 51-0108	EA	3/4" M x 3/4" CTS Female Adapter.....	93.69	
33 01 30 51-0109	EA	1" M x 1" CTS Female Adapter.....	99.90	
33 01 30 51-0110		Couplings For Steel Pipe (33 01 30 51-0079)		
Note: Includes Buna S gasket, Dresser style 38				
33 01 30 51-0111	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket.....	74.75	
33 01 30 51-0112	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket.....	91.82	
33 01 30 51-0113	EA	1" Coupling, 5" Middle Ring With Buna S Gasket.....	104.60	
33 01 30 51-0114	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket.....	123.60	
33 01 30 51-0115	EA	2" Coupling, 4" Middle Ring With Buna S Gasket.....	152.90	
33 01 30 51-0116	EA	2" Coupling, 5" Middle Ring With Buna S Gasket.....	207.78	
33 01 30 51-0117	EA	2" Coupling, 7" Middle Ring With Buna S Gasket.....	194.12	
33 01 30 51-0118	EA	3" Coupling, 4" Middle Ring With Buna S Gasket.....	251.70	
33 01 30 51-0119	EA	3" Coupling, 5" Middle Ring With Buna S Gasket.....	259.96	
33 01 30 51-0120	EA	3" Coupling, 7" Middle Ring With Buna S Gasket.....	268.23	
33 01 30 51-0121	EA	4" Coupling, 4" Middle Ring With Buna S Gasket.....	289.14	
33 01 30 51-0122	EA	4" Coupling, 5" Middle Ring With Buna S Gasket.....	303.17	
33 01 30 51-0123	EA	4" Coupling, 7" Middle Ring With Buna S Gasket.....	320.75	
33 01 30 51-0124	EA	5" Coupling, 4" Middle Ring With Buna S Gasket.....	376.91	
33 01 30 51-0125	EA	5" Coupling, 5" Middle Ring With Buna S Gasket.....	382.45	
33 01 30 51-0126	EA	5" Coupling, 7" Middle Ring With Buna S Gasket.....	402.62	
33 01 30 51-0127	EA	6" Coupling, 4" Middle Ring With Buna S Gasket.....	399.34	
33 01 30 51-0128	EA	6" Coupling, 5" Middle Ring With Buna S Gasket.....	414.32	
33 01 30 51-0129	EA	6" Coupling, 7" Middle Ring With Buna S Gasket.....	433.46	
33 01 30 51-0130	EA	8" Coupling, 4" Middle Ring With Buna S Gasket.....	465.47	
33 01 30 51-0131	EA	8" Coupling, 5" Middle Ring With Buna S Gasket.....	487.62	
33 01 30 51-0132	EA	8" Coupling, 7" Middle Ring With Buna S Gasket.....	505.80	
33 01 30 51-0133	EA	10" Coupling, 5" Middle Ring With Buna S Gasket.....	578.21	
33 01 30 51-0134	EA	10" Coupling, 7" Middle Ring With Buna S Gasket.....	682.76	
33 01 30 51-0135	EA	12" Coupling, 5" Middle Ring With Buna S Gasket.....	657.49	
33 01 30 51-0136	EA	12" Coupling, 7" Middle Ring With Buna S Gasket.....	879.11	
33 01 30 51-0137	EA	14" Coupling, 7" Middle Ring With Buna S Gasket.....	1,020.00	
33 01 30 51-0138	EA	16" Coupling, 7" Middle Ring With Buna S Gasket.....	1,226.29	
33 01 30 51-0139	EA	18" Coupling, 7" Middle Ring With Buna S Gasket.....	1,350.52	
33 01 30 51-0140	EA	20" Coupling, 7" Middle Ring With Buna S Gasket.....	1,458.22	
33 01 30 51-0141	EA	22" Coupling, 7" Middle Ring With Buna S Gasket.....	1,842.79	
33 01 30 51-0142	EA	24" Coupling, 7" Middle Ring With Buna S Gasket.....	1,938.10	
33 01 30 51-0143		Couplings For Steel Pipe (33 01 30 51-0079)		
Note: Includes Buna S gasket, protected. Dresser style 38.				
33 01 30 51-0144	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	77.12	
33 01 30 51-0145	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	91.49	
33 01 30 51-0146	EA	1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	104.46	
33 01 30 51-0147	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	122.50	
33 01 30 51-0148	EA	2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	184.43	
33 01 30 51-0149	EA	2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	180.09	
33 01 30 51-0150	EA	2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	182.26	
33 01 30 51-0151	EA	3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	268.23	
33 01 30 51-0152	EA	3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	276.49	
33 01 30 51-0153	EA	3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	284.76	
33 01 30 51-0154	EA	4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	311.66	
33 01 30 51-0155	EA	4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	297.10	
33 01 30 51-0156	EA	4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	304.76	
33 01 30 51-0157	EA	5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	405.92	
33 01 30 51-0158	EA	5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	409.97	
33 01 30 51-0159	EA	5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	597.44	
33 01 30 51-0160	EA	6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	408.21	
33 01 30 51-0161	EA	6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	429.72	
33 01 30 51-0162	EA	6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	438.02	
33 01 30 51-0163	EA	8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	513.55	
33 01 30 51-0164	EA	8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	521.71	
33 01 30 51-0165	EA	8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	534.87	
33 01 30 51-0166	EA	10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	598.04	
33 01 30 51-0167	EA	10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	703.42	
33 01 30 51-0168	EA	12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	678.16	
33 01 30 51-0169	EA	12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	899.32	
33 01 30 51-0170	EA	14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,040.67	
33 01 30 51-0171	EA	16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,257.28	
33 01 30 51-0172	EA	18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,391.85	
33 01 30 51-0173	EA	20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,499.55	
33 01 30 51-0174	EA	22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,884.11	
33 01 30 51-0175	EA	24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,979.42	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 51-0176**Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes Buna N gasket, protected. Dresser style 38.

33 01 30 51-0177	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected	91.81
33 01 30 51-0178	EA	3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected	106.45
33 01 30 51-0179	EA	1" Coupling, 5" Middle Ring With Buna N Gasket, Protected	122.00
33 01 30 51-0180	EA	1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected	145.29
33 01 30 51-0181	EA	2" Coupling, 4" Middle Ring With Buna N Gasket, Protected	184.43
33 01 30 51-0182	EA	2" Coupling, 5" Middle Ring With Buna N Gasket, Protected	221.33
33 01 30 51-0183	EA	2" Coupling, 7" Middle Ring With Buna N Gasket, Protected	233.60
33 01 30 51-0184	EA	3" Coupling, 4" Middle Ring With Buna N Gasket, Protected	268.23
33 01 30 51-0185	EA	3" Coupling, 5" Middle Ring With Buna N Gasket, Protected	276.49
33 01 30 51-0186	EA	3" Coupling, 7" Middle Ring With Buna N Gasket, Protected	284.76
33 01 30 51-0187	EA	4" Coupling, 4" Middle Ring With Buna N Gasket, Protected	311.66
33 01 30 51-0188	EA	4" Coupling, 5" Middle Ring With Buna N Gasket, Protected	341.13
33 01 30 51-0189	EA	4" Coupling, 7" Middle Ring With Buna N Gasket, Protected	352.32
33 01 30 51-0190	EA	5" Coupling, 4" Middle Ring With Buna N Gasket, Protected	405.92
33 01 30 51-0191	EA	5" Coupling, 5" Middle Ring With Buna N Gasket, Protected	409.97
33 01 30 51-0192	EA	5" Coupling, 7" Middle Ring With Buna N Gasket, Protected	457.29
33 01 30 51-0193	EA	6" Coupling, 4" Middle Ring With Buna N Gasket, Protected	408.21
33 01 30 51-0194	EA	6" Coupling, 5" Middle Ring With Buna N Gasket, Protected	429.72
33 01 30 51-0195	EA	6" Coupling, 7" Middle Ring With Buna N Gasket, Protected	438.02
33 01 30 51-0196	EA	8" Coupling, 4" Middle Ring With Buna N Gasket, Protected	513.55
33 01 30 51-0197	EA	8" Coupling, 5" Middle Ring With Buna N Gasket, Protected	521.71
33 01 30 51-0198	EA	8" Coupling, 7" Middle Ring With Buna N Gasket, Protected	534.87
33 01 30 51-0199	EA	10" Coupling, 5" Middle Ring With Buna N Gasket, Protected	598.04
33 01 30 51-0200	EA	10" Coupling, 7" Middle Ring With Buna N Gasket, Protected	703.42
33 01 30 51-0201	EA	12" Coupling, 5" Middle Ring With Buna N Gasket, Protected	678.16
33 01 30 51-0202	EA	12" Coupling, 7" Middle Ring With Buna N Gasket, Protected	899.32
33 01 30 51-0203	EA	14" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,040.67
33 01 30 51-0204	EA	16" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,226.29
33 01 30 51-0205	EA	18" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,391.85
33 01 30 51-0206	EA	20" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,499.55
33 01 30 51-0207	EA	22" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,884.11
33 01 30 51-0208	EA	24" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,979.42

33 01 30 51-0209**Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes high temperature carded glass gasket, protected. Dresser style 38.

33 01 30 51-0210	EA	3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	158.29
33 01 30 51-0211	EA	1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	169.40
33 01 30 51-0212	EA	1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	174.20
33 01 30 51-0213	EA	2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	271.83
33 01 30 51-0214	EA	2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	294.43
33 01 30 51-0215	EA	2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	305.94
33 01 30 51-0216	EA	3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	347.88
33 01 30 51-0217	EA	3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	345.28
33 01 30 51-0218	EA	4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	382.45
33 01 30 51-0219	EA	4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	393.65
33 01 30 51-0220	EA	5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	538.28
33 01 30 51-0221	EA	5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	553.14
33 01 30 51-0222	EA	6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	569.93
33 01 30 51-0223	EA	6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	579.78
33 01 30 51-0224	EA	8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	584.44
33 01 30 51-0225	EA	8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	732.31
33 01 30 51-0226	EA	8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	792.62
33 01 30 51-0227	EA	10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	803.81
33 01 30 51-0228	EA	10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	803.61
33 01 30 51-0229	EA	12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	1,030.10
33 01 30 51-0230	EA	12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,075.52
33 01 30 51-0231	EA	14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,248.19
33 01 30 51-0232	EA	16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,577.17
33 01 30 51-0233	EA	18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,532.34
33 01 30 51-0234	EA	20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,712.36
33 01 30 51-0235	EA	22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,857.25
33 01 30 51-0236	EA	24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	2,020.74

33 01 30 51-0237**Compression Couplings And Fittings For Steel Pipe, Cast Body (33 01 30 51-0079)**

Note: Includes gaskets. Dresser style 90.

33 01 30 51-0238**Compression Couplings For Steel Pipe, Cast Body (33 01 30 51-0237)**

Note: Includes gaskets.

33 01 30 51-0239	EA	1/2" Cast Body, Compression Coupling, 5" Middle Ring	77.42
33 01 30 51-0240	EA	3/4" Cast Body, Compression Coupling, 5" Middle Ring	76.92
33 01 30 51-0241	EA	1" Cast Body, Compression Coupling, 5" Middle Ring	86.23
33 01 30 51-0242	EA	1-1/4" Cast Body, Compression Coupling, 5" Middle Ring	95.64
33 01 30 51-0243	EA	1-1/2" Cast Body, Compression Coupling, 5" Middle Ring	118.03
33 01 30 51-0244	EA	2" Cast Body, Compression Coupling, 5" Middle Ring	143.87
33 01 30 51-0245	EA	1/2" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	79.80
33 01 30 51-0246	EA	3/4" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	79.54



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0247	EA	1" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	86.62	
33 01 30 51-0248	EA	1-1/4" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	96.86	
33 01 30 51-0249	EA	1-1/2" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	122.02	
33 01 30 51-0250	EA	2" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	145.63	
33 01 30 51-0251	EA	3/4" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	158.49	
33 01 30 51-0252	EA	1" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	185.44	
33 01 30 51-0253	EA	1-1/4" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	191.76	
33 01 30 51-0254	EA	1-1/2" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	213.94	
33 01 30 51-0255	EA	2" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	260.63	
33 01 30 51-0256 Compression Reducing Couplings For Steel Pipe (33 01 30 51-0237)				
Note: Includes armored gaskets.				
33 01 30 51-0257	EA	3/4" x 1/2" Compression Reducing Coupling	84.85	
33 01 30 51-0258	EA	1" x 3/4" Compression Reducing Coupling	88.81	
33 01 30 51-0259	EA	1-1/4" x 3/4" Compression Reducing Coupling	99.98	
33 01 30 51-0260	EA	1-1/4" x 1" Compression Reducing Coupling	104.36	
33 01 30 51-0261	EA	1-1/2" x 3/4" Compression Reducing Coupling	209.56	
33 01 30 51-0262	EA	1-1/2" x 1" Compression Reducing Coupling	124.83	
33 01 30 51-0263	EA	1-1/2" x 1-1/4" Compression Reducing Coupling	125.45	
33 01 30 51-0264	EA	2" x 3/4" Compression Reducing Coupling	250.20	
33 01 30 51-0265	EA	2" x 1" Compression Reducing Coupling	225.86	
33 01 30 51-0266	EA	2" x 1-1/4" Compression Reducing Coupling	167.94	
33 01 30 51-0267	EA	2" x 1-1/2" Compression Reducing Coupling	167.30	
33 01 30 51-0268 Steel Compression Repair Fittings, Elbows (33 01 30 51-0237)				
Note: Includes armored gaskets.				
33 01 30 51-0269	EA	1" Compression 45 Degree Elbow	144.68	
33 01 30 51-0270	EA	1-1/4" Compression 45 Degree Elbow	149.63	
33 01 30 51-0271	EA	1-1/2" Compression 45 Degree Elbow	193.82	
33 01 30 51-0272	EA	2" Compression 45 Degree Elbow	245.65	
33 01 30 51-0273	EA	3/4" Compression 90 Degree Elbow	94.95	
33 01 30 51-0274	EA	1" Compression 90 Degree Elbow	97.26	
33 01 30 51-0275	EA	1-1/4" Compression 90 Degree Elbow	114.21	
33 01 30 51-0276	EA	1-1/2" Compression 90 Degree Elbow	165.10	
33 01 30 51-0277	EA	2" Compression 90 Degree Elbow	179.25	
33 01 30 51-0278	EA	3/4" Plain End Compression 90 Degree Street Elbow	95.28	
33 01 30 51-0279	EA	1" Plain End Compression 90 Degree Street Elbow	81.47	
33 01 30 51-0280	EA	1-1/4" Plain End Compression 90 Degree Street Elbow	91.88	
33 01 30 51-0281	EA	1-1/2" Plain End Compression 90 Degree Street Elbow	116.40	
33 01 30 51-0282	EA	2" Plain End Compression 90 Degree Street Elbow	151.70	
33 01 30 51-0283	EA	3/4" Threaded End Compression 90 Degree Street Elbow	98.71	
33 01 30 51-0284	EA	1" Threaded End Compression 90 Degree Street Elbow	87.90	
33 01 30 51-0285	EA	1-1/4" Threaded End Compression 90 Degree Street Elbow	115.74	
33 01 30 51-0286	EA	1-1/2" Threaded End Compression 90 Degree Street Elbow	139.17	
33 01 30 51-0287	EA	2" Threaded End Compression 90 Degree Street Elbow	200.40	
33 01 30 51-0288 Steel Compression Repair Fittings, Tees (33 01 30 51-0237)				
Note: Includes armored gaskets.				
33 01 30 51-0289	EA	3/4" Compression Street Tee	101.01	
33 01 30 51-0290	EA	1" Compression Street Tee	119.03	
33 01 30 51-0291	EA	1-1/4" Compression Street Tee	118.31	
33 01 30 51-0292	EA	1-1/2" Compression Street Tee	134.97	
33 01 30 51-0293	EA	2" Compression Street Tee	210.91	
33 01 30 51-0294	EA	1-1/4" x 1-1/4" x 1" Compression Reducing Street Tee	117.07	
33 01 30 51-0295	EA	1-1/4" x 1" x 1-1/4" Compression Reducing Street Tee	123.29	
33 01 30 51-0296	EA	1-1/2" x 1-1/2" x 1" Compression Reducing Street Tee	154.46	
33 01 30 51-0297	EA	1-1/2" x 1-1/2" x 1-1/4" Compression Reducing Street Tee	182.56	
33 01 30 51-0298	EA	1-1/2" x 1" x 1-1/2" Compression Reducing Street Tee	183.80	
33 01 30 51-0299	EA	1-1/2" x 1-1/4" x 1-1/2" Compression Reducing Street Tee	151.81	
33 01 30 51-0300	EA	2" x 1-1/4" x 2" Compression Reducing Street Tee	204.84	
33 01 30 51-0301	EA	2" x 1-1/2" x 2" Compression Reducing Street Tee	236.06	
33 01 30 51-0302	EA	3/4" Welding Compression Street Tee	194.67	
33 01 30 51-0303	EA	1" Welding Compression Street Tee	193.17	
33 01 30 51-0304	EA	1-1/4" Welding Compression Street Tee	206.17	
33 01 30 51-0305	EA	1-1/2" Welding Compression Street Tee	247.35	
33 01 30 51-0306	EA	2" Welding Compression Street Tee	336.27	
33 01 30 51-0307	EA	3/4" Regular Compression Tee	140.19	
33 01 30 51-0308	EA	1" Regular Compression Tee	252.61	
33 01 30 51-0309	EA	1-1/4" Regular Compression Tee	265.49	
33 01 30 51-0310	EA	1-1/2" Regular Compression Tee	282.15	
33 01 30 51-0311	EA	2" Regular Compression Tee	310.98	
33 01 30 51-0312	EA	2" x 2" x 1-1/4" Regular Compression Reducing Tee	305.98	
33 01 30 51-0313 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0237)				
Note: Includes armored gaskets.				
33 01 30 51-0314	EA	3/4" Compression Male Adapter	94.66	
33 01 30 51-0315	EA	1" Compression Male Adapter	105.05	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0316 EA 1-1/4" Compression Male Adapter	138.55	
33 01 30 51-0317 EA 1-1/2" Compression Male Adapter	155.12	
33 01 30 51-0318 EA 2" Compression Male Adapter	174.02	
33 01 30 51-0319 EA 1" x 1-1/4" Compression Male Adapter	137.75	
33 01 30 51-0320 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0237)		
Note: Includes armored gaskets.		
33 01 30 51-0321 EA 3/4" Compression Line Caps	51.16	
33 01 30 51-0322 EA 1" Compression Line Caps	59.56	
33 01 30 51-0323 EA 1-1/4" Compression Line Caps	68.11	
33 01 30 51-0324 EA 1-1/2" Compression Line Caps	79.73	
33 01 30 51-0325 EA 2" Compression Line Caps	98.71	
33 01 30 51-0326 Grind Offset Joint (33 01 30 51-0001)		
33 01 30 51-0327 EA 6" To 10", Grind Drop Offset Joint	459.60	
33 01 30 51-0328 EA >10" To 15", Grind Drop Offset Joint	612.80	
33 01 30 51-0329 EA >15" To 24", Grind Drop Offset Joint	766.01	
33 01 30 51-0330 EA >24" To 30", Grind Drop Offset Joint	919.21	
33 01 30 51-0331 Pipe Plugging (33 01 30 51-0001)		
33 01 30 51-0332 Gravity Bladder Type, Temporary Pipe Plugging (33 01 30 51-0331)		
Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.		
33 01 30 51-0333 EA 3/4" Bladder Type, Temporary Pipe Plug	86.65	
33 01 30 51-0334 EA 1" Bladder Type, Temporary Pipe Plug	92.68	
33 01 30 51-0335 EA 1-1/4" Bladder Type, Temporary Pipe Plug	99.80	
33 01 30 51-0336 EA 1-1/2" Bladder Type, Temporary Pipe Plug	106.48	
33 01 30 51-0337 EA 2" Bladder Type, Temporary Pipe Plug	112.94	
33 01 30 51-0338 EA 2-1/2" Bladder Type, Temporary Pipe Plug	120.04	
33 01 30 51-0339 EA 3" Bladder Type, Temporary Pipe Plug	128.79	
33 01 30 51-0340 EA 4" Bladder Type, Temporary Pipe Plug	141.59	
33 01 30 51-0341 EA 5" Bladder Type, Temporary Pipe Plug	153.51	
33 01 30 51-0342 EA 6" Bladder Type, Temporary Pipe Plug	171.35	
33 01 30 51-0343 EA 8" Bladder Type, Temporary Pipe Plug	190.14	
33 01 30 51-0344 EA 10" Bladder Type, Temporary Pipe Plug	220.45	
33 01 30 51-0345 EA 12" Bladder Type, Temporary Pipe Plug	255.98	
33 01 30 51-0346 EA 14" Bladder Type, Temporary Pipe Plug	305.02	
33 01 30 51-0347 EA 16" Bladder Type, Temporary Pipe Plug	367.63	
33 01 30 51-0348 EA 18" Bladder Type, Temporary Pipe Plug	442.81	
33 01 30 51-0349 EA 20" Bladder Type, Temporary Pipe Plug	526.28	
33 01 30 51-0350 EA 24" Bladder Type, Temporary Pipe Plug	607.00	
33 01 30 51-0351 Hydra Stop, Hot Tapping Of Pressure Pipe (33 01 30 51-0331)		
Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.		
33 01 30 51-0352 EA 2" Hydra Stop, Line Stopper	2,960.06	
33 01 30 51-0353 EA 2-1/2" Hydra Stop, Line Stopper	3,714.22	
33 01 30 51-0354 EA 3" Hydra Stop, Line Stopper	4,553.26	
33 01 30 51-0355 EA 4" Hydra Stop, Line Stopper	5,495.69	
33 01 30 51-0356 EA 5" Hydra Stop, Line Stopper	6,197.60	
33 01 30 51-0357 EA 6" Hydra Stop, Line Stopper	7,318.48	
33 01 30 51-0358 EA 8" Hydra Stop, Line Stopper	8,020.42	
33 01 30 51-0359 EA 10" Hydra Stop, Line Stopper	9,141.25	
33 01 30 51-0360 EA 12" Hydra Stop, Line Stopper	10,262.15	
33 01 30 51-0361 EA 14" Hydra Stop, Line Stopper	11,453.75	
33 01 30 51-0362 EA 16" Hydra Stop, Line Stopper	13,069.84	
33 01 30 51-0363 EA 18" Hydra Stop, Line Stopper	14,898.11	
33 01 30 51-0364 EA 20" Hydra Stop, Line Stopper	17,716.62	
33 01 30 51-0365 Aluminum Expansion Plugs (33 01 30 51-0331)		
Note: For use with PVC, clay Or cast iron drainage pipe.		
33 01 30 51-0366 EA 3" Pipe Aluminum Expansion Plug	80.66	
33 01 30 51-0367 EA 4" Pipe Aluminum Expansion Plug	117.09	
33 01 30 51-0368 EA 5" Pipe Aluminum Expansion Plug	132.07	
33 01 30 51-0369 EA 6" Pipe Aluminum Expansion Plug	201.94	
33 01 30 51-0370 EA 8" Pipe Aluminum Expansion Plug	207.39	
33 01 30 51-0371 EA 10" Pipe Aluminum Expansion Plug	260.07	
33 01 30 51-0372 EA 12" Pipe Aluminum Expansion Plug	352.86	
33 01 30 51-0373 EA 14" Pipe Aluminum Expansion Plug	572.16	
33 01 30 51-0374 EA 15" Pipe Aluminum Expansion Plug	619.89	
33 01 30 51-0375 Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)		
33 01 30 51-0376 EA 1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	170.26	
33 01 30 51-0377 EA 3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long	170.85	
33 01 30 51-0378 EA 1" Diameter Pipe Clamp, Stainless Steel, 3" Long	172.34	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0379	EA	1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long	173.83	
33 01 30 51-0380	EA	1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	174.57	
33 01 30 51-0381	EA	2" Diameter Pipe Clamp, Stainless Steel, 3" Long	176.80	
33 01 30 51-0382	EA	2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	179.03	
33 01 30 51-0383	EA	3" Diameter Pipe Clamp, Stainless Steel, 3" Long	182.01	
33 01 30 51-0384	EA	4" Diameter Pipe Clamp, Stainless Steel, 3" Long	312.61	
33 01 30 51-0385	EA	6" Diameter Pipe Clamp, Stainless Steel, 3" Long	322.28	
33 01 30 51-0386	EA	8" Diameter Pipe Clamp, Stainless Steel, 3" Long	328.98	
33 01 30 51-0387	EA	10" Diameter Pipe Clamp, Stainless Steel, 3" Long	399.63	
33 01 30 51-0388	EA	12" Diameter Pipe Clamp, Stainless Steel, 3" Long	408.55	
33 01 30 51-0389	EA	14" Diameter Pipe Clamp, Stainless Steel, 3" Long	414.50	
33 01 30 51-0390	EA	16" Diameter Pipe Clamp, Stainless Steel, 3" Long	423.43	
33 01 30 51-0391	EA	18" Diameter Pipe Clamp, Stainless Steel, 3" Long	432.35	
33 01 30 51-0392	EA	20" Diameter Pipe Clamp, Stainless Steel, 3" Long	444.25	
33 01 30 51-0393	EA	24" Diameter Pipe Clamp, Stainless Steel, 3" Long	465.08	
33 01 30 51-0394 PolySeal Pipe Coupler (33 01 30 51-0001)				
33 01 30 51-0395	EA	18" Diameter Pipe, PolySeal Repair Couplers (MarMac)	352.26	
33 01 30 51-0396	EA	24" Diameter Pipe, PolySeal Repair Couplers (MarMac)	397.59	
33 01 30 63 Sewer and Pipe Joint Sealing (33 01 30)				
33 01 30 63-0001 Joint Air Test (33 01 30 63)				
33 01 30 63-0002	EA	4" To 8", Joint Air Test	103.56	
33 01 30 63-0003	EA	10" To 15", Joint Air Test	120.82	
33 01 30 63-0004	EA	>15" To 21", Joint Air Test	138.08	
33 01 30 63-0005	EA	>21" To 24", Joint Air Test	172.60	
33 01 30 63-0006	EA	>24" To 27", Joint Air Test	207.12	
33 01 30 63-0007	EA	>27" To 36", Joint Air Test	241.65	
33 01 30 63-0008 Joint Seal And Joint Air Retest (33 01 30 63)				
Note: Includes grout.				
33 01 30 63-0009	EA	4" Joint Seal And Joint Air Retest	314.30	
Note: Includes up to 1 gallon of grout.				
33 01 30 63-0010	EA	6" Joint Seal And Joint Air Retest	348.82	
Note: Includes 1 gallon of grout.				
33 01 30 63-0011	EA	8" Joint Seal And Joint Air Retest	421.49	
Note: Includes 2 gallons of grout.				
33 01 30 63-0012	EA	10" Joint Seal And Joint Air Retest	475.09	
Note: Includes 2.5 gallons of grout.				
33 01 30 63-0013	EA	12" Joint Seal And Joint Air Retest	528.68	
Note: Includes 3 gallons of grout.				
33 01 30 63-0014	EA	15" Joint Seal And Joint Air Retest	626.32	
Note: Includes 3.75 gallons of grout.				
33 01 30 63-0015	EA	18" Joint Seal And Joint Air Retest	723.98	
Note: Includes 4.5 gallons of grout.				
33 01 30 63-0016	EA	21" Joint Seal And Joint Air Retest	821.62	
Note: Includes 5.25 gallons of grout.				
33 01 30 63-0017	EA	24" Joint Seal And Joint Air Retest	953.80	
Note: Includes 6 gallons of grout.				
33 01 30 63-0018	EA	27" Joint Seal And Joint Air Retest	1,085.96	
Note: Includes 6.75 gallons of grout.				
33 01 30 63-0019	EA	30" Joint Seal And Joint Air Retest	1,252.64	
Note: Includes 7.5 gallons of grout.				
33 01 30 63-0020	EA	36" Joint Seal And Joint Air Retest	1,447.94	
Note: Includes 9 gallons of grout.				
33 01 30 63-0021	GAL	Extra Grout Per Joint	176.22	
Note: For extra grout per joint required over listed amount.				
33 01 30 70 Rehabilitation of Sewer Utilities (33 01 30)				
33 01 30 70-0001 Cementitious Pipe Coatings By Hand (33 01 30 70)				
Note: To be used on repair areas to install the coating on the exposed portion of the pipe.				
33 01 30 70-0002	SF	Up To 1" Thick Cementitious Coating On Pipe, Troweled On	10.36	
33 01 30 70-0003	SF	>1" To 2" Thick Cementitious Coating On Pipe, Troweled On	15.78	
33 01 30 71 Relining Sewers (33 01 30)				
33 01 30 71-0001 Relining Underground Pipelines (33 01 30 71)				
Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hour response for owners' backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.				
33 01 30 71-0002 Polyvinyl Chloride (PVC) Liner Pipe (33 01 30 71-0001)				
Note: Sanitary and storm sewer trenchless slip-lining.				
33 01 30 71-0003	LF	12" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe	33.74	
33 01 30 71-0004	LF	15" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe	50.57	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0005	LF	18" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe.....	68.10	
33 01 30 71-0006	LF	21" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe.....	84.48	
33 01 30 71-0007	LF	24" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe.....	110.60	
33 01 30 71-0008	LF	27" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe.....	132.68	
33 01 30 71-0009	LF	30" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe.....	151.88	
33 01 30 71-0010	LF	36" A-2 Polyvinyl Chloride (PVC) Slip-Liner Pipe.....	216.67	
33 01 30 71-0011		25% Asphalt Paving In Pipe, Cold Applied, ASTM A849 (33 01 30 71-0001)		
		Note: Excludes costs for CCTV inspection, sewer cleaning, bypass pumping.		
33 01 30 71-0012	LF	12" Diameter Pipe, 25% Asphalt Paved.....	8.82	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	2.03	
		For >100 To 250 LF Total Relining (All Sizes), Add	1.63	
		For >250 To 500 LF Total Relining (All Sizes), Add	0.81	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-0.59	
		For >5,000 LF Total Relining (All Sizes), Deduct	-1.00	
33 01 30 71-0013	LF	15" Diameter Pipe, 25% Asphalt Paved.....	11.44	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	2.59	
		For >100 To 250 LF Total Relining (All Sizes), Add	2.07	
		For >250 To 500 LF Total Relining (All Sizes), Add	1.04	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-0.75	
		For >5,000 LF Total Relining (All Sizes), Deduct	-1.27	
33 01 30 71-0014	LF	18" Diameter Pipe, 25% Asphalt Paved.....	13.73	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	3.11	
		For >100 To 250 LF Total Relining (All Sizes), Add	2.49	
		For >250 To 500 LF Total Relining (All Sizes), Add	1.24	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-0.90	
		For >5,000 LF Total Relining (All Sizes), Deduct	-1.52	
33 01 30 71-0015	LF	21" Diameter Pipe, 25% Asphalt Paved.....	16.03	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	3.63	
		For >100 To 250 LF Total Relining (All Sizes), Add	2.90	
		For >250 To 500 LF Total Relining (All Sizes), Add	1.45	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-1.05	
		For >5,000 LF Total Relining (All Sizes), Deduct	-1.78	
33 01 30 71-0016	LF	24" Diameter Pipe, 25% Asphalt Paved.....	18.31	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	4.14	
		For >100 To 250 LF Total Relining (All Sizes), Add	3.32	
		For >250 To 500 LF Total Relining (All Sizes), Add	1.66	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-1.20	
		For >5,000 LF Total Relining (All Sizes), Deduct	-2.03	
33 01 30 71-0017	LF	30" Diameter Pipe, 25% Asphalt Paved.....	22.90	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	5.18	
		For >100 To 250 LF Total Relining (All Sizes), Add	4.15	
		For >250 To 500 LF Total Relining (All Sizes), Add	2.07	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-1.50	
		For >5,000 LF Total Relining (All Sizes), Deduct	-2.54	
33 01 30 71-0018	LF	36" Diameter Pipe, 25% Asphalt Paved.....	27.48	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	6.22	
		For >100 To 250 LF Total Relining (All Sizes), Add	4.98	
		For >250 To 500 LF Total Relining (All Sizes), Add	2.49	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-1.80	
		For >5,000 LF Total Relining (All Sizes), Deduct	-3.04	
33 01 30 71-0019	LF	42" Diameter Pipe, 25% Asphalt Paved.....	32.06	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	7.26	
		For >100 To 250 LF Total Relining (All Sizes), Add	5.81	
		For >250 To 500 LF Total Relining (All Sizes), Add	2.90	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-2.10	
		For >5,000 LF Total Relining (All Sizes), Deduct	-3.55	
33 01 30 71-0020	LF	48" Diameter Pipe, 25% Asphalt Paved.....	36.63	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	8.29	
		For >100 To 250 LF Total Relining (All Sizes), Add	6.63	
		For >250 To 500 LF Total Relining (All Sizes), Add	3.32	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-2.40	
		For >5,000 LF Total Relining (All Sizes), Deduct	-4.06	
33 01 30 71-0021	LF	54" Diameter Pipe, 25% Asphalt Paved.....	41.21	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	9.33	
		For >100 To 250 LF Total Relining (All Sizes), Add	7.46	
		For >250 To 500 LF Total Relining (All Sizes), Add	3.73	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-2.70	
		For >5,000 LF Total Relining (All Sizes), Deduct	-4.57	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 01 30 71-0022	LF	60" Diameter Pipe, 25% Asphalt Paved.....	45.80	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	10.37	
		For >100 To 250 LF Total Relining (All Sizes), Add	8.29	
		For >250 To 500 LF Total Relining (All Sizes), Add	4.15	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-3.00	
		For >5,000 LF Total Relining (All Sizes), Deduct	-5.07	
33 01 30 71-0023	LF	66" Diameter Pipe, 25% Asphalt Paved.....	50.37	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	11.40	
		For >100 To 250 LF Total Relining (All Sizes), Add	9.12	
		For >250 To 500 LF Total Relining (All Sizes), Add	4.56	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-3.30	
		For >5,000 LF Total Relining (All Sizes), Deduct	-5.58	
33 01 30 71-0024	LF	72" Diameter Pipe, 25% Asphalt Paved.....	54.94	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	12.43	
		For >100 To 250 LF Total Relining (All Sizes), Add	9.95	
		For >250 To 500 LF Total Relining (All Sizes), Add	4.97	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-3.60	
		For >5,000 LF Total Relining (All Sizes), Deduct	-6.09	
33 01 30 71-0025	LF	78" Diameter Pipe, 25% Asphalt Paved.....	59.53	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	13.47	
		For >100 To 250 LF Total Relining (All Sizes), Add	10.78	
		For >250 To 500 LF Total Relining (All Sizes), Add	5.39	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-3.90	
		For >5,000 LF Total Relining (All Sizes), Deduct	-6.60	
33 01 30 71-0026	LF	84" Diameter Pipe, 25% Asphalt Paved.....	64.11	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	14.51	
		For >100 To 250 LF Total Relining (All Sizes), Add	11.61	
		For >250 To 500 LF Total Relining (All Sizes), Add	5.80	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-4.20	
		For >5,000 LF Total Relining (All Sizes), Deduct	-7.10	
33 01 30 71-0027	LF	90" Diameter Pipe, 25% Asphalt Paved.....	68.69	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	15.55	
		For >100 To 250 LF Total Relining (All Sizes), Add	12.44	
		For >250 To 500 LF Total Relining (All Sizes), Add	6.22	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-4.50	
		For >5,000 LF Total Relining (All Sizes), Deduct	-7.61	
33 01 30 71-0028	LF	96" Diameter Pipe, 25% Asphalt Paved.....	73.26	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	16.58	
		For >100 To 250 LF Total Relining (All Sizes), Add	13.26	
		For >250 To 500 LF Total Relining (All Sizes), Add	6.63	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-4.80	
		For >5,000 LF Total Relining (All Sizes), Deduct	-8.12	
33 01 30 71-0029	LF	102" Diameter Pipe, 25% Asphalt Paved.....	77.84	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	17.62	
		For >100 To 250 LF Total Relining (All Sizes), Add	14.09	
		For >250 To 500 LF Total Relining (All Sizes), Add	7.05	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-5.10	
		For >5,000 LF Total Relining (All Sizes), Deduct	-8.62	
33 01 30 71-0030	LF	108" Diameter Pipe, 25% Asphalt Paved.....	82.43	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	18.66	
		For >100 To 250 LF Total Relining (All Sizes), Add	14.92	
		For >250 To 500 LF Total Relining (All Sizes), Add	7.46	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-5.40	
		For >5,000 LF Total Relining (All Sizes), Deduct	-9.13	
33 01 30 71-0031	LF	114" Diameter Pipe, 25% Asphalt Paved.....	87.00	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	19.69	
		For >100 To 250 LF Total Relining (All Sizes), Add	15.75	
		For >250 To 500 LF Total Relining (All Sizes), Add	7.88	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-5.70	
		For >5,000 LF Total Relining (All Sizes), Deduct	-9.64	
33 01 30 71-0032	LF	120" Diameter Pipe, 25% Asphalt Paved.....	91.58	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	20.73	
		For >100 To 250 LF Total Relining (All Sizes), Add	16.58	
		For >250 To 500 LF Total Relining (All Sizes), Add	8.29	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-6.00	
		For >5,000 LF Total Relining (All Sizes), Deduct	-10.15	
33 01 30 71-0033	LF	126" Diameter Pipe, 25% Asphalt Paved.....	96.17	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	21.77	
		For >100 To 250 LF Total Relining (All Sizes), Add	17.41	
		For >250 To 500 LF Total Relining (All Sizes), Add	8.71	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-6.30	
		For >5,000 LF Total Relining (All Sizes), Deduct	-10.65	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0034	LF	132" Diameter Pipe, 25% Asphalt Paved.....	100.74	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	22.80	
		For >100 To 250 LF Total Relining (All Sizes), Add	18.24	
		For >250 To 500 LF Total Relining (All Sizes), Add	9.12	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-6.60	
		For >5,000 LF Total Relining (All Sizes), Deduct	-11.16	
33 01 30 71-0035	LF	138" Diameter Pipe, 25% Asphalt Paved.....	105.33	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	23.84	
		For >100 To 250 LF Total Relining (All Sizes), Add	19.07	
		For >250 To 500 LF Total Relining (All Sizes), Add	9.54	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-6.90	
		For >5,000 LF Total Relining (All Sizes), Deduct	-11.67	
33 01 30 71-0036	LF	144" Diameter Pipe, 25% Asphalt Paved.....	109.92	
		Note: Cold applied to corrugated metal pipe.		
		For Up To 100 LF Total Relining (All Sizes), Add	24.88	
		For >100 To 250 LF Total Relining (All Sizes), Add	19.90	
		For >250 To 500 LF Total Relining (All Sizes), Add	9.95	
		For >2,500 To 5,000 LF Total Relining (All Sizes), Deduct	-7.20	
		For >5,000 LF Total Relining (All Sizes), Deduct	-12.18	
33 01 30 71-0037		Lining Pipe, Spray Applied With Structural Polyurethane (33 01 30 71-0001)		
		Note: Two part structural polyurethane.		
33 01 30 71-0038		Mobilization And Set-up For Spray Applied Structural Polyurethane Lining (33 01 30 71-0037)		
33 01 30 71-0039	EA	Initial Set-up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining	2,173.19	
33 01 30 71-0040		Lining Pipe, Spray Applied With 100 mil Structural Polyurethane (33 01 30 71-0037)		
		Note: Two part structural polyurethane.		
33 01 30 71-0041	LF	36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	64.96	
		For Up To 75, Add	14.16	
		For >75 To 150, Add	6.50	
		For >500 To 1,000, Deduct	-1.77	
		For >1,000 To 2,000, Deduct	-3.42	
		For >2,000 To 5,000, Deduct	-5.30	
		For >5,000, Deduct	-7.67	
33 01 30 71-0042	LF	42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	75.79	
		For Up To 75, Add	16.53	
		For >75 To 150, Add	7.58	
		For >500 To 1,000, Deduct	-2.06	
		For >1,000 To 2,000, Deduct	-3.99	
		For >2,000 To 5,000, Deduct	-6.19	
		For >5,000, Deduct	-8.95	
33 01 30 71-0043	LF	48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	86.62	
		For Up To 75, Add	18.89	
		For >75 To 150, Add	8.66	
		For >500 To 1,000, Deduct	-2.36	
		For >1,000 To 2,000, Deduct	-4.56	
		For >2,000 To 5,000, Deduct	-7.07	
		For >5,000, Deduct	-10.23	
33 01 30 71-0044	LF	54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	97.45	
		For Up To 75, Add	21.25	
		For >75 To 150, Add	9.75	
		For >500 To 1,000, Deduct	-2.65	
		For >1,000 To 2,000, Deduct	-5.13	
		For >2,000 To 5,000, Deduct	-7.96	
		For >5,000, Deduct	-11.50	
33 01 30 71-0045	LF	60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	108.28	
		For Up To 75, Add	23.61	
		For >75 To 150, Add	10.83	
		For >500 To 1,000, Deduct	-2.95	
		For >1,000 To 2,000, Deduct	-5.70	
		For >2,000 To 5,000, Deduct	-8.84	
		For >5,000, Deduct	-12.78	
33 01 30 71-0046	LF	66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	119.10	
		For Up To 75, Add	25.97	
		For >75 To 150, Add	11.91	
		For >500 To 1,000, Deduct	-3.24	
		For >1,000 To 2,000, Deduct	-6.27	
		For >2,000 To 5,000, Deduct	-9.72	
		For >5,000, Deduct	-14.06	
33 01 30 71-0047	LF	72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	129.93	
		For Up To 75, Add	28.33	
		For >75 To 150, Add	12.99	
		For >500 To 1,000, Deduct	-3.54	
		For >1,000 To 2,000, Deduct	-6.84	
		For >2,000 To 5,000, Deduct	-10.61	
		For >5,000, Deduct	-15.34	



		Utilities	33	33
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0048	LF		78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	140.75	
			For Up To 75, Add	30.69	
			For >75 To 150, Add	14.08	
			For >500 To 1,000, Deduct	-3.83	
			For >1,000 To 2,000, Deduct	-7.41	
			For >2,000 To 5,000, Deduct	-11.49	
			For >5,000, Deduct	-16.61	
33 01 30 71-0049	LF		84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	151.58	
			For Up To 75, Add	33.05	
			For >75 To 150, Add	15.16	
			For >500 To 1,000, Deduct	-4.13	
			For >1,000 To 2,000, Deduct	-7.98	
			For >2,000 To 5,000, Deduct	-12.38	
			For >5,000, Deduct	-17.89	
33 01 30 71-0050	LF		90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	162.40	
			For Up To 75, Add	35.41	
			For >75 To 150, Add	16.24	
			For >500 To 1,000, Deduct	-4.42	
			For >1,000 To 2,000, Deduct	-8.55	
			For >2,000 To 5,000, Deduct	-13.26	
			For >5,000, Deduct	-19.17	
33 01 30 71-0051	LF		96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	173.23	
			For Up To 75, Add	37.77	
			For >75 To 150, Add	17.32	
			For >500 To 1,000, Deduct	-4.71	
			For >1,000 To 2,000, Deduct	-9.12	
			For >2,000 To 5,000, Deduct	-14.14	
			For >5,000, Deduct	-20.45	
33 01 30 71-0052	LF		102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	184.06	
			For Up To 75, Add	40.13	
			For >75 To 150, Add	18.41	
			For >500 To 1,000, Deduct	-5.01	
			For >1,000 To 2,000, Deduct	-9.69	
			For >2,000 To 5,000, Deduct	-15.03	
			For >5,000, Deduct	-21.73	
33 01 30 71-0053	LF		108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	194.88	
			For Up To 75, Add	42.49	
			For >75 To 150, Add	19.49	
			For >500 To 1,000, Deduct	-5.30	
			For >1,000 To 2,000, Deduct	-10.26	
			For >2,000 To 5,000, Deduct	-15.91	
			For >5,000, Deduct	-23.00	
33 01 30 71-0054	LF		114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	205.71	
			For Up To 75, Add	44.85	
			For >75 To 150, Add	20.57	
			For >500 To 1,000, Deduct	-5.60	
			For >1,000 To 2,000, Deduct	-10.83	
			For >2,000 To 5,000, Deduct	-16.80	
			For >5,000, Deduct	-24.28	
33 01 30 71-0055	LF		120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	216.53	
			For Up To 75, Add	47.21	
			For >75 To 150, Add	21.65	
			For >500 To 1,000, Deduct	-5.89	
			For >1,000 To 2,000, Deduct	-11.40	
			For >2,000 To 5,000, Deduct	-17.68	
			For >5,000, Deduct	-25.56	
33 01 30 71-0056	SF		Structure Lining, Spray Applied With 100 mil Structural Polyurethane	6.90	
33 01 30 71-0057			Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 71-0037)		
			Note: Two part structural polyurethane.		
33 01 30 71-0058	LF		36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	87.00	
			For Up To 75, Add	18.63	
			For >75 To 150, Add	8.70	
			For >500 To 1,000, Deduct	-2.23	
			For >1,000 To 2,000, Deduct	-4.34	
			For >2,000 To 5,000, Deduct	-6.70	
			For >5,000, Deduct	-9.93	
33 01 30 71-0059	LF		42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	101.48	
			For Up To 75, Add	21.74	
			For >75 To 150, Add	10.15	
			For >500 To 1,000, Deduct	-2.61	
			For >1,000 To 2,000, Deduct	-5.07	
			For >2,000 To 5,000, Deduct	-7.82	
			For >5,000, Deduct	-11.59	
33 01 30 71-0060	LF		48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	115.99	
			For Up To 75, Add	24.84	
			For >75 To 150, Add	11.60	
			For >500 To 1,000, Deduct	-2.98	
			For >1,000 To 2,000, Deduct	-5.79	
			For >2,000 To 5,000, Deduct	-8.93	
			For >5,000, Deduct	-13.24	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0061 LF 54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	130.49	
For Up To 75, Add	27.95	
For >75 To 150, Add	13.05	
For >500 To 1,000, Deduct	-3.35	
For >1,000 To 2,000, Deduct	-6.51	
For >2,000 To 5,000, Deduct	-10.05	
For >5,000, Deduct	-14.90	
33 01 30 71-0062 LF 60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	144.99	
For Up To 75, Add	31.05	
For >75 To 150, Add	14.50	
For >500 To 1,000, Deduct	-3.72	
For >1,000 To 2,000, Deduct	-7.24	
For >2,000 To 5,000, Deduct	-11.17	
For >5,000, Deduct	-16.56	
33 01 30 71-0063 LF 66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	159.48	
For Up To 75, Add	34.16	
For >75 To 150, Add	15.95	
For >500 To 1,000, Deduct	-4.09	
For >1,000 To 2,000, Deduct	-7.96	
For >2,000 To 5,000, Deduct	-12.28	
For >5,000, Deduct	-18.21	
33 01 30 71-0064 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	173.98	
For Up To 75, Add	37.26	
For >75 To 150, Add	17.40	
For >500 To 1,000, Deduct	-4.47	
For >1,000 To 2,000, Deduct	-8.69	
For >2,000 To 5,000, Deduct	-13.40	
For >5,000, Deduct	-19.87	
33 01 30 71-0065 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	188.48	
For Up To 75, Add	40.37	
For >75 To 150, Add	18.85	
For >500 To 1,000, Deduct	-4.84	
For >1,000 To 2,000, Deduct	-9.41	
For >2,000 To 5,000, Deduct	-14.52	
For >5,000, Deduct	-21.52	
33 01 30 71-0066 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	202.99	
For Up To 75, Add	43.48	
For >75 To 150, Add	20.30	
For >500 To 1,000, Deduct	-5.21	
For >1,000 To 2,000, Deduct	-10.13	
For >2,000 To 5,000, Deduct	-15.63	
For >5,000, Deduct	-23.18	
33 01 30 71-0067 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	217.47	
For Up To 75, Add	46.58	
For >75 To 150, Add	21.75	
For >500 To 1,000, Deduct	-5.58	
For >1,000 To 2,000, Deduct	-10.86	
For >2,000 To 5,000, Deduct	-16.75	
For >5,000, Deduct	-24.83	
33 01 30 71-0068 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	231.98	
For Up To 75, Add	49.69	
For >75 To 150, Add	23.20	
For >500 To 1,000, Deduct	-5.96	
For >1,000 To 2,000, Deduct	-11.58	
For >2,000 To 5,000, Deduct	-17.87	
For >5,000, Deduct	-26.49	
33 01 30 71-0069 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	246.48	
For Up To 75, Add	52.79	
For >75 To 150, Add	24.65	
For >500 To 1,000, Deduct	-6.33	
For >1,000 To 2,000, Deduct	-12.31	
For >2,000 To 5,000, Deduct	-18.98	
For >5,000, Deduct	-28.14	
33 01 30 71-0070 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	260.98	
For Up To 75, Add	55.90	
For >75 To 150, Add	26.10	
For >500 To 1,000, Deduct	-6.70	
For >1,000 To 2,000, Deduct	-13.03	
For >2,000 To 5,000, Deduct	-20.10	
For >5,000, Deduct	-29.80	
33 01 30 71-0071 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	275.47	
For Up To 75, Add	59.00	
For >75 To 150, Add	27.55	
For >500 To 1,000, Deduct	-7.07	
For >1,000 To 2,000, Deduct	-13.75	
For >2,000 To 5,000, Deduct	-21.22	
For >5,000, Deduct	-31.45	
33 01 30 71-0072 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	289.97	
For Up To 75, Add	62.11	
For >75 To 150, Add	29.00	
For >500 To 1,000, Deduct	-7.44	
For >1,000 To 2,000, Deduct	-14.48	
For >2,000 To 5,000, Deduct	-22.33	
For >5,000, Deduct	-33.11	
33 01 30 71-0073 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane	9.23	



		Utilities	33	33
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0074			Lining Pipe, Spray Applied With 200 mil Structural Polyurethane (33 01 30 71-0037) Note: Two part structural polyurethane.		
33 01 30 71-0075	LF		36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	109.00	
			For Up To 75, Add	23.10	
			For >75 To 150, Add	10.90	
			For >500 To 1,000, Deduct	-2.70	
			For >1,000 To 2,000, Deduct	-5.27	
			For >2,000 To 5,000, Deduct	-8.10	
			For >5,000, Deduct	-12.20	
33 01 30 71-0076	LF		42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	127.18	
			For Up To 75, Add	26.95	
			For >75 To 150, Add	12.72	
			For >500 To 1,000, Deduct	-3.15	
			For >1,000 To 2,000, Deduct	-6.15	
			For >2,000 To 5,000, Deduct	-9.45	
			For >5,000, Deduct	-14.23	
33 01 30 71-0077	LF		48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	145.35	
			For Up To 75, Add	30.80	
			For >75 To 150, Add	14.54	
			For >500 To 1,000, Deduct	-3.60	
			For >1,000 To 2,000, Deduct	-7.03	
			For >2,000 To 5,000, Deduct	-10.80	
			For >5,000, Deduct	-16.27	
33 01 30 71-0078	LF		54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	163.52	
			For Up To 75, Add	34.65	
			For >75 To 150, Add	16.35	
			For >500 To 1,000, Deduct	-4.05	
			For >1,000 To 2,000, Deduct	-7.90	
			For >2,000 To 5,000, Deduct	-12.15	
			For >5,000, Deduct	-18.30	
33 01 30 71-0079	LF		60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	181.69	
			For Up To 75, Add	38.50	
			For >75 To 150, Add	18.17	
			For >500 To 1,000, Deduct	-4.50	
			For >1,000 To 2,000, Deduct	-8.78	
			For >2,000 To 5,000, Deduct	-13.50	
			For >5,000, Deduct	-20.33	
33 01 30 71-0080	LF		66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	199.85	
			For Up To 75, Add	42.35	
			For >75 To 150, Add	19.99	
			For >500 To 1,000, Deduct	-4.95	
			For >1,000 To 2,000, Deduct	-9.66	
			For >2,000 To 5,000, Deduct	-14.85	
			For >5,000, Deduct	-22.37	
33 01 30 71-0081	LF		72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	218.03	
			For Up To 75, Add	46.20	
			For >75 To 150, Add	21.80	
			For >500 To 1,000, Deduct	-5.40	
			For >1,000 To 2,000, Deduct	-10.54	
			For >2,000 To 5,000, Deduct	-16.20	
			For >5,000, Deduct	-24.40	
33 01 30 71-0082	LF		78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	236.20	
			For Up To 75, Add	50.05	
			For >75 To 150, Add	23.62	
			For >500 To 1,000, Deduct	-5.85	
			For >1,000 To 2,000, Deduct	-11.42	
			For >2,000 To 5,000, Deduct	-17.55	
			For >5,000, Deduct	-26.43	
33 01 30 71-0083	LF		84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	254.36	
			For Up To 75, Add	53.90	
			For >75 To 150, Add	25.44	
			For >500 To 1,000, Deduct	-6.30	
			For >1,000 To 2,000, Deduct	-12.30	
			For >2,000 To 5,000, Deduct	-18.90	
			For >5,000, Deduct	-28.47	
33 01 30 71-0084	LF		90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	272.53	
			For Up To 75, Add	57.75	
			For >75 To 150, Add	27.25	
			For >500 To 1,000, Deduct	-6.75	
			For >1,000 To 2,000, Deduct	-13.17	
			For >2,000 To 5,000, Deduct	-20.25	
			For >5,000, Deduct	-30.50	
33 01 30 71-0085	LF		96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	290.70	
			For Up To 75, Add	61.60	
			For >75 To 150, Add	29.07	
			For >500 To 1,000, Deduct	-7.20	
			For >1,000 To 2,000, Deduct	-14.05	
			For >2,000 To 5,000, Deduct	-21.60	
			For >5,000, Deduct	-32.53	
33 01 30 71-0086	LF		102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	308.87	
			For Up To 75, Add	65.45	
			For >75 To 150, Add	30.89	
			For >500 To 1,000, Deduct	-7.65	
			For >1,000 To 2,000, Deduct	-14.93	
			For >2,000 To 5,000, Deduct	-22.95	
			For >5,000, Deduct	-34.57	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0087	LF		108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	327.03	
			For Up To 75, Add	69.30	
			For >75 To 150, Add	32.70	
			For >500 To 1,000, Deduct	-8.10	
			For >1,000 To 2,000, Deduct	-15.81	
			For >2,000 To 5,000, Deduct	-24.30	
			For >5,000, Deduct	-36.60	
33 01 30 71-0088	LF		114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	345.20	
			For Up To 75, Add	73.15	
			For >75 To 150, Add	34.52	
			For >500 To 1,000, Deduct	-8.55	
			For >1,000 To 2,000, Deduct	-16.69	
			For >2,000 To 5,000, Deduct	-25.65	
			For >5,000, Deduct	-38.63	
33 01 30 71-0089	LF		120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	363.37	
			For Up To 75, Add	77.00	
			For >75 To 150, Add	36.34	
			For >500 To 1,000, Deduct	-9.00	
			For >1,000 To 2,000, Deduct	-17.57	
			For >2,000 To 5,000, Deduct	-27.00	
			For >5,000, Deduct	-40.67	
33 01 30 71-0090	SF		Structure Lining, Spray Applied With 200 mil Structural Polyurethane	11.57	
33 01 30 71-0091 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane (33 01 30 71-0037)					
Note: Two part structural polyurethane.					
33 01 30 71-0092	LF		36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	131.14	
			For Up To 75, Add	27.60	
			For >75 To 150, Add	13.11	
			For >500 To 1,000, Deduct	-3.17	
			For >1,000 To 2,000, Deduct	-6.20	
			For >2,000 To 5,000, Deduct	-9.51	
			For >5,000, Deduct	-14.48	
33 01 30 71-0093	LF		42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	153.00	
			For Up To 75, Add	32.20	
			For >75 To 150, Add	15.30	
			For >500 To 1,000, Deduct	-3.70	
			For >1,000 To 2,000, Deduct	-7.24	
			For >2,000 To 5,000, Deduct	-11.09	
			For >5,000, Deduct	-16.90	
33 01 30 71-0094	LF		48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	174.86	
			For Up To 75, Add	36.80	
			For >75 To 150, Add	17.49	
			For >500 To 1,000, Deduct	-4.23	
			For >1,000 To 2,000, Deduct	-8.27	
			For >2,000 To 5,000, Deduct	-12.68	
			For >5,000, Deduct	-19.31	
33 01 30 71-0095	LF		54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	196.71	
			For Up To 75, Add	41.39	
			For >75 To 150, Add	19.67	
			For >500 To 1,000, Deduct	-4.75	
			For >1,000 To 2,000, Deduct	-9.30	
			For >2,000 To 5,000, Deduct	-14.26	
			For >5,000, Deduct	-21.72	
33 01 30 71-0096	LF		60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	218.58	
			For Up To 75, Add	46.00	
			For >75 To 150, Add	21.86	
			For >500 To 1,000, Deduct	-5.28	
			For >1,000 To 2,000, Deduct	-10.34	
			For >2,000 To 5,000, Deduct	-15.85	
			For >5,000, Deduct	-24.14	
33 01 30 71-0097	LF		66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	240.41	
			For Up To 75, Add	50.59	
			For >75 To 150, Add	24.04	
			For >500 To 1,000, Deduct	-5.81	
			For >1,000 To 2,000, Deduct	-11.37	
			For >2,000 To 5,000, Deduct	-17.43	
			For >5,000, Deduct	-26.55	
33 01 30 71-0098	LF		72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	262.27	
			For Up To 75, Add	55.19	
			For >75 To 150, Add	26.23	
			For >500 To 1,000, Deduct	-6.34	
			For >1,000 To 2,000, Deduct	-12.40	
			For >2,000 To 5,000, Deduct	-19.02	
			For >5,000, Deduct	-28.96	
33 01 30 71-0099	LF		78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	284.13	
			For Up To 75, Add	59.79	
			For >75 To 150, Add	28.41	
			For >500 To 1,000, Deduct	-6.87	
			For >1,000 To 2,000, Deduct	-13.44	
			For >2,000 To 5,000, Deduct	-20.60	
			For >5,000, Deduct	-31.38	



		Utilities	33	33
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0100	LF	84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	305.98	
		For Up To 75, Add	64.39	
		For >75 To 150, Add	30.60	
		For >500 To 1,000, Deduct	-7.40	
		For >1,000 To 2,000, Deduct	-14.47	
		For >2,000 To 5,000, Deduct	-22.19	
		For >5,000, Deduct	-33.79	
33 01 30 71-0101	LF	90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	327.85	
		For Up To 75, Add	68.99	
		For >75 To 150, Add	32.79	
		For >500 To 1,000, Deduct	-7.92	
		For >1,000 To 2,000, Deduct	-15.51	
		For >2,000 To 5,000, Deduct	-23.77	
		For >5,000, Deduct	-36.20	
33 01 30 71-0102	LF	96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	349.70	
		For Up To 75, Add	73.59	
		For >75 To 150, Add	34.97	
		For >500 To 1,000, Deduct	-8.45	
		For >1,000 To 2,000, Deduct	-16.54	
		For >2,000 To 5,000, Deduct	-25.36	
		For >5,000, Deduct	-38.62	
33 01 30 71-0103	LF	102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	371.56	
		For Up To 75, Add	78.19	
		For >75 To 150, Add	37.16	
		For >500 To 1,000, Deduct	-8.98	
		For >1,000 To 2,000, Deduct	-17.57	
		For >2,000 To 5,000, Deduct	-26.94	
		For >5,000, Deduct	-41.03	
33 01 30 71-0104	LF	108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	393.41	
		For Up To 75, Add	82.78	
		For >75 To 150, Add	39.34	
		For >500 To 1,000, Deduct	-9.51	
		For >1,000 To 2,000, Deduct	-18.61	
		For >2,000 To 5,000, Deduct	-28.53	
		For >5,000, Deduct	-43.44	
33 01 30 71-0105	LF	114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	415.27	
		For Up To 75, Add	87.38	
		For >75 To 150, Add	41.53	
		For >500 To 1,000, Deduct	-10.04	
		For >1,000 To 2,000, Deduct	-19.64	
		For >2,000 To 5,000, Deduct	-30.11	
		For >5,000, Deduct	-45.86	
33 01 30 71-0106	LF	120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	437.13	
		For Up To 75, Add	91.98	
		For >75 To 150, Add	43.71	
		For >500 To 1,000, Deduct	-10.57	
		For >1,000 To 2,000, Deduct	-20.68	
		For >2,000 To 5,000, Deduct	-31.70	
		For >5,000, Deduct	-48.27	
33 01 30 71-0107	SF	Structure Lining, Spray Applied With 250 mil Structural Polyurethane	13.91	
33 01 30 71-0108		Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0037)		
		Note: Two part structural polyurethane.		
33 01 30 71-0109	LF	36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	153.41	
		For Up To 75, Add	32.12	
		For >75 To 150, Add	15.34	
		For >500 To 1,000, Deduct	-3.64	
		For >1,000 To 2,000, Deduct	-7.14	
		For >2,000 To 5,000, Deduct	-10.93	
		For >5,000, Deduct	-16.78	
33 01 30 71-0110	LF	42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	178.99	
		For Up To 75, Add	37.48	
		For >75 To 150, Add	17.90	
		For >500 To 1,000, Deduct	-4.25	
		For >1,000 To 2,000, Deduct	-8.33	
		For >2,000 To 5,000, Deduct	-12.75	
		For >5,000, Deduct	-19.58	
33 01 30 71-0111	LF	48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	204.56	
		For Up To 75, Add	42.83	
		For >75 To 150, Add	20.46	
		For >500 To 1,000, Deduct	-4.86	
		For >1,000 To 2,000, Deduct	-9.53	
		For >2,000 To 5,000, Deduct	-14.58	
		For >5,000, Deduct	-22.38	
33 01 30 71-0112	LF	54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	230.12	
		For Up To 75, Add	48.18	
		For >75 To 150, Add	23.01	
		For >500 To 1,000, Deduct	-5.47	
		For >1,000 To 2,000, Deduct	-10.72	
		For >2,000 To 5,000, Deduct	-16.40	
		For >5,000, Deduct	-25.17	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0113 LF 60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	255.70	
For Up To 75, Add	53.54	
For >75 To 150, Add	25.57	
For >500 To 1,000, Deduct	-6.07	
For >1,000 To 2,000, Deduct	-11.91	
For >2,000 To 5,000, Deduct	-18.22	
For >5,000, Deduct	-27.97	
33 01 30 71-0114 LF 66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	281.26	
For Up To 75, Add	58.89	
For >75 To 150, Add	28.13	
For >500 To 1,000, Deduct	-6.68	
For >1,000 To 2,000, Deduct	-13.10	
For >2,000 To 5,000, Deduct	-20.04	
For >5,000, Deduct	-30.76	
33 01 30 71-0115 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	306.82	
For Up To 75, Add	64.24	
For >75 To 150, Add	30.68	
For >500 To 1,000, Deduct	-7.29	
For >1,000 To 2,000, Deduct	-14.29	
For >2,000 To 5,000, Deduct	-21.86	
For >5,000, Deduct	-33.56	
33 01 30 71-0116 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	332.40	
For Up To 75, Add	69.60	
For >75 To 150, Add	33.24	
For >500 To 1,000, Deduct	-7.90	
For >1,000 To 2,000, Deduct	-15.48	
For >2,000 To 5,000, Deduct	-23.69	
For >5,000, Deduct	-36.36	
33 01 30 71-0117 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	357.96	
For Up To 75, Add	74.95	
For >75 To 150, Add	35.80	
For >500 To 1,000, Deduct	-8.50	
For >1,000 To 2,000, Deduct	-16.67	
For >2,000 To 5,000, Deduct	-25.51	
For >5,000, Deduct	-39.15	
33 01 30 71-0118 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	383.55	
For Up To 75, Add	80.31	
For >75 To 150, Add	38.36	
For >500 To 1,000, Deduct	-9.11	
For >1,000 To 2,000, Deduct	-17.86	
For >2,000 To 5,000, Deduct	-27.33	
For >5,000, Deduct	-41.95	
33 01 30 71-0119 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	409.11	
For Up To 75, Add	85.66	
For >75 To 150, Add	40.91	
For >500 To 1,000, Deduct	-9.72	
For >1,000 To 2,000, Deduct	-19.05	
For >2,000 To 5,000, Deduct	-29.15	
For >5,000, Deduct	-44.75	
33 01 30 71-0120 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	434.67	
For Up To 75, Add	91.01	
For >75 To 150, Add	43.47	
For >500 To 1,000, Deduct	-10.32	
For >1,000 To 2,000, Deduct	-20.24	
For >2,000 To 5,000, Deduct	-30.97	
For >5,000, Deduct	-47.54	
33 01 30 71-0121 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	460.24	
For Up To 75, Add	96.37	
For >75 To 150, Add	46.02	
For >500 To 1,000, Deduct	-10.93	
For >1,000 To 2,000, Deduct	-21.43	
For >2,000 To 5,000, Deduct	-32.79	
For >5,000, Deduct	-50.34	
33 01 30 71-0122 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	485.82	
For Up To 75, Add	101.72	
For >75 To 150, Add	48.58	
For >500 To 1,000, Deduct	-11.54	
For >1,000 To 2,000, Deduct	-22.62	
For >2,000 To 5,000, Deduct	-34.62	
For >5,000, Deduct	-53.14	
33 01 30 71-0123 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	511.39	
For Up To 75, Add	107.08	
For >75 To 150, Add	51.14	
For >500 To 1,000, Deduct	-12.15	
For >1,000 To 2,000, Deduct	-23.81	
For >2,000 To 5,000, Deduct	-36.44	
For >5,000, Deduct	-55.94	
33 01 30 71-0124 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane	16.28	

33 01 30 71-0125 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane (33 01 30 71-0037)

Note: Two part structural polyurethane.



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0126	LF	36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	198.06	
		For Up To 75, Add	41.21	
		For >75 To 150, Add	19.81	
		For >500 To 1,000, Deduct	-4.60	
		For >1,000 To 2,000, Deduct	-9.04	
		For >2,000 To 5,000, Deduct	-13.80	
		For >5,000, Deduct	-21.41	
33 01 30 71-0127	LF	42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	231.06	
		For Up To 75, Add	48.08	
		For >75 To 150, Add	23.11	
		For >500 To 1,000, Deduct	-5.37	
		For >1,000 To 2,000, Deduct	-10.55	
		For >2,000 To 5,000, Deduct	-16.10	
		For >5,000, Deduct	-24.97	
33 01 30 71-0128	LF	48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	264.06	
		For Up To 75, Add	54.94	
		For >75 To 150, Add	26.41	
		For >500 To 1,000, Deduct	-6.13	
		For >1,000 To 2,000, Deduct	-12.05	
		For >2,000 To 5,000, Deduct	-18.40	
		For >5,000, Deduct	-28.54	
33 01 30 71-0129	LF	54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	297.09	
		For Up To 75, Add	61.82	
		For >75 To 150, Add	29.71	
		For >500 To 1,000, Deduct	-6.90	
		For >1,000 To 2,000, Deduct	-13.56	
		For >2,000 To 5,000, Deduct	-20.70	
		For >5,000, Deduct	-32.11	
33 01 30 71-0130	LF	60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	330.09	
		For Up To 75, Add	68.68	
		For >75 To 150, Add	33.01	
		For >500 To 1,000, Deduct	-7.67	
		For >1,000 To 2,000, Deduct	-15.07	
		For >2,000 To 5,000, Deduct	-23.00	
		For >5,000, Deduct	-35.67	
33 01 30 71-0131	LF	66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	363.11	
		For Up To 75, Add	75.55	
		For >75 To 150, Add	36.31	
		For >500 To 1,000, Deduct	-8.44	
		For >1,000 To 2,000, Deduct	-16.58	
		For >2,000 To 5,000, Deduct	-25.31	
		For >5,000, Deduct	-39.24	
33 01 30 71-0132	LF	72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	396.11	
		For Up To 75, Add	82.42	
		For >75 To 150, Add	39.61	
		For >500 To 1,000, Deduct	-9.20	
		For >1,000 To 2,000, Deduct	-18.08	
		For >2,000 To 5,000, Deduct	-27.60	
		For >5,000, Deduct	-42.81	
33 01 30 71-0133	LF	78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	429.12	
		For Up To 75, Add	89.29	
		For >75 To 150, Add	42.91	
		For >500 To 1,000, Deduct	-9.97	
		For >1,000 To 2,000, Deduct	-19.59	
		For >2,000 To 5,000, Deduct	-29.90	
		For >5,000, Deduct	-46.38	
33 01 30 71-0134	LF	84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	462.13	
		For Up To 75, Add	96.16	
		For >75 To 150, Add	46.21	
		For >500 To 1,000, Deduct	-10.74	
		For >1,000 To 2,000, Deduct	-21.10	
		For >2,000 To 5,000, Deduct	-32.21	
		For >5,000, Deduct	-49.94	
33 01 30 71-0135	LF	90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	495.14	
		For Up To 75, Add	103.03	
		For >75 To 150, Add	49.51	
		For >500 To 1,000, Deduct	-11.50	
		For >1,000 To 2,000, Deduct	-22.60	
		For >2,000 To 5,000, Deduct	-34.51	
		For >5,000, Deduct	-53.51	
33 01 30 71-0136	LF	96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	528.15	
		For Up To 75, Add	109.89	
		For >75 To 150, Add	52.82	
		For >500 To 1,000, Deduct	-12.27	
		For >1,000 To 2,000, Deduct	-24.11	
		For >2,000 To 5,000, Deduct	-36.81	
		For >5,000, Deduct	-57.08	
33 01 30 71-0137	LF	102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	561.16	
		For Up To 75, Add	116.76	
		For >75 To 150, Add	56.12	
		For >500 To 1,000, Deduct	-13.04	
		For >1,000 To 2,000, Deduct	-25.62	
		For >2,000 To 5,000, Deduct	-39.11	
		For >5,000, Deduct	-60.65	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0138 LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	594.17	
For Up To 75, Add	123.63	
For >75 To 150, Add	59.42	
For >500 To 1,000, Deduct	-13.80	
For >1,000 To 2,000, Deduct	-27.12	
For >2,000 To 5,000, Deduct	-41.41	
For >5,000, Deduct	-64.21	
33 01 30 71-0139 LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	627.18	
For Up To 75, Add	130.50	
For >75 To 150, Add	62.72	
For >500 To 1,000, Deduct	-14.57	
For >1,000 To 2,000, Deduct	-28.63	
For >2,000 To 5,000, Deduct	-43.71	
For >5,000, Deduct	-67.78	
33 01 30 71-0140 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	660.18	
For Up To 75, Add	137.37	
For >75 To 150, Add	66.02	
For >500 To 1,000, Deduct	-15.34	
For >1,000 To 2,000, Deduct	-30.14	
For >2,000 To 5,000, Deduct	-46.01	
For >5,000, Deduct	-71.35	
33 01 30 71-0141 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane	21.01	
33 01 30 71-0142 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane (33 01 30 71-0037)		
Note: Two part structural polyurethane.		
33 01 30 71-0143 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	243.12	
For Up To 75, Add	50.40	
For >75 To 150, Add	24.31	
For >500 To 1,000, Deduct	-5.57	
For >1,000 To 2,000, Deduct	-10.97	
For >2,000 To 5,000, Deduct	-16.72	
For >5,000, Deduct	-26.09	
33 01 30 71-0144 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	283.65	
For Up To 75, Add	58.80	
For >75 To 150, Add	28.37	
For >500 To 1,000, Deduct	-6.50	
For >1,000 To 2,000, Deduct	-12.80	
For >2,000 To 5,000, Deduct	-19.51	
For >5,000, Deduct	-30.44	
33 01 30 71-0145 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	324.16	
For Up To 75, Add	67.20	
For >75 To 150, Add	32.42	
For >500 To 1,000, Deduct	-7.43	
For >1,000 To 2,000, Deduct	-14.62	
For >2,000 To 5,000, Deduct	-22.29	
For >5,000, Deduct	-34.78	
33 01 30 71-0146 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	364.69	
For Up To 75, Add	75.60	
For >75 To 150, Add	36.47	
For >500 To 1,000, Deduct	-8.36	
For >1,000 To 2,000, Deduct	-16.45	
For >2,000 To 5,000, Deduct	-25.08	
For >5,000, Deduct	-39.13	
33 01 30 71-0147 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	405.21	
For Up To 75, Add	84.00	
For >75 To 150, Add	40.52	
For >500 To 1,000, Deduct	-9.29	
For >1,000 To 2,000, Deduct	-18.28	
For >2,000 To 5,000, Deduct	-27.87	
For >5,000, Deduct	-43.48	
33 01 30 71-0148 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	445.74	
For Up To 75, Add	92.41	
For >75 To 150, Add	44.57	
For >500 To 1,000, Deduct	-10.22	
For >1,000 To 2,000, Deduct	-20.11	
For >2,000 To 5,000, Deduct	-30.65	
For >5,000, Deduct	-47.83	
33 01 30 71-0149 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	486.25	
For Up To 75, Add	100.80	
For >75 To 150, Add	48.63	
For >500 To 1,000, Deduct	-11.15	
For >1,000 To 2,000, Deduct	-21.94	
For >2,000 To 5,000, Deduct	-33.44	
For >5,000, Deduct	-52.18	
33 01 30 71-0150 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	526.78	
For Up To 75, Add	109.21	
For >75 To 150, Add	52.68	
For >500 To 1,000, Deduct	-12.08	
For >1,000 To 2,000, Deduct	-23.77	
For >2,000 To 5,000, Deduct	-36.23	
For >5,000, Deduct	-56.53	



		Utilities	33	33
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0151	LF		84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	567.30	
			For Up To 75, Add	117.61	
			For >75 To 150, Add	56.73	
			For >500 To 1,000, Deduct	-13.00	
			For >1,000 To 2,000, Deduct	-25.59	
			For >2,000 To 5,000, Deduct	-39.01	
			For >5,000, Deduct	-60.88	
33 01 30 71-0152	LF		90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	607.82	
			For Up To 75, Add	126.01	
			For >75 To 150, Add	60.78	
			For >500 To 1,000, Deduct	-13.93	
			For >1,000 To 2,000, Deduct	-27.42	
			For >2,000 To 5,000, Deduct	-41.80	
			For >5,000, Deduct	-65.22	
33 01 30 71-0153	LF		96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	648.34	
			For Up To 75, Add	134.41	
			For >75 To 150, Add	64.83	
			For >500 To 1,000, Deduct	-14.86	
			For >1,000 To 2,000, Deduct	-29.25	
			For >2,000 To 5,000, Deduct	-44.59	
			For >5,000, Deduct	-69.57	
33 01 30 71-0154	LF		102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	688.86	
			For Up To 75, Add	142.81	
			For >75 To 150, Add	68.89	
			For >500 To 1,000, Deduct	-15.79	
			For >1,000 To 2,000, Deduct	-31.08	
			For >2,000 To 5,000, Deduct	-47.37	
			For >5,000, Deduct	-73.92	
33 01 30 71-0155	LF		108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	729.37	
			For Up To 75, Add	151.20	
			For >75 To 150, Add	72.94	
			For >500 To 1,000, Deduct	-16.72	
			For >1,000 To 2,000, Deduct	-32.91	
			For >2,000 To 5,000, Deduct	-50.16	
			For >5,000, Deduct	-78.27	
33 01 30 71-0156	LF		114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	769.90	
			For Up To 75, Add	159.61	
			For >75 To 150, Add	76.99	
			For >500 To 1,000, Deduct	-17.65	
			For >1,000 To 2,000, Deduct	-34.73	
			For >2,000 To 5,000, Deduct	-52.95	
			For >5,000, Deduct	-82.62	
33 01 30 71-0157	LF		120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	810.42	
			For Up To 75, Add	168.01	
			For >75 To 150, Add	81.04	
			For >500 To 1,000, Deduct	-18.58	
			For >1,000 To 2,000, Deduct	-36.56	
			For >2,000 To 5,000, Deduct	-55.73	
			For >5,000, Deduct	-86.96	
33 01 30 71-0158	SF		Structure Lining, Spray Applied With 500 mil Structural Polyurethane	25.80	
33 01 30 71-0159			Lining Pipe With Rib Loc (33 01 30 71-0001)		
33 01 30 71-0160	LF		Lining 6" Pipe With Rib Loc	51.67	
			For >500 To 1,000, Deduct	-1.29	
			For >1,000 To 2,000, Deduct	-2.52	
			For >2,000 To 5,000, Deduct	-3.88	
			For >5,000, Deduct	-5.82	
33 01 30 71-0161	LF		Lining 8" Pipe With Rib Loc	57.52	
			For >500 To 1,000, Deduct	-1.43	
			For >1,000 To 2,000, Deduct	-2.79	
			For >2,000 To 5,000, Deduct	-4.30	
			For >5,000, Deduct	-6.46	
33 01 30 71-0162	LF		Lining 10" Pipe With Rib Loc	80.25	
			For >500 To 1,000, Deduct	-1.91	
			For >1,000 To 2,000, Deduct	-3.75	
			For >2,000 To 5,000, Deduct	-5.74	
			For >5,000, Deduct	-8.79	
33 01 30 71-0163	LF		Lining 12" Pipe With Rib Loc	102.54	
			For >500 To 1,000, Deduct	-2.39	
			For >1,000 To 2,000, Deduct	-4.69	
			For >2,000 To 5,000, Deduct	-7.17	
			For >5,000, Deduct	-11.10	
33 01 30 71-0164	LF		Lining 15" Pipe With Rib Loc	136.97	
			For >500 To 1,000, Deduct	-3.12	
			For >1,000 To 2,000, Deduct	-6.15	
			For >2,000 To 5,000, Deduct	-9.37	
			For >5,000, Deduct	-14.66	
33 01 30 71-0165	LF		Lining 18" Pipe With Rib Loc	177.13	
			For >500 To 1,000, Deduct	-3.98	
			For >1,000 To 2,000, Deduct	-7.84	
			For >2,000 To 5,000, Deduct	-11.93	
			For >5,000, Deduct	-18.80	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0166 LF Lining 21" Pipe With Rib Loc.....	222.97	
For >500 To 1,000, Deduct	-4.93	
For >1,000 To 2,000, Deduct	-9.74	
For >2,000 To 5,000, Deduct	-14.79	
For >5,000, Deduct	-23.47	
33 01 30 71-0167 LF Lining 24" Pipe With Rib Loc.....	276.40	
For >500 To 1,000, Deduct	-6.04	
For >1,000 To 2,000, Deduct	-11.95	
For >2,000 To 5,000, Deduct	-18.12	
For >5,000, Deduct	-28.92	
33 01 30 71-0168 LF Lining 27" Pipe With Rib Loc.....	331.48	
For >500 To 1,000, Deduct	-7.19	
For >1,000 To 2,000, Deduct	-14.25	
For >2,000 To 5,000, Deduct	-21.58	
For >5,000, Deduct	-34.56	
33 01 30 71-0169 LF Lining 30" Pipe With Rib Loc.....	393.57	
For >500 To 1,000, Deduct	-8.50	
For >1,000 To 2,000, Deduct	-16.84	
For >2,000 To 5,000, Deduct	-25.49	
For >5,000, Deduct	-40.92	
33 01 30 71-0170 LF Lining 36" Pipe With Rib Loc.....	502.55	
For >500 To 1,000, Deduct	-10.76	
For >1,000 To 2,000, Deduct	-21.34	
For >2,000 To 5,000, Deduct	-32.27	
For >5,000, Deduct	-52.02	
33 01 30 71-0171 LF Lining 42" Pipe With Rib Loc.....	626.36	
For >500 To 1,000, Deduct	-13.33	
For >1,000 To 2,000, Deduct	-26.46	
For >2,000 To 5,000, Deduct	-40.00	
For >5,000, Deduct	-64.65	
33 01 30 71-0172 LF Lining 48" Pipe With Rib Loc.....	767.03	
For >500 To 1,000, Deduct	-16.28	
For >1,000 To 2,000, Deduct	-32.33	
For >2,000 To 5,000, Deduct	-48.84	
For >5,000, Deduct	-79.05	
33 01 30 71-0173 LF Lining 54" Pipe With Rib Loc.....	906.93	
For >500 To 1,000, Deduct	-19.27	
For >1,000 To 2,000, Deduct	-38.25	
For >2,000 To 5,000, Deduct	-57.80	
For >5,000, Deduct	-93.51	
33 01 30 71-0174 LF Lining 60" Pipe With Rib Loc.....	1,069.20	
For >500 To 1,000, Deduct	-22.92	
For >1,000 To 2,000, Deduct	-45.46	
For >2,000 To 5,000, Deduct	-68.76	
For >5,000, Deduct	-110.76	
33 01 30 71-0175 LF Lining 66" Pipe With Rib Loc.....	1,266.93	
For >500 To 1,000, Deduct	-27.75	
For >1,000 To 2,000, Deduct	-54.90	
For >2,000 To 5,000, Deduct	-83.26	
For >5,000, Deduct	-132.73	
33 01 30 71-0176 LF Lining 72" Pipe With Rib Loc.....	1,524.20	
For >500 To 1,000, Deduct	-34.71	
For >1,000 To 2,000, Deduct	-68.36	
For >2,000 To 5,000, Deduct	-104.13	
For >5,000, Deduct	-162.99	

33 01 30 72 Cured-in-Place Pipe Lining (33 01 30)

33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines (33 01 30 72)
 Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 72-0002 Set-Up And Reinsertion For Cured In-Place Pipe (CIPP) Lining (33 01 30 72-0001)

33 01 30 72-0003 EA Initial Set-up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,690.77
33 01 30 72-0004 EA Initial Set-up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,817.95
33 01 30 72-0005 EA Initial Set-up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,226.92
33 01 30 72-0006 EA Initial Set-up And Final Equipment Removal For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,635.89
33 01 30 72-0007 EA Move And Set-up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	845.38
33 01 30 72-0008 EA Move And Set-up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,408.97
33 01 30 72-0009 EA Move And Set-up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,761.21
33 01 30 72-0010 EA Move And Set-up At Different Access/Location For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,254.36
33 01 30 72-0011 EA Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,408.97
Note: Need to mix wet material in bag prior to installation.	
33 01 30 72-0012 EA Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,381.54
Note: Need to mix wet material in bag prior to installation.	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0013	EA	Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	5,635.89	
		Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0014	EA	Mixing Truck And Refrigeration For Relining >48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	8,453.84	
		Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0015		Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation (33 01 30 72-0001)		
		Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe.		
33 01 30 72-0016		4.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0017	LF	4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	25.40	
		For Vinylester Resin, Add	7.43	
		For Epoxy Resin, Add	0.88	
		For Up To >10, Add	49.68	
		For >10 To 25, Add	39.63	
		For >25 To 50, Add	24.31	
		For >50 To 100, Add	12.15	
		For >500 To 1,000, Deduct	-1.64	
		For >1,000 To 2,000, Deduct	-2.64	
		For >2,000 To 5,000, Deduct	-4.97	
		For >5,000, Deduct	-8.04	
33 01 30 72-0018	LF	4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	31.22	
		For Vinylester Resin, Add	11.50	
		For Epoxy Resin, Add	1.36	
		For Up To >10, Add	52.59	
		For >10 To 25, Add	41.08	
		For >25 To 50, Add	25.47	
		For >50 To 100, Add	12.74	
		For >500 To 1,000, Deduct	-1.93	
		For >1,000 To 2,000, Deduct	-3.08	
		For >2,000 To 5,000, Deduct	-5.67	
		For >5,000, Deduct	-9.20	
33 01 30 72-0019	LF	4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	37.03	
		For Vinylester Resin, Add	15.57	
		For Epoxy Resin, Add	1.83	
		For Up To >10, Add	55.49	
		For >10 To 25, Add	42.54	
		For >25 To 50, Add	26.63	
		For >50 To 100, Add	13.32	
		For >500 To 1,000, Deduct	-2.22	
		For >1,000 To 2,000, Deduct	-3.52	
		For >2,000 To 5,000, Deduct	-6.37	
		For >5,000, Deduct	-10.36	
33 01 30 72-0020	LF	4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	50.09	
		For Vinylester Resin, Add	23.72	
		For Epoxy Resin, Add	2.80	
		For Up To >10, Add	65.57	
		For >10 To 25, Add	49.00	
		For >25 To 50, Add	31.09	
		For >50 To 100, Add	15.55	
		For >500 To 1,000, Deduct	-2.91	
		For >1,000 To 2,000, Deduct	-4.57	
		For >2,000 To 5,000, Deduct	-8.12	
		For >5,000, Deduct	-13.26	
33 01 30 72-0021	LF	4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	63.13	
		For Vinylester Resin, Add	31.86	
		For Epoxy Resin, Add	3.76	
		For Up To >10, Add	75.59	
		For >10 To 25, Add	55.41	
		For >25 To 50, Add	35.52	
		For >50 To 100, Add	17.76	
		For >500 To 1,000, Deduct	-3.60	
		For >1,000 To 2,000, Deduct	-5.62	
		For >2,000 To 5,000, Deduct	-9.86	
		For >5,000, Deduct	-16.15	
33 01 30 72-0022		6mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0023	LF	6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	36.23	
		For Vinylester Resin, Add	15.01	
		For Epoxy Resin, Add	1.77	
		For Up To >10, Add	55.09	
		For >10 To 25, Add	42.34	
		For >25 To 50, Add	26.47	
		For >50 To 100, Add	13.24	
		For >500 To 1,000, Deduct	-2.18	
		For >1,000 To 2,000, Deduct	-3.46	
		For >2,000 To 5,000, Deduct	-6.27	
		For >5,000, Deduct	-10.20	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0024	LF		6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	43.99	
			For Vinylester Resin, Add	20.44	
			For Epoxy Resin, Add	2.41	
			For Up To >10, Add	58.97	
			For >10 To 25, Add	44.28	
			For >25 To 50, Add	28.03	
			For >50 To 100, Add	14.01	
			For >500 To 1,000, Deduct	-2.57	
			For >1,000 To 2,000, Deduct	-4.04	
			For >2,000 To 5,000, Deduct	-7.20	
			For >5,000, Deduct	-11.76	
33 01 30 72-0025	LF		6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	60.93	
			For Vinylester Resin, Add	31.30	
			For Epoxy Resin, Add	3.69	
			For Up To >10, Add	70.99	
			For >10 To 25, Add	51.71	
			For >25 To 50, Add	33.26	
			For >50 To 100, Add	16.63	
			For >500 To 1,000, Deduct	-3.45	
			For >1,000 To 2,000, Deduct	-5.38	
			For >2,000 To 5,000, Deduct	-9.42	
			For >5,000, Deduct	-15.43	
33 01 30 72-0026	LF		6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	77.84	
			For Vinylester Resin, Add	42.16	
			For Epoxy Resin, Add	4.97	
			For Up To >10, Add	82.95	
			For >10 To 25, Add	59.08	
			For >25 To 50, Add	38.46	
			For >50 To 100, Add	19.23	
			For >500 To 1,000, Deduct	-4.33	
			For >1,000 To 2,000, Deduct	-6.72	
			For >2,000 To 5,000, Deduct	-11.63	
			For >5,000, Deduct	-19.09	
33 01 30 72-0027	LF		6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	94.91	
			For Vinylester Resin, Add	53.03	
			For Epoxy Resin, Add	6.25	
			For Up To >10, Add	95.36	
			For >10 To 25, Add	66.84	
			For >25 To 50, Add	43.89	
			For >50 To 100, Add	21.95	
			For >500 To 1,000, Deduct	-5.22	
			For >1,000 To 2,000, Deduct	-8.08	
			For >2,000 To 5,000, Deduct	-13.88	
			For >5,000, Deduct	-22.81	
33 01 30 72-0028	LF		6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	112.40	
			For Vinylester Resin, Add	63.89	
			For Epoxy Resin, Add	7.53	
			For Up To >10, Add	109.03	
			For >10 To 25, Add	75.64	
			For >25 To 50, Add	49.95	
			For >50 To 100, Add	24.97	
			For >500 To 1,000, Deduct	-6.15	
			For >1,000 To 2,000, Deduct	-9.49	
			For >2,000 To 5,000, Deduct	-16.23	
			For >5,000, Deduct	-26.71	
33 01 30 72-0029			7.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0030	LF		7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	50.72	
			For Vinylester Resin, Add	25.15	
			For Epoxy Resin, Add	2.96	
			For Up To >10, Add	62.34	
			For >10 To 25, Add	45.96	
			For >25 To 50, Add	29.37	
			For >50 To 100, Add	14.69	
			For >500 To 1,000, Deduct	-2.91	
			For >1,000 To 2,000, Deduct	-4.54	
			For >2,000 To 5,000, Deduct	-8.01	
			For >5,000, Deduct	-13.10	
33 01 30 72-0031	LF		7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	71.53	
			For Vinylester Resin, Add	38.72	
			For Epoxy Resin, Add	4.56	
			For Up To >10, Add	76.29	
			For >10 To 25, Add	54.36	
			For >25 To 50, Add	35.38	
			For >50 To 100, Add	17.69	
			For >500 To 1,000, Deduct	-3.98	
			For >1,000 To 2,000, Deduct	-6.18	
			For >2,000 To 5,000, Deduct	-10.69	
			For >5,000, Deduct	-17.55	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0032	LF		7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	92.33	
			For Vinylester Resin, Add	52.30	
			For Epoxy Resin, Add	6.16	
			For Up To >10, Add	90.19	
			For >10 To 25, Add	62.71	
			For >25 To 50, Add	41.36	
			For >50 To 100, Add	20.68	
			For >500 To 1,000, Deduct	-5.06	
			For >1,000 To 2,000, Deduct	-7.81	
			For >2,000 To 5,000, Deduct	-13.37	
			For >5,000, Deduct	-21.99	
33 01 30 72-0033	LF		7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	113.27	
			For Vinylester Resin, Add	65.88	
			For Epoxy Resin, Add	7.76	
			For Up To >10, Add	104.54	
			For >10 To 25, Add	71.43	
			For >25 To 50, Add	47.56	
			For >50 To 100, Add	23.78	
			For >500 To 1,000, Deduct	-6.14	
			For >1,000 To 2,000, Deduct	-9.45	
			For >2,000 To 5,000, Deduct	-16.08	
			For >5,000, Deduct	-26.49	
33 01 30 72-0034	LF		7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	134.64	
			For Vinylester Resin, Add	79.46	
			For Epoxy Resin, Add	9.36	
			For Up To >10, Add	120.15	
			For >10 To 25, Add	81.20	
			For >25 To 50, Add	54.40	
			For >50 To 100, Add	27.20	
			For >500 To 1,000, Deduct	-7.26	
			For >1,000 To 2,000, Deduct	-11.15	
			For >2,000 To 5,000, Deduct	-18.90	
			For >5,000, Deduct	-31.15	
33 01 30 72-0035	LF		7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	166.56	
			For Vinylester Resin, Add	99.82	
			For Epoxy Resin, Add	11.76	
			For Up To >10, Add	143.18	
			For >10 To 25, Add	95.55	
			For >25 To 50, Add	64.46	
			For >50 To 100, Add	32.23	
			For >500 To 1,000, Deduct	-8.93	
			For >1,000 To 2,000, Deduct	-13.69	
			For >2,000 To 5,000, Deduct	-23.10	
			For >5,000, Deduct	-38.10	
33 01 30 72-0036	LF		7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	198.74	
			For Vinylester Resin, Add	120.18	
			For Epoxy Resin, Add	14.16	
			For Up To >10, Add	167.00	
			For >10 To 25, Add	110.55	
			For >25 To 50, Add	74.91	
			For >50 To 100, Add	37.46	
			For >500 To 1,000, Deduct	-10.61	
			For >1,000 To 2,000, Deduct	-16.26	
			For >2,000 To 5,000, Deduct	-27.37	
			For >5,000, Deduct	-45.16	
33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0038	LF		9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	81.91	
			For Vinylester Resin, Add	45.99	
			For Epoxy Resin, Add	5.42	
			For Up To >10, Add	81.48	
			For >10 To 25, Add	56.95	
			For >25 To 50, Add	37.46	
			For >50 To 100, Add	18.73	
			For >500 To 1,000, Deduct	-4.50	
			For >1,000 To 2,000, Deduct	-6.95	
			For >2,000 To 5,000, Deduct	-11.94	
			For >5,000, Deduct	-19.62	
33 01 30 72-0039	LF		9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	106.58	
			For Vinylester Resin, Add	62.28	
			For Epoxy Resin, Add	7.34	
			For Up To >10, Add	97.32	
			For >10 To 25, Add	66.27	
			For >25 To 50, Add	44.21	
			For >50 To 100, Add	22.10	
			For >500 To 1,000, Deduct	-5.77	
			For >1,000 To 2,000, Deduct	-8.87	
			For >2,000 To 5,000, Deduct	-15.08	
			For >5,000, Deduct	-24.84	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	131.41	
For Vinylester Resin, Add	78.58	
For Epoxy Resin, Add	9.26	
For Up To >10, Add	113.61	
For >10 To 25, Add	75.96	
For >25 To 50, Add	51.19	
For >50 To 100, Add	25.60	
For >500 To 1,000, Deduct	-7.05	
For >1,000 To 2,000, Deduct	-10.81	
For >2,000 To 5,000, Deduct	-18.26	
For >5,000, Deduct	-30.11	
33 01 30 72-0041 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	156.65	
For Vinylester Resin, Add	94.86	
For Epoxy Resin, Add	11.18	
For Up To >10, Add	131.15	
For >10 To 25, Add	86.71	
For >25 To 50, Add	58.80	
For >50 To 100, Add	29.40	
For >500 To 1,000, Deduct	-8.36	
For >1,000 To 2,000, Deduct	-12.81	
For >2,000 To 5,000, Deduct	-21.54	
For >5,000, Deduct	-35.56	
33 01 30 72-0042 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	194.40	
For Vinylester Resin, Add	119.31	
For Epoxy Resin, Add	14.06	
For Up To >10, Add	157.10	
For >10 To 25, Add	102.51	
For >25 To 50, Add	70.03	
For >50 To 100, Add	35.01	
For >500 To 1,000, Deduct	-10.32	
For >1,000 To 2,000, Deduct	-15.78	
For >2,000 To 5,000, Deduct	-26.44	
For >5,000, Deduct	-43.67	
33 01 30 72-0043 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	232.40	
For Vinylester Resin, Add	143.75	
For Epoxy Resin, Add	16.94	
For Up To >10, Add	183.83	
For >10 To 25, Add	118.96	
For >25 To 50, Add	81.65	
For >50 To 100, Add	40.82	
For >500 To 1,000, Deduct	-12.30	
For >1,000 To 2,000, Deduct	-18.78	
For >2,000 To 5,000, Deduct	-31.40	
For >5,000, Deduct	-51.89	
33 01 30 72-0044 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	269.56	
For Vinylester Resin, Add	168.18	
For Epoxy Resin, Add	19.82	
For Up To >10, Add	208.06	
For >10 To 25, Add	133.34	
For >25 To 50, Add	92.02	
For >50 To 100, Add	46.01	
For >500 To 1,000, Deduct	-14.21	
For >1,000 To 2,000, Deduct	-21.68	
For >2,000 To 5,000, Deduct	-36.16	
For >5,000, Deduct	-59.77	
33 01 30 72-0045 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	307.15	
For Vinylester Resin, Add	192.62	
For Epoxy Resin, Add	22.70	
For Up To >10, Add	233.53	
For >10 To 25, Add	148.74	
For >25 To 50, Add	103.00	
For >50 To 100, Add	51.50	
For >500 To 1,000, Deduct	-16.16	
For >1,000 To 2,000, Deduct	-24.64	
For >2,000 To 5,000, Deduct	-41.02	
For >5,000, Deduct	-67.83	
33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0047 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	222.00	
For Vinylester Resin, Add	138.63	
For Epoxy Resin, Add	16.34	
For Up To >10, Add	170.90	
For >10 To 25, Add	109.41	
For >25 To 50, Add	75.55	
For >50 To 100, Add	37.77	
For >500 To 1,000, Deduct	-11.70	
For >1,000 To 2,000, Deduct	-17.85	
For >2,000 To 5,000, Deduct	-29.75	
For >5,000, Deduct	-49.19	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0048	LF		10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	265.81	
			For Vinylster Resin, Add	167.13	
			For Epoxy Resin, Add	19.70	
			For Up To >10, Add	200.53	
			For >10 To 25, Add	127.32	
			For >25 To 50, Add	88.33	
			For >50 To 100, Add	44.16	
			For >500 To 1,000, Deduct	-13.97	
			For >1,000 To 2,000, Deduct	-21.29	
			For >2,000 To 5,000, Deduct	-35.41	
			For >5,000, Deduct	-58.57	
33 01 30 72-0049	LF		10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	308.81	
			For Vinylster Resin, Add	195.65	
			For Epoxy Resin, Add	23.06	
			For Up To >10, Add	227.68	
			For >10 To 25, Add	143.15	
			For >25 To 50, Add	99.87	
			For >50 To 100, Add	49.93	
			For >500 To 1,000, Deduct	-16.17	
			For >1,000 To 2,000, Deduct	-24.63	
			For >2,000 To 5,000, Deduct	-40.87	
			For >5,000, Deduct	-67.62	
33 01 30 72-0050	LF		10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	352.21	
			For Vinylster Resin, Add	224.16	
			For Epoxy Resin, Add	26.42	
			For Up To >10, Add	256.06	
			For >10 To 25, Add	160.01	
			For >25 To 50, Add	112.02	
			For >50 To 100, Add	56.01	
			For >500 To 1,000, Deduct	-18.41	
			For >1,000 To 2,000, Deduct	-28.01	
			For >2,000 To 5,000, Deduct	-46.42	
			For >5,000, Deduct	-76.84	
33 01 30 72-0051	LF		10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	396.19	
			For Vinylster Resin, Add	252.67	
			For Epoxy Resin, Add	29.78	
			For Up To >10, Add	286.17	
			For >10 To 25, Add	178.32	
			For >25 To 50, Add	125.04	
			For >50 To 100, Add	62.52	
			For >500 To 1,000, Deduct	-20.69	
			For >1,000 To 2,000, Deduct	-31.48	
			For >2,000 To 5,000, Deduct	-52.12	
			For >5,000, Deduct	-86.28	
33 01 30 72-0052	LF		10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	440.86	
			For Vinylster Resin, Add	281.18	
			For Epoxy Resin, Add	33.14	
			For Up To >10, Add	318.36	
			For >10 To 25, Add	198.35	
			For >25 To 50, Add	139.09	
			For >50 To 100, Add	69.55	
			For >500 To 1,000, Deduct	-23.02	
			For >1,000 To 2,000, Deduct	-35.02	
			For >2,000 To 5,000, Deduct	-58.00	
			For >5,000, Deduct	-96.01	
33 01 30 72-0053	LF		10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	527.25	
			For Vinylster Resin, Add	338.21	
			For Epoxy Resin, Add	39.86	
			For Up To >10, Add	373.88	
			For >10 To 25, Add	231.04	
			For >25 To 50, Add	162.78	
			For >50 To 100, Add	81.39	
			For >500 To 1,000, Deduct	-27.47	
			For >1,000 To 2,000, Deduct	-41.75	
			For >2,000 To 5,000, Deduct	-69.00	
			For >5,000, Deduct	-114.27	
33 01 30 72-0054			12mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0055	LF		12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	249.37	
			For Vinylster Resin, Add	157.79	
			For Epoxy Resin, Add	18.60	
			For Up To >10, Add	184.59	
			For >10 To 25, Add	116.25	
			For >25 To 50, Add	81.02	
			For >50 To 100, Add	40.51	
			For >500 To 1,000, Deduct	-13.07	
			For >1,000 To 2,000, Deduct	-19.90	
			For >2,000 To 5,000, Deduct	-33.04	
			For >5,000, Deduct	-54.67	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0056	LF		12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	299.02	
			For Vinylester Resin, Add	190.38	
			For Epoxy Resin, Add	22.44	
			For Up To >10, Add	217.14	
			For >10 To 25, Add	135.62	
			For >25 To 50, Add	94.97	
			For >50 To 100, Add	47.48	
			For >500 To 1,000, Deduct	-15.63	
			For >1,000 To 2,000, Deduct	-23.78	
			For >2,000 To 5,000, Deduct	-39.40	
			For >5,000, Deduct	-65.21	
33 01 30 72-0057	LF		12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	347.82	
			For Vinylester Resin, Add	222.96	
			For Epoxy Resin, Add	26.28	
			For Up To >10, Add	247.19	
			For >10 To 25, Add	152.90	
			For >25 To 50, Add	107.67	
			For >50 To 100, Add	53.83	
			For >500 To 1,000, Deduct	-18.12	
			For >1,000 To 2,000, Deduct	-27.55	
			For >2,000 To 5,000, Deduct	-45.55	
			For >5,000, Deduct	-75.43	
33 01 30 72-0058	LF		12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	397.04	
			For Vinylester Resin, Add	255.54	
			For Epoxy Resin, Add	30.12	
			For Up To >10, Add	278.47	
			For >10 To 25, Add	171.22	
			For >25 To 50, Add	120.98	
			For >50 To 100, Add	60.49	
			For >500 To 1,000, Deduct	-20.65	
			For >1,000 To 2,000, Deduct	-31.38	
			For >2,000 To 5,000, Deduct	-51.80	
			For >5,000, Deduct	-85.80	
33 01 30 72-0059	LF		12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	446.84	
			For Vinylester Resin, Add	288.13	
			For Epoxy Resin, Add	33.96	
			For Up To >10, Add	311.50	
			For >10 To 25, Add	190.98	
			For >25 To 50, Add	135.17	
			For >50 To 100, Add	67.58	
			For >500 To 1,000, Deduct	-23.22	
			For >1,000 To 2,000, Deduct	-35.27	
			For >2,000 To 5,000, Deduct	-58.20	
			For >5,000, Deduct	-96.41	
33 01 30 72-0060	LF		12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	497.32	
			For Vinylester Resin, Add	320.71	
			For Epoxy Resin, Add	37.80	
			For Up To >10, Add	346.59	
			For >10 To 25, Add	212.46	
			For >25 To 50, Add	150.39	
			For >50 To 100, Add	75.19	
			For >500 To 1,000, Deduct	-25.85	
			For >1,000 To 2,000, Deduct	-39.26	
			For >2,000 To 5,000, Deduct	-64.77	
			For >5,000, Deduct	-107.30	
33 01 30 72-0061	LF		12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	595.36	
			For Vinylester Resin, Add	385.88	
			For Epoxy Resin, Add	45.48	
			For Up To >10, Add	407.93	
			For >10 To 25, Add	248.07	
			For >25 To 50, Add	176.40	
			For >50 To 100, Add	88.20	
			For >500 To 1,000, Deduct	-30.87	
			For >1,000 To 2,000, Deduct	-46.86	
			For >2,000 To 5,000, Deduct	-77.18	
			For >5,000, Deduct	-127.89	
33 01 30 72-0062	LF		12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	694.65	
			For Vinylester Resin, Add	451.05	
			For Epoxy Resin, Add	53.16	
			For Up To >10, Add	473.08	
			For >10 To 25, Add	286.84	
			For >25 To 50, Add	204.32	
			For >50 To 100, Add	102.16	
			For >500 To 1,000, Deduct	-35.99	
			For >1,000 To 2,000, Deduct	-54.61	
			For >2,000 To 5,000, Deduct	-89.90	
			For >5,000, Deduct	-148.99	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0063	LF		12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	796.20	
			For Vinylester Resin, Add	516.22	
			For Epoxy Resin, Add	60.84	
			For Up To >10, Add	544.98	
			For >10 To 25, Add	331.24	
			For >25 To 50, Add	235.62	
			For >50 To 100, Add	117.81	
			For >500 To 1,000, Deduct	-41.28	
			For >1,000 To 2,000, Deduct	-62.65	
			For >2,000 To 5,000, Deduct	-103.18	
			For >5,000, Deduct	-170.99	
33 01 30 72-0064			13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0065	LF		13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	276.52	
			For Vinylester Resin, Add	176.79	
			For Epoxy Resin, Add	20.84	
			For Up To >10, Add	198.16	
			For >10 To 25, Add	123.04	
			For >25 To 50, Add	86.45	
			For >50 To 100, Add	43.23	
			For >500 To 1,000, Deduct	-14.43	
			For >1,000 To 2,000, Deduct	-21.94	
			For >2,000 To 5,000, Deduct	-36.30	
			For >5,000, Deduct	-60.10	
33 01 30 72-0066	LF		13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	331.98	
			For Vinylester Resin, Add	213.45	
			For Epoxy Resin, Add	25.16	
			For Up To >10, Add	233.62	
			For >10 To 25, Add	143.86	
			For >25 To 50, Add	101.56	
			For >50 To 100, Add	50.78	
			For >500 To 1,000, Deduct	-17.28	
			For >1,000 To 2,000, Deduct	-26.25	
			For >2,000 To 5,000, Deduct	-43.35	
			For >5,000, Deduct	-71.81	
33 01 30 72-0067	LF		13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	386.61	
			For Vinylester Resin, Add	250.11	
			For Epoxy Resin, Add	29.48	
			For Up To >10, Add	266.58	
			For >10 To 25, Add	162.60	
			For >25 To 50, Add	115.43	
			For >50 To 100, Add	57.71	
			For >500 To 1,000, Deduct	-20.06	
			For >1,000 To 2,000, Deduct	-30.46	
			For >2,000 To 5,000, Deduct	-50.20	
			For >5,000, Deduct	-83.18	
33 01 30 72-0068	LF		13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	441.64	
			For Vinylester Resin, Add	286.76	
			For Epoxy Resin, Add	33.80	
			For Up To >10, Add	300.77	
			For >10 To 25, Add	182.37	
			For >25 To 50, Add	129.90	
			For >50 To 100, Add	64.95	
			For >500 To 1,000, Deduct	-22.88	
			For >1,000 To 2,000, Deduct	-34.72	
			For >2,000 To 5,000, Deduct	-57.15	
			For >5,000, Deduct	-94.72	
33 01 30 72-0069	LF		13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	497.26	
			For Vinylester Resin, Add	323.42	
			For Epoxy Resin, Add	38.12	
			For Up To >10, Add	336.71	
			For >10 To 25, Add	203.58	
			For >25 To 50, Add	145.25	
			For >50 To 100, Add	72.63	
			For >500 To 1,000, Deduct	-25.74	
			For >1,000 To 2,000, Deduct	-39.06	
			For >2,000 To 5,000, Deduct	-64.25	
			For >5,000, Deduct	-106.50	
33 01 30 72-0070	LF		13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	553.57	
			For Vinylester Resin, Add	360.08	
			For Epoxy Resin, Add	42.44	
			For Up To >10, Add	374.71	
			For >10 To 25, Add	226.53	
			For >25 To 50, Add	161.64	
			For >50 To 100, Add	80.82	
			For >500 To 1,000, Deduct	-28.66	
			For >1,000 To 2,000, Deduct	-43.48	
			For >2,000 To 5,000, Deduct	-71.52	
			For >5,000, Deduct	-118.55	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0071 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	663.23	
For Vinylester Resin, Add	433.39	
For Epoxy Resin, Add	51.08	
For Up To >10, Add	441.87	
For >10 To 25, Add	265.03	
For >25 To 50, Add	189.98	
For >50 To 100, Add	94.99	
For >500 To 1,000, Deduct	-34.26	
For >1,000 To 2,000, Deduct	-51.95	
For >2,000 To 5,000, Deduct	-85.32	
For >5,000, Deduct	-141.47	
33 01 30 72-0072 LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	774.17	
For Vinylester Resin, Add	506.71	
For Epoxy Resin, Add	59.72	
For Up To >10, Add	512.84	
For >10 To 25, Add	306.72	
For >25 To 50, Add	220.22	
For >50 To 100, Add	110.11	
For >500 To 1,000, Deduct	-39.97	
For >1,000 To 2,000, Deduct	-60.58	
For >2,000 To 5,000, Deduct	-99.44	
For >5,000, Deduct	-164.89	
33 01 30 72-0073 LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	887.35	
For Vinylester Resin, Add	580.02	
For Epoxy Resin, Add	68.36	
For Up To >10, Add	590.55	
For >10 To 25, Add	354.03	
For >25 To 50, Add	253.85	
For >50 To 100, Add	126.92	
For >500 To 1,000, Deduct	-45.84	
For >1,000 To 2,000, Deduct	-69.49	
For >2,000 To 5,000, Deduct	-114.12	
For >5,000, Deduct	-189.22	
33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0075 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	303.44	
For Vinylester Resin, Add	195.64	
For Epoxy Resin, Add	23.06	
For Up To >10, Add	211.62	
For >10 To 25, Add	129.77	
For >25 To 50, Add	91.84	
For >50 To 100, Add	45.92	
For >500 To 1,000, Deduct	-15.77	
For >1,000 To 2,000, Deduct	-23.96	
For >2,000 To 5,000, Deduct	-39.53	
For >5,000, Deduct	-65.48	
33 01 30 72-0076 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	364.71	
For Vinylester Resin, Add	236.36	
For Epoxy Resin, Add	27.86	
For Up To >10, Add	249.98	
For >10 To 25, Add	152.04	
For >25 To 50, Add	108.11	
For >50 To 100, Add	54.05	
For >500 To 1,000, Deduct	-18.91	
For >1,000 To 2,000, Deduct	-28.71	
For >2,000 To 5,000, Deduct	-47.28	
For >5,000, Deduct	-78.35	
33 01 30 72-0077 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	425.16	
For Vinylester Resin, Add	277.10	
For Epoxy Resin, Add	32.66	
For Up To >10, Add	285.86	
For >10 To 25, Add	172.24	
For >25 To 50, Add	123.14	
For >50 To 100, Add	61.57	
For >500 To 1,000, Deduct	-21.99	
For >1,000 To 2,000, Deduct	-33.35	
For >2,000 To 5,000, Deduct	-54.83	
For >5,000, Deduct	-90.89	
33 01 30 72-0078 LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	486.01	
For Vinylester Resin, Add	317.82	
For Epoxy Resin, Add	37.46	
For Up To >10, Add	322.96	
For >10 To 25, Add	193.46	
For >25 To 50, Add	138.78	
For >50 To 100, Add	69.39	
For >500 To 1,000, Deduct	-25.10	
For >1,000 To 2,000, Deduct	-38.05	
For >2,000 To 5,000, Deduct	-62.48	
For >5,000, Deduct	-103.60	



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		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0079	LF		15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	547.45	
			For Vinylester Resin, Add	358.55	
			For Epoxy Resin, Add	42.26	
			For Up To >10, Add	361.80	
			For >10 To 25, Add	216.13	
			For >25 To 50, Add	155.29	
			For >50 To 100, Add	77.64	
			For >500 To 1,000, Deduct	-28.25	
			For >1,000 To 2,000, Deduct	-42.82	
			For >2,000 To 5,000, Deduct	-70.27	
			For >5,000, Deduct	-116.54	
33 01 30 72-0080	LF		15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	609.58	
			For Vinylester Resin, Add	399.29	
			For Epoxy Resin, Add	47.06	
			For Up To >10, Add	402.72	
			For >10 To 25, Add	240.53	
			For >25 To 50, Add	172.84	
			For >50 To 100, Add	86.42	
			For >500 To 1,000, Deduct	-31.46	
			For >1,000 To 2,000, Deduct	-47.68	
			For >2,000 To 5,000, Deduct	-78.24	
			For >5,000, Deduct	-129.75	
33 01 30 72-0081	LF		15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	730.88	
			For Vinylester Resin, Add	480.75	
			For Epoxy Resin, Add	56.66	
			For Up To >10, Add	475.69	
			For >10 To 25, Add	281.95	
			For >25 To 50, Add	203.51	
			For >50 To 100, Add	101.75	
			For >500 To 1,000, Deduct	-37.65	
			For >1,000 To 2,000, Deduct	-57.02	
			For >2,000 To 5,000, Deduct	-93.44	
			For >5,000, Deduct	-155.00	
33 01 30 72-0082	LF		15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	853.45	
			For Vinylester Resin, Add	562.21	
			For Epoxy Resin, Add	66.26	
			For Up To >10, Add	552.48	
			For >10 To 25, Add	326.54	
			For >25 To 50, Add	236.08	
			For >50 To 100, Add	118.04	
			For >500 To 1,000, Deduct	-43.93	
			For >1,000 To 2,000, Deduct	-66.52	
			For >2,000 To 5,000, Deduct	-108.95	
			For >5,000, Deduct	-180.75	
33 01 30 72-0083	LF		15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	978.27	
			For Vinylester Resin, Add	643.66	
			For Epoxy Resin, Add	75.86	
			For Up To >10, Add	636.01	
			For >10 To 25, Add	376.76	
			For >25 To 50, Add	272.03	
			For >50 To 100, Add	136.01	
			For >500 To 1,000, Deduct	-50.38	
			For >1,000 To 2,000, Deduct	-76.31	
			For >2,000 To 5,000, Deduct	-125.03	
			For >5,000, Deduct	-207.40	
33 01 30 72-0084 16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0085	LF		16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	397.22	
			For Vinylester Resin, Add	259.12	
			For Epoxy Resin, Add	30.54	
			For Up To >10, Add	266.24	
			For >10 To 25, Add	160.17	
			For >25 To 50, Add	114.61	
			For >50 To 100, Add	57.30	
			For >500 To 1,000, Deduct	-20.54	
			For >1,000 To 2,000, Deduct	-31.14	
			For >2,000 To 5,000, Deduct	-51.18	
			For >5,000, Deduct	-84.85	
33 01 30 72-0086	LF		16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	463.48	
			For Vinylester Resin, Add	303.92	
			For Epoxy Resin, Add	35.82	
			For Up To >10, Add	305.02	
			For >10 To 25, Add	181.82	
			For >25 To 50, Add	130.80	
			For >50 To 100, Add	65.40	
			For >500 To 1,000, Deduct	-23.91	
			For >1,000 To 2,000, Deduct	-36.23	
			For >2,000 To 5,000, Deduct	-59.43	
			For >5,000, Deduct	-98.56	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0087 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	530.16	
For Vinylester Resin, Add	348.73	
For Epoxy Resin, Add	41.10	
For Up To >10, Add	345.03	
For >10 To 25, Add	204.50	
For >25 To 50, Add	147.61	
For >50 To 100, Add	73.80	
For >500 To 1,000, Deduct	-27.31	
For >1,000 To 2,000, Deduct	-41.36	
For >2,000 To 5,000, Deduct	-67.78	
For >5,000, Deduct	-112.43	
33 01 30 72-0088 LF 16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	597.41	
For Vinylester Resin, Add	393.53	
For Epoxy Resin, Add	46.38	
For Up To >10, Add	386.78	
For >10 To 25, Add	228.62	
For >25 To 50, Add	165.28	
For >50 To 100, Add	82.64	
For >500 To 1,000, Deduct	-30.75	
For >1,000 To 2,000, Deduct	-46.57	
For >2,000 To 5,000, Deduct	-76.27	
For >5,000, Deduct	-126.53	
33 01 30 72-0089 LF 16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	665.36	
For Vinylester Resin, Add	438.33	
For Epoxy Resin, Add	51.66	
For Up To >10, Add	430.61	
For >10 To 25, Add	254.47	
For >25 To 50, Add	183.99	
For >50 To 100, Add	92.00	
For >500 To 1,000, Deduct	-34.25	
For >1,000 To 2,000, Deduct	-51.86	
For >2,000 To 5,000, Deduct	-84.94	
For >5,000, Deduct	-140.91	
33 01 30 72-0090 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	798.30	
For Vinylester Resin, Add	527.94	
For Epoxy Resin, Add	62.22	
For Up To >10, Add	509.40	
For >10 To 25, Add	298.80	
For >25 To 50, Add	216.99	
For >50 To 100, Add	108.50	
For >500 To 1,000, Deduct	-41.02	
For >1,000 To 2,000, Deduct	-62.08	
For >2,000 To 5,000, Deduct	-101.53	
For >5,000, Deduct	-168.48	
33 01 30 72-0091 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	932.50	
For Vinylester Resin, Add	617.54	
For Epoxy Resin, Add	72.78	
For Up To >10, Add	592.00	
For >10 To 25, Add	346.30	
For >25 To 50, Add	251.89	
For >50 To 100, Add	125.95	
For >500 To 1,000, Deduct	-47.88	
For >1,000 To 2,000, Deduct	-72.45	
For >2,000 To 5,000, Deduct	-118.44	
For >5,000, Deduct	-196.56	
33 01 30 72-0092 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,068.96	
For Vinylester Resin, Add	707.15	
For Epoxy Resin, Add	83.34	
For Up To >10, Add	681.36	
For >10 To 25, Add	399.43	
For >25 To 50, Add	290.17	
For >50 To 100, Add	145.08	
For >500 To 1,000, Deduct	-54.92	
For >1,000 To 2,000, Deduct	-83.11	
For >2,000 To 5,000, Deduct	-135.91	
For >5,000, Deduct	-225.54	
33 01 30 72-0093 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,204.46	
For Vinylester Resin, Add	796.76	
For Epoxy Resin, Add	93.90	
For Up To >10, Add	767.81	
For >10 To 25, Add	450.13	
For >25 To 50, Add	326.99	
For >50 To 100, Add	163.50	
For >500 To 1,000, Deduct	-61.88	
For >1,000 To 2,000, Deduct	-93.65	
For >2,000 To 5,000, Deduct	-153.15	
For >5,000, Deduct	-254.14	

33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



		Utilities	33	33
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0095	LF		18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	430.19	
			For Vinylester Resin, Add	281.71	
			For Epoxy Resin, Add	33.20	
			For Up To >10, Add	284.47	
			For >10 To 25, Add	169.99	
			For >25 To 50, Add	122.11	
			For >50 To 100, Add	61.06	
			For >500 To 1,000, Deduct	-22.20	
			For >1,000 To 2,000, Deduct	-33.65	
			For >2,000 To 5,000, Deduct	-55.23	
			For >5,000, Deduct	-91.59	
33 01 30 72-0096	LF		18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	502.42	
			For Vinylester Resin, Add	330.59	
			For Epoxy Resin, Add	38.96	
			For Up To >10, Add	326.59	
			For >10 To 25, Add	193.44	
			For >25 To 50, Add	139.68	
			For >50 To 100, Add	69.84	
			For >500 To 1,000, Deduct	-25.87	
			For >1,000 To 2,000, Deduct	-39.19	
			For >2,000 To 5,000, Deduct	-64.21	
			For >5,000, Deduct	-106.51	
33 01 30 72-0097	LF		18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	574.92	
			For Vinylester Resin, Add	379.46	
			For Epoxy Resin, Add	44.72	
			For Up To >10, Add	369.54	
			For >10 To 25, Add	217.60	
			For >25 To 50, Add	157.66	
			For >50 To 100, Add	78.83	
			For >500 To 1,000, Deduct	-29.57	
			For >1,000 To 2,000, Deduct	-44.76	
			For >2,000 To 5,000, Deduct	-73.26	
			For >5,000, Deduct	-121.55	
33 01 30 72-0098	LF		18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	648.13	
			For Vinylester Resin, Add	428.34	
			For Epoxy Resin, Add	50.48	
			For Up To >10, Add	414.59	
			For >10 To 25, Add	243.51	
			For >25 To 50, Add	176.70	
			For >50 To 100, Add	88.35	
			For >500 To 1,000, Deduct	-33.31	
			For >1,000 To 2,000, Deduct	-50.42	
			For >2,000 To 5,000, Deduct	-82.48	
			For >5,000, Deduct	-136.87	
33 01 30 72-0099	LF		18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	721.88	
			For Vinylester Resin, Add	477.21	
			For Epoxy Resin, Add	56.24	
			For Up To >10, Add	461.32	
			For >10 To 25, Add	270.81	
			For >25 To 50, Add	196.57	
			For >50 To 100, Add	98.29	
			For >500 To 1,000, Deduct	-37.10	
			For >1,000 To 2,000, Deduct	-56.15	
			For >2,000 To 5,000, Deduct	-91.85	
			For >5,000, Deduct	-152.41	
33 01 30 72-0100	LF		18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	867.60	
			For Vinylester Resin, Add	574.97	
			For Epoxy Resin, Add	67.76	
			For Up To >10, Add	549.33	
			For >10 To 25, Add	320.87	
			For >25 To 50, Add	233.59	
			For >50 To 100, Add	116.80	
			For >500 To 1,000, Deduct	-44.54	
			For >1,000 To 2,000, Deduct	-67.38	
			For >2,000 To 5,000, Deduct	-110.12	
			For >5,000, Deduct	-182.76	
33 01 30 72-0101	LF		18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,013.88	
			For Vinylester Resin, Add	672.73	
			For Epoxy Resin, Add	79.29	
			For Up To >10, Add	639.04	
			For >10 To 25, Add	372.36	
			For >25 To 50, Add	271.47	
			For >50 To 100, Add	135.73	
			For >500 To 1,000, Deduct	-52.02	
			For >1,000 To 2,000, Deduct	-78.68	
			For >2,000 To 5,000, Deduct	-128.53	
			For >5,000, Deduct	-213.34	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0102	LF		18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,162.39	
			For Vinylester Resin, Add	770.48	
			For Epoxy Resin, Add	90.81	
			For Up To >10, Add	735.47	
			For >10 To 25, Add	429.45	
			For >25 To 50, Add	312.70	
			For >50 To 100, Add	156.35	
			For >500 To 1,000, Deduct	-59.66	
			For >1,000 To 2,000, Deduct	-90.26	
			For >2,000 To 5,000, Deduct	-147.51	
			For >5,000, Deduct	-244.82	
33 01 30 72-0103	LF		18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,309.93	
			For Vinylester Resin, Add	868.23	
			For Epoxy Resin, Add	102.33	
			For Up To >10, Add	828.97	
			For >10 To 25, Add	484.08	
			For >25 To 50, Add	352.47	
			For >50 To 100, Add	176.23	
			For >500 To 1,000, Deduct	-67.24	
			For >1,000 To 2,000, Deduct	-101.72	
			For >2,000 To 5,000, Deduct	-166.24	
			For >5,000, Deduct	-275.91	
33 01 30 72-0104	LF		18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,457.32	
			For Vinylester Resin, Add	965.98	
			For Epoxy Resin, Add	113.85	
			For Up To >10, Add	922.04	
			For >10 To 25, Add	538.37	
			For >25 To 50, Add	392.02	
			For >50 To 100, Add	196.01	
			For >500 To 1,000, Deduct	-74.80	
			For >1,000 To 2,000, Deduct	-113.17	
			For >2,000 To 5,000, Deduct	-184.93	
			For >5,000, Deduct	-306.93	
33 01 30 72-0105	LF		18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,605.29	
			For Vinylester Resin, Add	1,063.73	
			For Epoxy Resin, Add	125.37	
			For Up To >10, Add	1,016.82	
			For >10 To 25, Add	594.08	
			For >25 To 50, Add	432.43	
			For >50 To 100, Add	216.21	
			For >500 To 1,000, Deduct	-82.41	
			For >1,000 To 2,000, Deduct	-124.68	
			For >2,000 To 5,000, Deduct	-203.77	
			For >5,000, Deduct	-338.19	
33 01 30 72-0106	LF		18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,752.82	
			For Vinylester Resin, Add	1,161.48	
			For Epoxy Resin, Add	136.89	
			For Up To >10, Add	1,110.31	
			For >10 To 25, Add	648.72	
			For >25 To 50, Add	472.19	
			For >50 To 100, Add	236.10	
			For >500 To 1,000, Deduct	-89.98	
			For >1,000 To 2,000, Deduct	-136.14	
			For >2,000 To 5,000, Deduct	-222.50	
			For >5,000, Deduct	-369.28	
33 01 30 72-0107			19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0108	LF		19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	463.37	
			For Vinylester Resin, Add	304.14	
			For Epoxy Resin, Add	35.85	
			For Up To >10, Add	303.89	
			For >10 To 25, Add	180.82	
			For >25 To 50, Add	130.22	
			For >50 To 100, Add	65.11	
			For >500 To 1,000, Deduct	-23.89	
			For >1,000 To 2,000, Deduct	-36.20	
			For >2,000 To 5,000, Deduct	-59.36	
			For >5,000, Deduct	-98.45	
33 01 30 72-0109	LF		19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	541.42	
			For Vinylester Resin, Add	357.10	
			For Epoxy Resin, Add	42.09	
			For Up To >10, Add	348.91	
			For >10 To 25, Add	205.74	
			For >25 To 50, Add	148.95	
			For >50 To 100, Add	74.47	
			For >500 To 1,000, Deduct	-27.85	
			For >1,000 To 2,000, Deduct	-42.17	
			For >2,000 To 5,000, Deduct	-69.04	
			For >5,000, Deduct	-114.54	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0110	LF		19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	619.87	
			For Vinylester Resin, Add	410.04	
			For Epoxy Resin, Add	48.33	
			For Up To >10, Add	395.19	
			For >10 To 25, Add	231.69	
			For >25 To 50, Add	168.30	
			For >50 To 100, Add	84.15	
			For >500 To 1,000, Deduct	-31.85	
			For >1,000 To 2,000, Deduct	-48.20	
			For >2,000 To 5,000, Deduct	-78.82	
			For >5,000, Deduct	-130.79	
33 01 30 72-0111	LF		19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	698.61	
			For Vinylester Resin, Add	462.99	
			For Epoxy Resin, Add	54.57	
			For Up To >10, Add	442.28	
			For >10 To 25, Add	258.33	
			For >25 To 50, Add	188.07	
			For >50 To 100, Add	94.03	
			For >500 To 1,000, Deduct	-35.86	
			For >1,000 To 2,000, Deduct	-54.26	
			For >2,000 To 5,000, Deduct	-88.67	
			For >5,000, Deduct	-147.16	
33 01 30 72-0112	LF		19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	778.48	
			For Vinylester Resin, Add	515.94	
			For Epoxy Resin, Add	60.81	
			For Up To >10, Add	492.79	
			For >10 To 25, Add	287.82	
			For >25 To 50, Add	209.54	
			For >50 To 100, Add	104.77	
			For >500 To 1,000, Deduct	-39.96	
			For >1,000 To 2,000, Deduct	-60.46	
			For >2,000 To 5,000, Deduct	-98.80	
			For >5,000, Deduct	-163.98	
33 01 30 72-0113	LF		19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	937.09	
			For Vinylester Resin, Add	621.84	
			For Epoxy Resin, Add	73.29	
			For Up To >10, Add	590.42	
			For >10 To 25, Add	343.96	
			For >25 To 50, Add	250.79	
			For >50 To 100, Add	125.40	
			For >500 To 1,000, Deduct	-48.07	
			For >1,000 To 2,000, Deduct	-72.72	
			For >2,000 To 5,000, Deduct	-118.79	
			For >5,000, Deduct	-197.17	
33 01 30 72-0114	LF		19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,096.12	
			For Vinylester Resin, Add	727.73	
			For Epoxy Resin, Add	85.77	
			For Up To >10, Add	689.31	
			For >10 To 25, Add	401.16	
			For >25 To 50, Add	292.67	
			For >50 To 100, Add	146.34	
			For >500 To 1,000, Deduct	-56.22	
			For >1,000 To 2,000, Deduct	-85.03	
			For >2,000 To 5,000, Deduct	-138.88	
			For >5,000, Deduct	-230.52	
33 01 30 72-0115	LF		19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,256.14	
			For Vinylester Resin, Add	833.64	
			For Epoxy Resin, Add	98.25	
			For Up To >10, Add	791.15	
			For >10 To 25, Add	460.80	
			For >25 To 50, Add	336.03	
			For >50 To 100, Add	168.01	
			For >500 To 1,000, Deduct	-64.44	
			For >1,000 To 2,000, Deduct	-97.47	
			For >2,000 To 5,000, Deduct	-159.22	
			For >5,000, Deduct	-264.27	
33 01 30 72-0116	LF		19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,415.75	
			For Vinylester Resin, Add	939.54	
			For Epoxy Resin, Add	110.73	
			For Up To >10, Add	891.75	
			For >10 To 25, Add	519.43	
			For >25 To 50, Add	378.77	
			For >50 To 100, Add	189.38	
			For >500 To 1,000, Deduct	-72.63	
			For >1,000 To 2,000, Deduct	-109.86	
			For >2,000 To 5,000, Deduct	-179.45	
			For >5,000, Deduct	-297.86	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0117 LF 19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,575.34	
For Vinylester Resin, Add	1,045.44	
For Epoxy Resin, Add	123.21	
For Up To >10, Add	992.32	
For >10 To 25, Add	578.02	
For >25 To 50, Add	421.49	
For >50 To 100, Add	210.74	
For >500 To 1,000, Deduct	-80.81	
For >1,000 To 2,000, Deduct	-122.24	
For >2,000 To 5,000, Deduct	-199.68	
For >5,000, Deduct	-331.44	
33 01 30 72-0118 LF 19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,736.63	
For Vinylester Resin, Add	1,151.34	
For Epoxy Resin, Add	135.69	
For Up To >10, Add	1,097.97	
For >10 To 25, Add	640.84	
For >25 To 50, Add	466.74	
For >50 To 100, Add	233.37	
For >500 To 1,000, Deduct	-89.13	
For >1,000 To 2,000, Deduct	-134.84	
For >2,000 To 5,000, Deduct	-220.34	
For >5,000, Deduct	-365.70	
33 01 30 72-0119 LF 19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,896.36	
For Vinylester Resin, Add	1,257.23	
For Epoxy Resin, Add	148.17	
For Up To >10, Add	1,198.98	
For >10 To 25, Add	699.81	
For >25 To 50, Add	509.69	
For >50 To 100, Add	254.84	
For >500 To 1,000, Deduct	-97.33	
For >1,000 To 2,000, Deduct	-147.24	
For >2,000 To 5,000, Deduct	-240.60	
For >5,000, Deduct	-399.34	
33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0121 LF 21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	496.18	
For Vinylester Resin, Add	326.42	
For Epoxy Resin, Add	38.47	
For Up To >10, Add	322.77	
For >10 To 25, Add	191.25	
For >25 To 50, Add	138.07	
For >50 To 100, Add	69.03	
For >500 To 1,000, Deduct	-25.56	
For >1,000 To 2,000, Deduct	-38.71	
For >2,000 To 5,000, Deduct	-63.42	
For >5,000, Deduct	-105.21	
33 01 30 72-0122 LF 21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	580.17	
For Vinylester Resin, Add	383.44	
For Epoxy Resin, Add	45.19	
For Up To >10, Add	371.09	
For >10 To 25, Add	217.94	
For >25 To 50, Add	158.15	
For >50 To 100, Add	79.08	
For >500 To 1,000, Deduct	-29.82	
For >1,000 To 2,000, Deduct	-45.13	
For >2,000 To 5,000, Deduct	-73.83	
For >5,000, Deduct	-122.51	
33 01 30 72-0123 LF 21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	664.60	
For Vinylester Resin, Add	440.47	
For Epoxy Resin, Add	51.91	
For Up To >10, Add	420.70	
For >10 To 25, Add	245.71	
For >25 To 50, Add	178.89	
For >50 To 100, Add	89.44	
For >500 To 1,000, Deduct	-34.11	
For >1,000 To 2,000, Deduct	-51.61	
For >2,000 To 5,000, Deduct	-84.35	
For >5,000, Deduct	-139.99	
33 01 30 72-0124 LF 21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	748.88	
For Vinylester Resin, Add	497.48	
For Epoxy Resin, Add	58.63	
For Up To >10, Add	469.92	
For >10 To 25, Add	273.15	
For >25 To 50, Add	199.42	
For >50 To 100, Add	99.71	
For >500 To 1,000, Deduct	-38.40	
For >1,000 To 2,000, Deduct	-58.08	
For >2,000 To 5,000, Deduct	-94.83	
For >5,000, Deduct	-157.41	



	Utilities	33	
	Operation and Maintenance of Utilities	33 01	
	Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0125	LF		21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	834.71	
			For Vinylester Resin, Add	554.51	
			For Epoxy Resin, Add	65.35	
			For Up To >10, Add	523.73	
			For >10 To 25, Add	304.42	
			For >25 To 50, Add	222.26	
			For >50 To 100, Add	111.13	
			For >500 To 1,000, Deduct	-42.80	
			For >1,000 To 2,000, Deduct	-64.73	
			For >2,000 To 5,000, Deduct	-105.70	
			For >5,000, Deduct	-175.45	
33 01 30 72-0126	LF		21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,006.37	
			For Vinylester Resin, Add	668.56	
			For Epoxy Resin, Add	78.79	
			For Up To >10, Add	631.41	
			For >10 To 25, Add	367.00	
			For >25 To 50, Add	267.95	
			For >50 To 100, Add	133.98	
			For >500 To 1,000, Deduct	-51.60	
			For >1,000 To 2,000, Deduct	-78.04	
			For >2,000 To 5,000, Deduct	-127.43	
			For >5,000, Deduct	-211.53	
33 01 30 72-0127	LF		21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,178.02	
			For Vinylester Resin, Add	782.60	
			For Epoxy Resin, Add	92.24	
			For Up To >10, Add	739.06	
			For >10 To 25, Add	429.55	
			For >25 To 50, Add	313.63	
			For >50 To 100, Add	156.82	
			For >500 To 1,000, Deduct	-60.40	
			For >1,000 To 2,000, Deduct	-91.35	
			For >2,000 To 5,000, Deduct	-149.17	
			For >5,000, Deduct	-247.61	
33 01 30 72-0128	LF		21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,349.68	
			For Vinylester Resin, Add	896.64	
			For Epoxy Resin, Add	105.68	
			For Up To >10, Add	846.74	
			For >10 To 25, Add	492.13	
			For >25 To 50, Add	359.32	
			For >50 To 100, Add	179.66	
			For >500 To 1,000, Deduct	-69.20	
			For >1,000 To 2,000, Deduct	-104.66	
			For >2,000 To 5,000, Deduct	-170.90	
			For >5,000, Deduct	-283.69	
33 01 30 72-0129	LF		21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,521.34	
			For Vinylester Resin, Add	1,010.69	
			For Epoxy Resin, Add	119.12	
			For Up To >10, Add	954.42	
			For >10 To 25, Add	554.71	
			For >25 To 50, Add	405.02	
			For >50 To 100, Add	202.51	
			For >500 To 1,000, Deduct	-78.00	
			For >1,000 To 2,000, Deduct	-117.98	
			For >2,000 To 5,000, Deduct	-192.64	
			For >5,000, Deduct	-319.77	
33 01 30 72-0130	LF		21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,692.99	
			For Vinylester Resin, Add	1,124.73	
			For Epoxy Resin, Add	132.56	
			For Up To >10, Add	1,062.07	
			For >10 To 25, Add	617.27	
			For >25 To 50, Add	450.70	
			For >50 To 100, Add	225.35	
			For >500 To 1,000, Deduct	-86.81	
			For >1,000 To 2,000, Deduct	-131.29	
			For >2,000 To 5,000, Deduct	-214.37	
			For >5,000, Deduct	-355.84	
33 01 30 72-0131	LF		21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,867.75	
			For Vinylester Resin, Add	1,238.78	
			For Epoxy Resin, Add	146.00	
			For Up To >10, Add	1,179.05	
			For >10 To 25, Add	687.60	
			For >25 To 50, Add	501.04	
			For >50 To 100, Add	250.52	
			For >500 To 1,000, Deduct	-95.84	
			For >1,000 To 2,000, Deduct	-144.98	
			For >2,000 To 5,000, Deduct	-236.88	
			For >5,000, Deduct	-393.16	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0132 LF 21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,039.68	
For Vinylester Resin, Add	1,352.82	
For Epoxy Resin, Add	159.44	
For Up To >10, Add	1,287.54	
For >10 To 25, Add	750.85	
For >25 To 50, Add	547.14	
For >50 To 100, Add	273.57	
For >500 To 1,000, Deduct	-104.66	
For >1,000 To 2,000, Deduct	-158.33	
For >2,000 To 5,000, Deduct	-258.68	
For >5,000, Deduct	-429.35	
33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0134 LF 22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	528.62	
For Vinylester Resin, Add	348.54	
For Epoxy Resin, Add	41.08	
For Up To >10, Add	341.09	
For >10 To 25, Add	201.25	
For >25 To 50, Add	145.65	
For >50 To 100, Add	72.82	
For >500 To 1,000, Deduct	-27.20	
For >1,000 To 2,000, Deduct	-41.18	
For >2,000 To 5,000, Deduct	-67.43	
For >5,000, Deduct	-111.87	
33 01 30 72-0135 LF 22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	618.43	
For Vinylester Resin, Add	409.63	
For Epoxy Resin, Add	48.28	
For Up To >10, Add	392.34	
For >10 To 25, Add	229.42	
For >25 To 50, Add	166.91	
For >50 To 100, Add	83.46	
For >500 To 1,000, Deduct	-31.75	
For >1,000 To 2,000, Deduct	-48.04	
For >2,000 To 5,000, Deduct	-78.53	
For >5,000, Deduct	-130.34	
33 01 30 72-0136 LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	709.10	
For Vinylester Resin, Add	470.73	
For Epoxy Resin, Add	55.48	
For Up To >10, Add	446.13	
For >10 To 25, Add	259.69	
For >25 To 50, Add	189.44	
For >50 To 100, Add	94.72	
For >500 To 1,000, Deduct	-36.37	
For >1,000 To 2,000, Deduct	-55.01	
For >2,000 To 5,000, Deduct	-89.85	
For >5,000, Deduct	-149.15	
33 01 30 72-0137 LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	800.18	
For Vinylester Resin, Add	531.82	
For Epoxy Resin, Add	62.68	
For Up To >10, Add	501.19	
For >10 To 25, Add	291.04	
For >25 To 50, Add	212.61	
For >50 To 100, Add	106.30	
For >500 To 1,000, Deduct	-41.02	
For >1,000 To 2,000, Deduct	-62.04	
For >2,000 To 5,000, Deduct	-101.28	
For >5,000, Deduct	-168.12	
33 01 30 72-0138 LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	892.11	
For Vinylester Resin, Add	592.91	
For Epoxy Resin, Add	69.88	
For Up To >10, Add	558.78	
For >10 To 25, Add	324.48	
For >25 To 50, Add	237.04	
For >50 To 100, Add	118.52	
For >500 To 1,000, Deduct	-45.73	
For >1,000 To 2,000, Deduct	-69.16	
For >2,000 To 5,000, Deduct	-112.91	
For >5,000, Deduct	-187.44	
33 01 30 72-0139 LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,075.95	
For Vinylester Resin, Add	715.10	
For Epoxy Resin, Add	84.28	
For Up To >10, Add	673.93	
For >10 To 25, Add	391.34	
For >25 To 50, Add	285.88	
For >50 To 100, Add	142.94	
For >500 To 1,000, Deduct	-55.16	
For >1,000 To 2,000, Deduct	-83.42	
For >2,000 To 5,000, Deduct	-136.18	
For >5,000, Deduct	-226.07	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0140	LF		22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,259.82	
			For Vinylster Resin, Add	837.29	
			For Epoxy Resin, Add	98.68	
			For Up To >10, Add	789.14	
			For >10 To 25, Add	458.26	
			For >25 To 50, Add	334.76	
			For >50 To 100, Add	167.38	
			For >500 To 1,000, Deduct	-64.58	
			For >1,000 To 2,000, Deduct	-97.67	
			For >2,000 To 5,000, Deduct	-159.46	
			For >5,000, Deduct	-264.70	
33 01 30 72-0141	LF		22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,443.67	
			For Vinylster Resin, Add	959.48	
			For Epoxy Resin, Add	113.08	
			For Up To >10, Add	904.29	
			For >10 To 25, Add	525.12	
			For >25 To 50, Add	383.61	
			For >50 To 100, Add	191.80	
			For >500 To 1,000, Deduct	-74.01	
			For >1,000 To 2,000, Deduct	-111.92	
			For >2,000 To 5,000, Deduct	-182.73	
			For >5,000, Deduct	-303.33	
33 01 30 72-0142	LF		22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,627.54	
			For Vinylster Resin, Add	1,081.68	
			For Epoxy Resin, Add	127.48	
			For Up To >10, Add	1,019.50	
			For >10 To 25, Add	592.04	
			For >25 To 50, Add	432.49	
			For >50 To 100, Add	216.24	
			For >500 To 1,000, Deduct	-83.43	
			For >1,000 To 2,000, Deduct	-126.18	
			For >2,000 To 5,000, Deduct	-206.00	
			For >5,000, Deduct	-341.97	
33 01 30 72-0143	LF		22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,811.39	
			For Vinylster Resin, Add	1,203.87	
			For Epoxy Resin, Add	141.88	
			For Up To >10, Add	1,134.65	
			For >10 To 25, Add	658.90	
			For >25 To 50, Add	481.33	
			For >50 To 100, Add	240.67	
			For >500 To 1,000, Deduct	-92.86	
			For >1,000 To 2,000, Deduct	-140.43	
			For >2,000 To 5,000, Deduct	-229.27	
			For >5,000, Deduct	-380.59	
33 01 30 72-0144	LF		22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,998.50	
			For Vinylster Resin, Add	1,326.06	
			For Epoxy Resin, Add	156.29	
			For Up To >10, Add	1,259.58	
			For >10 To 25, Add	733.92	
			For >25 To 50, Add	535.07	
			For >50 To 100, Add	267.53	
			For >500 To 1,000, Deduct	-102.53	
			For >1,000 To 2,000, Deduct	-155.09	
			For >2,000 To 5,000, Deduct	-253.36	
			For >5,000, Deduct	-420.53	
33 01 30 72-0145	LF		22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,182.64	
			For Vinylster Resin, Add	1,448.25	
			For Epoxy Resin, Add	170.69	
			For Up To >10, Add	1,375.60	
			For >10 To 25, Add	801.51	
			For >25 To 50, Add	584.35	
			For >50 To 100, Add	292.18	
			For >500 To 1,000, Deduct	-111.97	
			For >1,000 To 2,000, Deduct	-169.38	
			For >2,000 To 5,000, Deduct	-276.70	
			For >5,000, Deduct	-459.27	
33 01 30 72-0146			24mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0147	LF		24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	560.68	
			For Vinylster Resin, Add	370.48	
			For Epoxy Resin, Add	43.66	
			For Up To >10, Add	358.89	
			For >10 To 25, Add	210.87	
			For >25 To 50, Add	152.98	
			For >50 To 100, Add	76.49	
			For >500 To 1,000, Deduct	-28.82	
			For >1,000 To 2,000, Deduct	-43.62	
			For >2,000 To 5,000, Deduct	-71.37	
			For >5,000, Deduct	-118.42	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0148	LF		24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	656.32	
			For Vinylester Resin, Add	435.65	
			For Epoxy Resin, Add	51.34	
			For Up To >10, Add	413.06	
			For >10 To 25, Add	240.49	
			For >25 To 50, Add	175.41	
			For >50 To 100, Add	87.71	
			For >500 To 1,000, Deduct	-33.67	
			For >1,000 To 2,000, Deduct	-50.92	
			For >2,000 To 5,000, Deduct	-83.17	
			For >5,000, Deduct	-138.06	
33 01 30 72-0149	LF		24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	753.22	
			For Vinylester Resin, Add	500.82	
			For Epoxy Resin, Add	59.03	
			For Up To >10, Add	471.01	
			For >10 To 25, Add	273.27	
			For >25 To 50, Add	199.73	
			For >50 To 100, Add	99.87	
			For >500 To 1,000, Deduct	-38.61	
			For >1,000 To 2,000, Deduct	-58.38	
			For >2,000 To 5,000, Deduct	-95.30	
			For >5,000, Deduct	-158.20	
33 01 30 72-0150	LF		24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	851.24	
			For Vinylester Resin, Add	565.99	
			For Epoxy Resin, Add	66.71	
			For Up To >10, Add	532.35	
			For >10 To 25, Add	308.86	
			For >25 To 50, Add	225.75	
			For >50 To 100, Add	112.87	
			For >500 To 1,000, Deduct	-43.63	
			For >1,000 To 2,000, Deduct	-65.98	
			For >2,000 To 5,000, Deduct	-107.70	
			For >5,000, Deduct	-178.79	
33 01 30 72-0151	LF		24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	949.28	
			For Vinylester Resin, Add	631.16	
			For Epoxy Resin, Add	74.39	
			For Up To >10, Add	593.69	
			For >10 To 25, Add	344.47	
			For >25 To 50, Add	251.76	
			For >50 To 100, Add	125.88	
			For >500 To 1,000, Deduct	-48.65	
			For >1,000 To 2,000, Deduct	-73.58	
			For >2,000 To 5,000, Deduct	-120.10	
			For >5,000, Deduct	-199.38	
33 01 30 72-0152	LF		24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,145.33	
			For Vinylester Resin, Add	761.50	
			For Epoxy Resin, Add	89.75	
			For Up To >10, Add	716.37	
			For >10 To 25, Add	415.66	
			For >25 To 50, Add	303.79	
			For >50 To 100, Add	151.90	
			For >500 To 1,000, Deduct	-58.70	
			For >1,000 To 2,000, Deduct	-88.77	
			For >2,000 To 5,000, Deduct	-144.91	
			For >5,000, Deduct	-240.56	
33 01 30 72-0153	LF		24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,390.22	
			For Vinylester Resin, Add	926.11	
			For Epoxy Resin, Add	109.15	
			For Up To >10, Add	863.14	
			For >10 To 25, Add	498.78	
			For >25 To 50, Add	365.42	
			For >50 To 100, Add	182.71	
			For >500 To 1,000, Deduct	-71.19	
			For >1,000 To 2,000, Deduct	-107.63	
			For >2,000 To 5,000, Deduct	-175.56	
			For >5,000, Deduct	-291.49	
33 01 30 72-0154	LF		24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,537.31	
			For Vinylester Resin, Add	1,022.17	
			For Epoxy Resin, Add	120.47	
			For Up To >10, Add	961.33	
			For >10 To 25, Add	557.74	
			For >25 To 50, Add	407.65	
			For >50 To 100, Add	203.83	
			For >500 To 1,000, Deduct	-78.79	
			For >1,000 To 2,000, Deduct	-119.15	
			For >2,000 To 5,000, Deduct	-194.50	
			For >5,000, Deduct	-322.88	



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		Operation and Maintenance of Utilities	33 01	
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0155	LF		24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,733.38	
			For Vinylester Resin, Add	1,152.51	
			For Epoxy Resin, Add	135.83	
			For Up To >10, Add	1,084.04	
			For >10 To 25, Add	628.96	
			For >25 To 50, Add	459.70	
			For >50 To 100, Add	229.85	
			For >500 To 1,000, Deduct	-88.84	
			For >1,000 To 2,000, Deduct	-134.35	
			For >2,000 To 5,000, Deduct	-219.31	
			For >5,000, Deduct	-364.06	
33 01 30 72-0156	LF		24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,929.43	
			For Vinylester Resin, Add	1,282.84	
			For Epoxy Resin, Add	151.19	
			For Up To >10, Add	1,206.72	
			For >10 To 25, Add	700.16	
			For >25 To 50, Add	511.73	
			For >50 To 100, Add	255.86	
			For >500 To 1,000, Deduct	-98.89	
			For >1,000 To 2,000, Deduct	-149.55	
			For >2,000 To 5,000, Deduct	-244.12	
			For >5,000, Deduct	-405.25	
33 01 30 72-0157	LF		24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,128.86	
			For Vinylester Resin, Add	1,413.17	
			For Epoxy Resin, Add	166.55	
			For Up To >10, Add	1,339.53	
			For >10 To 25, Add	779.81	
			For >25 To 50, Add	568.82	
			For >50 To 100, Add	284.41	
			For >500 To 1,000, Deduct	-109.19	
			For >1,000 To 2,000, Deduct	-165.17	
			For >2,000 To 5,000, Deduct	-269.77	
			For >5,000, Deduct	-447.78	
33 01 30 72-0158	LF		24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,325.21	
			For Vinylester Resin, Add	1,543.51	
			For Epoxy Resin, Add	181.91	
			For Up To >10, Add	1,463.08	
			For >10 To 25, Add	851.73	
			For >25 To 50, Add	621.29	
			For >50 To 100, Add	310.64	
			For >500 To 1,000, Deduct	-119.27	
			For >1,000 To 2,000, Deduct	-180.40	
			For >2,000 To 5,000, Deduct	-294.65	
			For >5,000, Deduct	-489.08	
33 01 30 72-0159	LF		24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,521.55	
			For Vinylester Resin, Add	1,673.85	
			For Epoxy Resin, Add	197.28	
			For Up To >10, Add	1,586.60	
			For >10 To 25, Add	923.63	
			For >25 To 50, Add	673.74	
			For >50 To 100, Add	336.87	
			For >500 To 1,000, Deduct	-129.34	
			For >1,000 To 2,000, Deduct	-195.63	
			For >2,000 To 5,000, Deduct	-319.53	
			For >5,000, Deduct	-530.38	
33 01 30 72-0160	LF		24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,717.89	
			For Vinylester Resin, Add	1,804.19	
			For Epoxy Resin, Add	212.64	
			For Up To >10, Add	1,710.15	
			For >10 To 25, Add	995.55	
			For >25 To 50, Add	726.20	
			For >50 To 100, Add	363.10	
			For >500 To 1,000, Deduct	-139.41	
			For >1,000 To 2,000, Deduct	-210.87	
			For >2,000 To 5,000, Deduct	-344.41	
			For >5,000, Deduct	-571.67	
33 01 30 72-0161			25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0162	LF		25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	694.39	
			For Vinylester Resin, Add	461.52	
			For Epoxy Resin, Add	54.39	
			For Up To >10, Add	434.90	
			For >10 To 25, Add	252.53	
			For >25 To 50, Add	184.48	
			For >50 To 100, Add	92.24	
			For >500 To 1,000, Deduct	-35.60	
			For >1,000 To 2,000, Deduct	-53.83	
			For >2,000 To 5,000, Deduct	-87.89	
			For >5,000, Deduct	-145.89	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0163 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	797.95	
For Vinylester Resin, Add	530.75	
For Epoxy Resin, Add	62.55	
For Up To >10, Add	498.30	
For >10 To 25, Add	288.88	
For >25 To 50, Add	211.24	
For >50 To 100, Add	105.62	
For >500 To 1,000, Deduct	-40.89	
For >1,000 To 2,000, Deduct	-61.83	
For >2,000 To 5,000, Deduct	-100.92	
For >5,000, Deduct	-167.54	
33 01 30 72-0164 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	902.09	
For Vinylester Resin, Add	600.01	
For Epoxy Resin, Add	70.71	
For Up To >10, Add	563.40	
For >10 To 25, Add	326.64	
For >25 To 50, Add	238.84	
For >50 To 100, Add	119.42	
For >500 To 1,000, Deduct	-46.23	
For >1,000 To 2,000, Deduct	-69.90	
For >2,000 To 5,000, Deduct	-114.09	
For >5,000, Deduct	-189.41	
33 01 30 72-0165 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,006.08	
For Vinylester Resin, Add	669.24	
For Epoxy Resin, Add	78.87	
For Up To >10, Add	628.09	
For >10 To 25, Add	364.07	
For >25 To 50, Add	266.24	
For >50 To 100, Add	133.12	
For >500 To 1,000, Deduct	-51.55	
For >1,000 To 2,000, Deduct	-77.96	
For >2,000 To 5,000, Deduct	-127.23	
For >5,000, Deduct	-211.22	
33 01 30 72-0166 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,214.33	
For Vinylester Resin, Add	807.72	
For Epoxy Resin, Add	95.20	
For Up To >10, Add	758.27	
For >10 To 25, Add	439.57	
For >25 To 50, Add	321.44	
For >50 To 100, Add	160.72	
For >500 To 1,000, Deduct	-62.23	
For >1,000 To 2,000, Deduct	-94.10	
For >2,000 To 5,000, Deduct	-153.58	
For >5,000, Deduct	-254.95	
33 01 30 72-0167 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,422.46	
For Vinylester Resin, Add	946.21	
For Epoxy Resin, Add	111.52	
For Up To >10, Add	888.06	
For >10 To 25, Add	514.76	
For >25 To 50, Add	376.44	
For >50 To 100, Add	188.22	
For >500 To 1,000, Deduct	-72.89	
For >1,000 To 2,000, Deduct	-110.22	
For >2,000 To 5,000, Deduct	-179.89	
For >5,000, Deduct	-298.64	
33 01 30 72-0168 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,630.71	
For Vinylester Resin, Add	1,084.69	
For Epoxy Resin, Add	127.84	
For Up To >10, Add	1,018.23	
For >10 To 25, Add	590.27	
For >25 To 50, Add	431.64	
For >50 To 100, Add	215.82	
For >500 To 1,000, Deduct	-83.56	
For >1,000 To 2,000, Deduct	-126.36	
For >2,000 To 5,000, Deduct	-206.23	
For >5,000, Deduct	-342.37	
33 01 30 72-0169 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,838.83	
For Vinylester Resin, Add	1,223.17	
For Epoxy Resin, Add	144.16	
For Up To >10, Add	1,148.02	
For >10 To 25, Add	665.45	
For >25 To 50, Add	486.64	
For >50 To 100, Add	243.32	
For >500 To 1,000, Deduct	-94.23	
For >1,000 To 2,000, Deduct	-142.48	
For >2,000 To 5,000, Deduct	-232.55	
For >5,000, Deduct	-386.05	



Utilities			33	33
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Operation and Maintenance of Sewer Utilities			33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0170	LF		25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,047.10	
			For Vinylester Resin, Add	1,361.66	
			For Epoxy Resin, Add	160.48	
			For Up To >10, Add	1,278.23	
			For >10 To 25, Add	740.98	
			For >25 To 50, Add	541.85	
			For >50 To 100, Add	270.93	
			For >500 To 1,000, Deduct	-104.90	
			For >1,000 To 2,000, Deduct	-158.63	
			For >2,000 To 5,000, Deduct	-258.90	
			For >5,000, Deduct	-429.79	
33 01 30 72-0171	LF		25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,259.86	
			For Vinylester Resin, Add	1,500.14	
			For Epoxy Resin, Add	176.80	
			For Up To >10, Add	1,421.93	
			For >10 To 25, Add	827.77	
			For >25 To 50, Add	603.81	
			For >50 To 100, Add	301.91	
			For >500 To 1,000, Deduct	-115.91	
			For >1,000 To 2,000, Deduct	-175.33	
			For >2,000 To 5,000, Deduct	-286.37	
			For >5,000, Deduct	-475.33	
33 01 30 72-0172	LF		25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,468.54	
			For Vinylester Resin, Add	1,638.62	
			For Epoxy Resin, Add	193.12	
			For Up To >10, Add	1,553.40	
			For >10 To 25, Add	904.35	
			For >25 To 50, Add	659.65	
			For >50 To 100, Add	329.83	
			For >500 To 1,000, Deduct	-126.62	
			For >1,000 To 2,000, Deduct	-191.52	
			For >2,000 To 5,000, Deduct	-312.82	
			For >5,000, Deduct	-519.24	
33 01 30 72-0173	LF		25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,677.08	
			For Vinylester Resin, Add	1,777.10	
			For Epoxy Resin, Add	209.44	
			For Up To >10, Add	1,684.44	
			For >10 To 25, Add	980.58	
			For >25 To 50, Add	715.28	
			For >50 To 100, Add	357.64	
			For >500 To 1,000, Deduct	-137.31	
			For >1,000 To 2,000, Deduct	-207.70	
			For >2,000 To 5,000, Deduct	-339.24	
			For >5,000, Deduct	-563.09	
33 01 30 72-0174	LF		25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,885.76	
			For Vinylester Resin, Add	1,915.59	
			For Epoxy Resin, Add	225.77	
			For Up To >10, Add	1,815.91	
			For >10 To 25, Add	1,057.16	
			For >25 To 50, Add	771.13	
			For >50 To 100, Add	385.56	
			For >500 To 1,000, Deduct	-148.02	
			For >1,000 To 2,000, Deduct	-223.89	
			For >2,000 To 5,000, Deduct	-365.69	
			For >5,000, Deduct	-606.99	
33 01 30 72-0175 27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0176	LF		27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	732.10	
			For Vinylester Resin, Add	487.22	
			For Epoxy Resin, Add	57.42	
			For Up To >10, Add	456.23	
			For >10 To 25, Add	264.18	
			For >25 To 50, Add	193.31	
			For >50 To 100, Add	96.66	
			For >500 To 1,000, Deduct	-37.51	
			For >1,000 To 2,000, Deduct	-56.71	
			For >2,000 To 5,000, Deduct	-92.54	
			For >5,000, Deduct	-153.63	
33 01 30 72-0177	LF		27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	842.32	
			For Vinylester Resin, Add	560.53	
			For Epoxy Resin, Add	66.06	
			For Up To >10, Add	525.06	
			For >10 To 25, Add	304.09	
			For >25 To 50, Add	222.49	
			For >50 To 100, Add	111.25	
			For >500 To 1,000, Deduct	-43.16	
			For >1,000 To 2,000, Deduct	-65.25	
			For >2,000 To 5,000, Deduct	-106.48	
			For >5,000, Deduct	-176.78	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0178	LF		27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	952.57	
			For Vinylester Resin, Add	633.86	
			For Epoxy Resin, Add	74.70	
			For Up To >10, Add	593.94	
			For >10 To 25, Add	344.03	
			For >25 To 50, Add	251.69	
			For >50 To 100, Add	125.85	
			For >500 To 1,000, Deduct	-48.81	
			For >1,000 To 2,000, Deduct	-73.80	
			For >2,000 To 5,000, Deduct	-120.43	
			For >5,000, Deduct	-199.93	
33 01 30 72-0179	LF		27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,062.66	
			For Vinylester Resin, Add	707.17	
			For Epoxy Resin, Add	83.34	
			For Up To >10, Add	662.38	
			For >10 To 25, Add	383.61	
			For >25 To 50, Add	280.68	
			For >50 To 100, Add	140.34	
			For >500 To 1,000, Deduct	-54.44	
			For >1,000 To 2,000, Deduct	-82.32	
			For >2,000 To 5,000, Deduct	-134.33	
			For >5,000, Deduct	-223.02	
33 01 30 72-0180	LF		27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,282.98	
			For Vinylester Resin, Add	853.80	
			For Epoxy Resin, Add	100.63	
			For Up To >10, Add	799.67	
			For >10 To 25, Add	463.10	
			For >25 To 50, Add	338.85	
			For >50 To 100, Add	169.42	
			For >500 To 1,000, Deduct	-65.73	
			For >1,000 To 2,000, Deduct	-99.39	
			For >2,000 To 5,000, Deduct	-162.18	
			For >5,000, Deduct	-269.25	
33 01 30 72-0181	LF		27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,503.42	
			For Vinylester Resin, Add	1,000.42	
			For Epoxy Resin, Add	117.91	
			For Up To >10, Add	937.34	
			For >10 To 25, Add	542.92	
			For >25 To 50, Add	397.21	
			For >50 To 100, Add	198.60	
			For >500 To 1,000, Deduct	-77.03	
			For >1,000 To 2,000, Deduct	-116.47	
			For >2,000 To 5,000, Deduct	-190.06	
			For >5,000, Deduct	-315.53	
33 01 30 72-0182	LF		27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,723.75	
			For Vinylester Resin, Add	1,147.06	
			For Epoxy Resin, Add	135.19	
			For Up To >10, Add	1,074.63	
			For >10 To 25, Add	622.41	
			For >25 To 50, Add	455.38	
			For >50 To 100, Add	227.69	
			For >500 To 1,000, Deduct	-88.32	
			For >1,000 To 2,000, Deduct	-133.54	
			For >2,000 To 5,000, Deduct	-217.91	
			For >5,000, Deduct	-361.77	
33 01 30 72-0183	LF		27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,944.07	
			For Vinylester Resin, Add	1,293.68	
			For Epoxy Resin, Add	152.47	
			For Up To >10, Add	1,211.91	
			For >10 To 25, Add	701.91	
			For >25 To 50, Add	513.55	
			For >50 To 100, Add	256.77	
			For >500 To 1,000, Deduct	-99.60	
			For >1,000 To 2,000, Deduct	-150.60	
			For >2,000 To 5,000, Deduct	-245.76	
			For >5,000, Deduct	-408.00	
33 01 30 72-0184	LF		27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,164.38	
			For Vinylester Resin, Add	1,440.31	
			For Epoxy Resin, Add	169.75	
			For Up To >10, Add	1,349.19	
			For >10 To 25, Add	781.40	
			For >25 To 50, Add	571.72	
			For >50 To 100, Add	285.86	
			For >500 To 1,000, Deduct	-110.89	
			For >1,000 To 2,000, Deduct	-167.67	
			For >2,000 To 5,000, Deduct	-273.61	
			For >5,000, Deduct	-454.24	



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	Operation and Maintenance of Utilities	33 01	
	Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0185	LF		27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,390.63	
			For Vinylester Resin, Add	1,586.94	
			For Epoxy Resin, Add	187.03	
			For Up To >10, Add	1,504.24	
			For >10 To 25, Add	875.69	
			For >25 To 50, Add	638.77	
			For >50 To 100, Add	319.38	
			For >500 To 1,000, Deduct	-122.62	
			For >1,000 To 2,000, Deduct	-185.48	
			For >2,000 To 5,000, Deduct	-302.94	
			For >5,000, Deduct	-502.84	
33 01 30 72-0186	LF		27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,611.51	
			For Vinylester Resin, Add	1,733.57	
			For Epoxy Resin, Add	204.31	
			For Up To >10, Add	1,643.21	
			For >10 To 25, Add	956.58	
			For >25 To 50, Add	697.78	
			For >50 To 100, Add	348.89	
			For >500 To 1,000, Deduct	-133.95	
			For >1,000 To 2,000, Deduct	-202.61	
			For >2,000 To 5,000, Deduct	-330.93	
			For >5,000, Deduct	-549.30	
33 01 30 72-0187	LF		27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,832.40	
			For Vinylester Resin, Add	1,880.20	
			For Epoxy Resin, Add	221.60	
			For Up To >10, Add	1,782.20	
			For >10 To 25, Add	1,037.50	
			For >25 To 50, Add	756.80	
			For >50 To 100, Add	378.40	
			For >500 To 1,000, Deduct	-145.28	
			For >1,000 To 2,000, Deduct	-219.75	
			For >2,000 To 5,000, Deduct	-358.92	
			For >5,000, Deduct	-595.76	
33 01 30 72-0188	LF		27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,053.27	
			For Vinylester Resin, Add	2,026.83	
			For Epoxy Resin, Add	238.88	
			For Up To >10, Add	1,921.14	
			For >10 To 25, Add	1,118.37	
			For >25 To 50, Add	815.79	
			For >50 To 100, Add	407.90	
			For >500 To 1,000, Deduct	-156.61	
			For >1,000 To 2,000, Deduct	-236.89	
			For >2,000 To 5,000, Deduct	-386.91	
			For >5,000, Deduct	-642.21	
33 01 30 72-0189			28.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0190	LF		28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	886.19	
			For Vinylester Resin, Add	590.16	
			For Epoxy Resin, Add	69.55	
			For Up To >10, Add	550.87	
			For >10 To 25, Add	318.55	
			For >25 To 50, Add	233.28	
			For >50 To 100, Add	116.64	
			For >500 To 1,000, Deduct	-45.39	
			For >1,000 To 2,000, Deduct	-68.62	
			For >2,000 To 5,000, Deduct	-111.95	
			For >5,000, Deduct	-185.86	
33 01 30 72-0191	LF		28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,002.52	
			For Vinylester Resin, Add	667.54	
			For Epoxy Resin, Add	78.67	
			For Up To >10, Add	623.49	
			For >10 To 25, Add	360.63	
			For >25 To 50, Add	264.06	
			For >50 To 100, Add	132.03	
			For >500 To 1,000, Deduct	-51.35	
			For >1,000 To 2,000, Deduct	-77.63	
			For >2,000 To 5,000, Deduct	-126.66	
			For >5,000, Deduct	-210.28	
33 01 30 72-0192	LF		28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,118.71	
			For Vinylester Resin, Add	744.93	
			For Epoxy Resin, Add	87.79	
			For Up To >10, Add	695.68	
			For >10 To 25, Add	402.37	
			For >25 To 50, Add	294.63	
			For >50 To 100, Add	147.32	
			For >500 To 1,000, Deduct	-57.30	
			For >1,000 To 2,000, Deduct	-86.63	
			For >2,000 To 5,000, Deduct	-141.33	
			For >5,000, Deduct	-234.65	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0193 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,416.45	
For Vinylester Resin, Add	945.46	
For Epoxy Resin, Add	111.43	
For Up To >10, Add	872.73	
For >10 To 25, Add	502.16	
For >25 To 50, Add	368.83	
For >50 To 100, Add	184.42	
For >500 To 1,000, Deduct	-72.47	
For >1,000 To 2,000, Deduct	-109.52	
For >2,000 To 5,000, Deduct	-178.53	
For >5,000, Deduct	-296.45	
33 01 30 72-0194 LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,583.61	
For Vinylester Resin, Add	1,054.48	
For Epoxy Resin, Add	124.28	
For Up To >10, Add	984.83	
For >10 To 25, Add	569.63	
For >25 To 50, Add	417.10	
For >50 To 100, Add	208.55	
For >500 To 1,000, Deduct	-81.11	
For >1,000 To 2,000, Deduct	-122.63	
For >2,000 To 5,000, Deduct	-200.07	
For >5,000, Deduct	-332.16	
33 01 30 72-0195 LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,815.99	
For Vinylester Resin, Add	1,209.26	
For Epoxy Resin, Add	142.52	
For Up To >10, Add	1,129.20	
For >10 To 25, Add	653.08	
For >25 To 50, Add	478.22	
For >50 To 100, Add	239.11	
For >500 To 1,000, Deduct	-93.01	
For >1,000 To 2,000, Deduct	-140.62	
For >2,000 To 5,000, Deduct	-229.42	
For >5,000, Deduct	-380.89	
33 01 30 72-0196 LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,048.37	
For Vinylester Resin, Add	1,364.03	
For Epoxy Resin, Add	160.76	
For Up To >10, Add	1,273.56	
For >10 To 25, Add	736.53	
For >25 To 50, Add	539.35	
For >50 To 100, Add	269.67	
For >500 To 1,000, Deduct	-104.91	
For >1,000 To 2,000, Deduct	-158.62	
For >2,000 To 5,000, Deduct	-258.77	
For >5,000, Deduct	-429.62	
33 01 30 72-0197 LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,280.75	
For Vinylester Resin, Add	1,518.80	
For Epoxy Resin, Add	179.00	
For Up To >10, Add	1,417.95	
For >10 To 25, Add	820.01	
For >25 To 50, Add	600.49	
For >50 To 100, Add	300.24	
For >500 To 1,000, Deduct	-116.81	
For >1,000 To 2,000, Deduct	-176.61	
For >2,000 To 5,000, Deduct	-288.12	
For >5,000, Deduct	-478.36	
33 01 30 72-0198 LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,519.33	
For Vinylester Resin, Add	1,673.58	
For Epoxy Resin, Add	197.24	
For Up To >10, Add	1,580.92	
For >10 To 25, Add	918.96	
For >25 To 50, Add	670.92	
For >50 To 100, Add	335.46	
For >500 To 1,000, Deduct	-129.18	
For >1,000 To 2,000, Deduct	-195.37	
For >2,000 To 5,000, Deduct	-319.02	
For >5,000, Deduct	-529.57	
33 01 30 72-0199 LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,752.27	
For Vinylester Resin, Add	1,828.35	
For Epoxy Resin, Add	215.48	
For Up To >10, Add	1,726.99	
For >10 To 25, Add	1,003.83	
For >25 To 50, Add	732.90	
For >50 To 100, Add	366.45	
For >500 To 1,000, Deduct	-141.12	
For >1,000 To 2,000, Deduct	-213.44	
For >2,000 To 5,000, Deduct	-348.52	
For >5,000, Deduct	-578.52	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 72-0200	LF 28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,985.35		
	For Vinylester Resin, Add	1,983.13		
	For Epoxy Resin, Add	233.73		
	For Up To >10, Add	1,873.45		
	For >10 To 25, Add	1,089.04		
	For >25 To 50, Add	795.07		
	For >50 To 100, Add	397.54		
	For >500 To 1,000, Deduct	-153.08		
	For >1,000 To 2,000, Deduct	-231.52		
	For >2,000 To 5,000, Deduct	-378.04		
	For >5,000, Deduct	-627.53		
33 01 30 72-0201	LF 28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,218.30		
	For Vinylester Resin, Add	2,137.91		
	For Epoxy Resin, Add	251.97		
	For Up To >10, Add	2,019.53		
	For >10 To 25, Add	1,173.91		
	For >25 To 50, Add	857.06		
	For >50 To 100, Add	428.53		
	For >500 To 1,000, Deduct	-165.02		
	For >1,000 To 2,000, Deduct	-249.58		
	For >2,000 To 5,000, Deduct	-407.54		
	For >5,000, Deduct	-676.49		
33 01 30 72-0202 30mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)				
33 01 30 72-0203	LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	929.83		
	For Vinylester Resin, Add	619.61		
	For Epoxy Resin, Add	73.03		
	For Up To >10, Add	576.59		
	For >10 To 25, Add	332.97		
	For >25 To 50, Add	244.04		
	For >50 To 100, Add	122.02		
	For >500 To 1,000, Deduct	-47.61		
	For >1,000 To 2,000, Deduct	-71.97		
	For >2,000 To 5,000, Deduct	-117.39		
	For >5,000, Deduct	-194.90		
33 01 30 72-0204	LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,052.12		
	For Vinylester Resin, Add	701.08		
	For Epoxy Resin, Add	82.63		
	For Up To >10, Add	652.51		
	For >10 To 25, Add	376.84		
	For >25 To 50, Add	276.18		
	For >50 To 100, Add	138.09		
	For >500 To 1,000, Deduct	-53.87		
	For >1,000 To 2,000, Deduct	-81.44		
	For >2,000 To 5,000, Deduct	-132.83		
	For >5,000, Deduct	-220.54		
33 01 30 72-0205	LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,174.40		
	For Vinylester Resin, Add	782.53		
	For Epoxy Resin, Add	92.23		
	For Up To >10, Add	728.45		
	For >10 To 25, Add	420.73		
	For >25 To 50, Add	308.33		
	For >50 To 100, Add	154.17		
	For >500 To 1,000, Deduct	-60.13		
	For >1,000 To 2,000, Deduct	-90.91		
	For >2,000 To 5,000, Deduct	-148.27		
	For >5,000, Deduct	-246.18		
33 01 30 72-0206	LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,418.84		
	For Vinylester Resin, Add	945.46		
	For Epoxy Resin, Add	111.43		
	For Up To >10, Add	879.90		
	For >10 To 25, Add	508.14		
	For >25 To 50, Add	372.42		
	For >50 To 100, Add	186.21		
	For >500 To 1,000, Deduct	-72.65		
	For >1,000 To 2,000, Deduct	-109.82		
	For >2,000 To 5,000, Deduct	-179.13		
	For >5,000, Deduct	-297.41		
33 01 30 72-0207	LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,663.42		
	For Vinylester Resin, Add	1,108.37		
	For Epoxy Resin, Add	130.63		
	For Up To >10, Add	1,031.79		
	For >10 To 25, Add	595.92		
	For >25 To 50, Add	436.72		
	For >50 To 100, Add	218.36		
	For >500 To 1,000, Deduct	-85.17		
	For >1,000 To 2,000, Deduct	-128.76		
	For >2,000 To 5,000, Deduct	-210.01		
	For >5,000, Deduct	-348.69		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0208	LF		30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,907.87	
			For Vinylester Resin, Add	1,271.30	
			For Epoxy Resin, Add	149.83	
			For Up To >10, Add	1,183.26	
			For >10 To 25, Add	683.36	
			For >25 To 50, Add	500.82	
			For >50 To 100, Add	250.41	
			For >500 To 1,000, Deduct	-97.69	
			For >1,000 To 2,000, Deduct	-147.68	
			For >2,000 To 5,000, Deduct	-240.87	
			For >5,000, Deduct	-399.92	
33 01 30 72-0209	LF		30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,152.44	
			For Vinylester Resin, Add	1,434.22	
			For Epoxy Resin, Add	169.03	
			For Up To >10, Add	1,335.12	
			For >10 To 25, Add	771.12	
			For >25 To 50, Add	565.12	
			For >50 To 100, Add	282.56	
			For >500 To 1,000, Deduct	-110.21	
			For >1,000 To 2,000, Deduct	-166.61	
			For >2,000 To 5,000, Deduct	-271.76	
			For >5,000, Deduct	-451.20	
33 01 30 72-0210	LF		30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,396.88	
			For Vinylester Resin, Add	1,597.14	
			For Epoxy Resin, Add	188.23	
			For Up To >10, Add	1,486.57	
			For >10 To 25, Add	858.53	
			For >25 To 50, Add	629.20	
			For >50 To 100, Add	314.60	
			For >500 To 1,000, Deduct	-122.73	
			For >1,000 To 2,000, Deduct	-185.53	
			For >2,000 To 5,000, Deduct	-302.61	
			For >5,000, Deduct	-502.43	
33 01 30 72-0211	LF		30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,647.80	
			For Vinylester Resin, Add	1,760.06	
			For Epoxy Resin, Add	207.44	
			For Up To >10, Add	1,657.48	
			For >10 To 25, Add	962.17	
			For >25 To 50, Add	703.02	
			For >50 To 100, Add	351.51	
			For >500 To 1,000, Deduct	-135.73	
			For >1,000 To 2,000, Deduct	-205.26	
			For >2,000 To 5,000, Deduct	-335.08	
			For >5,000, Deduct	-556.25	
33 01 30 72-0212	LF		30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,892.81	
			For Vinylester Resin, Add	1,922.98	
			For Epoxy Resin, Add	226.64	
			For Up To >10, Add	1,810.63	
			For >10 To 25, Add	1,051.01	
			For >25 To 50, Add	767.96	
			For >50 To 100, Add	383.98	
			For >500 To 1,000, Deduct	-148.28	
			For >1,000 To 2,000, Deduct	-224.25	
			For >2,000 To 5,000, Deduct	-366.08	
			For >5,000, Deduct	-607.70	
33 01 30 72-0213	LF		30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,137.95	
			For Vinylester Resin, Add	2,085.90	
			For Epoxy Resin, Add	245.84	
			For Up To >10, Add	1,964.20	
			For >10 To 25, Add	1,140.19	
			For >25 To 50, Add	833.11	
			For >50 To 100, Add	416.55	
			For >500 To 1,000, Deduct	-160.85	
			For >1,000 To 2,000, Deduct	-243.25	
			For >2,000 To 5,000, Deduct	-397.11	
			For >5,000, Deduct	-659.21	
33 01 30 72-0214	LF		30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,383.09	
			For Vinylester Resin, Add	2,248.82	
			For Epoxy Resin, Add	265.04	
			For Up To >10, Add	2,117.77	
			For >10 To 25, Add	1,229.38	
			For >25 To 50, Add	898.26	
			For >50 To 100, Add	449.13	
			For >500 To 1,000, Deduct	-173.42	
			For >1,000 To 2,000, Deduct	-262.26	
			For >2,000 To 5,000, Deduct	-428.13	
			For >5,000, Deduct	-710.72	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0215	LF	30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,628.09	
		For Vinylester Resin, Add	2,411.75	
		For Epoxy Resin, Add	284.24	
		For Up To >10, Add	2,270.90	
		For >10 To 25, Add	1,318.19	
		For >25 To 50, Add	963.18	
		For >50 To 100, Add	481.59	
		For >500 To 1,000, Deduct	-185.97	
		For >1,000 To 2,000, Deduct	-281.24	
		For >2,000 To 5,000, Deduct	-459.13	
		For >5,000, Deduct	-762.17	
33 01 30 72-0216	LF	30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,873.24	
		For Vinylester Resin, Add	2,574.66	
		For Epoxy Resin, Add	303.44	
		For Up To >10, Add	2,424.50	
		For >10 To 25, Add	1,407.40	
		For >25 To 50, Add	1,028.34	
		For >50 To 100, Add	514.17	
		For >500 To 1,000, Deduct	-198.54	
		For >1,000 To 2,000, Deduct	-300.25	
		For >2,000 To 5,000, Deduct	-490.16	
		For >5,000, Deduct	-813.68	
33 01 30 72-0217 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)				
33 01 30 72-0218	LF	31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	973.23	
		For Vinylester Resin, Add	648.91	
		For Epoxy Resin, Add	76.48	
		For Up To >10, Add	602.14	
		For >10 To 25, Add	347.28	
		For >25 To 50, Add	254.72	
		For >50 To 100, Add	127.36	
		For >500 To 1,000, Deduct	-49.82	
		For >1,000 To 2,000, Deduct	-75.30	
		For >2,000 To 5,000, Deduct	-122.79	
		For >5,000, Deduct	-203.89	
33 01 30 72-0219	LF	31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,101.48	
		For Vinylester Resin, Add	734.45	
		For Epoxy Resin, Add	86.56	
		For Up To >10, Add	681.42	
		For >10 To 25, Add	392.98	
		For >25 To 50, Add	288.25	
		For >50 To 100, Add	144.12	
		For >500 To 1,000, Deduct	-56.38	
		For >1,000 To 2,000, Deduct	-85.22	
		For >2,000 To 5,000, Deduct	-138.97	
		For >5,000, Deduct	-230.75	
33 01 30 72-0220	LF	31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,229.72	
		For Vinylester Resin, Add	819.97	
		For Epoxy Resin, Add	96.64	
		For Up To >10, Add	760.69	
		For >10 To 25, Add	438.67	
		For >25 To 50, Add	321.77	
		For >50 To 100, Add	160.89	
		For >500 To 1,000, Deduct	-62.94	
		For >1,000 To 2,000, Deduct	-95.15	
		For >2,000 To 5,000, Deduct	-155.15	
		For >5,000, Deduct	-257.61	
33 01 30 72-0221	LF	31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,486.37	
		For Vinylester Resin, Add	991.05	
		For Epoxy Resin, Add	116.80	
		For Up To >10, Add	919.66	
		For >10 To 25, Add	530.42	
		For >25 To 50, Add	389.04	
		For >50 To 100, Add	194.52	
		For >500 To 1,000, Deduct	-76.08	
		For >1,000 To 2,000, Deduct	-115.01	
		For >2,000 To 5,000, Deduct	-187.54	
		For >5,000, Deduct	-311.39	
33 01 30 72-0222	LF	31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,742.87	
		For Vinylester Resin, Add	1,162.11	
		For Epoxy Resin, Add	136.96	
		For Up To >10, Add	1,078.21	
		For >10 To 25, Add	621.82	
		For >25 To 50, Add	456.10	
		For >50 To 100, Add	228.05	
		For >500 To 1,000, Deduct	-89.21	
		For >1,000 To 2,000, Deduct	-134.85	
		For >2,000 To 5,000, Deduct	-219.90	
		For >5,000, Deduct	-365.12	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0223 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,999.50	
For Vinylester Resin, Add	1,333.18	
For Epoxy Resin, Add	157.12	
For Up To >10, Add	1,237.15	
For >10 To 25, Add	713.54	
For >25 To 50, Add	523.35	
For >50 To 100, Add	261.67	
For >500 To 1,000, Deduct	-102.35	
For >1,000 To 2,000, Deduct	-154.71	
For >2,000 To 5,000, Deduct	-252.28	
For >5,000, Deduct	-418.89	
33 01 30 72-0224 LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,256.00	
For Vinylester Resin, Add	1,504.24	
For Epoxy Resin, Add	177.29	
For Up To >10, Add	1,395.70	
For >10 To 25, Add	804.93	
For >25 To 50, Add	590.40	
For >50 To 100, Add	295.20	
For >500 To 1,000, Deduct	-115.48	
For >1,000 To 2,000, Deduct	-174.55	
For >2,000 To 5,000, Deduct	-284.64	
For >5,000, Deduct	-472.62	
33 01 30 72-0225 LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,512.50	
For Vinylester Resin, Add	1,675.31	
For Epoxy Resin, Add	197.45	
For Up To >10, Add	1,554.25	
For >10 To 25, Add	896.33	
For >25 To 50, Add	657.46	
For >50 To 100, Add	328.73	
For >500 To 1,000, Deduct	-128.61	
For >1,000 To 2,000, Deduct	-194.40	
For >2,000 To 5,000, Deduct	-317.00	
For >5,000, Deduct	-526.34	
33 01 30 72-0226 LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,775.77	
For Vinylester Resin, Add	1,846.38	
For Epoxy Resin, Add	217.61	
For Up To >10, Add	1,733.09	
For >10 To 25, Add	1,004.62	
For >25 To 50, Add	734.66	
For >50 To 100, Add	367.33	
For >500 To 1,000, Deduct	-142.24	
For >1,000 To 2,000, Deduct	-215.09	
For >2,000 To 5,000, Deduct	-351.04	
For >5,000, Deduct	-582.77	
33 01 30 72-0227 LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,052.79	
For Vinylester Resin, Add	2,031.23	
For Epoxy Resin, Add	239.39	
For Up To >10, Add	1,904.00	
For >10 To 25, Add	1,103.04	
For >25 To 50, Add	806.91	
For >50 To 100, Add	403.46	
For >500 To 1,000, Deduct	-156.42	
For >1,000 To 2,000, Deduct	-236.51	
For >2,000 To 5,000, Deduct	-385.97	
For >5,000, Deduct	-640.77	
33 01 30 72-0228 LF 31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,290.04	
For Vinylester Resin, Add	2,188.52	
For Epoxy Resin, Add	257.93	
For Up To >10, Add	2,054.00	
For >10 To 25, Add	1,190.59	
For >25 To 50, Add	870.68	
For >50 To 100, Add	435.34	
For >500 To 1,000, Deduct	-168.59	
For >1,000 To 2,000, Deduct	-254.93	
For >2,000 To 5,000, Deduct	-416.07	
For >5,000, Deduct	-690.73	
33 01 30 72-0229 LF 31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,547.23	
For Vinylester Resin, Add	2,359.58	
For Epoxy Resin, Add	278.09	
For Up To >10, Add	2,214.62	
For >10 To 25, Add	1,283.71	
For >25 To 50, Add	938.77	
For >50 To 100, Add	469.38	
For >500 To 1,000, Deduct	-181.77	
For >1,000 To 2,000, Deduct	-274.86	
For >2,000 To 5,000, Deduct	-448.60	
For >5,000, Deduct	-744.73	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0230	LF		31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,804.30	
			For Vinylester Resin, Add	2,530.65	
			For Epoxy Resin, Add	298.25	
			For Up To >10, Add	2,374.88	
			For >10 To 25, Add	1,376.53	
			For >25 To 50, Add	1,006.68	
			For >50 To 100, Add	503.34	
			For >500 To 1,000, Deduct	-194.94	
			For >1,000 To 2,000, Deduct	-294.78	
			For >2,000 To 5,000, Deduct	-481.10	
			For >5,000, Deduct	-798.68	
33 01 30 72-0231	LF		31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,061.49	
			For Vinylester Resin, Add	2,701.71	
			For Epoxy Resin, Add	318.42	
			For Up To >10, Add	2,535.50	
			For >10 To 25, Add	1,469.65	
			For >25 To 50, Add	1,074.77	
			For >50 To 100, Add	537.38	
			For >500 To 1,000, Deduct	-208.12	
			For >1,000 To 2,000, Deduct	-314.71	
			For >2,000 To 5,000, Deduct	-513.63	
			For >5,000, Deduct	-852.68	
33 01 30 72-0232 33mm Thick Lining Cured In-Place Pipe _(33 01 30 72-0015)					
33 01 30 72-0233	LF		33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,016.26	
			For Vinylester Resin, Add	678.05	
			For Epoxy Resin, Add	79.91	
			For Up To >10, Add	627.18	
			For >10 To 25, Add	361.21	
			For >25 To 50, Add	265.16	
			For >50 To 100, Add	132.58	
			For >500 To 1,000, Deduct	-52.00	
			For >1,000 To 2,000, Deduct	-78.60	
			For >2,000 To 5,000, Deduct	-128.14	
			For >5,000, Deduct	-212.78	
33 01 30 72-0234	LF		33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,150.60	
			For Vinylester Resin, Add	767.65	
			For Epoxy Resin, Add	90.47	
			For Up To >10, Add	710.20	
			For >10 To 25, Add	409.06	
			For >25 To 50, Add	300.27	
			For >50 To 100, Add	150.13	
			For >500 To 1,000, Deduct	-58.88	
			For >1,000 To 2,000, Deduct	-88.99	
			For >2,000 To 5,000, Deduct	-145.09	
			For >5,000, Deduct	-240.91	
33 01 30 72-0235	LF		33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,284.83	
			For Vinylester Resin, Add	857.26	
			For Epoxy Resin, Add	101.03	
			For Up To >10, Add	792.84	
			For >10 To 25, Add	456.59	
			For >25 To 50, Add	335.19	
			For >50 To 100, Add	167.59	
			For >500 To 1,000, Deduct	-65.75	
			For >1,000 To 2,000, Deduct	-99.37	
			For >2,000 To 5,000, Deduct	-162.00	
			For >5,000, Deduct	-269.00	
33 01 30 72-0236	LF		33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,553.52	
			For Vinylester Resin, Add	1,036.48	
			For Epoxy Resin, Add	122.16	
			For Up To >10, Add	958.86	
			For >10 To 25, Add	552.27	
			For >25 To 50, Add	405.40	
			For >50 To 100, Add	202.70	
			For >500 To 1,000, Deduct	-79.50	
			For >1,000 To 2,000, Deduct	-120.16	
			For >2,000 To 5,000, Deduct	-195.89	
			For >5,000, Deduct	-325.27	
33 01 30 72-0237	LF		33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,822.07	
			For Vinylester Resin, Add	1,215.68	
			For Epoxy Resin, Add	143.28	
			For Up To >10, Add	1,124.49	
			For >10 To 25, Add	647.62	
			For >25 To 50, Add	475.41	
			For >50 To 100, Add	237.70	
			For >500 To 1,000, Deduct	-93.24	
			For >1,000 To 2,000, Deduct	-140.92	
			For >2,000 To 5,000, Deduct	-229.75	
			For >5,000, Deduct	-381.49	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0238	LF		33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,090.79	
			For Vinylester Resin, Add	1,394.90	
			For Epoxy Resin, Add	164.40	
			For Up To >10, Add	1,290.57	
			For >10 To 25, Add	743.36	
			For >25 To 50, Add	545.65	
			For >50 To 100, Add	272.82	
			For >500 To 1,000, Deduct	-106.99	
			For >1,000 To 2,000, Deduct	-161.71	
			For >2,000 To 5,000, Deduct	-263.64	
			For >5,000, Deduct	-437.77	
33 01 30 72-0239	LF		33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,359.34	
			For Vinylester Resin, Add	1,574.11	
			For Epoxy Resin, Add	185.52	
			For Up To >10, Add	1,456.20	
			For >10 To 25, Add	838.71	
			For >25 To 50, Add	615.66	
			For >50 To 100, Add	307.83	
			For >500 To 1,000, Deduct	-120.73	
			For >1,000 To 2,000, Deduct	-182.48	
			For >2,000 To 5,000, Deduct	-297.50	
			For >5,000, Deduct	-493.99	
33 01 30 72-0240	LF		33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,627.90	
			For Vinylester Resin, Add	1,753.33	
			For Epoxy Resin, Add	206.64	
			For Up To >10, Add	1,621.83	
			For >10 To 25, Add	934.06	
			For >25 To 50, Add	685.68	
			For >50 To 100, Add	342.84	
			For >500 To 1,000, Deduct	-134.47	
			For >1,000 To 2,000, Deduct	-203.25	
			For >2,000 To 5,000, Deduct	-331.36	
			For >5,000, Deduct	-550.21	
33 01 30 72-0241	LF		33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,903.36	
			For Vinylester Resin, Add	1,932.54	
			For Epoxy Resin, Add	227.76	
			For Up To >10, Add	1,808.16	
			For >10 To 25, Add	1,046.67	
			For >25 To 50, Add	766.04	
			For >50 To 100, Add	383.02	
			For >500 To 1,000, Deduct	-148.73	
			For >1,000 To 2,000, Deduct	-224.88	
			For >2,000 To 5,000, Deduct	-366.94	
			For >5,000, Deduct	-609.19	
33 01 30 72-0242	LF		33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,173.05	
			For Vinylester Resin, Add	2,111.75	
			For Epoxy Resin, Add	248.89	
			For Up To >10, Add	1,977.18	
			For >10 To 25, Add	1,144.85	
			For >25 To 50, Add	837.75	
			For >50 To 100, Add	418.87	
			For >500 To 1,000, Deduct	-162.56	
			For >1,000 To 2,000, Deduct	-245.79	
			For >2,000 To 5,000, Deduct	-401.08	
			For >5,000, Deduct	-665.86	
33 01 30 72-0243	LF		33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,441.74	
			For Vinylester Resin, Add	2,290.96	
			For Epoxy Resin, Add	270.01	
			For Up To >10, Add	2,143.22	
			For >10 To 25, Add	1,240.55	
			For >25 To 50, Add	907.97	
			For >50 To 100, Add	453.99	
			For >500 To 1,000, Deduct	-176.31	
			For >1,000 To 2,000, Deduct	-266.58	
			For >2,000 To 5,000, Deduct	-434.97	
			For >5,000, Deduct	-722.14	
33 01 30 72-0244	LF		33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,711.00	
			For Vinylester Resin, Add	2,470.17	
			For Epoxy Resin, Add	291.13	
			For Up To >10, Add	2,310.95	
			For >10 To 25, Add	1,337.66	
			For >25 To 50, Add	979.03	
			For >50 To 100, Add	489.52	
			For >500 To 1,000, Deduct	-190.10	
			For >1,000 To 2,000, Deduct	-287.43	
			For >2,000 To 5,000, Deduct	-469.00	
			For >5,000, Deduct	-778.64	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0245	LF		33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,980.26	
			For Vinylester Resin, Add	2,649.39	
			For Epoxy Resin, Add	312.25	
			For Up To >10, Add	2,478.68	
			For >10 To 25, Add	1,434.76	
			For >25 To 50, Add	1,050.10	
			For >50 To 100, Add	525.05	
			For >500 To 1,000, Deduct	-203.90	
			For >1,000 To 2,000, Deduct	-308.29	
			For >2,000 To 5,000, Deduct	-503.04	
			For >5,000, Deduct	-835.14	
33 01 30 72-0246	LF		33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,249.53	
			For Vinylester Resin, Add	2,828.60	
			For Epoxy Resin, Add	333.37	
			For Up To >10, Add	2,646.44	
			For >10 To 25, Add	1,531.89	
			For >25 To 50, Add	1,121.18	
			For >50 To 100, Add	560.59	
			For >500 To 1,000, Deduct	-217.69	
			For >1,000 To 2,000, Deduct	-329.15	
			For >2,000 To 5,000, Deduct	-537.07	
			For >5,000, Deduct	-891.64	
33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0248	LF		34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,199.09	
			For Vinylester Resin, Add	800.70	
			For Epoxy Resin, Add	94.37	
			For Up To >10, Add	737.62	
			For >10 To 25, Add	424.04	
			For >25 To 50, Add	311.62	
			For >50 To 100, Add	155.81	
			For >500 To 1,000, Deduct	-61.34	
			For >1,000 To 2,000, Deduct	-92.69	
			For >2,000 To 5,000, Deduct	-151.07	
			For >5,000, Deduct	-250.86	
33 01 30 72-0249	LF		34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,339.39	
			For Vinylester Resin, Add	894.38	
			For Epoxy Resin, Add	105.41	
			For Up To >10, Add	823.97	
			For >10 To 25, Add	473.70	
			For >25 To 50, Add	348.10	
			For >50 To 100, Add	174.05	
			For >500 To 1,000, Deduct	-68.51	
			For >1,000 To 2,000, Deduct	-103.54	
			For >2,000 To 5,000, Deduct	-168.75	
			For >5,000, Deduct	-280.22	
33 01 30 72-0250	LF		34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,620.02	
			For Vinylester Resin, Add	1,081.75	
			For Epoxy Resin, Add	127.49	
			For Up To >10, Add	996.69	
			For >10 To 25, Add	573.01	
			For >25 To 50, Add	421.08	
			For >50 To 100, Add	210.54	
			For >500 To 1,000, Deduct	-82.87	
			For >1,000 To 2,000, Deduct	-125.24	
			For >2,000 To 5,000, Deduct	-204.11	
			For >5,000, Deduct	-338.94	
33 01 30 72-0251	LF		34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,900.50	
			For Vinylester Resin, Add	1,269.10	
			For Epoxy Resin, Add	149.57	
			For Up To >10, Add	1,169.00	
			For >10 To 25, Add	672.00	
			For >25 To 50, Add	493.85	
			For >50 To 100, Add	246.93	
			For >500 To 1,000, Deduct	-97.21	
			For >1,000 To 2,000, Deduct	-146.91	
			For >2,000 To 5,000, Deduct	-239.44	
			For >5,000, Deduct	-397.60	
33 01 30 72-0252	LF		34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,181.11	
			For Vinylester Resin, Add	1,456.46	
			For Epoxy Resin, Add	171.65	
			For Up To >10, Add	1,341.71	
			For >10 To 25, Add	771.31	
			For >25 To 50, Add	566.82	
			For >50 To 100, Add	283.41	
			For >500 To 1,000, Deduct	-111.57	
			For >1,000 To 2,000, Deduct	-168.61	
			For >2,000 To 5,000, Deduct	-274.79	
			For >5,000, Deduct	-456.31	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0253 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,461.59	
For Vinylester Resin, Add	1,643.82	
For Epoxy Resin, Add	193.74	
For Up To >10, Add	1,514.00	
For >10 To 25, Add	870.28	
For >25 To 50, Add	639.58	
For >50 To 100, Add	319.79	
For >500 To 1,000, Deduct	-125.91	
For >1,000 To 2,000, Deduct	-190.28	
For >2,000 To 5,000, Deduct	-310.12	
For >5,000, Deduct	-514.97	
33 01 30 72-0254 LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,742.22	
For Vinylester Resin, Add	1,831.18	
For Epoxy Resin, Add	215.82	
For Up To >10, Add	1,686.74	
For >10 To 25, Add	969.62	
For >25 To 50, Add	712.57	
For >50 To 100, Add	356.28	
For >500 To 1,000, Deduct	-140.27	
For >1,000 To 2,000, Deduct	-211.98	
For >2,000 To 5,000, Deduct	-345.48	
For >5,000, Deduct	-573.69	
33 01 30 72-0255 LF 34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,029.73	
For Vinylester Resin, Add	2,018.53	
For Epoxy Resin, Add	237.90	
For Up To >10, Add	1,880.14	
For >10 To 25, Add	1,086.18	
For >25 To 50, Add	795.89	
For >50 To 100, Add	397.94	
For >500 To 1,000, Deduct	-155.14	
For >1,000 To 2,000, Deduct	-234.54	
For >2,000 To 5,000, Deduct	-382.56	
For >5,000, Deduct	-635.17	
33 01 30 72-0256 LF 34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,311.19	
For Vinylester Resin, Add	2,205.89	
For Epoxy Resin, Add	259.98	
For Up To >10, Add	2,055.40	
For >10 To 25, Add	1,187.62	
For >25 To 50, Add	870.13	
For >50 To 100, Add	435.07	
For >500 To 1,000, Deduct	-169.56	
For >1,000 To 2,000, Deduct	-256.34	
For >2,000 To 5,000, Deduct	-418.13	
For >5,000, Deduct	-694.22	
33 01 30 72-0257 LF 34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,589.84	
For Vinylester Resin, Add	2,393.25	
For Epoxy Resin, Add	282.06	
For Up To >10, Add	2,222.20	
For >10 To 25, Add	1,282.01	
For >25 To 50, Add	940.15	
For >50 To 100, Add	470.08	
For >500 To 1,000, Deduct	-183.76	
For >1,000 To 2,000, Deduct	-277.78	
For >2,000 To 5,000, Deduct	-453.00	
For >5,000, Deduct	-752.15	
33 01 30 72-0258 LF 34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,873.42	
For Vinylester Resin, Add	2,580.61	
For Epoxy Resin, Add	304.14	
For Up To >10, Add	2,403.79	
For >10 To 25, Add	1,388.72	
For >25 To 50, Add	1,017.56	
For >50 To 100, Add	508.78	
For >500 To 1,000, Deduct	-198.34	
For >1,000 To 2,000, Deduct	-299.85	
For >2,000 To 5,000, Deduct	-489.10	
For >5,000, Deduct	-812.05	
33 01 30 72-0259 LF 34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,154.61	
For Vinylester Resin, Add	2,767.98	
For Epoxy Resin, Add	326.23	
For Up To >10, Add	2,578.21	
For >10 To 25, Add	1,489.46	
For >25 To 50, Add	1,091.39	
For >50 To 100, Add	545.70	
For >500 To 1,000, Deduct	-212.74	
For >1,000 To 2,000, Deduct	-321.61	
For >2,000 To 5,000, Deduct	-524.60	
For >5,000, Deduct	-870.99	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0260	LF	34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,435.78	
		For Vinylester Resin, Add	2,955.33	
		For Epoxy Resin, Add	348.31	
		For Up To >10, Add	2,752.59	
		For >10 To 25, Add	1,590.18	
		For >25 To 50, Add	1,165.20	
		For >50 To 100, Add	582.60	
		For >500 To 1,000, Deduct	-227.14	
		For >1,000 To 2,000, Deduct	-343.38	
		For >2,000 To 5,000, Deduct	-560.10	
		For >5,000, Deduct	-929.93	
33 01 30 72-0261 36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)				
33 01 30 72-0262	LF	36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,247.34	
		For Vinylester Resin, Add	833.59	
		For Epoxy Resin, Add	98.24	
		For Up To >10, Add	764.92	
		For >10 To 25, Add	438.96	
		For >25 To 50, Add	322.92	
		For >50 To 100, Add	161.46	
		For >500 To 1,000, Deduct	-63.78	
		For >1,000 To 2,000, Deduct	-96.38	
		For >2,000 To 5,000, Deduct	-157.03	
		For >5,000, Deduct	-260.77	
33 01 30 72-0263	LF	36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,393.61	
		For Vinylester Resin, Add	931.34	
		For Epoxy Resin, Add	109.77	
		For Up To >10, Add	854.61	
		For >10 To 25, Add	490.42	
		For >25 To 50, Add	360.78	
		For >50 To 100, Add	180.39	
		For >500 To 1,000, Deduct	-71.26	
		For >1,000 To 2,000, Deduct	-107.68	
		For >2,000 To 5,000, Deduct	-175.44	
		For >5,000, Deduct	-291.35	
33 01 30 72-0264	LF	36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,686.15	
		For Vinylester Resin, Add	1,126.85	
		For Epoxy Resin, Add	132.81	
		For Up To >10, Add	1,033.98	
		For >10 To 25, Add	593.35	
		For >25 To 50, Add	436.50	
		For >50 To 100, Add	218.25	
		For >500 To 1,000, Deduct	-86.22	
		For >1,000 To 2,000, Deduct	-130.28	
		For >2,000 To 5,000, Deduct	-212.26	
		For >5,000, Deduct	-352.50	
33 01 30 72-0265	LF	36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,978.69	
		For Vinylester Resin, Add	1,322.36	
		For Epoxy Resin, Add	155.85	
		For Up To >10, Add	1,213.37	
		For >10 To 25, Add	696.30	
		For >25 To 50, Add	512.23	
		For >50 To 100, Add	256.12	
		For >500 To 1,000, Deduct	-101.17	
		For >1,000 To 2,000, Deduct	-152.88	
		For >2,000 To 5,000, Deduct	-249.09	
		For >5,000, Deduct	-413.66	
33 01 30 72-0266	LF	36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,271.08	
		For Vinylester Resin, Add	1,517.86	
		For Epoxy Resin, Add	178.89	
		For Up To >10, Add	1,392.32	
		For >10 To 25, Add	798.87	
		For >25 To 50, Add	587.74	
		For >50 To 100, Add	293.87	
		For >500 To 1,000, Deduct	-116.12	
		For >1,000 To 2,000, Deduct	-175.47	
		For >2,000 To 5,000, Deduct	-285.88	
		For >5,000, Deduct	-474.76	
33 01 30 72-0267	LF	36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,563.62	
		For Vinylester Resin, Add	1,713.36	
		For Epoxy Resin, Add	201.93	
		For Up To >10, Add	1,571.71	
		For >10 To 25, Add	901.82	
		For >25 To 50, Add	663.47	
		For >50 To 100, Add	331.74	
		For >500 To 1,000, Deduct	-131.08	
		For >1,000 To 2,000, Deduct	-198.07	
		For >2,000 To 5,000, Deduct	-322.71	
		For >5,000, Deduct	-535.92	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0268 LF 36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,856.17	
For Vinylester Resin, Add	1,908.87	
For Epoxy Resin, Add	224.97	
For Up To >10, Add	1,751.11	
For >10 To 25, Add	1,004.77	
For >25 To 50, Add	739.21	
For >50 To 100, Add	369.60	
For >500 To 1,000, Deduct	-146.04	
For >1,000 To 2,000, Deduct	-220.67	
For >2,000 To 5,000, Deduct	-359.54	
For >5,000, Deduct	-597.08	
33 01 30 72-0269 LF 36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,155.88	
For Vinylester Resin, Add	2,104.38	
For Epoxy Resin, Add	248.02	
For Up To >10, Add	1,952.02	
For >10 To 25, Add	1,125.64	
For >25 To 50, Add	825.70	
For >50 To 100, Add	412.85	
For >500 To 1,000, Deduct	-161.53	
For >1,000 To 2,000, Deduct	-244.17	
For >2,000 To 5,000, Deduct	-398.16	
For >5,000, Deduct	-661.10	
33 01 30 72-0270 LF 36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,449.13	
For Vinylester Resin, Add	2,299.88	
For Epoxy Resin, Add	271.06	
For Up To >10, Add	2,133.54	
For >10 To 25, Add	1,230.36	
For >25 To 50, Add	902.49	
For >50 To 100, Add	451.25	
For >500 To 1,000, Deduct	-176.55	
For >1,000 To 2,000, Deduct	-266.86	
For >2,000 To 5,000, Deduct	-435.16	
For >5,000, Deduct	-722.54	
33 01 30 72-0271 LF 36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,737.57	
For Vinylester Resin, Add	2,495.38	
For Epoxy Resin, Add	294.10	
For Up To >10, Add	2,300.64	
For >10 To 25, Add	1,323.06	
For >25 To 50, Add	972.08	
For >50 To 100, Add	486.04	
For >500 To 1,000, Deduct	-191.20	
For >1,000 To 2,000, Deduct	-288.95	
For >2,000 To 5,000, Deduct	-470.96	
For >5,000, Deduct	-782.06	
33 01 30 72-0272 LF 36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,035.47	
For Vinylester Resin, Add	2,690.89	
For Epoxy Resin, Add	317.14	
For Up To >10, Add	2,496.09	
For >10 To 25, Add	1,439.38	
For >25 To 50, Add	1,055.84	
For >50 To 100, Add	527.92	
For >500 To 1,000, Deduct	-206.56	
For >1,000 To 2,000, Deduct	-312.23	
For >2,000 To 5,000, Deduct	-509.13	
For >5,000, Deduct	-845.36	
33 01 30 72-0273 LF 36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,328.70	
For Vinylester Resin, Add	2,886.39	
For Epoxy Resin, Add	340.18	
For Up To >10, Add	2,677.55	
For >10 To 25, Add	1,544.06	
For >25 To 50, Add	1,132.60	
For >50 To 100, Add	566.30	
For >500 To 1,000, Deduct	-221.57	
For >1,000 To 2,000, Deduct	-334.92	
For >2,000 To 5,000, Deduct	-546.13	
For >5,000, Deduct	-906.80	
33 01 30 72-0274 LF 36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,621.95	
For Vinylester Resin, Add	3,081.90	
For Epoxy Resin, Add	363.22	
For Up To >10, Add	2,859.08	
For >10 To 25, Add	1,648.78	
For >25 To 50, Add	1,209.40	
For >50 To 100, Add	604.70	
For >500 To 1,000, Deduct	-236.58	
For >1,000 To 2,000, Deduct	-357.61	
For >2,000 To 5,000, Deduct	-583.14	
For >5,000, Deduct	-968.24	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0275	LF		36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,915.06	
			For Vinylester Resin, Add	3,277.41	
			For Epoxy Resin, Add	386.27	
			For Up To >10, Add	3,040.16	
			For >10 To 25, Add	1,753.13	
			For >25 To 50, Add	1,285.98	
			For >50 To 100, Add	642.99	
			For >500 To 1,000, Deduct	-251.58	
			For >1,000 To 2,000, Deduct	-380.28	
			For >2,000 To 5,000, Deduct	-620.10	
			For >5,000, Deduct	-1,029.62	
33 01 30 72-0276	LF		36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,208.29	
			For Vinylester Resin, Add	3,472.91	
			For Epoxy Resin, Add	409.31	
			For Up To >10, Add	3,221.62	
			For >10 To 25, Add	1,857.80	
			For >25 To 50, Add	1,362.75	
			For >50 To 100, Add	681.37	
			For >500 To 1,000, Deduct	-266.59	
			For >1,000 To 2,000, Deduct	-402.97	
			For >2,000 To 5,000, Deduct	-657.10	
			For >5,000, Deduct	-1,091.06	
33 01 30 72-0277 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0278	LF		37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,447.45	
			For Vinylester Resin, Add	968.14	
			For Epoxy Resin, Add	114.10	
			For Up To >10, Add	884.70	
			For >10 To 25, Add	506.74	
			For >25 To 50, Add	373.20	
			For >50 To 100, Add	186.60	
			For >500 To 1,000, Deduct	-73.98	
			For >1,000 To 2,000, Deduct	-111.78	
			For >2,000 To 5,000, Deduct	-182.06	
			For >5,000, Deduct	-302.37	
33 01 30 72-0279	LF		37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,751.91	
			For Vinylester Resin, Add	1,171.79	
			For Epoxy Resin, Add	138.10	
			For Up To >10, Add	1,070.76	
			For >10 To 25, Add	613.30	
			For >25 To 50, Add	451.68	
			For >50 To 100, Add	225.84	
			For >500 To 1,000, Deduct	-89.54	
			For >1,000 To 2,000, Deduct	-135.29	
			For >2,000 To 5,000, Deduct	-220.36	
			For >5,000, Deduct	-365.97	
33 01 30 72-0280	LF		37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,056.36	
			For Vinylester Resin, Add	1,375.44	
			For Epoxy Resin, Add	162.11	
			For Up To >10, Add	1,256.78	
			For >10 To 25, Add	719.83	
			For >25 To 50, Add	530.14	
			For >50 To 100, Add	265.07	
			For >500 To 1,000, Deduct	-105.10	
			For >1,000 To 2,000, Deduct	-158.80	
			For >2,000 To 5,000, Deduct	-258.65	
			For >5,000, Deduct	-429.56	
33 01 30 72-0281	LF		37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,360.83	
			For Vinylester Resin, Add	1,579.10	
			For Epoxy Resin, Add	186.11	
			For Up To >10, Add	1,442.84	
			For >10 To 25, Add	826.39	
			For >25 To 50, Add	608.63	
			For >50 To 100, Add	304.31	
			For >500 To 1,000, Deduct	-120.67	
			For >1,000 To 2,000, Deduct	-182.31	
			For >2,000 To 5,000, Deduct	-296.95	
			For >5,000, Deduct	-493.16	
33 01 30 72-0282	LF		37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,665.29	
			For Vinylester Resin, Add	1,782.75	
			For Epoxy Resin, Add	210.11	
			For Up To >10, Add	1,628.90	
			For >10 To 25, Add	932.95	
			For >25 To 50, Add	687.11	
			For >50 To 100, Add	343.55	
			For >500 To 1,000, Deduct	-136.23	
			For >1,000 To 2,000, Deduct	-205.82	
			For >2,000 To 5,000, Deduct	-335.24	
			For >5,000, Deduct	-556.76	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0283	LF		37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,969.74	
			For Vinylester Resin, Add	1,986.40	
			For Epoxy Resin, Add	234.11	
			For Up To >10, Add	1,814.92	
			For >10 To 25, Add	1,039.48	
			For >25 To 50, Add	765.57	
			For >50 To 100, Add	382.79	
			For >500 To 1,000, Deduct	-151.79	
			For >1,000 To 2,000, Deduct	-229.33	
			For >2,000 To 5,000, Deduct	-373.53	
			For >5,000, Deduct	-620.35	
33 01 30 72-0284	LF		37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,281.52	
			For Vinylester Resin, Add	2,190.05	
			For Epoxy Resin, Add	258.11	
			For Up To >10, Add	2,022.96	
			For >10 To 25, Add	1,164.36	
			For >25 To 50, Add	855.05	
			For >50 To 100, Add	427.52	
			For >500 To 1,000, Deduct	-167.90	
			For >1,000 To 2,000, Deduct	-253.76	
			For >2,000 To 5,000, Deduct	-413.66	
			For >5,000, Deduct	-686.88	
33 01 30 72-0285	LF		37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,586.68	
			For Vinylester Resin, Add	2,393.70	
			For Epoxy Resin, Add	282.11	
			For Up To >10, Add	2,211.12	
			For >10 To 25, Add	1,272.67	
			For >25 To 50, Add	934.58	
			For >50 To 100, Add	467.29	
			For >500 To 1,000, Deduct	-183.51	
			For >1,000 To 2,000, Deduct	-277.36	
			For >2,000 To 5,000, Deduct	-452.13	
			For >5,000, Deduct	-750.76	
33 01 30 72-0286	LF		37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,889.45	
			For Vinylester Resin, Add	2,597.36	
			For Epoxy Resin, Add	306.12	
			For Up To >10, Add	2,392.08	
			For >10 To 25, Add	1,374.98	
			For >25 To 50, Add	1,010.51	
			For >50 To 100, Add	505.26	
			For >500 To 1,000, Deduct	-198.95	
			For >1,000 To 2,000, Deduct	-300.66	
			For >2,000 To 5,000, Deduct	-490.00	
			For >5,000, Deduct	-813.68	
33 01 30 72-0287	LF		37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,197.01	
			For Vinylester Resin, Add	2,801.01	
			For Epoxy Resin, Add	330.12	
			For Up To >10, Add	2,587.43	
			For >10 To 25, Add	1,489.29	
			For >25 To 50, Add	1,093.64	
			For >50 To 100, Add	546.82	
			For >500 To 1,000, Deduct	-214.74	
			For >1,000 To 2,000, Deduct	-324.55	
			For >2,000 To 5,000, Deduct	-529.07	
			For >5,000, Deduct	-878.52	
33 01 30 72-0288	LF		37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,502.17	
			For Vinylester Resin, Add	3,004.66	
			For Epoxy Resin, Add	354.12	
			For Up To >10, Add	2,775.59	
			For >10 To 25, Add	1,597.59	
			For >25 To 50, Add	1,173.17	
			For >50 To 100, Add	586.59	
			For >500 To 1,000, Deduct	-230.35	
			For >1,000 To 2,000, Deduct	-348.15	
			For >2,000 To 5,000, Deduct	-567.53	
			For >5,000, Deduct	-942.39	
33 01 30 72-0289	LF		37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,807.18	
			For Vinylester Resin, Add	3,208.31	
			For Epoxy Resin, Add	378.12	
			For Up To >10, Add	2,963.29	
			For >10 To 25, Add	1,705.53	
			For >25 To 50, Add	1,252.48	
			For >50 To 100, Add	626.24	
			For >500 To 1,000, Deduct	-245.96	
			For >1,000 To 2,000, Deduct	-371.73	
			For >2,000 To 5,000, Deduct	-605.97	
			For >5,000, Deduct	-1,006.21	



		Utilities	33	33
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0290	LF		37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,112.34	
			For Vinylester Resin, Add	3,411.96	
			For Epoxy Resin, Add	402.12	
			For Up To >10, Add	3,151.45	
			For >10 To 25, Add	1,813.83	
			For >25 To 50, Add	1,332.01	
			For >50 To 100, Add	666.01	
			For >500 To 1,000, Deduct	-261.57	
			For >1,000 To 2,000, Deduct	-395.33	
			For >2,000 To 5,000, Deduct	-644.44	
			For >5,000, Deduct	-1,070.09	
33 01 30 72-0291	LF		37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,417.50	
			For Vinylester Resin, Add	3,615.61	
			For Epoxy Resin, Add	426.13	
			For Up To >10, Add	3,339.60	
			For >10 To 25, Add	1,922.14	
			For >25 To 50, Add	1,411.54	
			For >50 To 100, Add	705.77	
			For >500 To 1,000, Deduct	-277.18	
			For >1,000 To 2,000, Deduct	-418.93	
			For >2,000 To 5,000, Deduct	-682.90	
			For >5,000, Deduct	-1,133.97	
33 01 30 72-0292 39mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0293	LF		39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,817.43	
			For Vinylester Resin, Add	1,216.58	
			For Epoxy Resin, Add	143.38	
			For Up To >10, Add	1,107.37	
			For >10 To 25, Add	633.14	
			For >25 To 50, Add	466.78	
			For >50 To 100, Add	233.39	
			For >500 To 1,000, Deduct	-92.86	
			For >1,000 To 2,000, Deduct	-140.28	
			For >2,000 To 5,000, Deduct	-228.42	
			For >5,000, Deduct	-379.38	
33 01 30 72-0294	LF		39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,133.81	
			For Vinylester Resin, Add	1,428.38	
			For Epoxy Resin, Add	168.34	
			For Up To >10, Add	1,300.08	
			For >10 To 25, Add	743.31	
			For >25 To 50, Add	548.01	
			For >50 To 100, Add	274.01	
			For >500 To 1,000, Deduct	-109.02	
			For >1,000 To 2,000, Deduct	-164.70	
			For >2,000 To 5,000, Deduct	-268.18	
			For >5,000, Deduct	-445.42	
33 01 30 72-0295	LF		39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,450.19	
			For Vinylester Resin, Add	1,640.18	
			For Epoxy Resin, Add	193.31	
			For Up To >10, Add	1,492.80	
			For >10 To 25, Add	853.48	
			For >25 To 50, Add	629.24	
			For >50 To 100, Add	314.62	
			For >500 To 1,000, Deduct	-125.19	
			For >1,000 To 2,000, Deduct	-189.12	
			For >2,000 To 5,000, Deduct	-307.94	
			For >5,000, Deduct	-511.45	
33 01 30 72-0296	LF		39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,766.57	
			For Vinylester Resin, Add	1,851.98	
			For Epoxy Resin, Add	218.27	
			For Up To >10, Add	1,685.51	
			For >10 To 25, Add	963.65	
			For >25 To 50, Add	710.47	
			For >50 To 100, Add	355.24	
			For >500 To 1,000, Deduct	-141.35	
			For >1,000 To 2,000, Deduct	-213.54	
			For >2,000 To 5,000, Deduct	-347.70	
			For >5,000, Deduct	-577.49	
33 01 30 72-0297	LF		39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,083.09	
			For Vinylester Resin, Add	2,063.78	
			For Epoxy Resin, Add	243.23	
			For Up To >10, Add	1,878.65	
			For >10 To 25, Add	1,074.16	
			For >25 To 50, Add	791.91	
			For >50 To 100, Add	395.96	
			For >500 To 1,000, Deduct	-157.53	
			For >1,000 To 2,000, Deduct	-237.97	
			For >2,000 To 5,000, Deduct	-387.50	
			For >5,000, Deduct	-643.59	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0298	LF		39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,406.79	
			For Vinylester Resin, Add	2,275.57	
			For Epoxy Resin, Add	268.19	
			For Up To >10, Add	2,093.32	
			For >10 To 25, Add	1,202.63	
			For >25 To 50, Add	884.12	
			For >50 To 100, Add	442.06	
			For >500 To 1,000, Deduct	-174.24	
			For >1,000 To 2,000, Deduct	-263.31	
			For >2,000 To 5,000, Deduct	-429.09	
			For >5,000, Deduct	-712.55	
33 01 30 72-0299	LF		39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,723.87	
			For Vinylester Resin, Add	2,487.37	
			For Epoxy Resin, Add	293.15	
			For Up To >10, Add	2,288.16	
			For >10 To 25, Add	1,314.57	
			For >25 To 50, Add	966.41	
			For >50 To 100, Add	483.21	
			For >500 To 1,000, Deduct	-190.46	
			For >1,000 To 2,000, Deduct	-287.81	
			For >2,000 To 5,000, Deduct	-469.03	
			For >5,000, Deduct	-778.87	
33 01 30 72-0300	LF		39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,040.95	
			For Vinylester Resin, Add	2,699.17	
			For Epoxy Resin, Add	318.12	
			For Up To >10, Add	2,482.98	
			For >10 To 25, Add	1,426.49	
			For >25 To 50, Add	1,048.69	
			For >50 To 100, Add	524.35	
			For >500 To 1,000, Deduct	-206.67	
			For >1,000 To 2,000, Deduct	-312.32	
			For >2,000 To 5,000, Deduct	-508.96	
			For >5,000, Deduct	-845.19	
33 01 30 72-0301	LF		39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,358.17	
			For Vinylester Resin, Add	2,910.96	
			For Epoxy Resin, Add	343.08	
			For Up To >10, Add	2,678.21	
			For >10 To 25, Add	1,538.76	
			For >25 To 50, Add	1,131.18	
			For >50 To 100, Add	565.59	
			For >500 To 1,000, Deduct	-222.90	
			For >1,000 To 2,000, Deduct	-336.85	
			For >2,000 To 5,000, Deduct	-548.93	
			For >5,000, Deduct	-911.56	
33 01 30 72-0302	LF		39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,675.25	
			For Vinylester Resin, Add	3,122.76	
			For Epoxy Resin, Add	368.04	
			For Up To >10, Add	2,873.05	
			For >10 To 25, Add	1,650.70	
			For >25 To 50, Add	1,213.47	
			For >50 To 100, Add	606.74	
			For >500 To 1,000, Deduct	-239.12	
			For >1,000 To 2,000, Deduct	-361.35	
			For >2,000 To 5,000, Deduct	-588.87	
			For >5,000, Deduct	-977.88	
33 01 30 72-0303	LF		39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,992.33	
			For Vinylester Resin, Add	3,334.56	
			For Epoxy Resin, Add	393.00	
			For Up To >10, Add	3,067.87	
			For >10 To 25, Add	1,762.61	
			For >25 To 50, Add	1,295.75	
			For >50 To 100, Add	647.88	
			For >500 To 1,000, Deduct	-255.33	
			For >1,000 To 2,000, Deduct	-385.86	
			For >2,000 To 5,000, Deduct	-628.81	
			For >5,000, Deduct	-1,044.20	
33 01 30 72-0304	LF		39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,309.41	
			For Vinylester Resin, Add	3,546.35	
			For Epoxy Resin, Add	417.96	
			For Up To >10, Add	3,262.68	
			For >10 To 25, Add	1,874.53	
			For >25 To 50, Add	1,378.03	
			For >50 To 100, Add	689.01	
			For >500 To 1,000, Deduct	-271.55	
			For >1,000 To 2,000, Deduct	-410.37	
			For >2,000 To 5,000, Deduct	-668.74	
			For >5,000, Deduct	-1,110.52	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0305	LF		39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,626.48	
			For Vinylster Resin, Add	3,758.15	
			For Epoxy Resin, Add	442.92	
			For Up To >10, Add	3,457.49	
			For >10 To 25, Add	1,986.45	
			For >25 To 50, Add	1,460.31	
			For >50 To 100, Add	730.15	
			For >500 To 1,000, Deduct	-287.77	
			For >1,000 To 2,000, Deduct	-434.87	
			For >2,000 To 5,000, Deduct	-708.68	
			For >5,000, Deduct	-1,176.84	
33 01 30 72-0306	LF		39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,943.57	
			For Vinylster Resin, Add	3,969.95	
			For Epoxy Resin, Add	467.89	
			For Up To >10, Add	3,652.34	
			For >10 To 25, Add	2,098.39	
			For >25 To 50, Add	1,542.60	
			For >50 To 100, Add	771.30	
			For >500 To 1,000, Deduct	-303.98	
			For >1,000 To 2,000, Deduct	-459.38	
			For >2,000 To 5,000, Deduct	-748.62	
			For >5,000, Deduct	-1,243.16	
33 01 30 72-0307	LF		39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,260.64	
			For Vinylster Resin, Add	4,181.74	
			For Epoxy Resin, Add	492.85	
			For Up To >10, Add	3,847.12	
			For >10 To 25, Add	2,210.28	
			For >25 To 50, Add	1,624.86	
			For >50 To 100, Add	812.43	
			For >500 To 1,000, Deduct	-320.20	
			For >1,000 To 2,000, Deduct	-483.88	
			For >2,000 To 5,000, Deduct	-788.55	
			For >5,000, Deduct	-1,309.47	
33 01 30 72-0308 40.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0309	LF		40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,210.90	
			For Vinylster Resin, Add	1,481.16	
			For Epoxy Resin, Add	174.57	
			For Up To >10, Add	1,342.85	
			For >10 To 25, Add	766.39	
			For >25 To 50, Add	565.63	
			For >50 To 100, Add	282.81	
			For >500 To 1,000, Deduct	-112.92	
			For >1,000 To 2,000, Deduct	-170.57	
			For >2,000 To 5,000, Deduct	-277.65	
			For >5,000, Deduct	-461.17	
33 01 30 72-0310	LF		40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,539.19	
			For Vinylster Resin, Add	1,701.10	
			For Epoxy Resin, Add	200.49	
			For Up To >10, Add	1,542.22	
			For >10 To 25, Add	880.16	
			For >25 To 50, Add	649.60	
			For >50 To 100, Add	324.80	
			For >500 To 1,000, Deduct	-129.69	
			For >1,000 To 2,000, Deduct	-195.89	
			For >2,000 To 5,000, Deduct	-318.88	
			For >5,000, Deduct	-529.65	
33 01 30 72-0311	LF		40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,867.50	
			For Vinylster Resin, Add	1,921.05	
			For Epoxy Resin, Add	226.41	
			For Up To >10, Add	1,741.63	
			For >10 To 25, Add	993.96	
			For >25 To 50, Add	733.60	
			For >50 To 100, Add	366.80	
			For >500 To 1,000, Deduct	-146.45	
			For >1,000 To 2,000, Deduct	-221.22	
			For >2,000 To 5,000, Deduct	-360.11	
			For >5,000, Deduct	-598.13	
33 01 30 72-0312	LF		40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,195.78	
			For Vinylster Resin, Add	2,140.99	
			For Epoxy Resin, Add	252.33	
			For Up To >10, Add	1,940.97	
			For >10 To 25, Add	1,107.71	
			For >25 To 50, Add	817.56	
			For >50 To 100, Add	408.78	
			For >500 To 1,000, Deduct	-163.22	
			For >1,000 To 2,000, Deduct	-246.55	
			For >2,000 To 5,000, Deduct	-401.33	
			For >5,000, Deduct	-666.60	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0313 LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,531.69	
For Vinylester Resin, Add	2,360.93	
For Epoxy Resin, Add	278.25	
For Up To >10, Add	2,163.17	
For >10 To 25, Add	1,240.52	
For >25 To 50, Add	912.95	
For >50 To 100, Add	456.47	
For >500 To 1,000, Deduct	-180.56	
For >1,000 To 2,000, Deduct	-272.82	
For >2,000 To 5,000, Deduct	-444.46	
For >5,000, Deduct	-738.12	
33 01 30 72-0314 LF 40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,860.69	
For Vinylester Resin, Add	2,580.87	
For Epoxy Resin, Add	304.17	
For Up To >10, Add	2,364.67	
For >10 To 25, Add	1,356.07	
For >25 To 50, Add	997.99	
For >50 To 100, Add	498.99	
For >500 To 1,000, Deduct	-197.38	
For >1,000 To 2,000, Deduct	-298.24	
For >2,000 To 5,000, Deduct	-485.87	
For >5,000, Deduct	-806.88	
33 01 30 72-0315 LF 40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,189.68	
For Vinylester Resin, Add	2,800.81	
For Epoxy Resin, Add	330.10	
For Up To >10, Add	2,566.14	
For >10 To 25, Add	1,471.59	
For >25 To 50, Add	1,083.01	
For >50 To 100, Add	541.51	
For >500 To 1,000, Deduct	-214.20	
For >1,000 To 2,000, Deduct	-323.65	
For >2,000 To 5,000, Deduct	-527.27	
For >5,000, Deduct	-875.64	
33 01 30 72-0316 LF 40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,518.68	
For Vinylester Resin, Add	3,020.76	
For Epoxy Resin, Add	356.02	
For Up To >10, Add	2,767.65	
For >10 To 25, Add	1,587.14	
For >25 To 50, Add	1,168.05	
For >50 To 100, Add	584.03	
For >500 To 1,000, Deduct	-231.02	
For >1,000 To 2,000, Deduct	-349.07	
For >2,000 To 5,000, Deduct	-568.67	
For >5,000, Deduct	-944.40	
33 01 30 72-0317 LF 40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,847.68	
For Vinylester Resin, Add	3,240.70	
For Epoxy Resin, Add	381.94	
For Up To >10, Add	2,969.12	
For >10 To 25, Add	1,702.67	
For >25 To 50, Add	1,253.08	
For >50 To 100, Add	626.54	
For >500 To 1,000, Deduct	-247.84	
For >1,000 To 2,000, Deduct	-374.48	
For >2,000 To 5,000, Deduct	-610.08	
For >5,000, Deduct	-1,013.16	
33 01 30 72-0318 LF 40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,176.68	
For Vinylester Resin, Add	3,460.65	
For Epoxy Resin, Add	407.86	
For Up To >10, Add	3,170.59	
For >10 To 25, Add	1,818.20	
For >25 To 50, Add	1,338.11	
For >50 To 100, Add	669.05	
For >500 To 1,000, Deduct	-264.66	
For >1,000 To 2,000, Deduct	-399.90	
For >2,000 To 5,000, Deduct	-651.48	
For >5,000, Deduct	-1,081.92	
33 01 30 72-0319 LF 40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,505.68	
For Vinylester Resin, Add	3,680.59	
For Epoxy Resin, Add	433.78	
For Up To >10, Add	3,372.09	
For >10 To 25, Add	1,933.75	
For >25 To 50, Add	1,423.15	
For >50 To 100, Add	711.57	
For >500 To 1,000, Deduct	-281.48	
For >1,000 To 2,000, Deduct	-425.31	
For >2,000 To 5,000, Deduct	-692.88	
For >5,000, Deduct	-1,150.68	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0320	LF		40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,834.67	
			For Vinylester Resin, Add	3,900.53	
			For Epoxy Resin, Add	459.70	
			For Up To >10, Add	3,573.56	
			For >10 To 25, Add	2,049.27	
			For >25 To 50, Add	1,508.17	
			For >50 To 100, Add	754.09	
			For >500 To 1,000, Deduct	-298.30	
			For >1,000 To 2,000, Deduct	-450.72	
			For >2,000 To 5,000, Deduct	-734.28	
			For >5,000, Deduct	-1,219.43	
33 01 30 72-0321	LF		40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,163.67	
			For Vinylester Resin, Add	4,120.47	
			For Epoxy Resin, Add	485.63	
			For Up To >10, Add	3,775.04	
			For >10 To 25, Add	2,164.80	
			For >25 To 50, Add	1,593.20	
			For >50 To 100, Add	796.60	
			For >500 To 1,000, Deduct	-315.12	
			For >1,000 To 2,000, Deduct	-476.14	
			For >2,000 To 5,000, Deduct	-775.69	
			For >5,000, Deduct	-1,288.19	
33 01 30 72-0322	LF		40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,492.67	
			For Vinylester Resin, Add	4,340.41	
			For Epoxy Resin, Add	511.55	
			For Up To >10, Add	3,976.54	
			For >10 To 25, Add	2,280.35	
			For >25 To 50, Add	1,678.24	
			For >50 To 100, Add	839.12	
			For >500 To 1,000, Deduct	-331.94	
			For >1,000 To 2,000, Deduct	-501.55	
			For >2,000 To 5,000, Deduct	-817.09	
			For >5,000, Deduct	-1,356.95	
33 01 30 72-0323			42mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0324	LF		42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,627.81	
			For Vinylester Resin, Add	1,761.85	
			For Epoxy Resin, Add	207.65	
			For Up To >10, Add	1,591.11	
			For >10 To 25, Add	906.43	
			For >25 To 50, Add	669.71	
			For >50 To 100, Add	334.85	
			For >500 To 1,000, Deduct	-134.16	
			For >1,000 To 2,000, Deduct	-202.63	
			For >2,000 To 5,000, Deduct	-329.75	
			For >5,000, Deduct	-547.74	
33 01 30 72-0325	LF		42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,968.04	
			For Vinylester Resin, Add	1,989.95	
			For Epoxy Resin, Add	234.53	
			For Up To >10, Add	1,797.17	
			For >10 To 25, Add	1,023.85	
			For >25 To 50, Add	756.45	
			For >50 To 100, Add	378.22	
			For >500 To 1,000, Deduct	-151.53	
			For >1,000 To 2,000, Deduct	-228.87	
			For >2,000 To 5,000, Deduct	-372.45	
			For >5,000, Deduct	-618.66	
33 01 30 72-0326	LF		42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,308.25	
			For Vinylester Resin, Add	2,218.03	
			For Epoxy Resin, Add	261.41	
			For Up To >10, Add	2,003.20	
			For >10 To 25, Add	1,141.23	
			For >25 To 50, Add	843.17	
			For >50 To 100, Add	421.58	
			For >500 To 1,000, Deduct	-168.90	
			For >1,000 To 2,000, Deduct	-255.10	
			For >2,000 To 5,000, Deduct	-415.14	
			For >5,000, Deduct	-689.58	
33 01 30 72-0327	LF		42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,656.21	
			For Vinylester Resin, Add	2,446.12	
			For Epoxy Resin, Add	288.29	
			For Up To >10, Add	2,232.48	
			For >10 To 25, Add	1,277.99	
			For >25 To 50, Add	941.52	
			For >50 To 100, Add	470.76	
			For >500 To 1,000, Deduct	-186.85	
			For >1,000 To 2,000, Deduct	-282.30	
			For >2,000 To 5,000, Deduct	-459.77	
			For >5,000, Deduct	-763.59	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0328 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,997.13	
For Vinylester Resin, Add	2,674.22	
For Epoxy Resin, Add	315.18	
For Up To >10, Add	2,440.62	
For >10 To 25, Add	1,397.13	
For >25 To 50, Add	1,029.29	
For >50 To 100, Add	514.65	
For >500 To 1,000, Deduct	-204.28	
For >1,000 To 2,000, Deduct	-308.63	
For >2,000 To 5,000, Deduct	-502.64	
For >5,000, Deduct	-834.79	
33 01 30 72-0329 LF 42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,338.05	
For Vinylester Resin, Add	2,902.31	
For Epoxy Resin, Add	342.06	
For Up To >10, Add	2,648.78	
For >10 To 25, Add	1,516.29	
For >25 To 50, Add	1,117.08	
For >50 To 100, Add	558.54	
For >500 To 1,000, Deduct	-221.70	
For >1,000 To 2,000, Deduct	-334.95	
For >2,000 To 5,000, Deduct	-545.51	
For >5,000, Deduct	-905.99	
33 01 30 72-0330 LF 42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,678.97	
For Vinylester Resin, Add	3,130.39	
For Epoxy Resin, Add	368.94	
For Up To >10, Add	2,856.94	
For >10 To 25, Add	1,635.45	
For >25 To 50, Add	1,204.87	
For >50 To 100, Add	602.43	
For >500 To 1,000, Deduct	-239.12	
For >1,000 To 2,000, Deduct	-361.27	
For >2,000 To 5,000, Deduct	-588.38	
For >5,000, Deduct	-977.19	
33 01 30 72-0331 LF 42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,019.88	
For Vinylester Resin, Add	3,358.48	
For Epoxy Resin, Add	395.82	
For Up To >10, Add	3,065.07	
For >10 To 25, Add	1,754.58	
For >25 To 50, Add	1,292.64	
For >50 To 100, Add	646.32	
For >500 To 1,000, Deduct	-256.55	
For >1,000 To 2,000, Deduct	-387.59	
For >2,000 To 5,000, Deduct	-631.25	
For >5,000, Deduct	-1,048.39	
33 01 30 72-0332 LF 42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,360.80	
For Vinylester Resin, Add	3,586.57	
For Epoxy Resin, Add	422.70	
For Up To >10, Add	3,273.23	
For >10 To 25, Add	1,873.74	
For >25 To 50, Add	1,380.43	
For >50 To 100, Add	690.21	
For >500 To 1,000, Deduct	-273.97	
For >1,000 To 2,000, Deduct	-413.92	
For >2,000 To 5,000, Deduct	-674.12	
For >5,000, Deduct	-1,119.59	
33 01 30 72-0333 LF 42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,701.71	
For Vinylester Resin, Add	3,814.66	
For Epoxy Resin, Add	449.58	
For Up To >10, Add	3,481.36	
For >10 To 25, Add	1,992.88	
For >25 To 50, Add	1,468.20	
For >50 To 100, Add	734.10	
For >500 To 1,000, Deduct	-291.39	
For >1,000 To 2,000, Deduct	-440.24	
For >2,000 To 5,000, Deduct	-716.99	
For >5,000, Deduct	-1,190.78	
33 01 30 72-0334 LF 42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,042.63	
For Vinylester Resin, Add	4,042.75	
For Epoxy Resin, Add	476.47	
For Up To >10, Add	3,689.52	
For >10 To 25, Add	2,112.04	
For >25 To 50, Add	1,555.99	
For >50 To 100, Add	778.00	
For >500 To 1,000, Deduct	-308.81	
For >1,000 To 2,000, Deduct	-466.56	
For >2,000 To 5,000, Deduct	-759.86	
For >5,000, Deduct	-1,261.98	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 72-0335	LF 42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,383.56		
	For Vinylster Resin, Add	4,270.84		
	For Epoxy Resin, Add	503.35		
	For Up To >10, Add	3,897.68		
	For >10 To 25, Add	2,231.20		
	For >25 To 50, Add	1,643.78		
	For >50 To 100, Add	821.89		
	For >500 To 1,000, Deduct	-326.24		
	For >1,000 To 2,000, Deduct	-492.89		
	For >2,000 To 5,000, Deduct	-802.73		
	For >5,000, Deduct	-1,333.18		
33 01 30 72-0336	LF 42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,724.47		
	For Vinylster Resin, Add	4,498.93		
	For Epoxy Resin, Add	530.23		
	For Up To >10, Add	4,105.81		
	For >10 To 25, Add	2,350.34		
	For >25 To 50, Add	1,731.55		
	For >50 To 100, Add	865.78		
	For >500 To 1,000, Deduct	-343.66		
	For >1,000 To 2,000, Deduct	-519.21		
	For >2,000 To 5,000, Deduct	-845.60		
	For >5,000, Deduct	-1,404.38		
33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)				
33 01 30 74-0001	Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)			
33 01 30 74-0002	Lateral Reinstatement/Reconnection (33 01 30 74-0001)			
33 01 30 74-0003	EA Cut Liner For Laterals, Up To 4" (Robotic).....	566.85		
33 01 30 74-0004	EA Cut Liner For Laterals, 6" (Robotic)	612.80		
33 01 30 74-0005	EA Cut Liner For Laterals, 8" (Robotic)	651.10		
33 01 30 74-0006	EA Cut Liner For Laterals, 10" (Robotic)	689.40		
33 01 30 74-0007	EA Cut Liner For Laterals, 12" (Robotic)	727.71		
33 01 30 74-0008	Grout Lateral Service (33 01 30 74-0001)			
33 01 30 74-0009	Grout Lateral Service - Bladder (33 01 30 74-0008)			
33 01 30 74-0010	EA Grout Up To 4" Lateral Service - Bladder	590.47		
33 01 30 74-0011	EA Grout 6" Lateral Service - Bladder	678.58		
33 01 30 74-0012	EA Grout 8" Lateral Service - Bladder	766.70		
33 01 30 74-0013	Grout Lateral Service - Robotic Trowel Application (33 01 30 74-0008)			
33 01 30 74-0014	EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....	644.07		
33 01 30 74-0015	EA Grout 8" To 12" Lateral Service - Robotic Trowel Application.....	697.65		
33 01 30 74-0016	Lateral T-Liner (33 01 30 74-0001)			
	Note: As manufactured by LMK.			
33 01 30 74-0017	EA Up To 4" Lateral T-Liner	812.04		
33 01 30 74-0018	EA 6" Lateral T-Liner	911.77		
33 01 30 74-0019	EA 8" Lateral T-Liner	1,061.11		
33 01 30 74-0020	Lining Lateral Pipe (33 01 30 74-0001)			
33 01 30 74-0021	Lining Lateral Pipe (33 01 30 74-0020)			
33 01 30 74-0022	LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	43.63		
	For 7.5mm, Add	5.09		
	For 9 mm, Add	10.06		
33 01 30 74-0023	LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	52.45		
	For 7.5mm, Add	6.93		
	For 9 mm, Add	13.70		
33 01 30 74-0024	LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	69.03		
	For 7.5mm, Add	10.61		
	For 9 mm, Add	20.98		
33 01 30 74-0025	Lining Manhole Drop (33 01 30 74-0020)			
33 01 30 74-0026	EA Manhole Drop Section Lining.....	902.12		
33 01 30 79 Fold-and-Form Pipe Lining (33 01 30)				
33 01 30 79-0001	Form and Fold Relining Underground Pipelines (33 01 30 79)			
	Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.			
33 01 30 79-0002	Set-Up And Reinsertion For Fold-And-Form Relining Underground Pipelines (33 01 30 79-0001)			
33 01 30 79-0003	EA Initial Set-up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....	5,635.89		
33 01 30 79-0004	EA Move And Set-up At Different Access/Location For Fold-And-Form Relining Underground Pipelines.....	2,254.36		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0005 Form And Fold Polyethylene (PE) Pipeliner (33 01 30 79-0001)					
33 01 30 79-0006	LF	4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5		38.92	
		For DR 26 Pipe Liner, Add		6.71	
		For Up To 75, Add		23.49	
		For >75 To 150, Add		11.74	
		For >500 To 1,000, Deduct		-0.91	
		For >1,000 To 2,000, Deduct		-1.81	
		For >2,000, Deduct		-3.62	
33 01 30 79-0007	LF	6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5		49.47	
		For DR 26 Pipe Liner, Add		9.12	
		For DR 35 Pipe Liner, Deduct		-4.56	
		For Up To 75, Add		26.81	
		For >75 To 150, Add		13.40	
		For >500 To 1,000, Deduct		-0.98	
		For >1,000 To 2,000, Deduct		-1.95	
		For >2,000, Deduct		-3.90	
33 01 30 79-0008	LF	8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5		51.23	
		For DR 26 Pipe Liner, Add		9.29	
		For DR 35 Pipe Liner, Deduct		-4.64	
		For Up To 75, Add		28.56	
		For >75 To 150, Add		14.28	
		For >500 To 1,000, Deduct		-1.06	
		For >1,000 To 2,000, Deduct		-2.11	
		For >2,000, Deduct		-4.23	
33 01 30 79-0009	LF	10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5		71.07	
		For DR 26 Pipe Liner, Add		13.93	
		For DR 35 Pipe Liner, Deduct		-6.96	
		For DR 41 Pipe Liner, Deduct		-13.93	
		For Up To 75, Add		34.20	
		For >75 To 150, Add		17.10	
		For >500 To 1,000, Deduct		-1.15	
		For >1,000 To 2,000, Deduct		-2.31	
		For >2,000, Deduct		-4.61	
33 01 30 79-0010	LF	12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5		98.44	
		For DR 26 Pipe Liner, Add		20.38	
		For DR 35 Pipe Liner, Deduct		-10.19	
		For DR 41 Pipe Liner, Deduct		-20.38	
		For Up To 75, Add		41.67	
		For >75 To 150, Add		20.84	
		For >500 To 1,000, Deduct		-1.27	
		For >1,000 To 2,000, Deduct		-2.54	
		For >2,000, Deduct		-5.07	
33 01 30 79-0011	LF	15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5		134.00	
		For DR 35 Pipe Liner, Deduct		-14.35	
		For DR 41 Pipe Liner, Deduct		-28.70	
		For Up To 75, Add		51.79	
		For >75 To 150, Add		25.89	
		For >500 To 1,000, Deduct		-1.44	
		For >1,000 To 2,000, Deduct		-2.88	
		For >2,000, Deduct		-5.77	
33 01 30 79-0012	LF	18" Diameter Form and Fold Polyethylene Pipeliner, DR 35		188.12	
		For DR 41 Pipe Liner, Deduct		-16.64	
		For DR 50 Pipe Liner, Deduct		-33.29	
		For Up To 75, Add		65.81	
		For >75 To 150, Add		32.90	
		For >500 To 1,000, Deduct		-1.63	
		For >1,000 To 2,000, Deduct		-3.25	
		For >2,000, Deduct		-6.50	
33 01 30 79-0013	LF	21" Diameter Form and Fold Polyethylene Pipeliner, DR 47		212.54	
		For DR 50 Pipe Liner, Deduct		-28.36	
		For DR 55 Pipe Liner, Deduct		-47.27	
		For Up To 75, Add		73.03	
		For >75 To 150, Add		36.52	
		For >500 To 1,000, Deduct		-1.76	
		For >1,000 To 2,000, Deduct		-3.52	
		For >2,000, Deduct		-7.04	
33 01 30 79-0014	LF	24" Diameter Form and Fold Polyethylene Pipeliner, DR 55		258.55	
		For DR 60 Pipe Liner, Deduct		-34.94	
		For Up To 75, Add		85.00	
		For >75 To 150, Add		42.50	
		For >500 To 1,000, Deduct		-1.92	
		For >1,000 To 2,000, Deduct		-3.84	
		For >2,000, Deduct		-7.68	
33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner (33 01 30 79-0001)					
33 01 30 79-0016	LF	4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5		41.45	
		For Up To 75, Add		23.99	
		For >75 To 150, Add		12.00	
		For >500 To 1,000, Deduct		-0.91	
		For >1,000 To 2,000, Deduct		-1.81	
		For >2,000, Deduct		-3.62	
		For DR 26 Pipe Liner, Add		7.34	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0017	LF	6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	49.47	
		For Up To 75, Add	26.81	
		For >75 To 150, Add	13.40	
		For >500 To 1,000, Deduct	-0.98	
		For >1,000 To 2,000, Deduct	-1.95	
		For >2,000, Deduct	-3.90	
		For DR 26 Pipe Liner, Add	9.12	
		For DR 35 Pipe Liner, Deduct	-4.56	
33 01 30 79-0018	LF	8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	54.60	
		For Up To 75, Add	29.24	
		For >75 To 150, Add	14.62	
		For >500 To 1,000, Deduct	-1.06	
		For >1,000 To 2,000, Deduct	-2.11	
		For >2,000, Deduct	-4.23	
		For DR 26 Pipe Liner, Add	10.13	
		For DR 35 Pipe Liner, Deduct	-5.06	
33 01 30 79-0019	LF	10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	76.14	
		For Up To 75, Add	35.21	
		For >75 To 150, Add	17.60	
		For >500 To 1,000, Deduct	-1.15	
		For >1,000 To 2,000, Deduct	-2.31	
		For >2,000, Deduct	-4.61	
		For DR 26 Pipe Liner, Add	15.19	
		For DR 35 Pipe Liner, Deduct	-7.60	
		For DR 41 Pipe Liner, Deduct	-15.19	
33 01 30 79-0020	LF	12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	106.04	
		For Up To 75, Add	43.19	
		For >75 To 150, Add	21.60	
		For >500 To 1,000, Deduct	-1.27	
		For >1,000 To 2,000, Deduct	-2.54	
		For >2,000, Deduct	-5.07	
		For DR 26 Pipe Liner, Add	22.28	
		For DR 35 Pipe Liner, Deduct	-11.14	
		For DR 41 Pipe Liner, Deduct	-22.28	
33 01 30 79-0021	LF	15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	144.81	
		For Up To 75, Add	53.95	
		For >75 To 150, Add	26.97	
		For >500 To 1,000, Deduct	-1.44	
		For >1,000 To 2,000, Deduct	-2.88	
		For >2,000, Deduct	-5.77	
		For DR 35 Pipe Liner, Deduct	-15.70	
		For DR 41 Pipe Liner, Deduct	-31.40	
33 01 30 79-0022	LF	18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	203.98	
		For Up To 75, Add	68.98	
		For >75 To 150, Add	34.49	
		For >500 To 1,000, Deduct	-1.63	
		For >1,000 To 2,000, Deduct	-3.25	
		For >2,000, Deduct	-6.50	
		For DR 41 Pipe Liner, Deduct	-18.23	
		For DR 50 Pipe Liner, Deduct	-36.46	
33 01 30 79-0023	LF	21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	230.09	
		For Up To 75, Add	76.54	
		For >75 To 150, Add	38.27	
		For >500 To 1,000, Deduct	-1.76	
		For >1,000 To 2,000, Deduct	-3.52	
		For >2,000, Deduct	-7.04	
		For DR 50 Pipe Liner, Deduct	-30.99	
		For DR 55 Pipe Liner, Deduct	-51.65	
33 01 30 79-0024	LF	24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	280.84	
		For Up To 75, Add	89.46	
		For >75 To 150, Add	44.73	
		For >500 To 1,000, Deduct	-1.92	
		For >1,000 To 2,000, Deduct	-3.84	
		For >2,000, Deduct	-7.68	
		For DR 60 Pipe Liner, Deduct	-38.28	

33 01 30 81 Manhole Rehabilitation (33 01 30)

33 01 30 81-0001 Restoration And Rehabilitation Of Manholes (33 01 30 81)

Note: Work is in confined spaces.

33 01 30 81-0002 Set-up For Inspection And Ventilation System (33 01 30 81-0001)

33 01 30 81-0003	EA	Inspect Manhole	198.68
33 01 30 81-0004	EA	36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	15,963.50
Note: For internal inspection and repair of water mains.			
33 01 30 81-0005	EA	>60" to 108" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	22,603.28
Note: For internal inspection and repair of water mains			

33 01 30 81-0006 Manhole Seals (33 01 30 81-0001)

33 01 30 81-0007 Internal Manhole Chimney Seals (33 01 30 81-0006)

Note: Cretex.

33 01 30 81-0008	EA	20" Internal Manhole Chimney Seal.....	604.26
33 01 30 81-0009	EA	22" Internal Manhole Chimney Seal.....	636.92
33 01 30 81-0010	EA	24" Internal Manhole Chimney Seal.....	653.25

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	751.25	
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	849.23	
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	947.22	
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	1,143.19	
33 01 30 81-0015 External Manhole Encapsulation (33 01 30 81-0006) Note: Wrapidseal.		
33 01 30 81-0016 EA 24" External Manhole Encapsulation	881.89	
33 01 30 81-0017 EA 30" External Manhole Encapsulation	930.88	
33 01 30 81-0018 EA 36" External Manhole Encapsulation	996.22	
33 01 30 81-0019 EA 42" External Manhole Encapsulation	1,077.87	
33 01 30 81-0020 EA 48" External Manhole Encapsulation	1,192.18	
33 01 30 81-0021 EA 54" External Manhole Encapsulation	1,322.83	
33 01 30 81-0022 EA 60" External Manhole Encapsulation	1,486.15	
33 01 30 81-0023 Manhole Crack Repair (33 01 30 81-0001) Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024 LF Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair	63.61	
33 01 30 81-0025 LF >1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair	85.65	
33 01 30 81-0026 LF Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair	60.59	
33 01 30 81-0027 LF >1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair	82.14	
33 01 30 81-0028 Manhole Patching (33 01 30 81-0001) Note: Includes removing loose materials and cleaning.		
33 01 30 81-0029 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	18.95	
33 01 30 81-0030 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	42.98	
33 01 30 81-0031 Manhole Joint Restoration (33 01 30 81-0001) Note: Includes drilling holes at joints, fill joints with grout.		
33 01 30 81-0032 EA 3' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,546.62	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	244.14	
33 01 30 81-0033 EA 3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,972.87	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	272.34	
33 01 30 81-0034 EA 4' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,395.50	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	300.53	
33 01 30 81-0035 EA 5' Diameter Joint Restoration, Grout Fill Per Each Manhole	4,034.75	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	314.62	
33 01 30 81-0036 EA 6' Diameter Joint Restoration, Grout Fill Per Each Manhole	4,672.19	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	328.72	
33 01 30 81-0037 Step Installation In Existing Manholes (33 01 30 81-0001) Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.		
33 01 30 81-0038 EA Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	144.47	26.67
33 01 30 81-0039 EA Drill And Grout Galvanized Steel Manhole Step	130.27	26.67
33 01 30 81-0040 EA Bolt On Galvanized Steel Manhole Step.....	133.93	26.67
33 01 30 81-0041 EA Drill And Grout Aluminum Manhole Step	165.00	26.67
33 01 30 81-0042 EA Drill And Insert Polypropylene Manhole Step.....	79.99	21.33
33 01 30 81-0043 Invert Restoration (33 01 30 81-0001) Note: Includes removal of existing defective material and installation of new material.		
33 01 30 81-0044 Concrete Invert Restoration (33 01 30 81-0043)		
33 01 30 81-0045 EA 2' Diameter, Concrete Invert Restoration	373.87	
33 01 30 81-0046 EA 3' Diameter, Concrete Invert Restoration	423.54	
33 01 30 81-0047 EA 4' Diameter, Concrete Invert Restoration	473.21	
33 01 30 81-0048 EA 5' Diameter, Concrete Invert Restoration	522.89	
33 01 30 81-0049 EA 6' Diameter, Concrete Invert Restoration	671.90	
33 01 30 81-0050 SF Square Or Rectangular, Concrete Invert Restoration	37.63	
33 01 30 81-0051 Brick Invert Restoration (33 01 30 81-0043)		
33 01 30 81-0052 EA 2' Diameter, Brick Invert Restoration	616.40	
33 01 30 81-0053 EA 3' Diameter, Brick Invert Restoration	666.07	
33 01 30 81-0054 EA 4' Diameter, Brick Invert Restoration	715.74	
33 01 30 81-0055 EA 5' Diameter, Brick Invert Restoration	765.41	
33 01 30 81-0056 EA 6' Diameter, Brick Invert Restoration	815.08	
33 01 30 81-0057 SF Square Or Rectangular, Brick Invert Restoration.....	53.45	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 01 30 81-0058	Repair In-Kind Of Drainage Structures (33 01 30 81)	
Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.		
33 01 30 81-0059	VLF 2' Diameter, Repair In-Kind Drainage Structure.....	875.25
33 01 30 81-0060	VLF 3' Diameter, Repair In-Kind Drainage Structure.....	1,312.89
33 01 30 81-0061	VLF 4' Diameter, Repair In-Kind Drainage Structure.....	1,750.64
33 01 30 81-0062	VLF 5' Diameter, Repair In-Kind Drainage Structure.....	2,188.15
33 01 30 81-0063	VLF 6' Diameter, Repair In-Kind Drainage Structure.....	2,625.78
33 01 30 81-0064	VLF 2' x 2', Repair In-Kind Drainage Structure.....	1,114.98
33 01 30 81-0065	VLF 2' x 3', Repair In-Kind Drainage Structure.....	1,393.73
33 01 30 81-0066	VLF 2' x 4', Repair In-Kind Drainage Structure.....	1,672.47
33 01 30 81-0067	VLF 3' x 4', Repair In-Kind Drainage Structure.....	1,951.22
33 01 30 81-0068	VLF 4' x 4', Repair In-Kind Drainage Structure.....	2,229.97
33 01 30 81-0069	VLF 4' x 5', Repair In-Kind Drainage Structure.....	2,508.71
33 01 30 81-0070	VLF 4' x 6', Repair In-Kind Drainage Structure.....	2,787.46
33 01 30 81-0071	VLF 4' x 8', Repair In-Kind Drainage Structure.....	3,344.95
33 01 30 81-0072	VLF >32 GSF, Repair In-Kind Drainage Structure	3,902.44

33 01 30 82 Epoxy Lining for Concrete Manholes (33 01 30)

33 01 30 82-0001	Epoxy Manhole Restoration, Interior (33 01 30 82)	
33 01 30 82-0002	VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	382.02
	For 80 Mil Material, Add	45.41
	For 100 Mil Material, Add	90.82
	For 125 Mil Material, Add	141.63
	For 150 Mil Material, Add	192.45
	For 200 Mil Material, Add	278.22
	For 2 To 5 Manholes, Deduct	-27.03
	For 6 To 10 Manholes, Deduct	-44.51
	For >10 Manholes, Deduct	-89.02
33 01 30 82-0003	VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	463.38
	For 80 Mil Material, Add	54.32
	For 100 Mil Material, Add	108.64
	For 125 Mil Material, Add	169.28
	For 150 Mil Material, Add	229.91
	For 200 Mil Material, Add	331.60
	For 2 To 5 Manholes, Deduct	-32.86
	For 6 To 10 Manholes, Deduct	-54.14
	For >10 Manholes, Deduct	-108.27
33 01 30 82-0004	VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	509.35
	For 80 Mil Material, Add	60.54
	For 100 Mil Material, Add	121.09
	For 125 Mil Material, Add	188.84
	For 150 Mil Material, Add	256.59
	For 200 Mil Material, Add	370.95
	For 2 To 5 Manholes, Deduct	-36.04
	For 6 To 10 Manholes, Deduct	-59.34
	For >10 Manholes, Deduct	-118.69
33 01 30 82-0005	VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	636.77
	For 80 Mil Material, Add	75.71
	For 100 Mil Material, Add	151.41
	For 125 Mil Material, Add	236.14
	For 150 Mil Material, Add	320.86
	For 200 Mil Material, Add	463.87
	For 2 To 5 Manholes, Deduct	-45.05
	For 6 To 10 Manholes, Deduct	-74.19
	For >10 Manholes, Deduct	-148.37
33 01 30 82-0006	VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	764.11
	For 80 Mil Material, Add	90.84
	For 100 Mil Material, Add	181.68
	For 125 Mil Material, Add	283.34
	For 150 Mil Material, Add	385.01
	For 200 Mil Material, Add	556.61
	For 2 To 5 Manholes, Deduct	-54.06
	For 6 To 10 Manholes, Deduct	-89.02
	For >10 Manholes, Deduct	-178.05

33 01 30 83 Lining for Concrete Manholes (33 01 30)

33 01 30 83-0001	Manhole Lining (33 01 30 83)	
Note: Includes power washing and cleaning of manhole interiors.		
33 01 30 83-0002	Cementitious Manhole Restoration, Interior (33 01 30 83-0001)	
33 01 30 83-0003	VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior.....	156.97
	For Each Additional 1/2" Thick Material, Add	34.15
	For 2 To 5 Manholes, Deduct	-11.20
	For 6 To 10 Manholes, Deduct	-18.47
	For >10 Manholes, Deduct	-36.94

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0004 VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior	181.97	
For Each Additional 1/2" Thick Material, Add	39.73	
For 2 To 5 Manholes, Deduct	-12.97	
For 6 To 10 Manholes, Deduct	-21.40	
For >10 Manholes, Deduct	-42.80	
33 01 30 83-0005 VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior	206.96	
For Each Additional 1/2" Thick Material, Add	45.31	
For 2 To 5 Manholes, Deduct	-14.75	
For 6 To 10 Manholes, Deduct	-24.33	
For >10 Manholes, Deduct	-48.66	
33 01 30 83-0006 VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior	243.02	
For Each Additional 1/2" Thick Material, Add	55.21	
For 2 To 5 Manholes, Deduct	-17.26	
For 6 To 10 Manholes, Deduct	-28.45	
For >10 Manholes, Deduct	-56.89	
33 01 30 83-0007 VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior	264.63	
For Each Additional 1/2" Thick Material, Add	63.38	
For 2 To 5 Manholes, Deduct	-18.69	
For 6 To 10 Manholes, Deduct	-30.77	
For >10 Manholes, Deduct	-61.54	
33 01 30 83-0008 Polyurethane Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0009 VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	339.80	
For 80 Mil Material, Add	31.34	
For 100 Mil Material, Add	62.67	
For 125 Mil Material, Add	95.90	
For 150 Mil Material, Add	129.12	
For 200 Mil Material, Add	179.71	
For 2 To 5 Manholes, Deduct	-24.92	
For 6 To 10 Manholes, Deduct	-41.34	
For >10 Manholes, Deduct	-82.69	
33 01 30 83-0010 VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	414.05	
For 80 Mil Material, Add	37.88	
For 100 Mil Material, Add	75.76	
For 125 Mil Material, Add	115.84	
For 150 Mil Material, Add	155.92	
For 200 Mil Material, Add	216.70	
For 2 To 5 Manholes, Deduct	-30.39	
For 6 To 10 Manholes, Deduct	-50.44	
For >10 Manholes, Deduct	-100.87	
33 01 30 83-0011 VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	453.06	
For 80 Mil Material, Add	41.78	
For 100 Mil Material, Add	83.56	
For 125 Mil Material, Add	127.86	
For 150 Mil Material, Add	172.16	
For 200 Mil Material, Add	239.61	
For 2 To 5 Manholes, Deduct	-33.22	
For 6 To 10 Manholes, Deduct	-55.12	
For >10 Manholes, Deduct	-110.25	
33 01 30 83-0012 VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	566.33	
For 80 Mil Material, Add	52.23	
For 100 Mil Material, Add	104.45	
For 125 Mil Material, Add	159.83	
For 150 Mil Material, Add	215.20	
For 200 Mil Material, Add	299.52	
For 2 To 5 Manholes, Deduct	-41.53	
For 6 To 10 Manholes, Deduct	-68.90	
For >10 Manholes, Deduct	-137.81	
33 01 30 83-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	679.60	
For 80 Mil Material, Add	62.67	
For 100 Mil Material, Add	125.34	
For 125 Mil Material, Add	191.79	
For 150 Mil Material, Add	258.24	
For 200 Mil Material, Add	359.42	
For 2 To 5 Manholes, Deduct	-49.84	
For 6 To 10 Manholes, Deduct	-82.69	
For >10 Manholes, Deduct	-165.37	
33 01 30 83-0014 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	596.88	
For 2 To 5 Manholes, Deduct	-34.60	
For 6 To 10 Manholes, Deduct	-54.28	
For >10 Manholes, Deduct	-108.55	
33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	730.98	
For 2 To 5 Manholes, Deduct	-42.36	
For 6 To 10 Manholes, Deduct	-66.45	
For >10 Manholes, Deduct	-132.90	
33 01 30 83-0017 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	861.95	
For 2 To 5 Manholes, Deduct	-49.44	
For 6 To 10 Manholes, Deduct	-77.33	
For >10 Manholes, Deduct	-154.65	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0018	VLF	5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	1,080.98 -61.97 -96.92 -193.85	
33 01 30 83-0019	VLF	6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	1,300.02 -74.51 -116.52 -233.05	
33 01 30 86 Manhole Rim Adjustment (33 01 30)				
33 01 30 86-0001		Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86) <i>Note: Excludes asphalt See CSI section 02 41 13 13-0038 for breakup and removal of pavement, 02 41 19 13-0059 for sawcutting pavement if required, 32 12 16 13-0022 for hand placed hot mix asphalt.</i>		
33 01 30 86-0002		Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0003	EA	Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser <i>For Lowering Manhole Rim, Add</i> <i>Note: Includes digging under manhole rim</i>	585.21 103.05	
33 01 30 86-0004	EA	>2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... <i>For Lowering Manhole Rim, Add</i> <i>Note: Includes digging under manhole rim</i>	651.47 109.56	
33 01 30 86-0005	EA	>3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... <i>For Lowering Manhole Rim, Add</i> <i>Note: Includes digging under manhole rim</i>	712.79 116.49	
33 01 30 86-0006	EA	>4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... <i>For Lowering Manhole Rim, Add</i> <i>Note: Includes digging under manhole rim</i>	781.52 123.82	
33 01 30 86-0007	EA	>5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... <i>For Lowering Manhole Rim, Add</i> <i>Note: Includes digging under manhole rim</i>	840.33 131.97	
33 01 30 86-0008		Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)		
33 01 30 86-0009	EA	Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser <i>For Lowering Manhole Rim, Add</i> <i>Note: Includes digging under manhole rim</i>	684.99 108.34	
33 01 30 86-0010	EA	>2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser <i>For Lowering Manhole Rim, Add</i> <i>Note: Includes digging under manhole rim</i>	743.20 115.27	
33 01 30 86-0011	EA	>3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... <i>For Lowering Manhole Rim, Add</i> <i>Note: Includes digging under manhole rim</i>	815.04 122.60	
33 01 30 86-0012	EA	>4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... <i>For Lowering Manhole Rim, Add</i> <i>Note: Includes digging under manhole rim</i>	886.25 130.75	
33 01 30 86-0013	EA	>5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... <i>For Lowering Manhole Rim, Add</i> <i>Note: Includes digging under manhole rim</i>	954.37 138.89	
33 01 30 86-0014		>6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0015	EA	>6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	963.37	
33 01 30 86-0016	EA	7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,043.86	
33 01 30 86-0017	EA	7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,125.57	
33 01 30 86-0018	EA	8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,194.25	
33 01 30 86-0019	EA	9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,293.31	
33 01 30 86-0020	EA	10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,384.30	
33 01 30 86-0021	EA	11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,475.89	
33 01 30 86-0022	EA	12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,569.94	
33 01 30 86-0023		>12" Rise, Solid Manhole Risers (33 01 30 86)		
33 01 30 86-0024		Precast Concrete Manhole Riser (33 01 30 86-0023)		
33 01 30 86-0025	VLF	Up To 26" Diameter Precast Concrete Manhole Riser.....	105.95	
33 01 30 86-0026	VLF	>26" To 36" Diameter Precast Concrete Manhole Riser	127.27	
33 01 30 86-0027	VLF	>36" To 48" Diameter Precast Concrete Manhole Riser	200.47	
33 01 30 86-0028	VLF	>48" To 60" Diameter Precast Concrete Manhole Riser	406.49	
33 01 30 86-0029	VLF	>60" To 72" Diameter Precast Concrete Manhole Riser	595.83	
33 01 30 89 By-Pass Piping and Pumping of Water and Sewer Utilities (33 01 30)				
33 01 30 89-0001		Set-Up For By-Pass Pumping Unit (33 01 30 89) <i>Note: Excludes pump and hose rental. See CSI section 01 22 23 00-1209 for pump rental, 01 22 23 00-1252 for suction hose, 01 22 23 00-1271 for discharge hose.</i>		
33 01 30 89-0002	EA	Set-up For By-Pass Pumping Unit.....	2,083.39	
33 01 30 89-0003	EA	Move And Set-up At Different Access/Location For By-Pass Pumping Unit	1,041.70	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 01 30 89-0004	By-Pass Pumping (33 01 30 89) Note: Excludes pump rental. See CSI section 01 22 23 00-1209 for pump rental.				
33 01 30 89-0005	DAY Maintain And Operate By-Pass Pumping Unit	520.85			
33 01 30 89-0006	WK Maintain And Operate By-Pass Pumping Unit	2,604.24			
33 01 30 89-0007	MO Maintain And Operate By-Pass Pumping Unit	10,937.81			
33 01 30 89-0008	Temporary Bypass And Service Lines (33 01 30 89) Note: Laid on ground, includes fittings and connections. Remove after use.				
33 01 30 89-0009	Temporary Water Service Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connection to building water service, and chlorination prior to each use. Remove after use.				
33 01 30 89-0010	LF 1/2" Temporary Service Hose With Fittings	3.01			
	Note: Includes removal after use.				
33 01 30 89-0011	LF 3/4" Temporary Service Hose With Fittings	3.82			
	Note: Includes removal after use.				
33 01 30 89-0012	LF 1" Temporary Service Hose With Fittings	4.43			
	Note: Includes removal after use.				
33 01 30 89-0013	LF 1-1/2" Temporary Service Hose With Fittings	5.29			
	Note: Includes removal after use.				
33 01 30 89-0014	LF 2" Temporary Service Hose With Fittings	6.50			
	Note: Includes removal after use.				
33 01 30 89-0015	EA Temporary Service Valve Assembly At Fire Hydrant	333.19			
	Note: Includes removal after use.				
33 01 30 89-0016	Temporary Bypass Water Main Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connections to mains and chlorination prior to each use. Remove after use.				
33 01 30 89-0017	LF 2" Temporary Bypass Water Main Pipe With Fittings	6.97			
	Note: Includes removal after use.				
	For >500 To 1,000, Deduct	-0.46			
	For >1,000 To 5,000, Deduct	-0.93			
	For >5,000, Deduct	-1.54			
33 01 30 89-0018	LF 4" Temporary Bypass Water Main Pipe With Fittings	11.43			
	Note: Includes removal after use.				
	For >500 To 1,000, Deduct	-0.60			
	For >1,000 To 5,000, Deduct	-1.19			
	For >5,000, Deduct	-1.99			
33 01 30 89-0019	LF 6" Temporary Bypass Water Main Pipe With Fittings	16.45			
	Note: Includes removal after use.				
	For >500 To 1,000, Deduct	-0.69			
	For >1,000 To 5,000, Deduct	-1.39			
	For >5,000, Deduct	-2.31			
33 01 30 89-0020	LF 8" Temporary Bypass Water Main Pipe With Fittings	20.82			
	Note: Includes removal after use.				
	For >500 To 1,000, Deduct	-0.83			
	For >1,000 To 5,000, Deduct	-1.67			
	For >5,000, Deduct	-2.78			
33 01 30 89-0021	Piping Protection For Temporary Water Line (33 01 30 89-0008)				
33 01 30 89-0022	LF Cold Mix For Temporary Pipe	3.77			
	Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.				
33 01 30 89-0023	Drill Meter Cover For Temporary Water Line (33 01 30 89-0008)				
33 01 30 89-0024	EA Drill Meter Cover For Temporary Bypass Pipe	19.65			
33 01 30 89-0025	Temporary By-Pass Plug (33 01 30 89)				
33 01 30 89-0026	EA 8" To 16" Temporary By-Pass Plug	842.43			
33 01 30 89-0027	EA 12" To 24" Temporary By-Pass Plug	1,322.72			
33 01 30 89-0028	EA 15" To 30" Temporary By-Pass Plug	2,184.12			
33 01 30 89-0029	EA 20" To 40" Temporary By-Pass Plug	2,679.80			
33 01 30 89-0030	EA 24" To 28" Temporary By-Pass Plug	3,610.11			

33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems (33 01)

33 01 34 13 Septic Tank Solids Removal (33 01 34)

33 01 34 13-0001 Pump Out Septic Tanks (33 01 34 13)

33 01 34 13-0002 GAL Pump Out Septic Tank And Dispose 0.73

33 01 40 Operation and Maintenance of Stormwater Utilities (33 01)



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Stormwater Utilities	33 01 40	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 40 00-0001		Solid Wall High-Density Polyethylene (HDPE) Culvert Slip-Lining System ^(33 01 40) Note: Snap-Tite slip-lining system. Excludes culvert cleaning and grouting. See CSI section 33 01 30 41-0024 for culvert cleaning.		
33 01 40 00-0002	LF	6.625" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	55.89 -9.97	
33 01 40 00-0003	LF	8.625" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	85.63 -15.62	
33 01 40 00-0004	LF	10.75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	78.05 -13.85	
33 01 40 00-0005	LF	12.75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	104.29 -18.72	
33 01 40 00-0006	LF	14" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	118.03 -20.97	
33 01 40 00-0007	LF	16" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	144.66 -26.12	
33 01 40 00-0008	LF	18" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	181.95 -32.87	
33 01 40 00-0009	LF	20" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	225.16 -41.01	
33 01 40 00-0010	LF	22" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	260.43 -47.57	
33 01 40 00-0011	LF	24" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	299.01 -54.78	
33 01 40 00-0012	LF	26" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	342.60 -63.00	
33 01 40 00-0013	LF	28" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	387.81 -71.54	
33 01 40 00-0014	LF	30" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	452.09 -83.89	
33 01 40 00-0015	LF	32" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	519.66 -96.90	
33 01 40 00-0016	LF	34" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	575.91 -107.65	
33 01 40 00-0017	LF	36" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	632.15 -118.40	
33 01 40 00-0018	LF	39.37" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	726.76 -136.82	
33 01 40 00-0019	LF	42" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	821.37 -155.24	
33 01 40 00-0020	LF	48" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,070.12 -204.48	
33 01 40 00-0021	LF	54" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,315.63 -253.08	
33 01 40 00-0022	LF	57" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,461.35 -281.72	
33 01 40 00-0023	LF	60" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,605.67 -310.09	
33 01 40 00-0024	LF	63" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,752.83 -339.02	
33 01 40 00-0025	LF	66" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,972.22 -382.14	
33 01 40 00-0026	LF	72" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	2,092.60 -405.21	
33 01 40 00-0027	LF	78" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	2,222.35 -429.91	
33 01 40 00-0028	LF	84" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	2,413.67 -467.17	
33 01 40 00-0029	LF	90" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	2,466.46 -476.72	
33 01 40 00-0030	LF	96" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	2,493.51 -480.88	
33 01 40 00-0031	LF	16.5 x 23" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	301.65 -55.26	
33 01 40 00-0032	LF	17" x 26" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	335.99 -61.19	
33 01 40 00-0033	LF	18" x 29" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	371.22 -78.61	
33 01 40 00-0034	LF	19" x 32" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	429.76 -78.61	
33 01 40 00-0035	LF	21" x 33.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	471.73 -86.33	
33 01 40 00-0036	LF	22.5 x 36" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	530.96 -97.51	
33 01 40 00-0037	LF	26" x 37" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	593.59 -109.37	
33 01 40 00-0038	LF	30" x 41" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	714.36 -132.19	
33 01 40 00-0039	LF	31" x 46" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	805.93 -132.19	
33 01 40 00-0040	LF	34" x 48.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	896.34 -167.25	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 40 Operation and Maintenance of Stormwater Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 40 00-0041 LF 39" x 55.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,122.47	
For Profile Wall (Corrugated), Deduct	-211.80	
33 01 40 00-0042 LF 43" x 63" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,358.63	
For Profile Wall (Corrugated), Deduct	-258.37	
33 01 40 00-0043 LF 48" x 75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,760.34	
For Profile Wall (Corrugated), Deduct	-338.71	
33 01 40 00-0044 LF 52" x 72.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,770.35	
For Profile Wall (Corrugated), Deduct	-338.71	
33 01 40 00-0045 LF 58" x 67.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,770.35	
For Profile Wall (Corrugated), Deduct	-338.71	
33 01 40 00-0046 Pumped Grouting For Slip-Lining Systems (33 01 40)		
Note: Includes all materials, embedded piping, forms, labor and pumping equipment necessary to place and install grout.		
33 01 40 00-0047 CY Flowable Fill Grout, For Pipe Relines.....	610.54	

33 01 70 Operation and Maintenance of Electrical Utilities (33 01)**33 01 70 51 Electrical Utility Visual Inspection (33 01 70)****33 01 70 51-0001 Video Camera Inspection Of Gas Piping and Electrical Duct (33 01 70 51)****33 01 70 51-0002 Set-up For Video Camera (33 01 70 51-0001)**

33 01 70 51-0003 EA Up To 12" Diameter, Initial Set-up For Video Inspection, Gas Pipe Or Electrical Duct	297.26
33 01 70 51-0004 EA Initial Set-up And Final Equipment Removal For >12" To 48" Diameter, Video Inspection, Gas Pipe.....	334.42
33 01 70 51-0005 EA Move And Set-up For Up To 12" Diameter, Video Inspection, Gas Pipe Or Electrical Duct	74.31
33 01 70 51-0006 EA Move And Set-up For >12" To 48" Diameter, Video Inspection, Gas Pipe	111.48

33 01 70 51-0007 Video Camera Inspection Of Gas Pipe Or Electrical Duct (33 01 70 51-0001)

33 01 70 51-0008 LF Up To 12" Diameter, Video Inspection, Gas Pipe Or Electrical Duct	1.14
For >1,000 To 5,000, Deduct	-0.06
For >5,000, Deduct	-0.11
33 01 70 51-0009 LF >12" To 48" Diameter, Video Inspection, Gas Pipe	1.77
For >1,000 To 5,000, Deduct	-0.09
For >5,000, Deduct	-0.18

33 01 70 72 Cured-in-Place Conduit Lining (33 01 70)**33 01 70 72-0001 Lining Conduit With Cured In-Place (CIP) Liner (33 01 70 72)**

Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection and cleaning.

33 01 70 72-0002 2mm Thick Cured In-Place Conduit Lining (33 01 70 72-0001)

33 01 70 72-0003 LF 1-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	8.18
For Up To >10, Add	15.34
For >10 To 25, Add	12.17
For >25 To 50, Add	7.49
For >50 To 100, Add	3.74
For >500 To 1,000, Deduct	-0.52
For >1,000 To 2,000, Deduct	-0.84
For >2,000 To 5,000, Deduct	-1.57
For >5,000, Deduct	-2.54
33 01 70 72-0004 LF 2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	10.04
For Up To >10, Add	17.70
For >10 To 25, Add	13.92
For >25 To 50, Add	8.60
For >50 To 100, Add	4.30
For >500 To 1,000, Deduct	-0.63
For >1,000 To 2,000, Deduct	-1.01
For >2,000 To 5,000, Deduct	-1.86
For >5,000, Deduct	-3.02
33 01 70 72-0005 LF 2-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	12.60
For Up To >10, Add	22.15
For >10 To 25, Add	17.42
For >25 To 50, Add	10.76
For >50 To 100, Add	5.38
For >500 To 1,000, Deduct	-0.79
For >1,000 To 2,000, Deduct	-1.26
For >2,000 To 5,000, Deduct	-2.34
For >5,000, Deduct	-3.79
33 01 70 72-0006 LF 3" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	14.88
For Up To >10, Add	25.77
For >10 To 25, Add	20.21
For >25 To 50, Add	12.51
For >50 To 100, Add	6.25
For >500 To 1,000, Deduct	-0.93
For >1,000 To 2,000, Deduct	-1.48
For >2,000 To 5,000, Deduct	-2.74
For >5,000, Deduct	-4.44



		Utilities	33	33
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Electrical Utilities	33 01 70	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 70 72-0007	LF		3-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	16.74	
			For Up To >10, Add	28.10	
			For >10 To 25, Add	21.94	
			For >25 To 50, Add	13.61	
			For >50 To 100, Add	6.80	
			For >500 To 1,000, Deduct	-1.03	
			For >1,000 To 2,000, Deduct	-1.65	
			For >2,000 To 5,000, Deduct	-3.03	
			For >5,000, Deduct	-4.93	
33 01 70 72-0008	LF		4" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	18.87	
			For Up To >10, Add	31.26	
			For >10 To 25, Add	24.36	
			For >25 To 50, Add	15.12	
			For >50 To 100, Add	7.56	
			For >500 To 1,000, Deduct	-1.16	
			For >1,000 To 2,000, Deduct	-1.85	
			For >2,000 To 5,000, Deduct	-3.40	
			For >5,000, Deduct	-5.52	
33 01 70 72-0009	LF		5" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	22.31	
			For Up To >10, Add	35.11	
			For >10 To 25, Add	27.13	
			For >25 To 50, Add	16.92	
			For >50 To 100, Add	8.46	
			For >500 To 1,000, Deduct	-1.36	
			For >1,000 To 2,000, Deduct	-2.15	
			For >2,000 To 5,000, Deduct	-3.92	
			For >5,000, Deduct	-6.38	
33 01 70 72-0010	LF		6" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	25.73	
			For Up To >10, Add	38.92	
			For >10 To 25, Add	29.88	
			For >25 To 50, Add	18.69	
			For >50 To 100, Add	9.35	
			For >500 To 1,000, Deduct	-1.55	
			For >1,000 To 2,000, Deduct	-2.45	
			For >2,000 To 5,000, Deduct	-4.44	
			For >5,000, Deduct	-7.23	
33 01 70 72-0011			3mm Thick Cured In-Place Conduit Lining (33 01 70 72-0001)		
33 01 70 72-0012	LF		1-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	10.15	
			For Up To >10, Add	17.05	
			For >10 To 25, Add	13.32	
			For >25 To 50, Add	8.26	
			For >50 To 100, Add	4.13	
			For >500 To 1,000, Deduct	-0.63	
			For >1,000 To 2,000, Deduct	-1.00	
			For >2,000 To 5,000, Deduct	-1.84	
			For >5,000, Deduct	-2.99	
33 01 70 72-0013	LF		2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	13.22	
			For Up To >10, Add	21.41	
			For >10 To 25, Add	16.63	
			For >25 To 50, Add	10.34	
			For >50 To 100, Add	5.17	
			For >500 To 1,000, Deduct	-0.81	
			For >1,000 To 2,000, Deduct	-1.29	
			For >2,000 To 5,000, Deduct	-2.36	
			For >5,000, Deduct	-3.83	
33 01 70 72-0014	LF		2-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	16.28	
			For Up To >10, Add	25.74	
			For >10 To 25, Add	19.91	
			For >25 To 50, Add	12.41	
			For >50 To 100, Add	6.20	
			For >500 To 1,000, Deduct	-0.99	
			For >1,000 To 2,000, Deduct	-1.57	
			For >2,000 To 5,000, Deduct	-2.87	
			For >5,000, Deduct	-4.66	
33 01 70 72-0015	LF		3" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	19.07	
			For Up To >10, Add	29.26	
			For >10 To 25, Add	22.52	
			For >25 To 50, Add	14.07	
			For >50 To 100, Add	7.04	
			For >500 To 1,000, Deduct	-1.15	
			For >1,000 To 2,000, Deduct	-1.82	
			For >2,000 To 5,000, Deduct	-3.31	
			For >5,000, Deduct	-5.39	
33 01 70 72-0016	LF		3-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	21.72	
			For Up To >10, Add	32.36	
			For >10 To 25, Add	24.78	
			For >25 To 50, Add	15.52	
			For >50 To 100, Add	7.76	
			For >500 To 1,000, Deduct	-1.30	
			For >1,000 To 2,000, Deduct	-2.06	
			For >2,000 To 5,000, Deduct	-3.72	
			For >5,000, Deduct	-6.06	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 70 Operation and Maintenance of Electrical Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 70 72-0017 LF 4" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	24.50	
For Up To >10, Add	35.85	
For >10 To 25, Add	27.37	
For >25 To 50, Add	17.17	
For >50 To 100, Add	8.59	
For >500 To 1,000, Deduct	-1.46	
For >1,000 To 2,000, Deduct	-2.31	
For >2,000 To 5,000, Deduct	-4.17	
For >5,000, Deduct	-6.79	
33 01 70 72-0018 LF 5" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	29.94	
For Up To >10, Add	42.47	
For >10 To 25, Add	32.24	
For >25 To 50, Add	20.29	
For >50 To 100, Add	10.14	
For >500 To 1,000, Deduct	-1.77	
For >1,000 To 2,000, Deduct	-2.80	
For >2,000 To 5,000, Deduct	-5.02	
For >5,000, Deduct	-8.19	
33 01 70 72-0019 LF 6" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	34.94	
For Up To >10, Add	47.77	
For >10 To 25, Add	36.01	
For >25 To 50, Add	22.74	
For >50 To 100, Add	11.37	
For >500 To 1,000, Deduct	-2.05	
For >1,000 To 2,000, Deduct	-3.23	
For >2,000 To 5,000, Deduct	-5.77	
For >5,000, Deduct	-9.41	

33 05 Common Work Results for Utilities (33)**33 05 05 Buried Piping Installation** (33 05)**33 05 05 43 Mandrel Testing** (33 05 05)**33 05 05 43-0001 Pipe Line Deflection Testing (Mandrel) On Existing Pipe** (33 05 05 43)

33 05 05 43-0002 EA Initial Set-up And Final Equipment Removal For Deflection Testing (Mandrel)	666.38	
33 05 05 43-0003 EA Move And Set-up At Different Access/Location For Deflection Testing (Mandrel)	333.19	
33 05 05 43-0004 LF Up To 4" Diameter Pipe Line Deflection Testing (Mandrel)	1.06	
For >100 To 200, Deduct	-0.06	
For >200 To 400, Deduct	-0.10	
For >400, Deduct	-0.16	
33 05 05 43-0005 LF 6" Diameter Pipe Line Deflection Testing (Mandrel)	1.60	
For >100 To 200, Deduct	-0.07	
For >200 To 400, Deduct	-0.13	
For >400, Deduct	-0.21	
33 05 05 43-0006 LF 8" Diameter Pipe Line Deflection Testing (Mandrel)	1.90	
For >100 To 200, Deduct	-0.08	
For >200 To 400, Deduct	-0.16	
For >400, Deduct	-0.24	
33 05 05 43-0007 LF 10" Diameter Pipe Line Deflection Testing (Mandrel)	2.23	
For >100 To 200, Deduct	-0.10	
For >200 To 400, Deduct	-0.18	
For >400, Deduct	-0.28	
33 05 05 43-0008 LF 12" Diameter Pipe Line Deflection Testing (Mandrel)	2.50	
For >100 To 200, Deduct	-0.10	
For >200 To 400, Deduct	-0.19	
For >400, Deduct	-0.31	
33 05 05 43-0009 LF >12" To 15" Diameter Pipe Line Deflection Testing (Mandrel)	2.62	
For >100 To 200, Deduct	-0.11	
For >200 To 400, Deduct	-0.21	
For >400, Deduct	-0.33	
33 05 05 43-0010 LF >15" To 24" Diameter Pipe Line Deflection Testing (Mandrel)	2.77	
For >100 To 200, Deduct	-0.12	
For >200 To 400, Deduct	-0.23	
For >400, Deduct	-0.37	
33 05 05 43-0011 LF >24" To 30" Diameter Pipe Line Deflection Testing (Mandrel)	3.05	
For >100 To 200, Deduct	-0.15	
For >200 To 400, Deduct	-0.27	
For >400, Deduct	-0.43	
33 05 05 43-0012 LF >30" To 42" Diameter Pipe Line Deflection Testing (Mandrel)	3.61	
For >100 To 200, Deduct	-0.19	
For >200 To 400, Deduct	-0.35	
For >400, Deduct	-0.55	
33 05 05 43-0013 LF >42" To 48" Diameter Pipe Line Deflection Testing (Mandrel)	4.81	
For >100 To 200, Deduct	-0.28	
For >200 To 400, Deduct	-0.52	
For >400, Deduct	-0.81	
33 05 05 43-0014 LF >48" To 60" Diameter Pipe Line Deflection Testing (Mandrel)	6.11	
For >100 To 200, Deduct	-0.38	
For >200 To 400, Deduct	-0.70	
For >400, Deduct	-1.10	

33 05 07 Trenchless Installation of Utility Piping (33 05)



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Trenchless Installation of Utility Piping	33 05 07	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 05 07 13 Utility Directional Drilling (33 05 07)

33 05 07 13-0001

Horizontal Augering (33 05 07 13)

Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0002	LF	Up To 2" Diameter Horizontal Hand Augering	30.93	
33 05 07 13-0003	LF	3" Diameter Horizontal Hand Augering	37.33	
33 05 07 13-0004	LF	4" Diameter Horizontal Hand Augering	51.19	
33 05 07 13-0005	LF	6" Diameter Horizontal Hand Augering	66.12	
33 05 07 13-0006	LF	8" Diameter Horizontal Augering	113.81	
33 05 07 13-0007	LF	10" Diameter Horizontal Augering	166.03	
33 05 07 13-0008	LF	12" Diameter Horizontal Augering	199.50	
33 05 07 13-0009	LF	16" Diameter Horizontal Augering	238.33	
33 05 07 13-0010	LF	20" Diameter Horizontal Augering	412.38	
33 05 07 13-0011	LF	24" Diameter Horizontal Augering	507.16	
33 05 07 13-0012	LF	30" Diameter Horizontal Augering	625.55	
33 05 07 13-0013	LF	36" Diameter Horizontal Augering	714.70	
33 05 07 13-0014	LF	42" Diameter Horizontal Augering	881.59	
33 05 07 13-0015	LF	48" Diameter Horizontal Augering	949.93	
33 05 07 13-0016	LF	54" Diameter Horizontal Augering	1,033.09	
33 05 07 13-0017	LF	60" Diameter Horizontal Augering	1,083.09	
33 05 07 13-0018	EA	Minimum Set-up Charge For 8" To 20" Horizontal Augering.....	3,748.97	
		Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0019	EA	Minimum Set-up Charge For >20" To 36" Horizontal Augering	5,261.63	
		Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0020	EA	Minimum Set-up Charge For >36" Horizontal Augering.....	7,999.76	
		Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 13-0021

Horizontal Directional Boring (33 05 07 13)

Note: Excludes receiving pits or dewatering or cost of casing pipe. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0022	LF	Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	15.83	
		For Horizontal Boring Through Rock, Add	11.08	
33 05 07 13-0023	LF	2" Diameter Directional Boring For Horizontal Pipe, Underground	23.74	
		For Horizontal Boring Through Rock, Add	16.62	
33 05 07 13-0024	LF	2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	32.97	
		For Horizontal Boring Through Rock, Add	23.08	
33 05 07 13-0025	LF	3" Diameter Directional Boring For Horizontal Pipe, Underground	40.89	
		For Horizontal Boring Through Rock, Add	28.62	
33 05 07 13-0026	LF	4" Diameter Directional Boring For Horizontal Pipe, Underground	48.80	
		For Horizontal Boring Through Rock, Add	34.16	
33 05 07 13-0027	LF	5" Diameter Directional Boring For Horizontal Pipe, Underground	56.71	
		For Horizontal Boring Through Rock, Add	39.70	
33 05 07 13-0028	LF	6" Diameter Directional Boring For Horizontal Pipe, Underground	65.95	
		For Horizontal Boring Through Rock, Add	46.17	
33 05 07 13-0029	LF	8" Diameter Directional Boring For Horizontal Pipe, Underground	80.34	
		For Horizontal Boring Through Rock, Add	56.24	
33 05 07 13-0030	LF	10" Diameter Directional Boring For Horizontal Pipe, Underground	87.03	
		For Horizontal Boring Through Rock, Add	60.92	
33 05 07 13-0031	LF	12" Diameter Directional Boring For Horizontal Pipe, Underground	93.72	
		For Horizontal Boring Through Rock, Add	65.60	
33 05 07 13-0032	LF	18" Diameter Directional Boring For Horizontal Pipe, Underground	194.15	
		For Horizontal Boring Through Rock, Add	135.91	
33 05 07 13-0033	LF	24" Diameter Directional Boring For Horizontal Pipe, Underground	299.62	
		For Horizontal Boring Through Rock, Add	209.73	
33 05 07 13-0034	LF	30" Diameter Directional Boring For Horizontal Pipe, Underground	456.74	
		For Horizontal Boring Through Rock, Add	319.72	
33 05 07 13-0035	LF	36" Diameter Directional Boring For Horizontal Pipe, Underground	730.78	
		For Horizontal Boring Through Rock, Add	511.55	
33 05 07 13-0036	EA	Minimum Set-up Charge For Up To 6" Horizontal Directional Boring	2,901.61	
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0037	EA	Minimum Set-up Charge For >6" To 18" Horizontal Directional Boring.....	3,748.97	
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0038	EA	Minimum Set-up Charge For >18" To 36" Horizontal Directional Boring.....	5,261.63	
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 23 Utility Boring and Jacking (33 05 07)

33 05 07 23-0001

Horizontal Jacking (33 05 07 23)

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits.

33 05 07 23-0002	LF	Up To 2" Diameter Horizontal Jacking	71.23	
		For Horizontal Jacking Through Rock, Add	33.83	
33 05 07 23-0003	LF	3" Diameter Horizontal Jacking	85.39	
		For Horizontal Jacking Through Rock, Add	40.83	

33 Utilities**33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 23-0004 LF 4" Diameter Horizontal Jacking.....	115.37	
For Horizontal Jacking Through Rock, Add	55.99	
33 05 07 23-0005 LF 6" Diameter Horizontal Jacking.....	149.12	
For Horizontal Jacking Through Rock, Add	72.33	
33 05 07 23-0006 LF 8" Diameter Horizontal Jacking.....	202.01	
For Horizontal Jacking Through Rock, Add	99.16	
33 05 07 23-0007 LF 10" Diameter Horizontal Jacking.....	296.16	
For Horizontal Jacking Through Rock, Add	144.66	
33 05 07 23-0008 LF 12" Diameter Horizontal Jacking.....	356.56	
For Horizontal Jacking Through Rock, Add	173.83	
33 05 07 23-0009 LF 16" Diameter Horizontal Jacking.....	425.71	
For Horizontal Jacking Through Rock, Add	207.66	
33 05 07 23-0010 LF 20" Diameter Horizontal Jacking.....	662.76	
For Horizontal Jacking Through Rock, Add	360.49	
33 05 07 23-0011 LF 24" Diameter Horizontal Jacking.....	1,098.29	
For Horizontal Jacking Through Rock, Add	404.56	
33 05 07 23-0012 LF 30" Diameter Horizontal Jacking.....	1,275.62	
For Horizontal Jacking Through Rock, Add	499.55	
33 05 07 23-0013 LF 36" Diameter Horizontal Jacking.....	1,440.40	
For Horizontal Jacking Through Rock, Add	571.19	
33 05 07 23-0014 LF 42" Diameter Horizontal Jacking.....	1,547.21	
For Horizontal Jacking Through Rock, Add	616.81	
33 05 07 23-0015 LF 48" Diameter Horizontal Jacking.....	1,677.92	
For Horizontal Jacking Through Rock, Add	664.60	
33 05 07 23-0016 LF 54" Diameter Horizontal Jacking.....	1,792.80	
For Horizontal Jacking Through Rock, Add	723.30	
33 05 07 23-0017 EA Minimum Set-up Charge For Up To 6" Horizontal Jacking	2,901.61	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0018 EA Minimum Set-up Charge For >6" To 20" Horizontal Jacking.....	3,748.97	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0019 EA Minimum Set-up Charge For >20" To 36" Horizontal Jacking.....	5,261.63	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0020 EA Minimum Set-up Charge For >36" Horizontal Jacking	7,999.76	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)

33 05 07 24-0001 Casing Pipe (33 05 07 24)
 Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

33 05 07 24-0002 Steel Pipe (33 05 07 24-0001)

33 05 07 24-0003 LF 1-1/2" Steel Pipe Pull In Place By Boring Machine	21.32
Note: Includes pipe welding.	
33 05 07 24-0004 LF 2" Steel Pipe Pull In Place By Boring Machine	22.58
Note: Includes pipe welding.	
33 05 07 24-0005 LF 2-1/2" Steel Pipe Pull In Place By Boring Machine	24.41
Note: Includes pipe welding.	
33 05 07 24-0006 LF 3" Steel Pipe Pull In Place By Boring Machine	26.27
Note: Includes pipe welding.	
33 05 07 24-0007 LF 4" Steel Pipe Pull In Place By Boring Machine	33.34
Note: Includes pipe welding.	
33 05 07 24-0008 LF 5" Steel Pipe Pull In Place By Boring Machine	37.73
Note: Includes pipe welding.	
33 05 07 24-0009 LF 6" Steel Pipe Pull In Place By Boring Machine	42.14
Note: Includes pipe welding.	

33 05 07 24-0010 Polyethylene Pipe (33 05 07 24-0001)
 Note: Includes detectable tracer wire.

33 05 07 24-0011 LF 3/4" Polyethylene Pipe Pull In Place By Boring Machine	6.09
Note: Includes pipe welding.	
33 05 07 24-0012 LF 1" Polyethylene Pipe Pull In Place By Boring Machine	6.68
Note: Includes pipe welding.	
33 05 07 24-0013 LF 1-1/4" Polyethylene Pipe Pull In Place By Boring Machine	7.26
Note: Includes pipe welding.	
33 05 07 24-0014 LF 1-1/2" Polyethylene Pipe Pull In Place By Boring Machine	7.75
Note: Includes pipe welding.	
33 05 07 24-0015 LF 2" Polyethylene Pipe Pull In Place By Boring Machine	8.29
Note: Includes pipe welding.	
33 05 07 24-0016 LF 2-1/2" Polyethylene Pipe Pull In Place By Boring Machine	8.86
Note: Includes pipe welding.	
33 05 07 24-0017 LF 3" Polyethylene Pipe Pull In Place By Boring Machine	9.44
Note: Includes pipe welding.	
33 05 07 24-0018 LF 4" Polyethylene Pipe Pull In Place By Boring Machine	11.43
Note: Includes pipe welding.	
33 05 07 24-0019 LF 5" Polyethylene Pipe Pull In Place By Boring Machine	12.64
Note: Includes pipe welding.	
33 05 07 24-0020 LF 6" Polyethylene Pipe Pull In Place By Boring Machine	13.85
Note: Includes pipe welding.	



		Utilities	33	
		Common Work Results for Utilities	33 05	
		Trenchless Installation of Utility Piping	33 05 07	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 24-0021	LF	8" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	18.00	
33 05 07 24-0022	LF	10" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	24.43	
33 05 09 Piping Specials for Utilities (33 05)				
33 05 09 23 Adapters for Utility Piping (33 05 09)				
See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.				
33 05 09 33 Thrust Restraint for Utility Piping (33 05 09)				
See CSI section 33 14 13 13-0587 for mechanical restraints, 33 14 13 13-0622 for flanged restraints, 33 14 13 13-1207 for slip-on restraints, 33 14 13 13-1223 for slip-on restraint harnesses.				
33 05 16 Cast-Iron Utility Pipe (33 05)				
See CSI section 22 13 16 00-0019 for cast iron utility piping.				
33 05 17 Copper Utility Pipe and Tubing (33 05)				
See CSI section 33 14 13 39-0000 for copper utility piping.				
33 05 19 Ductile-Iron Utility Pipe (33 05)				
See CSI section 33 14 13 13-0000 for ductile iron utility piping.				
33 05 24 Steel Utility Pipe (33 05)				
33 05 24 23 Steel Pipe for Water Service (33 05 24)				
See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.				
33 05 27 Corrugated Metal Utility Pipe (33 05)				
33 05 27 13 Corrugated Metal Culvert Pipe (33 05 27)				
See CSI section 33 42 11 00-0500 for corrugated metal culvert pipe.				
33 05 27 23 Corrugated Metal Slotted Pipe (33 05 27)				
See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.				
33 05 27 33 Corrugated Metal Culvert Arch Pipe (33 05 27)				
See CSI section 33 42 11 00-0844 for corrugated metal culvert arch pipe.				
33 05 31 Thermoplastic Utility Pipe (33 05)				
33 05 31 11 Polyvinyl Chloride Gravity Sewer Pipe (33 05 31)				
See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.				
33 05 31 13 Polyvinyl Chloride Pressure Pipe (33 05 31)				
See CSI section 33 14 13 23-0001 for polyvinyl chloride pressure pipe.				
33 05 31 16 Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) (33 05 31)				
See CSI section 33 14 13 23-0171 for AWWA C900 and 905 polyvinyl chloride pressure pipe.				
33 05 33 Polyethylene Utility Pipe (33 05)				
33 05 33 13 Corrugated-Wall, Smooth Interior HDPE Gravity Pipe (33 05 33)				
See CSI section 33 42 11 00-0241 for corrugated-wall smooth interior HDPE gravity pipe.				
33 05 33 23 Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) (33 05 33)				
See CSI section 33 14 13 23-0426 for AWWA C906 high-density polyethylene pipe.				
33 05 33 33 Corrugated, Perforated HDPE Drainage Pipe (33 05 33)				
See CSI section 33 42 11 00-0263 for corrugated perforated HDPE drainage pipe.				
33 05 33 36 Corrugated, Non-Perforated HDPE Drainage Pipe (33 05 33)				
See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.				
33 05 33 53 HDPE Gas Utility Pipe (33 05 33)				
See CSI section 33 52 16 26-0001 for high-density polyethylene gas utility pipe.				
33 05 33 56 Medium-Density Polyethylene Gas Utility Pipe (33 05 33)				
See CSI section 33 52 16 23-0000 for Medium-Density Polyethylene Gas Utility Pipe.				
33 05 33 63 HDPE Communication Duct (33 05 33)				
33 05 33 63-0001		ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine (33 05 33 63)		
Note: Excludes boring.				
33 05 33 63-0002	LF	1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	3.96	
For Up To 250, Add			0.13	
For >250 To 500, Add			0.09	
33 05 33 63-0003	LF	1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	4.44	
For Up To 250, Add			0.16	
For >250 To 500, Add			0.11	
33 05 33 63-0004	LF	1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine	4.81	
For Up To 250, Add			0.18	
For >250 To 500, Add			0.12	

33 Utilities**33 05 Common Work Results for Utilities****33 05 33 Polyethylene Utility Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 33 63-0005	LF	2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	5.29	
		For Up To 250, Add	0.21	
		For >250 To 500, Add	0.14	
33 05 33 63-0006	LF	3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	7.16	
		For Up To 250, Add	0.45	
		For >250 To 500, Add	0.30	
33 05 33 63-0007	LF	4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	9.10	
		For Up To 250, Add	0.69	
		For >250 To 500, Add	0.46	
33 05 33 63-0008	LF	1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	4.05	
		For Up To 250, Add	0.14	
		For >250 To 500, Add	0.10	
33 05 33 63-0009	LF	1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	4.61	
		For Up To 250, Add	0.18	
		For >250 To 500, Add	0.12	
33 05 33 63-0010	LF	1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	4.95	
		For Up To 250, Add	0.20	
		For >250 To 500, Add	0.13	
33 05 33 63-0011	LF	2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	5.63	
		For Up To 250, Add	0.27	
		For >250 To 500, Add	0.18	
33 05 33 63-0012	LF	3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	7.92	
		For Up To 250, Add	0.56	
		For >250 To 500, Add	0.38	
33 05 33 63-0013	LF	4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	10.06	
		For Up To 250, Add	0.83	
		For >250 To 500, Add	0.55	

33 05 39 Concrete Pipe (33 05)**33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301)** (33 05 39)

See CSI section 33 42 11 00-0094 for prestressed concrete pressure pipe.

33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts (33 05 39)

See CSI section 33 42 11 00-0001 for reinforced concrete pipe.

33 05 39 46 Reinforced Concrete Elliptical Pipe for Sewers and Culverts (33 05 39)

See CSI section 33 42 11 00-0019 for reinforced concrete elliptical pipe.

33 05 41 Vitrified Clay Utility Pipe (33 05)

See CSI section 33 42 11 00-0367 for vitrified clay piping.

33 05 61 Concrete Manholes (33 05)**33 05 61 00-0001 Manholes** (33 05 61)**33 05 61 00-0002 Precast Concrete Manholes** (33 05 61 00-0001)

Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover.

See CSI section 33 05 84 00-0002 for top slabs.

33 05 61 00-0003 3' Diameter, Precast Concrete Manholes (33 05 61 00-0002)

33 05 61 00-0004	EA	4' Deep, 3' Diameter, Precast Concrete Manhole.....	1,848.48	339.43
		For Bitumastic Coating, Add	84.11	
		For Epoxy Coating, Add	160.72	
33 05 61 00-0005	EA	6' Deep, 3' Diameter, Precast Concrete Manhole.....	2,520.98	487.53
		For Bitumastic Coating, Add	126.16	
		For Epoxy Coating, Add	241.09	
33 05 61 00-0006	EA	8' Deep, 3' Diameter, Precast Concrete Manhole.....	3,403.30	740.55
		For Bitumastic Coating, Add	168.22	
		For Epoxy Coating, Add	321.45	
33 05 61 00-0007	VLF	Riser For 3' Diameter, Precast Concrete Manhole.....	360.93	86.40
		Note: For depths greater than 8'.		
		For Bitumastic Coating, Add	21.03	
		For Epoxy Coating, Add	40.18	
33 05 61 00-0008	VLF	Drop Collar For 3' Diameter, Precast Concrete Manhole.....	388.52	86.40
33 05 61 00-0009	EA	Drop Base For 3' Diameter, Precast Concrete Manhole.....	618.20	86.40
33 05 61 00-0010	EA	Extended Base Slab For 3' Diameter, Precast Concrete Manhole.....	494.86	86.40
33 05 61 00-0011	EA	Precast Channel For 3' Diameter, Precast Concrete Manhole.....	704.93	86.40

33 05 61 00-0012 4' Diameter, Precast Concrete Manholes (33 05 61 00-0002)

33 05 61 00-0013	EA	4' Deep, 4' Diameter, Precast Concrete Manhole.....	2,790.15	388.79
		For Bitumastic Coating, Add	84.11	
		For Epoxy Coating, Add	160.72	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0014	EA	6' Deep, 4' Diameter, Precast Concrete Manhole	3,722.94	530.73
		For Bitumastic Coating, Add	126.16	
		For Epoxy Coating, Add	241.09	
33 05 61 00-0015	EA	8' Deep, 4' Diameter, Precast Concrete Manhole	4,903.59	802.27
		For Bitumastic Coating, Add	168.22	
		For Epoxy Coating, Add	321.45	
33 05 61 00-0016	VLF	Riser For 4' Diameter, Precast Concrete Manhole	523.47	101.82
		Note: For depths greater than 8'.		
		For Bitumastic Coating, Add	21.03	
		For Epoxy Coating, Add	40.18	
33 05 61 00-0017	VLF	Drop Collar For 4' Diameter, Precast Concrete Manhole	570.84	101.82
33 05 61 00-0018	EA	Drop Base For 4' Diameter, Precast Concrete Manhole	965.01	101.82
33 05 61 00-0019	EA	Extended Base Slab For 4' Diameter, Precast Concrete Manhole	753.34	101.82
33 05 61 00-0020	EA	Precast Channel For 4' Diameter, Precast Concrete Manhole	1,113.89	101.82
33 05 61 00-0021 5' Diameter, Precast Concrete Manholes (33 05 61 00-0002)				
33 05 61 00-0022	EA	4' Deep, 5' Diameter, Precast Concrete Manhole	5,274.53	431.99
		For Bitumastic Coating, Add	108.37	
		For Epoxy Coating, Add	259.10	
33 05 61 00-0023	EA	6' Deep, 5' Diameter, Precast Concrete Manhole	7,022.93	592.44
		For Bitumastic Coating, Add	162.55	
		For Epoxy Coating, Add	388.65	
33 05 61 00-0024	EA	8' Deep, 5' Diameter, Precast Concrete Manhole	9,046.06	888.67
		For Bitumastic Coating, Add	216.74	
		For Epoxy Coating, Add	518.21	
33 05 61 00-0025	VLF	Riser For 5' Diameter, Precast Concrete Manhole	937.86	111.08
		Note: For depths greater than 8'.		
		For Bitumastic Coating, Add	27.09	
		For Epoxy Coating, Add	64.78	
33 05 61 00-0026 6' Diameter, Precast Concrete Manholes (33 05 61 00-0002)				
33 05 61 00-0027	EA	4' Deep, 6' Diameter, Precast Concrete Manhole	7,088.52	481.36
		For Bitumastic Coating, Add	124.07	
		For Epoxy Coating, Add	303.34	
33 05 61 00-0028	EA	6' Deep, 6' Diameter, Precast Concrete Manhole	9,229.06	654.15
		For Bitumastic Coating, Add	186.10	
		For Epoxy Coating, Add	455.01	
33 05 61 00-0029	EA	8' Deep, 6' Diameter, Precast Concrete Manhole	11,677.20	987.41
		For Bitumastic Coating, Add	248.13	
		For Epoxy Coating, Add	606.68	
33 05 61 00-0030	VLF	Riser For 6' Diameter, Precast Concrete Manhole	1,140.50	123.42
		Note: For depths greater than 8'.		
		For Bitumastic Coating, Add	31.02	
		For Epoxy Coating, Add	75.84	
33 05 61 00-0031 7' Diameter, Precast Concrete Manholes (33 05 61 00-0002)				
33 05 61 00-0032	EA	4' Deep, 7' Diameter, Precast Concrete Manhole	11,201.21	530.73
		For Bitumastic Coating, Add	263.83	
		For Epoxy Coating, Add	530.07	
33 05 61 00-0033	EA	6' Deep, 7' Diameter, Precast Concrete Manhole	14,480.54	723.89
		For Bitumastic Coating, Add	395.74	
		For Epoxy Coating, Add	795.10	
33 05 61 00-0034	EA	8' Deep, 7' Diameter, Precast Concrete Manhole	18,098.04	1,086.15
		For Bitumastic Coating, Add	527.66	
		For Epoxy Coating, Add	1,060.14	
33 05 61 00-0035	VLF	Riser For 7' Diameter, Precast Concrete Manhole	1,718.04	135.77
		Note: For depths greater than 8'.		
		For Bitumastic Coating, Add	65.96	
		For Epoxy Coating, Add	132.52	
33 05 61 00-0036 8' Diameter, Precast Concrete Manholes (33 05 61 00-0002)				
33 05 61 00-0037	EA	4' Deep, 8' Diameter, Precast Concrete Manhole	16,228.37	610.96
		For Bitumastic Coating, Add	311.90	
		For Epoxy Coating, Add	646.11	
33 05 61 00-0038	EA	6' Deep, 8' Diameter, Precast Concrete Manhole	21,037.72	833.12
		For Bitumastic Coating, Add	467.86	
		For Epoxy Coating, Add	969.16	
33 05 61 00-0039	EA	8' Deep, 8' Diameter, Precast Concrete Manhole	26,235.86	1,249.68
		For Bitumastic Coating, Add	623.81	
		For Epoxy Coating, Add	1,292.21	
33 05 61 00-0040	VLF	Riser For 8' Diameter, Precast Concrete Manhole	2,491.07	154.28
		Note: For depths greater than 8'.		
		For Bitumastic Coating, Add	77.98	
		For Epoxy Coating, Add	161.53	

33 05 63 Concrete Vaults and Chambers (33 05)

33 05 63 00-0001 Underground Utility Vaults And Structures (33 05 63)
See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0002		Precast Concrete Underground Utility Vault (33 05 63 00-0001) Note: Sizes given are for inside dimensions.		
33 05 63 00-0003		6' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0004	EA	4' x 4' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,849.70	
33 05 63 00-0005	EA	4' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,018.12	
33 05 63 00-0006	EA	5' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,278.74	
33 05 63 00-0007	EA	5' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,559.14	
33 05 63 00-0008	EA	6' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,412.92	
33 05 63 00-0009	EA	6' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,806.47	
33 05 63 00-0010	EA	6' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,201.28	
33 05 63 00-0011	EA	6' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,294.10	
33 05 63 00-0012	EA	6' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,294.10	
33 05 63 00-0013	EA	6' x 16' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,739.36	
33 05 63 00-0014	EA	8' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,427.69	
33 05 63 00-0015	EA	8' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,047.67	
33 05 63 00-0016	EA	8' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,791.70	
33 05 63 00-0017	EA	8' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,773.49	
33 05 63 00-0018		7' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0019	EA	4' x 4' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,806.12	
33 05 63 00-0020	EA	4' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,942.07	
33 05 63 00-0021	EA	4' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,767.95	
33 05 63 00-0022	EA	5' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,005.55	
33 05 63 00-0023	EA	5' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,383.65	
33 05 63 00-0024	EA	6' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,281.34	
33 05 63 00-0025	EA	6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,485.67	
33 05 63 00-0026	EA	6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,959.89	
33 05 63 00-0027	EA	6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,456.92	
33 05 63 00-0028	EA	6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,160.73	
33 05 63 00-0029	EA	8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,203.32	
33 05 63 00-0030	EA	8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,919.79	
33 05 63 00-0031	EA	8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,084.52	
33 05 63 00-0032	EA	8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	19,193.63	
33 05 63 00-0033	EA	10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,342.13	
33 05 63 00-0034		8' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0035	EA	4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,625.34	
33 05 63 00-0036	EA	4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,987.99	
33 05 63 00-0037	EA	5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,732.31	
33 05 63 00-0038	EA	5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,206.92	
33 05 63 00-0039	EA	6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,575.76	
33 05 63 00-0040	EA	6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,163.58	
33 05 63 00-0041	EA	6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,751.39	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0042	EA	6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,619.74	
33 05 63 00-0043	EA	6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	19,582.19	
33 05 63 00-0044	EA	8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,977.73	
33 05 63 00-0045	EA	8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	12,791.90	
33 05 63 00-0046	EA	8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,376.01	
33 05 63 00-0047	EA	8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	20,615.06	
33 05 63 00-0048	EA	10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,634.55	
33 05 63 00-0049		10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0050	EA	6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,157.22	
33 05 63 00-0051	EA	6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,841.47	
33 05 63 00-0052	EA	10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	19,925.98	
33 05 63 00-0053		12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0054	EA	6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,738.64	
33 05 63 00-0055	EA	6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,520.65	
33 05 63 00-0056		Meter Pit (33 05 63 00-0001)		
33 05 63 00-0057		Precast Concrete Meter Pit (33 05 63 00-0056)		
33 05 63 00-0058	EA	4' x 4' x 4' Deep Precast Concrete Meter Pit.....	3,902.89	
33 05 63 00-0059	EA	4' x 4' x 6' Deep Precast Concrete Meter Pit.....	5,295.52	
33 05 63 00-0060	EA	4' x 4' x 8' Deep Precast Concrete Meter Pit.....	6,653.48	
33 05 63 00-0061	EA	4' x 4' x 10' Deep Precast Concrete Meter Pit.....	8,246.34	
33 05 63 00-0062	EA	4' x 4' x 15' Deep Precast Concrete Meter Pit.....	11,407.06	
33 05 63 00-0063	EA	6' x 6' x 4' Deep Precast Concrete Meter Pit.....	5,921.42	
33 05 63 00-0064	EA	6' x 6' x 6' Deep Precast Concrete Meter Pit.....	8,246.34	
33 05 63 00-0065	EA	6' x 6' x 8' Deep Precast Concrete Meter Pit.....	10,629.48	
33 05 63 00-0066	EA	6' x 6' x 10' Deep Precast Concrete Meter Pit.....	13,260.45	
33 05 63 00-0067	EA	6' x 6' x 15' Deep Precast Concrete Meter Pit.....	18,879.06	
33 05 63 00-0068		Handhole Or Pull Box Enclosures (33 05 63 00-0001)		
33 05 63 00-0069		Polymer Concrete Handhole Enclosures (33 05 63 00-0068)		
33 05 63 00-0070		Polymer Concrete Handhole Enclosures (33 05 63 00-0069) Note: Excludes cover See CSI section 33 05 63 00-0290 for covers.		
33 05 63 00-0071		Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0072		Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0073	EA	12" x 12", 24" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	357.08	28.24
33 05 63 00-0074	EA	10" x 15", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	313.55	62.73
33 05 63 00-0075	EA	13" x 24", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	478.51	94.10
33 05 63 00-0076	EA	17" x 30", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	554.12	94.10
33 05 63 00-0077	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	529.13	94.10
33 05 63 00-0078	EA	13" x 24", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	638.18	94.10
33 05 63 00-0079	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	621.72	94.10
33 05 63 00-0080	EA	17" x 30", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	842.53	94.10
33 05 63 00-0081	EA	27" Round, 36" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,195.56	125.47
33 05 63 00-0082	EA	27" Round, 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,670.76	125.47
33 05 63 00-0083	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,093.43	172.52
33 05 63 00-0084	EA	24" x 36", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,242.24	172.52
33 05 63 00-0085	EA	24" x 36", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,016.39	172.52

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0086	EA	39" Round, 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,168.18	188.20
33 05 63 00-0087	EA	39" Round, 24" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,655.64	188.20
33 05 63 00-0088	EA	39" Round, 36" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,054.26	188.20
33 05 63 00-0089	EA	39" Round, 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,997.08	188.20
33 05 63 00-0090	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,674.43	280.15
33 05 63 00-0091	EA	30" x 48", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,408.08	280.15
33 05 63 00-0092 Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)				
33 05 63 00-0093	EA	12" x 12", 24" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	455.86	28.24
33 05 63 00-0094	EA	13" x 24", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	596.15	94.10
33 05 63 00-0095	EA	17" x 30", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	717.85	94.10
33 05 63 00-0096	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	663.38	94.10
33 05 63 00-0097	EA	13" x 24", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	756.58	94.10
33 05 63 00-0098	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	781.02	94.10
33 05 63 00-0099	EA	17" x 30", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,003.20	94.10
33 05 63 00-0100	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,343.59	172.52
33 05 63 00-0101	EA	24" x 36", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,492.41	172.52
33 05 63 00-0102	EA	24" x 36", 48" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,266.58	172.52
33 05 63 00-0103	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,966.77	280.15
33 05 63 00-0104	EA	30" x 48", 48" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,705.99	280.15
33 05 63 00-0105 Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)				
33 05 63 00-0106 Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)				
33 05 63 00-0107	EA	5" x 16", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	582.97	28.24
33 05 63 00-0108	EA	10" x 12", 15" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	493.57	28.24
33 05 63 00-0109	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	412.53	94.10
33 05 63 00-0110	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	465.28	94.10
33 05 63 00-0111	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	140.42	28.24
33 05 63 00-0112	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	215.19	28.24
33 05 63 00-0113	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	344.94	28.24
33 05 63 00-0114	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	360.65	28.24
33 05 63 00-0115	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	308.08	62.73
33 05 63 00-0116	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	332.16	62.73
33 05 63 00-0117	EA	8" x 8", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	211.97	28.24
33 05 63 00-0118	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	241.40	28.24
33 05 63 00-0119	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	329.66	62.73
33 05 63 00-0120	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	370.16	62.73
33 05 63 00-0121	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	343.95	62.73
33 05 63 00-0122	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	414.98	94.10
33 05 63 00-0123	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	454.70	94.10
33 05 63 00-0124	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	484.24	94.10
33 05 63 00-0125	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	528.73	94.10
33 05 63 00-0126	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	617.45	94.10
33 05 63 00-0127	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	671.26	94.10
33 05 63 00-0128	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	730.16	94.10



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0129	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	767.18	94.10
33 05 63 00-0130	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	916.42	125.47
33 05 63 00-0131	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	932.22	172.52
33 05 63 00-0132	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,190.13	172.52
33 05 63 00-0133	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,428.27	172.52
33 05 63 00-0134	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,578.67	172.52
33 05 63 00-0135	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,728.26	172.52
33 05 63 00-0136	EA	36" x 36", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,960.65	280.15
33 05 63 00-0137	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,433.43	280.15
33 05 63 00-0138	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,624.44	280.15
33 05 63 00-0139	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,989.70	280.15
33 05 63 00-0140	EA	30" x 60", 21" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,985.94	280.15
33 05 63 00-0141	EA	30" x 60", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,122.29	280.15
33 05 63 00-0142	EA	30" x 60", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,384.49	280.15
33 05 63 00-0143	EA	36" x 60", 19" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,196.57	300.16
33 05 63 00-0144	EA	36" x 60", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,381.71	300.16
33 05 63 00-0145	EA	36" x 60", 31" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,618.05	300.16
33 05 63 00-0146	EA	36" x 60", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,712.63	300.16
33 05 63 00-0147	EA	48" x 48", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,745.50	300.16
33 05 63 00-0148	EA	48" x 48", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,105.63	300.16
33 05 63 00-0149	EA	36" x 72", 21" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,406.24	300.16
33 05 63 00-0150	EA	36" x 72", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,165.07	300.16
33 05 63 00-0151	EA	48" x 72", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,561.16	320.17
33 05 63 00-0152	EA	48" x 72", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	4,386.79	320.17
33 05 63 00-0153	EA	48" x 96", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	5,617.22	320.17
33 05 63 00-0154		Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0155	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	549.49	94.10
33 05 63 00-0156	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	627.74	94.10
33 05 63 00-0157	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	234.22	28.24
33 05 63 00-0158	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	336.40	28.24
33 05 63 00-0159	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	449.34	28.24
33 05 63 00-0160	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	465.07	28.24
33 05 63 00-0161	EA	10" x 15", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	410.91	62.73
33 05 63 00-0162	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	427.68	62.73
33 05 63 00-0163	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	450.09	62.73
33 05 63 00-0164	EA	8" x 8", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	314.25	28.24
33 05 63 00-0165	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	370.49	28.24
33 05 63 00-0166	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	449.55	62.73
33 05 63 00-0167	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	490.04	62.73
33 05 63 00-0168	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	465.11	62.73
33 05 63 00-0169	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	548.73	94.10

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0170	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	588.95	94.10
33 05 63 00-0171	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	643.85	94.10
33 05 63 00-0172	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	688.05	94.10
33 05 63 00-0173	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	776.51	94.10
33 05 63 00-0174	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	830.56	94.10
33 05 63 00-0175	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	889.20	94.10
33 05 63 00-0176	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	926.48	94.10
33 05 63 00-0177	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,136.48	125.47
33 05 63 00-0178	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,182.40	172.52
33 05 63 00-0179	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,440.01	172.52
33 05 63 00-0180	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,677.89	172.52
33 05 63 00-0181	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,828.05	172.52
33 05 63 00-0182	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,978.14	172.52
33 05 63 00-0183	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,723.00	280.15
33 05 63 00-0184	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,914.30	280.15
33 05 63 00-0185	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,279.27	280.15
33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)				
33 05 63 00-0187	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	505.76	94.10
33 05 63 00-0188	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	586.18	94.10
33 05 63 00-0189	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	174.43	28.24
33 05 63 00-0190	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	283.90	28.24
33 05 63 00-0191	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	405.65	28.24
33 05 63 00-0192	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	421.66	28.24
33 05 63 00-0193	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	382.15	62.73
33 05 63 00-0194	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	428.77	62.73
33 05 63 00-0195	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	249.05	28.24
33 05 63 00-0196	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	405.06	62.73
33 05 63 00-0197	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	463.12	62.73
33 05 63 00-0198	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	420.15	62.73
33 05 63 00-0199	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	542.57	94.10
33 05 63 00-0200	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	621.96	94.10
33 05 63 00-0201	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	648.36	94.10
33 05 63 00-0202	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	711.22	94.10
33 05 63 00-0203	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	769.05	94.10
33 05 63 00-0204	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	823.64	94.10
33 05 63 00-0205	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	921.40	94.10
33 05 63 00-0206	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	935.03	94.10
33 05 63 00-0207	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,153.53	125.47
33 05 63 00-0208	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,204.51	172.52
33 05 63 00-0209	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,489.01	172.52
33 05 63 00-0210	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,770.36	172.52
33 05 63 00-0211	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,957.24	172.52
33 05 63 00-0212	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,144.12	172.52



		Utilities	33	
		Common Work Results for Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR			DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM	UNIT COST		UNIT COST	
33 05 63 00-0213	EA	36" x 36", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,308.84	280.15	
33 05 63 00-0214	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,781.64	280.15	
33 05 63 00-0215	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,987.55	280.15	
33 05 63 00-0216	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,352.54	280.15	
33 05 63 00-0217	EA	30" x 60", 21" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,513.54	280.15	
33 05 63 00-0218	EA	30" x 60", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,563.96	280.15	
33 05 63 00-0219	EA	30" x 60", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,053.05	280.15	
33 05 63 00-0220	EA	36" x 60", 19" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,836.60	300.16	
33 05 63 00-0221	EA	36" x 60", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,932.26	300.16	
33 05 63 00-0222	EA	36" x 60", 31" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,203.60	300.16	
33 05 63 00-0223	EA	36" x 60", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,408.97	300.16	
33 05 63 00-0224	EA	36" x 72", 21" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,134.46	300.16	
33 05 63 00-0225	EA	36" x 72", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,868.94	300.16	
33 05 63 00-0226	EA	48" x 48", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,363.14	300.16	
33 05 63 00-0227	EA	48" x 48", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,692.69	300.16	
33 05 63 00-0228	EA	48" x 72", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	4,467.64	320.17	
33 05 63 00-0229	EA	48" x 72", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	5,293.60	320.17	
33 05 63 00-0230	EA	48" x 96", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	7,126.54	320.17	
33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)					
33 05 63 00-0232	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	642.69	94.10	
33 05 63 00-0233	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	748.95	94.10	
33 05 63 00-0234	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	267.47	28.24	
33 05 63 00-0235	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	404.87	28.24	
33 05 63 00-0236	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	509.84	28.24	
33 05 63 00-0237	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	526.06	28.24	
33 05 63 00-0238	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	502.04	62.73	
33 05 63 00-0239	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	548.37	62.73	
33 05 63 00-0240	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	381.99	28.24	
33 05 63 00-0241	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	524.40	62.73	
33 05 63 00-0242	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	582.47	62.73	
33 05 63 00-0243	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	507.09	62.73	
33 05 63 00-0244	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	676.86	94.10	
33 05 63 00-0245	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	756.25	94.10	
33 05 63 00-0246	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	807.66	94.10	
33 05 63 00-0247	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	870.54	94.10	
33 05 63 00-0248	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	928.35	94.10	
33 05 63 00-0249	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	982.97	94.10	
33 05 63 00-0250	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,080.75	94.10	
33 05 63 00-0251	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,094.33	94.10	
33 05 63 00-0252	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,373.30	125.47	
33 05 63 00-0253	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,454.67	172.52	

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0254	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,738.91	172.52
33 05 63 00-0255	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,019.96	172.52
33 05 63 00-0256	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,206.98	172.52
33 05 63 00-0257	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,394.00	172.52
33 05 63 00-0258	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,071.47	280.15
33 05 63 00-0259	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,277.67	280.15
33 05 63 00-0260	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,642.40	280.15
33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)				
33 05 63 00-0262	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	539.15	94.10
33 05 63 00-0263	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	364.02	62.73
33 05 63 00-0264	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	408.79	62.73
33 05 63 00-0265	EA	13" x 24", 12" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	481.03	94.10
33 05 63 00-0266	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	378.68	62.73
33 05 63 00-0267	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	421.56	62.73
33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions (33 05 63 00-0069)				
Note: Excludes bases See CSI section 33 05 63 00-0070 for bases.				
33 05 63 00-0269	EA	13" x 24", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	397.68	94.10
33 05 63 00-0270	EA	17" x 30", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	444.34	94.10
33 05 63 00-0271	EA	24" x 24", 6" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	512.58	125.47
33 05 63 00-0272	EA	24" x 24", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	558.39	125.47
33 05 63 00-0273	EA	24" x 36", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	665.08	172.52
33 05 63 00-0274	EA	36" x 36", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,161.68	280.15
33 05 63 00-0275	EA	30" x 48", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,111.60	280.15
33 05 63 00-0276	EA	30" x 48", 11" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,122.53	280.15
33 05 63 00-0277	EA	36" x 60", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,504.60	300.16
33 05 63 00-0278	EA	48" x 72", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	2,368.83	320.17
33 05 63 00-0279	EA	48" x 96", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	3,096.37	320.17
33 05 63 00-0280	EA	13" x 24", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	642.50	94.10
33 05 63 00-0281	EA	17" x 30", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	671.00	94.10
33 05 63 00-0282	EA	24" x 24", 6" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	721.42	125.47
33 05 63 00-0283	EA	24" x 24", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	767.73	125.47
33 05 63 00-0284	EA	24" x 36", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	894.13	172.52
33 05 63 00-0285	EA	30" x 48", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	1,435.29	280.15
33 05 63 00-0286	EA	13" x 24", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	503.16	94.10
33 05 63 00-0287	EA	17" x 30", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	559.38	94.10
33 05 63 00-0288	EA	24" x 36", 4" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	745.74	172.52
33 05 63 00-0289	EA	36" x 60", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	1,450.97	300.16
33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0069)				
33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)				
33 05 63 00-0292	EA	5" x 16", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	138.61	12.56
33 05 63 00-0293	EA	10" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	140.41	12.56
33 05 63 00-0294	EA	12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	130.13	12.56
33 05 63 00-0295	EA	8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	140.76	12.56
33 05 63 00-0296	EA	11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	142.12	12.55
33 05 63 00-0297	EA	13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	163.04	12.55
33 05 63 00-0298	EA	17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	188.92	12.55
33 05 63 00-0299	EA	30" x 59", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,237.91	36.02
33 05 63 00-0300	EA	30" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,083.59	36.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0301 EA 36" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,621.08	36.02
33 05 63 00-0302 EA 48" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,639.41	36.02
33 05 63 00-0303 EA 36" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,856.89	36.02
33 05 63 00-0304 EA 48" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	2,023.01	36.02
33 05 63 00-0305 EA 48" x 96", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	3,249.51	36.02
33 05 63 00-0306 EA 10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	118.72	12.55
33 05 63 00-0307 EA 11" x 18", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	170.08	12.55
33 05 63 00-0308 EA 11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	172.46	12.55
33 05 63 00-0309 EA 13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	216.97	12.55
33 05 63 00-0310 EA 13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	163.70	12.55
33 05 63 00-0311 EA 17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	256.67	12.55
33 05 63 00-0312 EA 17" x 30", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	201.53	12.55
33 05 63 00-0313 EA 27" Round, 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	413.53	12.55
33 05 63 00-0314 EA 24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	362.39	18.82
33 05 63 00-0315 EA 24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	454.15	18.82
33 05 63 00-0316 EA 39" Round, 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	585.34	21.96
33 05 63 00-0317 EA 36" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	821.12	28.02
33 05 63 00-0318 EA 30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	853.37	53.36
33 05 63 00-0319 EA 11" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	219.64	12.55
33 05 63 00-0320 EA 13" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	313.15	12.55
33 05 63 00-0321 EA 17" x 30", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	356.32	12.55
33 05 63 00-0322 EA 27" Round, 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	592.46	12.55
33 05 63 00-0323 EA 24" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	488.53	18.82
33 05 63 00-0324 EA 39" Round, 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	825.60	21.96
33 05 63 00-0325 EA 36" x 36", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,081.40	28.02
33 05 63 00-0326 EA 30" x 59", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,459.14	36.02
33 05 63 00-0327 EA 30" x 60", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,297.46	36.02
33 05 63 00-0328 EA 36" x 60", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,811.60	36.02
33 05 63 00-0329 EA 48" x 48", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,358.40	36.02
33 05 63 00-0330 EA 36" x 72", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,258.65	36.02
33 05 63 00-0331 EA 48" x 72", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	3,427.58	36.02
33 05 63 00-0332 EA 48" x 96", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	5,293.30	36.02
33 05 63 00-0333 EA 11" x 18", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	288.93	12.55
33 05 63 00-0334 EA 11" x 20", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	315.94	12.55
33 05 63 00-0335 EA 13" x 24", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	415.99	12.55
33 05 63 00-0336 EA 17" x 30", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	474.06	12.55
33 05 63 00-0337 EA 27" Round, 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	819.36	12.55
33 05 63 00-0338 EA 24" x 24", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	595.45	18.82
33 05 63 00-0339 EA 24" x 36", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	814.07	18.82
33 05 63 00-0340 EA 39" Round, 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,262.15	21.96
33 05 63 00-0341 EA 36" x 36", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,443.70	28.02
33 05 63 00-0342 EA 30" x 48", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,502.06	53.36
33 05 63 00-0343 EA 30" x 60", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,737.50	36.02
33 05 63 00-0344 EA 36" x 60", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,424.92	36.02
33 05 63 00-0345 EA 48" x 48", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	3,391.81	36.02
33 05 63 00-0346 EA 36" x 72", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	3,026.90	36.02
33 05 63 00-0347 EA 48" x 72", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	5,014.96	36.02
33 05 63 00-0348 EA 48" x 96", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	7,739.63	36.02
33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets (33 05 63 00-0290)		
33 05 63 00-0350 EA 12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	159.18	12.56
33 05 63 00-0351 EA 8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	168.22	12.56
33 05 63 00-0352 EA 11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	171.16	12.55
33 05 63 00-0353 EA 13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	172.27	12.55
33 05 63 00-0354 EA 17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	198.79	12.55
33 05 63 00-0355 EA 10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	127.05	12.55
33 05 63 00-0356 EA 11" x 18", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	178.63	12.55
33 05 63 00-0357 EA 11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	180.28	12.55
33 05 63 00-0358 EA 13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	225.78	12.55
33 05 63 00-0359 EA 13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	173.29	12.55
33 05 63 00-0360 EA 17" x 30", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	211.66	12.55
33 05 63 00-0361 EA 17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	266.00	12.55
33 05 63 00-0362 EA 24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	368.64	18.82
33 05 63 00-0363 EA 24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	463.76	18.82
33 05 63 00-0364 EA 30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	863.24	53.36
33 05 63 00-0365 EA 6" x 8", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	105.86	12.56
33 05 63 00-0366 EA 8" x 8", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	165.39	12.56
33 05 63 00-0367 EA 8" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	183.95	12.56
33 05 63 00-0368 EA 12" x 12", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	175.71	12.56
33 05 63 00-0369 EA 10" x 15", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	144.79	12.55
33 05 63 00-0370 EA 11" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	228.17	12.55
33 05 63 00-0371 EA 11" x 20", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	247.44	12.55
33 05 63 00-0372 EA 13" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	322.22	12.55
33 05 63 00-0373 EA 17" x 30", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	366.17	12.55
33 05 63 00-0374 EA 24" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	497.34	18.82
33 05 63 00-0375 EA 24" x 36", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	620.91	18.82
33 05 63 00-0376 EA 30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	1,136.28	53.36

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)

33 05 63 00-0378	EA	6" x 9", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	85.39	12.56
33 05 63 00-0379	EA	7" x 13", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	101.40	12.56
33 05 63 00-0380	EA	12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	122.95	12.56
33 05 63 00-0381	EA	8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	132.54	12.56
33 05 63 00-0382	EA	11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	132.27	12.55
33 05 63 00-0383	EA	13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	156.83	12.55
33 05 63 00-0384	EA	17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	180.96	12.55
33 05 63 00-0385	EA	24" x 36", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	438.42	18.82
33 05 63 00-0386	EA	30" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	817.43	53.36
33 05 63 00-0387	EA	30" x 59", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,224.42	36.02
33 05 63 00-0388	EA	30" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,068.36	36.02
33 05 63 00-0389	EA	48" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,596.03	36.02
33 05 63 00-0390	EA	36" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,540.23	36.02
33 05 63 00-0391	EA	36" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,842.34	36.02
33 05 63 00-0392	EA	48" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,969.27	36.02
33 05 63 00-0393	EA	48" x 96", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	3,146.22	36.02
33 05 63 00-0394	EA	10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	114.16	12.55
33 05 63 00-0395	EA	10" x 16", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	111.49	12.55
33 05 63 00-0396	EA	11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	164.32	12.55
33 05 63 00-0397	EA	11" x 21", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	180.49	12.55
33 05 63 00-0398	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	204.20	12.55
33 05 63 00-0399	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts	155.44	12.55
33 05 63 00-0400	EA	18" x 19", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	173.29	12.55
33 05 63 00-0401	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	245.48	12.55
33 05 63 00-0402	EA	24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	355.14	18.82
33 05 63 00-0403	EA	20" x 42", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	443.41	18.82
33 05 63 00-0404	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	438.16	18.82
33 05 63 00-0405	EA	36" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	788.35	28.02
33 05 63 00-0406	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	817.43	32.01

33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)

33 05 63 00-0408	EA	30" x 60", 5,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,274.70	36.02
33 05 63 00-0409	EA	36" x 60", 5,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,844.21	36.02
33 05 63 00-0410	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,069.67	53.36
33 05 63 00-0411	EA	30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,417.33	53.36
33 05 63 00-0412	EA	30" x 60", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,513.83	36.02
33 05 63 00-0413	EA	36" x 60", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	2,061.95	36.02

33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)

33 05 63 00-0415	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	497.50	18.82
33 05 63 00-0416	EA	36" x 36", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	923.70	28.02
33 05 63 00-0417	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	966.08	53.36
33 05 63 00-0418	EA	6" x 8", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	80.92	12.56
33 05 63 00-0419	EA	8" x 8", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	133.39	12.56
33 05 63 00-0420	EA	12" x 12", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	146.66	12.56
33 05 63 00-0421	EA	8" x 18", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	155.45	12.56
33 05 63 00-0422	EA	10" x 15", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	136.52	12.55
33 05 63 00-0423	EA	11" x 20", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	239.62	12.55
33 05 63 00-0424	EA	24" x 36", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	666.06	18.82
33 05 63 00-0425	EA	36" x 36", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,227.68	28.02
33 05 63 00-0426	EA	30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,286.82	53.36

33 05 63 00-0427 Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)

Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).

33 05 63 00-0428	EA	12" x 12" x 12" Precast Concrete Handholes With Steel Cover	1,081.86	261.14
Note: 8000 To 12000 pound traffic rated top.				
For 15,000 to 22,500 Pound Traffic Rated Top, Add			18.00	
33 05 63 00-0429	EA	12" x 24" x 21" Precast Concrete Handholes With Steel Cover	1,850.60	391.72
Note: 8000 To 12000 pound traffic rated top.				
For 15,000 to 22,500 Pound Traffic Rated Top, Add			112.68	
33 05 63 00-0430	EA	18" x 30" x 18" Precast Concrete Handholes With Steel Cover	2,211.35	522.28
Note: 8000 To 12000 pound traffic rated top.				
For 15,000 to 22,500 Pound Traffic Rated Top, Add			198.71	
33 05 63 00-0431	EA	24" x 24" x 24" Precast Concrete Handholes With Steel Cover	2,310.91	522.28
Note: 8000 To 12000 pound traffic rated top.				
For 15,000 to 22,500 Pound Traffic Rated Top, Add			251.82	
33 05 63 00-0432	EA	24" x 24" x 30" Precast Concrete Handholes With Steel Cover	2,690.66	652.85
Note: 8000 To 12000 pound traffic rated top.				
For 15,000 to 22,500 Pound Traffic Rated Top, Add			303.83	
33 05 63 00-0433	EA	30" x 36" x 30" Precast Concrete Handholes With Steel Cover	2,855.69	652.85
Note: 8000 To 12000 pound traffic rated top.				
For 15,000 to 22,500 Pound Traffic Rated Top, Add			332.30	
33 05 63 00-0434	EA	36" x 36" x 48" Precast Concrete Handholes With Steel Cover	3,279.14	783.42
Note: 8000 To 12000 pound traffic rated top.				
For 15,000 to 22,500 Pound Traffic Rated Top, Add			388.80	



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0435 EA 48" x 48" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	3,755.54 538.62	913.99
33 05 63 00-0436 EA 48" x 72" x 36" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	3,770.09 578.12	783.42
33 05 63 00-0437 EA 54" x 38" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	3,812.32 407.92	783.42
33 05 63 00-0438 EA 6" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	811.46 15.00	261.14
33 05 63 00-0439 EA 9" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	965.67 15.00	293.78
33 05 63 00-0440 EA 12" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	1,208.79 15.00	326.42

33 05 81 Metallic Castings for Utility Structures (33 05)

33 05 81 00-0001 Manhole Accessories (33 05 81)

33 05 81 00-0002 Steps For Cast-In-Place Manholes (33 05 81 00-0001)

See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

33 05 81 00-0003 EA Cast Iron Manhole Step For New Manholes	85.45	
33 05 81 00-0004 EA Galvanized Steel Manhole Step For New Manholes	71.25	
33 05 81 00-0005 EA Aluminum Manhole Step For New Manholes	105.97	

33 05 81 00-0006 Manhole Covers And Frames (33 05 81)

Note: Includes moisture-tight masonry joints and waterproof grouting.

33 05 81 00-0007 Regular Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0008 EA 18" Square, Gray Iron, Manhole Cover With Frame For Ductile Iron Castings, Add	3,525.52 2,243.23	106.15
33 05 81 00-0009 EA 18" Diameter, Gray Iron, Manhole Cover With Frame For Ductile Iron Castings, Add	1,876.42 1,088.86	106.15
33 05 81 00-0010 EA 24" Diameter, Gray Iron, Manhole Cover With Frame For Ductile Iron Castings, Add	2,168.79 1,258.95	123.42
33 05 81 00-0011 EA 24" Square, Gray Iron, Manhole Cover With Frame For Ductile Iron Castings, Add	3,536.33 2,187.44	137.01
33 05 81 00-0012 EA 26" Diameter, Gray Iron, Manhole Cover With Frame For Ductile Iron Castings, Add	2,925.14 1,735.33	148.11
33 05 81 00-0013 EA 30" Diameter, Gray Iron, Manhole Cover With Frame For Ductile Iron Castings, Add	3,053.63 1,813.56	154.28

33 05 81 00-0014 Watertight Type Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0015 EA 20" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	3,887.53 2,477.10	87.63
33 05 81 00-0016 EA 22" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	3,927.84 2,485.22	87.63
33 05 81 00-0017 EA 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	3,985.14 2,501.60	102.45
33 05 81 00-0018 EA 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	4,779.81 3,033.60	114.78
33 05 81 00-0019 EA 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	5,578.85 3,581.21	117.26
33 05 81 00-0020 EA 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	5,886.02 3,791.99	119.72
33 05 81 00-0021 EA 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	6,160.60 3,979.79	123.42

33 05 81 00-0022 Aluminum Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0023 EA 12" Square Aluminum Manhole Cover With Frame	1,336.01	32.08
33 05 81 00-0024 EA 18" Square Aluminum Manhole Cover With Frame	2,465.22	35.51
33 05 81 00-0025 EA 24" Square Aluminum Manhole Cover With Frame	3,545.96	41.23

33 05 81 00-0026 Removal And Reinstallation Of Manhole Cover And Frame (33 05 81 00-0006)

Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.

33 05 81 00-0027 EA Removal And Reinstallation Of Manhole Cover And Frame	494.86	

33 05 83 Non-Metallic Accessories for Utility Structures (33 05)

33 05 83 00-0001 Manhole Accessories (33 05 83)

33 05 83 00-0002 Steps For Cast-In-Place Manholes (33 05 83 00-0001)

See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

33 05 83 00-0003 EA Polypropylene Manhole Step For New Manholes	54.19	

33 Utilities**33 05 Common Work Results for Utilities****33 05 83 Non-Metallic Accessories for Utility Structures**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 83 00-0004 Rainguard Inflow Protectors (33 05 83)

33 05 83 00-0005	EA	18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	157.30	26.67
33 05 83 00-0006	EA	22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	182.13	26.67
33 05 83 00-0007	EA	24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	217.76	31.99
33 05 83 00-0008	EA	26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	233.45	31.99
33 05 83 00-0009	EA	30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	289.73	37.33
33 05 83 00-0010	EA	32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	309.00	37.33

33 05 84 Accessories for Utility Structures (33 05)

See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 05 84 00-0001 Manhole Accessories (33 05 84)**33 05 84 00-0002 Precast Concrete Manhole Tops** (33 05 84 00-0001)**33 05 84 00-0003 Precast Concrete Manhole Slab Tops** (33 05 84 00-0002)

33 05 84 00-0004	EA	3' Diameter x 8" Thick Precast Manhole Top Slab.....	666.97	92.57
33 05 84 00-0005	EA	4' Diameter x 8" Thick Precast Manhole Top Slab.....	928.36	99.97
33 05 84 00-0006	EA	5' Diameter x 8" Thick Precast Manhole Top Slab.....	1,251.78	107.38
33 05 84 00-0007	EA	6' Diameter x 8" Thick Precast Manhole Top Slab.....	1,496.84	114.78
33 05 84 00-0008	EA	7' Diameter x 8" Thick Precast Manhole Top Slab.....	2,271.37	123.42
33 05 84 00-0009	EA	8' Diameter x 10" Thick Precast Manhole Top Slab.....	3,027.55	132.68
33 05 84 00-0010	EA	10' Diameter x 12" Thick Precast Manhole Top Slab.....	5,145.12	141.94
33 05 84 00-0011	EA	12' Diameter x 12" Thick Precast Manhole Top Slab.....	7,294.15	152.74

33 05 84 00-0012 Precast Concrete Manhole Cone Tops (33 05 84 00-0002)

33 05 84 00-0013	EA	3' Diameter x 8" Thick Precast Manhole Top Cone.....	1,056.22	115.71
33 05 84 00-0014	EA	3'-6" Diameter x 8" Thick Precast Manhole Top Cone.....	1,173.61	120.34
33 05 84 00-0015	EA	4' Diameter x 8" Thick Precast Manhole Top Cone.....	1,291.04	124.97
33 05 84 00-0016	EA	5' Diameter x 8" Thick Precast Manhole Top Cone.....	1,519.67	132.68
33 05 84 00-0017	EA	6' Diameter x 8" Thick Precast Manhole Top Cone.....	1,754.50	141.94
33 05 84 00-0018	EA	7' Diameter x 8" Thick Precast Manhole Top Cone.....	2,769.11	151.20
33 05 84 00-0019	EA	8' Diameter x 10" Thick Precast Manhole Top Cone.....	3,474.25	166.62

33 05 84 00-0020 Precast Concrete Manhole Reducer Slabs (33 05 84 00-0002)

33 05 84 00-0021	EA	5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,374.08	107.38
33 05 84 00-0022	EA	6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,765.50	114.78
33 05 84 00-0023	EA	7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	2,324.60	114.78
33 05 84 00-0024	EA	8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	3,667.94	114.78
33 05 84 00-0025	EA	10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	4,713.03	114.78
33 05 84 00-0026	EA	12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	6,817.54	114.78

33 05 84 00-0027 Pipe To Manhole Connector (33 05 84 00-0001)**33 05 84 00-0028 Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors** (33 05 84 00-0027)

33 05 84 00-0029	EA	4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	90.85	
33 05 84 00-0030	EA	6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	134.43	
33 05 84 00-0031	EA	8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	151.53	
33 05 84 00-0032	EA	10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	230.23	
33 05 84 00-0033	EA	12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	322.17	
33 05 84 00-0034	EA	15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	426.02	
33 05 84 00-0035	EA	18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	769.72	
33 05 84 00-0036	EA	21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,069.52	
33 05 84 00-0037	EA	24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,689.83	
33 05 84 00-0038	EA	27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,988.88	

33 05 84 00-0039 Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout

(33 05 84 00-0027)

Note: Fernco CMA.

33 05 84 00-0040	EA	4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	125.71	
33 05 84 00-0041	EA	6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	174.50	
33 05 84 00-0042	EA	8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	220.47	
33 05 84 00-0043	EA	10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	266.22	
33 05 84 00-0044	EA	12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	308.85	

33 05 84 00-0045 Brick And Grout Pipe To Manhole Connector (33 05 84 00-0027)

33 05 84 00-0046	EA	Seal Gap Between Pipe And Structure With Brick And Grout.....	278.54	

33 05 84 00-0047 Inverts For Manholes (33 05 84 00-0001)

33 05 84 00-0048	EA	Single Channel Concrete Invert For Manholes.....	428.61	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0049	EA	Double Channel Concrete Invert For Manholes.....	622.43	
33 05 84 00-0050	EA	Triple Channel Concrete Invert For Manholes.....	836.80	
33 05 84 00-0051	EA	Quad Channel Concrete Invert For Manholes.....	1,051.12	
33 05 84 00-0052	EA	Single Channel Brick Invert For Manholes.....	639.03	
33 05 84 00-0053	EA	Double Channel Brick Invert For Manholes.....	956.88	
33 05 84 00-0054	EA	Triple Channel Brick Invert For Manholes.....	1,280.22	
33 05 84 00-0055	EA	Quad Channel Brick Invert For Manholes.....	1,599.69	
33 05 84 00-0056		Protective Coating For New Manholes (33 05 84 00-0001)		
33 05 84 00-0057		Polyurethane Protective Coating For New Manholes (33 05 84 00-0056)		
33 05 84 00-0058	VLF	60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior.....	223.44	
		For 80 Mil Material, Add	33.52	
		For 100 Mil Material, Add	67.03	
		For 125 Mil Material, Add	105.95	
		For 150 Mil Material, Add	144.88	
		For 200 Mil Material, Add	214.79	
		For 2 To 5 Manholes, Deduct	-15.14	
		For 6 To 10 Manholes, Deduct	-24.69	
		For >10 Manholes, Deduct	-49.37	
33 05 84 00-0059	VLF	60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior.....	269.56	
		For 80 Mil Material, Add	39.79	
		For 100 Mil Material, Add	79.57	
		For 125 Mil Material, Add	125.67	
		For 150 Mil Material, Add	171.77	
		For 200 Mil Material, Add	254.27	
		For 2 To 5 Manholes, Deduct	-18.32	
		For 6 To 10 Manholes, Deduct	-29.91	
		For >10 Manholes, Deduct	-59.82	
33 05 84 00-0060	VLF	60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior.....	297.93	
		For 80 Mil Material, Add	44.69	
		For 100 Mil Material, Add	89.38	
		For 125 Mil Material, Add	141.27	
		For 150 Mil Material, Add	193.17	
		For 200 Mil Material, Add	286.39	
		For 2 To 5 Manholes, Deduct	-20.18	
		For 6 To 10 Manholes, Deduct	-32.92	
		For >10 Manholes, Deduct	-65.83	
33 05 84 00-0061	VLF	60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior.....	372.48	
		For 80 Mil Material, Add	55.88	
		For 100 Mil Material, Add	111.77	
		For 125 Mil Material, Add	176.67	
		For 150 Mil Material, Add	241.57	
		For 200 Mil Material, Add	358.16	
		For 2 To 5 Manholes, Deduct	-25.23	
		For 6 To 10 Manholes, Deduct	-41.15	
		For >10 Manholes, Deduct	-82.30	
33 05 84 00-0062	VLF	60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior.....	432.86	
		For 80 Mil Material, Add	66.00	
		For 100 Mil Material, Add	132.00	
		For 125 Mil Material, Add	208.81	
		For 150 Mil Material, Add	285.63	
		For 200 Mil Material, Add	424.11	
		For 2 To 5 Manholes, Deduct	-29.22	
		For 6 To 10 Manholes, Deduct	-47.62	
		For >10 Manholes, Deduct	-95.23	
33 05 84 00-0063	VLF	60 Mil Polyurethane Coating Of 7' Diameter Manhole Interior.....	503.88	
		For 80 Mil Material, Add	76.93	
		For 100 Mil Material, Add	153.86	
		For 125 Mil Material, Add	243.41	
		For 150 Mil Material, Add	332.96	
		For 200 Mil Material, Add	494.45	
		For 2 To 5 Manholes, Deduct	-34.00	
		For 6 To 10 Manholes, Deduct	-55.41	
		For >10 Manholes, Deduct	-110.82	
33 05 84 00-0064	VLF	60 Mil Polyurethane Coating Of 8' Diameter Manhole Interior.....	574.78	
		For 80 Mil Material, Add	87.82	
		For 100 Mil Material, Add	175.63	
		For 125 Mil Material, Add	277.87	
		For 150 Mil Material, Add	380.11	
		For 200 Mil Material, Add	564.49	
		For 2 To 5 Manholes, Deduct	-38.78	
		For 6 To 10 Manholes, Deduct	-63.19	
		For >10 Manholes, Deduct	-126.39	
33 05 84 00-0065		Polyvinyl Chloride (PVC) Liner (33 05 84 00-0056)		
		Note: For new manholes and shop applied.		
33 05 84 00-0066	VLF	3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	305.01	
33 05 84 00-0067	VLF	3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	373.88	
33 05 84 00-0068	VLF	4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	456.26	
33 05 84 00-0069	VLF	5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	572.97	
33 05 84 00-0070	VLF	6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	689.69	
33 05 84 00-0071	SF	Polyvinyl Chloride (PVC) Liner At Structures.....	45.76	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0072 Concrete Grade Extensions/Grade Rings (33 05 84 00-0001)		
33 05 84 00-0073 18" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0072)		
33 05 84 00-0074 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings.....	101.20	
33 05 84 00-0075 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	110.32	
33 05 84 00-0076 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	119.45	
33 05 84 00-0077 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	128.58	
33 05 84 00-0078 24" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0072)		
33 05 84 00-0079 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	113.58	
33 05 84 00-0080 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	123.96	
33 05 84 00-0081 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	134.33	
33 05 84 00-0082 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	144.71	
33 05 84 00-0083 30" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0072)		
33 05 84 00-0084 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	125.73	
33 05 84 00-0085 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	137.30	
33 05 84 00-0086 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	148.86	
33 05 84 00-0087 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	160.43	
33 05 84 00-0088 Expanded Polypropylene (EPP) Grade Ring (33 05 84 00-0001)		
33 05 84 00-0089 EA 34" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring.....	147.86	
33 05 84 00-0090 EA 34" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring.....	203.48	
33 05 84 00-0091 EA 34" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring.....	254.34	
33 05 84 00-0092 EA 36" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring.....	156.30	
33 05 84 00-0093 EA 36" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring.....	215.77	
33 05 84 00-0094 EA 36" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring.....	270.18	
33 05 84 00-0095 EA 40" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring.....	175.88	
33 05 84 00-0096 EA 40" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring.....	241.33	
33 05 84 00-0097 EA 40" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring.....	301.68	
33 05 84 00-0098 EA 46" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring.....	197.56	
33 05 84 00-0099 EA 46" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring.....	269.76	
33 05 84 00-0100 EA 46" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring.....	336.81	
33 05 84 00-0101 Expanded Polypropylene (EPP) Finish Ring (33 05 84 00-0001)		
33 05 84 00-0102 EA 34" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	117.05	
33 05 84 00-0103 EA 34" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	119.47	
33 05 84 00-0104 EA 34" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	126.57	
33 05 84 00-0105 EA 34" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	133.67	
33 05 84 00-0106 EA 34" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	140.77	
33 05 84 00-0107 EA 34" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	147.86	
33 05 84 00-0108 EA 34" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	160.57	
33 05 84 00-0109 EA 34" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring.....	130.33	
33 05 84 00-0110 EA 36" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	123.35	
33 05 84 00-0111 EA 36" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	125.94	
33 05 84 00-0112 EA 36" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	133.53	
33 05 84 00-0113 EA 36" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	141.12	
33 05 84 00-0114 EA 36" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	148.71	
33 05 84 00-0115 EA 36" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	156.30	
33 05 84 00-0116 EA 36" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	169.89	
33 05 84 00-0117 EA 36" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring.....	137.55	
33 05 84 00-0118 EA 40" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	137.22	
33 05 84 00-0119 EA 40" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	140.39	
33 05 84 00-0120 EA 40" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	149.86	
33 05 84 00-0121 EA 40" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	159.35	
33 05 84 00-0122 EA 40" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	167.62	
33 05 84 00-0123 EA 40" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	175.88	
33 05 84 00-0124 EA 40" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	189.84	
33 05 84 00-0125 EA 40" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring.....	154.58	
33 05 84 00-0126 EA 46" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	152.49	
33 05 84 00-0127 EA 46" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	156.29	
33 05 84 00-0128 EA 46" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	167.90	
33 05 84 00-0129 EA 46" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	179.50	
33 05 84 00-0130 EA 46" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	188.53	
33 05 84 00-0131 EA 46" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	197.56	
33 05 84 00-0132 EA 46" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	211.96	
33 05 84 00-0133 EA 46" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring.....	173.38	
33 05 84 00-0134 Bentonite Collar (33 05 84 00-0001)		
33 05 84 00-0135 Bentonite Collar At Manhole Connections (33 05 84 00-0134)		
33 05 84 00-0136 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection	155.64	
33 05 84 00-0137 EA >12" To 21", Bentonite Collar At Manhole Connection	246.46	



Utilities			33
Common Work Results for Utilities			33 05
Accessories for Utility Structures			33 05 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0138 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection	389.47	
33 05 84 00-0139 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection	909.16	
33 05 84 00-0140 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,426.34	
33 05 84 00-0141 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection	2,592.66	
33 05 84 00-0142 Waste Water Collection System Taps (33 05 84)		
Note: For tapping existing structures only. Includes gROUT.		
33 05 84 00-0143 Brick Manhole Taps (33 05 84 00-0142)		
33 05 84 00-0144 EA 4" Tap In 6" Brick Manhole	614.36	
33 05 84 00-0145 EA 6" Tap In 6" Brick Manhole	687.61	
33 05 84 00-0146 EA 8" Tap In 6" Brick Manhole	759.55	
33 05 84 00-0147 EA 10" Tap In 6" Brick Manhole	831.34	
33 05 84 00-0148 EA 12" Tap In 6" Brick Manhole	915.09	
33 05 84 00-0149 EA 15" Tap In 6" Brick Manhole	986.74	
33 05 84 00-0150 Precast Concrete Manhole Tap (33 05 84 00-0142)		
33 05 84 00-0151 EA 4" Tap In Existing Precast Concrete Manhole	914.02	
33 05 84 00-0152 EA 6" Tap In Existing Precast Concrete Manhole	1,023.89	
33 05 84 00-0153 EA 8" Tap In Existing Precast Concrete Manhole	1,145.00	
33 05 84 00-0154 EA 10" Tap In Existing Precast Concrete Manhole	1,252.69	
33 05 84 00-0155 EA 12" Tap In Existing Precast Concrete Manhole	1,360.17	
33 05 84 00-0156 EA 15" Tap In Existing Precast Concrete Manhole	1,470.26	
33 05 84 00-0157 EA 18" Tap In Existing Precast Concrete Manhole	1,692.42	
33 05 84 00-0158 EA 24" Tap In Existing Precast Concrete Manhole	2,175.67	
33 05 97 Identification and Signage for Utilities (33 05)		
33 05 97 16 Markers for Utility Identification (33 05 97)		
33 05 97 16-0001 Reflective Sheeting Delineators (33 05 97 16)		
33 05 97 16-0002 EA Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square.....	55.77	
33 05 97 16-0003 EA Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square	59.36	
33 05 97 16-0004 EA Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square.....	66.55	
33 05 97 16-0005 EA Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square	70.15	
33 05 97 16-0006 EA Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square.....	73.74	
33 05 97 16-0007 EA Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square	63.85	
33 05 97 16-0008 EA Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	56.67	
33 05 97 16-0009 EA Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	60.26	
33 05 97 16-0010 EA Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	60.26	
33 05 97 16-0011 EA Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	63.85	
33 05 97 16-0012 EA Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	67.45	
33 05 97 16-0013 EA Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	71.04	
33 05 97 16-0014 EA Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	103.40	
33 05 97 16-0015 EA Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	70.15	
33 05 97 16-0016 EA Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	107.89	
33 05 97 16-0017 EA Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	103.40	
33 05 97 16-0018 EA Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	106.99	
33 05 97 16-0019 EA Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	107.89	
33 05 97 16-0020 EA Relocate Delineator	71.64	
33 05 97 16-0021 Reference Markers (33 05 97 16)		
33 05 97 16-0022 EA Reference Marker, 4' Mounting Height	113.47	
33 05 97 16-0023 EA Reference Marker, 7' Mounting Height	141.74	
33 05 97 16-0024 EA Reference Marker, Band Or Bracket Mounted	133.49	
33 05 97 16-0025 EA Reference Marker, Furnish Panel Only.....	121.32	
33 05 97 16-0026 EA Relocate Reference Marker	71.64	
33 05 97 16-0027 Object Markers (33 05 97 16)		
33 05 97 16-0028 EA Object Marker, Type L-1	104.68	
33 05 97 16-0029 EA Object Marker, Type L-2	96.73	
33 05 97 16-0030 EA Object Marker, Type K-1.....	111.03	
33 05 97 16-0031 EA Object Marker, Type K-2.....	103.09	
33 05 97 16-0032 EA Object Marker, Type Q	71.30	
33 05 97 23 Utility Identification Warning Tape (33 05 97)		
33 05 97 23-0001 Non-Detectable Utility Warning Tape (33 05 97 23)		
Note: Labor installation is included with pipe and excavation.		
33 05 97 23-0002 CLF 3" Non-Detectable Utility Warning Tape	9.07	

33 Utilities**33 05 Common Work Results for Utilities****33 05 97 Identification and Signage for Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 05 97 23-0003 CLF 6" Non-Detectable Utility Warning Tape 12.65

33 05 97 23-0004 Detectable Utility Warning Tape (33 05 97 23)
 Note: Labor installation is included with pipe and excavation.

33 05 97 23-0005 CLF 2" Detectable Utility Warning Tape 9.17
 33 05 97 23-0006 CLF 3" Detectable Utility Warning Tape 12.42
 33 05 97 23-0007 CLF 6" Detectable Utility Warning Tape 19.68

33 10 Water Utilities (33)**33 11 Groundwater Sources** (33 10)**33 11 13 Potable Water Supply Wells** (33 11)

33 11 13 00-0001 Drill And Test Water Well (33 11 13)

33 11 13 00-0002 Drill Hole (33 11 13 00-0001)

Note: Excludes loading and hauling of spoils.

33 11 13 00-0003 Mobilization And Demobilization (33 11 13 00-0002)

33 11 13 00-0004 EA Up To 12" Diameter, Well Drilling Mobilization And Demobilization 1,113.31
 33 11 13 00-0005 EA >12" To 24" Diameter, Well Drilling Mobilization And Demobilization 1,377.68
 33 11 13 00-0006 EA >24" To 36" Diameter, Well Drilling Mobilization And Demobilization 2,066.53

33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. (33 11 13 00-0002)

Note: Excludes well casing, gravel or materials.

33 11 13 00-0008 LF Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. 26.70
For >100 To 250, Add 0.67
For >250 To 400, Add 1.34
For >400 To 600, Add 2.00
For >600 To 750, Add 2.67
For >750, Add 3.34
 33 11 13 00-0009 LF 8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. 31.69
For >100 To 250, Add 0.79
For >250 To 400, Add 1.58
For >400 To 600, Add 2.38
For >600 To 750, Add 3.17
For >750, Add 3.96
 33 11 13 00-0010 LF 10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. 42.37
For >100 To 250, Add 1.06
For >250 To 400, Add 2.12
For >400 To 600, Add 3.18
For >600 To 750, Add 4.24
For >750, Add 5.30
 33 11 13 00-0011 LF 12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. 66.30
For >100 To 250, Add 1.66
For >250 To 400, Add 3.32
For >400 To 600, Add 4.97
For >600 To 750, Add 6.63
For >750, Add 8.29
 33 11 13 00-0012 LF 14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. 95.40
For >100 To 250, Add 2.39
For >250 To 400, Add 4.77
For >400 To 600, Add 7.16
For >600 To 750, Add 9.54
For >750, Add 11.93
 33 11 13 00-0013 LF 16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. 124.69
For >100 To 250, Add 3.12
For >250 To 400, Add 6.23
For >400 To 600, Add 9.35
For >600 To 750, Add 12.47
For >750, Add 15.59
 33 11 13 00-0014 LF 18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. 148.10
For >100 To 250, Add 3.70
For >250 To 400, Add 7.41
For >400 To 600, Add 11.11
For >600 To 750, Add 14.81
For >750, Add 18.51
 33 11 13 00-0015 LF 20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. 172.21
For >100 To 250, Add 4.31
For >250 To 400, Add 8.61
For >400 To 600, Add 12.92
For >600 To 750, Add 17.22
For >750, Add 21.53
 33 11 13 00-0016 LF 22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B. 202.35
For >100 To 250, Add 5.06
For >250 To 400, Add 10.12
For >400 To 600, Add 15.18
For >600 To 750, Add 20.24
For >750, Add 25.29



		Utilities	33	
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0017	LF	24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	238.51	
		For >100 To 250, Add	5.96	
		For >250 To 400, Add	11.93	
		For >400 To 600, Add	17.89	
		For >600 To 750, Add	23.85	
		For >750, Add	29.81	
33 11 13 00-0018	LF	26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	257.80	
		For >100 To 250, Add	6.45	
		For >250 To 400, Add	12.89	
		For >400 To 600, Add	19.34	
		For >600 To 750, Add	25.78	
		For >750, Add	32.23	
33 11 13 00-0019	LF	28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	283.64	
		For >100 To 250, Add	7.09	
		For >250 To 400, Add	14.18	
		For >400 To 600, Add	21.27	
		For >600 To 750, Add	28.36	
		For >750, Add	35.46	
33 11 13 00-0020	LF	30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	310.67	
		For >100 To 250, Add	7.77	
		For >250 To 400, Add	15.53	
		For >400 To 600, Add	23.30	
		For >600 To 750, Add	31.07	
		For >750, Add	38.83	
33 11 13 00-0021	LF	36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	386.44	
		For >100 To 250, Add	9.66	
		For >250 To 400, Add	19.32	
		For >400 To 600, Add	28.98	
		For >600 To 750, Add	38.64	
		For >750, Add	48.31	
33 11 13 00-0022 Drill Hole In Sedimentary Rock (33 11 13 00-0002)				
33 11 13 00-0023	LF	6" Water Well Hole Drilled In Sedimentary Rock	54.42	
		For >100 To 250, Add	1.36	
		For >250 To 400, Add	2.72	
		For >400 To 600, Add	4.08	
		For >600 To 750, Add	5.44	
		For >750, Add	6.80	
33 11 13 00-0024	LF	8" Water Well Hole Drilled In Sedimentary Rock	63.38	
		For >100 To 250, Add	1.58	
		For >250 To 400, Add	3.17	
		For >400 To 600, Add	4.75	
		For >600 To 750, Add	6.34	
		For >750, Add	7.92	
33 11 13 00-0025	LF	10" Water Well Hole Drilled In Sedimentary Rock	101.47	
		For >100 To 250, Add	2.54	
		For >250 To 400, Add	5.07	
		For >400 To 600, Add	7.61	
		For >600 To 750, Add	10.15	
		For >750, Add	12.68	
33 11 13 00-0026	LF	12" Water Well Hole Drilled In Sedimentary Rock	132.67	
		For >100 To 250, Add	3.32	
		For >250 To 400, Add	6.63	
		For >400 To 600, Add	9.95	
		For >600 To 750, Add	13.27	
		For >750, Add	16.58	
33 11 13 00-0027	LF	14" Water Well Hole Drilled In Sedimentary Rock	190.94	
		For >100 To 250, Add	4.77	
		For >250 To 400, Add	9.55	
		For >400 To 600, Add	14.32	
		For >600 To 750, Add	19.09	
		For >750, Add	23.87	
33 11 13 00-0028	LF	16" Water Well Hole Drilled In Sedimentary Rock	249.22	
		For >100 To 250, Add	6.23	
		For >250 To 400, Add	12.46	
		For >400 To 600, Add	18.69	
		For >600 To 750, Add	24.92	
		For >750, Add	31.15	
33 11 13 00-0029	LF	18" Water Well Hole Drilled In Sedimentary Rock	296.34	
		For >100 To 250, Add	7.41	
		For >250 To 400, Add	14.82	
		For >400 To 600, Add	22.23	
		For >600 To 750, Add	29.63	
		For >750, Add	37.04	
33 11 13 00-0030	LF	20" Water Well Hole Drilled In Sedimentary Rock	343.87	
		For >100 To 250, Add	8.60	
		For >250 To 400, Add	17.19	
		For >400 To 600, Add	25.79	
		For >600 To 750, Add	34.39	
		For >750, Add	42.98	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0031	LF		22" Water Well Hole Drilled In Sedimentary Rock	405.04	
			For>100 To 250, Add	10.13	
			For>250 To 400, Add	20.25	
			For>400 To 600, Add	30.38	
			For>600 To 750, Add	40.50	
			For>750, Add	50.63	
33 11 13 00-0032	LF		24" Water Well Hole Drilled In Sedimentary Rock	467.86	
			For>100 To 250, Add	11.70	
			For>250 To 400, Add	23.39	
			For>400 To 600, Add	35.09	
			For>600 To 750, Add	46.79	
			For>750, Add	58.48	
33 11 13 00-0033	LF		26" Water Well Hole Drilled In Sedimentary Rock	515.60	
			For>100 To 250, Add	12.89	
			For>250 To 400, Add	25.78	
			For>400 To 600, Add	38.67	
			For>600 To 750, Add	51.56	
			For>750, Add	64.45	
33 11 13 00-0034	LF		28" Water Well Hole Drilled In Sedimentary Rock	567.26	
			For>100 To 250, Add	14.18	
			For>250 To 400, Add	28.36	
			For>400 To 600, Add	42.54	
			For>600 To 750, Add	56.73	
			For>750, Add	70.91	
33 11 13 00-0035	LF		30" Water Well Hole Drilled In Sedimentary Rock	621.34	
			For>100 To 250, Add	15.53	
			For>250 To 400, Add	31.07	
			For>400 To 600, Add	46.60	
			For>600 To 750, Add	62.13	
			For>750, Add	77.67	
33 11 13 00-0036	LF		36" Water Well Hole Drilled In Sedimentary Rock	772.88	
			For>100 To 250, Add	19.32	
			For>250 To 400, Add	38.64	
			For>400 To 600, Add	57.97	
			For>600 To 750, Add	77.29	
			For>750, Add	96.61	
33 11 13 00-0037 Drill Hole In Crystalline Rock (33 11 13 00-0002)					
33 11 13 00-0038	LF		6" Water Well Hole Drilled In Crystalline Rock	111.94	
			For>100 To 250, Add	2.80	
			For>250 To 400, Add	5.60	
			For>400 To 600, Add	8.40	
			For>600 To 750, Add	11.19	
			For>750, Add	13.99	
33 11 13 00-0039	LF		8" Water Well Hole Drilled In Crystalline Rock	129.16	
			For>100 To 250, Add	3.23	
			For>250 To 400, Add	6.46	
			For>400 To 600, Add	9.69	
			For>600 To 750, Add	12.92	
			For>750, Add	16.15	
33 11 13 00-0040	LF		10" Water Well Hole Drilled In Crystalline Rock	148.10	
			For>100 To 250, Add	3.70	
			For>250 To 400, Add	7.41	
			For>400 To 600, Add	11.11	
			For>600 To 750, Add	14.81	
			For>750, Add	18.51	
33 11 13 00-0041	LF		12" Water Well Hole Drilled In Crystalline Rock	187.71	
			For>100 To 250, Add	4.69	
			For>250 To 400, Add	9.39	
			For>400 To 600, Add	14.08	
			For>600 To 750, Add	18.77	
			For>750, Add	23.46	
33 11 13 00-0042	LF		14" Water Well Hole Drilled In Crystalline Rock	242.81	
			For>100 To 250, Add	6.07	
			For>250 To 400, Add	12.14	
			For>400 To 600, Add	18.21	
			For>600 To 750, Add	24.28	
			For>750, Add	30.35	
33 11 13 00-0043	LF		16" Water Well Hole Drilled In Crystalline Rock	353.04	
			For>100 To 250, Add	8.83	
			For>250 To 400, Add	17.65	
			For>400 To 600, Add	26.48	
			For>600 To 750, Add	35.30	
			For>750, Add	44.13	
33 11 13 00-0044	LF		18" Water Well Hole Drilled In Crystalline Rock	420.20	
			For>100 To 250, Add	10.51	
			For>250 To 400, Add	21.01	
			For>400 To 600, Add	31.52	
			For>600 To 750, Add	42.02	
			For>750, Add	52.53	



		Utilities	33	
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0045	LF	20" Water Well Hole Drilled In Crystalline Rock.....	487.36	
		For >100 To 250, Add	12.18	
		For >250 To 400, Add	24.37	
		For >400 To 600, Add	36.55	
		For >600 To 750, Add	48.74	
		For >750, Add	60.92	
33 11 13 00-0046	LF	22" Water Well Hole Drilled In Crystalline Rock.....	573.46	
		For >100 To 250, Add	14.34	
		For >250 To 400, Add	28.67	
		For >400 To 600, Add	43.01	
		For >600 To 750, Add	57.35	
		For >750, Add	71.68	
33 11 13 00-0047	LF	24" Water Well Hole Drilled In Crystalline Rock.....	663.01	
		For >100 To 250, Add	16.58	
		For >250 To 400, Add	33.15	
		For >400 To 600, Add	49.73	
		For >600 To 750, Add	66.30	
		For >750, Add	82.88	
33 11 13 00-0048		Furnish And Install Casing (33 11 13 00-0001)		
		Note: Excludes drilling of hole.		
33 11 13 00-0049		Steel Well Casing (33 11 13 00-0048)		
33 11 13 00-0050	LF	6" Diameter, Steel Well Casing, Flush	43.58	
		For >100 To 250, Deduct	-1.35	
		For >250 To 400, Deduct	-2.44	
		For >400 To 600, Deduct	-3.66	
		For >600 To 750, Deduct	-4.88	
		For >750, Deduct	-6.44	
33 11 13 00-0051	LF	8" Diameter, Steel Well Casing, Flush	54.20	
		For >100 To 250, Deduct	-1.68	
		For >250 To 400, Deduct	-3.04	
		For >400 To 600, Deduct	-4.56	
		For >600 To 750, Deduct	-6.07	
		For >750, Deduct	-8.02	
33 11 13 00-0052	LF	10" Diameter, Steel Well Casing, Flush	79.52	
		For >100 To 250, Deduct	-2.38	
		For >250 To 400, Deduct	-4.37	
		For >400 To 600, Deduct	-6.55	
		For >600 To 750, Deduct	-8.74	
		For >750, Deduct	-11.43	
33 11 13 00-0053	LF	12" Diameter, Steel Well Casing, Flush	131.94	
		For >100 To 250, Deduct	-3.77	
		For >250 To 400, Deduct	-7.07	
		For >400 To 600, Deduct	-10.60	
		For >600 To 750, Deduct	-14.14	
		For >750, Deduct	-18.28	
33 11 13 00-0054	LF	14" Diameter, Steel Well Casing, Flush	148.98	
		For >100 To 250, Deduct	-4.38	
		For >250 To 400, Deduct	-8.10	
		For >400 To 600, Deduct	-12.15	
		For >600 To 750, Deduct	-16.21	
		For >750, Deduct	-21.11	
33 11 13 00-0055	LF	16" Diameter, Steel Well Casing, Flush	175.25	
		For >100 To 250, Deduct	-5.19	
		For >250 To 400, Deduct	-9.57	
		For >400 To 600, Deduct	-14.36	
		For >600 To 750, Deduct	-19.15	
		For >750, Deduct	-24.99	
33 11 13 00-0056	LF	18" Diameter, Steel Well Casing, Flush	200.72	
		For >100 To 250, Deduct	-6.04	
		For >250 To 400, Deduct	-11.06	
		For >400 To 600, Deduct	-16.58	
		For >600 To 750, Deduct	-22.11	
		For >750, Deduct	-28.96	
33 11 13 00-0057	LF	20" Diameter, Steel Well Casing, Flush	229.58	
		For >100 To 250, Deduct	-6.99	
		For >250 To 400, Deduct	-12.73	
		For >400 To 600, Deduct	-19.10	
		For >600 To 750, Deduct	-25.47	
		For >750, Deduct	-33.47	
33 11 13 00-0058	LF	24" Diameter, Steel Well Casing, Flush	267.88	
		For >100 To 250, Deduct	-8.11	
		For >250 To 400, Deduct	-14.61	
		For >400 To 600, Deduct	-22.21	
		For >600 To 750, Deduct	-29.61	
		For >750, Deduct	-38.85	
33 11 13 00-0059	LB	Steel Well Casing, Furnish And Install	1.49	
		For >100 To 250, Deduct	-0.06	
		For >250 To 400, Deduct	-0.09	
		For >400 To 600, Deduct	-0.14	
		For >600 To 750, Deduct	-0.19	
		For >750, Deduct	-0.25	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded (33 11 13 00-0048)					
33 11 13 00-0061	LF	6" Diameter, Stainless Steel Well Casing, Flush	70.42		
		For>100 To 250, Deduct	-2.02		
		For>250 To 400, Deduct	-3.78		
		For>400 To 600, Deduct	-5.67		
		For>600 To 750, Deduct	-7.56		
		For>750, Deduct	-9.80		
33 11 13 00-0062	LF	8" Diameter, Stainless Steel Well Casing, Flush	104.89		
		For>100 To 250, Deduct	-2.95		
		For>250 To 400, Deduct	-5.57		
		For>400 To 600, Deduct	-8.36		
		For>600 To 750, Deduct	-11.14		
		For>750, Deduct	-14.35		
33 11 13 00-0063	LF	10" Diameter, Stainless Steel Well Casing, Flush	146.04		
		For>100 To 250, Deduct	-4.07		
		For>250 To 400, Deduct	-7.72		
		For>400 To 600, Deduct	-11.58		
		For>600 To 750, Deduct	-15.44		
		For>750, Deduct	-19.84		
33 11 13 00-0064	LF	12" Diameter, Stainless Steel Well Casing, Flush	169.97		
		For>100 To 250, Deduct	-4.75		
		For>250 To 400, Deduct	-9.00		
		For>400 To 600, Deduct	-13.49		
		For>600 To 750, Deduct	-17.99		
		For>750, Deduct	-23.13		
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring (33 11 13 00-0048)					
33 11 13 00-0066	LF	10" Diameter, Stainless Steel Well Casing, Welded	158.58		
		For>100 To 250, Deduct	-4.70		
		For>250 To 400, Deduct	-8.66		
		For>400 To 600, Deduct	-12.99		
		For>600 To 750, Deduct	-17.32		
		For>750, Deduct	-22.60		
33 11 13 00-0067	LF	12" Diameter, Stainless Steel Well Casing, Welded	183.57		
		For>100 To 250, Deduct	-5.43		
		For>250 To 400, Deduct	-10.02		
		For>400 To 600, Deduct	-15.02		
		For>600 To 750, Deduct	-20.03		
		For>750, Deduct	-26.12		
33 11 13 00-0068	LF	14" Diameter, Stainless Steel Well Casing, Welded	219.76		
		For>100 To 250, Deduct	-6.44		
		For>250 To 400, Deduct	-11.93		
		For>400 To 600, Deduct	-17.89		
		For>600 To 750, Deduct	-23.86		
		For>750, Deduct	-31.05		
33 11 13 00-0069	LF	16" Diameter, Stainless Steel Well Casing, Welded	251.56		
		For>100 To 250, Deduct	-7.36		
		For>250 To 400, Deduct	-13.65		
		For>400 To 600, Deduct	-20.47		
		For>600 To 750, Deduct	-27.30		
		For>750, Deduct	-35.52		
33 11 13 00-0070	LF	18" Diameter, Stainless Steel Well Casing, Welded	278.38		
		For>100 To 250, Deduct	-8.19		
		For>250 To 400, Deduct	-15.15		
		For>400 To 600, Deduct	-22.72		
		For>600 To 750, Deduct	-30.30		
		For>750, Deduct	-39.47		
33 11 13 00-0071	LF	20" Diameter, Stainless Steel Well Casing, Welded	362.85		
		For>100 To 250, Deduct	-10.54		
		For>250 To 400, Deduct	-19.61		
		For>400 To 600, Deduct	-29.41		
		For>600 To 750, Deduct	-39.21		
		For>750, Deduct	-50.92		
33 11 13 00-0072	LF	24" Diameter, Stainless Steel Well Casing, Welded	476.75		
		For>100 To 250, Deduct	-13.75		
		For>250 To 400, Deduct	-25.67		
		For>400 To 600, Deduct	-38.50		
		For>600 To 750, Deduct	-51.33		
		For>750, Deduct	-66.55		
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 (33 11 13 00-0048)					
33 11 13 00-0074	LF	6" Polyvinyl Chloride (PVC) Well Casing	48.39		
		For>100 To 250, Deduct	-1.42		
		For>250 To 400, Deduct	-2.63		
		For>400 To 600, Deduct	-3.94		
		For>600 To 750, Deduct	-5.26		
		For>750, Deduct	-6.84		
33 11 13 00-0075	LF	8" Polyvinyl Chloride (PVC) Well Casing	76.82		
		For>100 To 250, Deduct	-2.25		
		For>250 To 400, Deduct	-4.17		
		For>400 To 600, Deduct	-6.25		
		For>600 To 750, Deduct	-8.34		
		For>750, Deduct	-10.84		



		Utilities	33	33
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0076 LF 10" Polyvinyl Chloride (PVC) Well Casing 116.11 For >100 To 250, Deduct -3.40 For >250 To 400, Deduct -6.30 For >400 To 600, Deduct -9.45 For >600 To 750, Deduct -12.60 For >750, Deduct -16.40		
33 11 13 00-0077 LF 12" Polyvinyl Chloride (PVC) Well Casing 137.09 For >100 To 250, Deduct -4.03 For >250 To 400, Deduct -7.46 For >400 To 600, Deduct -11.18 For >600 To 750, Deduct -14.91 For >750, Deduct -19.42		
33 11 13 00-0078 Furnish And Install Well Screen Assembly (33 11 13 00-0001)		
33 11 13 00-0079 Stainless Steel Well Screen (33 11 13 00-0078)		
33 11 13 00-0080 LF 2" Stainless Steel Well Screen 24.30 2.09 For >100 To 250, Deduct -0.88 For >250 To 400, Deduct -1.48 For >400 To 600, Deduct -2.22 For >600 To 750, Deduct -2.97 For >750, Deduct -4.06		
33 11 13 00-0081 LF 3" Stainless Steel Well Screen 36.84 2.09 For >100 To 250, Deduct -1.21 For >250 To 400, Deduct -2.13 For >400 To 600, Deduct -3.20 For >600 To 750, Deduct -4.26 For >750, Deduct -5.70		
33 11 13 00-0082 LF 4" Stainless Steel Well Screen 46.31 3.14 For >100 To 250, Deduct -1.52 For >250 To 400, Deduct -2.68 For >400 To 600, Deduct -4.02 For >600 To 750, Deduct -5.36 For >750, Deduct -7.18		
33 11 13 00-0083 LF 5" Stainless Steel Well Screen 58.21 3.14 For >100 To 250, Deduct -1.89 For >250 To 400, Deduct -3.35 For >400 To 600, Deduct -5.02 For >600 To 750, Deduct -6.69 For >750, Deduct -8.93		
33 11 13 00-0084 LF 6" Stainless Steel Well Screen 70.55 4.18 For >100 To 250, Deduct -2.34 For >250 To 400, Deduct -4.11 For >400 To 600, Deduct -6.16 For >600 To 750, Deduct -8.22 For >750, Deduct -11.03		
33 11 13 00-0085 LF 8" Stainless Steel Well Screen 91.89 5.23 For >100 To 250, Deduct -3.04 For >250 To 400, Deduct -5.34 For >400 To 600, Deduct -8.01 For >600 To 750, Deduct -10.68 For >750, Deduct -14.31		
33 11 13 00-0086 LF 10" Stainless Steel Well Screen 117.36 8.37 For >100 To 250, Deduct -3.94 For >250 To 400, Deduct -6.87 For >400 To 600, Deduct -10.31 For >600 To 750, Deduct -13.74 For >750, Deduct -18.48		
33 11 13 00-0087 LF 12" Stainless Steel Well Screen 137.62 10.45 For >100 To 250, Deduct -4.61 For >250 To 400, Deduct -8.05 For >400 To 600, Deduct -12.08 For >600 To 750, Deduct -16.10 For >750, Deduct -21.65		
33 11 13 00-0088 LF 14" Stainless Steel Well Screen 151.86 11.50 For >100 To 250, Deduct -5.14 For >250 To 400, Deduct -8.94 For >400 To 600, Deduct -13.41 For >600 To 750, Deduct -17.88 For >750, Deduct -24.10		
33 11 13 00-0089 LF 16" Stainless Steel Well Screen 165.09 13.59 For >100 To 250, Deduct -5.64 For >250 To 400, Deduct -9.77 For >400 To 600, Deduct -14.65 For >600 To 750, Deduct -19.54 For >750, Deduct -26.39		
33 11 13 00-0090 LF 18" Stainless Steel Well Screen 198.77 15.68 For >100 To 250, Deduct -6.84 For >250 To 400, Deduct -11.81 For >400 To 600, Deduct -17.71 For >600 To 750, Deduct -23.61 For >750, Deduct -31.94		

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0091	LF	20" Stainless Steel Well Screen.....	250.58	19.86
		For >100 To 250, Deduct	-8.61	
		For >250 To 400, Deduct	-14.87	
		For >400 To 600, Deduct	-22.31	
		For >600 To 750, Deduct	-29.75	
		For >750, Deduct	-40.24	
33 11 13 00-0092	LF	24" Stainless Steel Well Screen.....	325.47	26.14
		For >100 To 250, Deduct	-11.21	
		For >250 To 400, Deduct	-19.35	
		For >400 To 600, Deduct	-29.02	
		For >600 To 750, Deduct	-38.70	
		For >750, Deduct	-52.37	
33 11 13 00-0093	LF	26" Stainless Steel Well Screen.....	374.53	30.32
		For >100 To 250, Deduct	-12.85	
		For >250 To 400, Deduct	-22.21	
		For >400 To 600, Deduct	-33.32	
		For >600 To 750, Deduct	-44.42	
		For >750, Deduct	-60.06	
33 11 13 00-0094		Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 (33 11 13 00-0078)		
33 11 13 00-0095	LF	1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	15.08	
		For >100 To 250, Deduct	-0.56	
		For >250 To 400, Deduct	-0.93	
		For >400 To 600, Deduct	-1.40	
		For >600 To 750, Deduct	-1.86	
		For >750, Deduct	-2.56	
		For Schedule 80, Add	3.18	
33 11 13 00-0096	LF	1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	17.16	
		For >100 To 250, Deduct	-0.62	
		For >250 To 400, Deduct	-1.05	
		For >400 To 600, Deduct	-1.57	
		For >600 To 750, Deduct	-2.10	
		For >750, Deduct	-2.87	
		For Schedule 80, Add	3.82	
33 11 13 00-0097	LF	2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	24.74	
		For >100 To 250, Deduct	-0.96	
		For >250 To 400, Deduct	-1.58	
		For >400 To 600, Deduct	-2.37	
		For >600 To 750, Deduct	-3.15	
		For >750, Deduct	-4.38	
		For Schedule 80, Add	4.46	
33 11 13 00-0098	LF	3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	35.38	
		For >100 To 250, Deduct	-1.25	
		For >250 To 400, Deduct	-2.14	
		For >400 To 600, Deduct	-3.20	
		For >600 To 750, Deduct	-4.27	
		For >750, Deduct	-5.82	
		For Schedule 80, Add	8.28	
33 11 13 00-0099	LF	4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	44.51	
		For >100 To 250, Deduct	-1.58	
		For >250 To 400, Deduct	-2.69	
		For >400 To 600, Deduct	-4.03	
		For >600 To 750, Deduct	-5.38	
		For >750, Deduct	-7.33	
		For Schedule 80, Add	10.38	
33 11 13 00-0100	LF	5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	55.54	
		For >100 To 250, Deduct	-1.94	
		For >250 To 400, Deduct	-3.33	
		For >400 To 600, Deduct	-4.99	
		For >600 To 750, Deduct	-6.66	
		For >750, Deduct	-9.04	
		For Schedule 80, Add	13.38	
33 11 13 00-0101	LF	6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	62.11	
		For >100 To 250, Deduct	-2.29	
		For >250 To 400, Deduct	-3.84	
		For >400 To 600, Deduct	-5.76	
		For >600 To 750, Deduct	-7.68	
		For >750, Deduct	-10.56	
		For Schedule 80, Add	13.06	
33 11 13 00-0102	LF	8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	88.64	
		For >100 To 250, Deduct	-3.16	
		For >250 To 400, Deduct	-5.37	
		For >400 To 600, Deduct	-8.06	
		For >600 To 750, Deduct	-10.75	
		For >750, Deduct	-14.66	
		For Schedule 80, Add	20.39	
33 11 13 00-0103		Furnish And Install Gravel Pack Material (33 11 13 00-0001)		
		Note: Quantity is based on 3" space between wall and the casing or well screen.		
33 11 13 00-0104		Artificial Gravel Pack (33 11 13 00-0103)		
		Note: Excludes casing.		



		Utilities	33	
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0105	LF	Artificial Gravel Pack, 6" Casing, 2" Screen.....	21.12	
		For >100 To 250, Deduct	-0.83	
		For >250 To 400, Deduct	-1.36	
		For >400 To 600, Deduct	-2.04	
		For >600 To 750, Deduct	-2.71	
		For >750, Deduct	-3.78	
33 11 13 00-0106	LF	Artificial Gravel Pack, 8" Casing, 2" Screen.....	31.27	
		For >100 To 250, Deduct	-1.25	
		For >250 To 400, Deduct	-2.03	
		For >400 To 600, Deduct	-3.05	
		For >600 To 750, Deduct	-4.07	
		For >750, Deduct	-5.70	
33 11 13 00-0107	LF	Artificial Gravel Pack, 10" Casing, 2" Screen.....	43.72	
		For >100 To 250, Deduct	-1.80	
		For >250 To 400, Deduct	-2.89	
		For >400 To 600, Deduct	-4.33	
		For >600 To 750, Deduct	-5.78	
		For >750, Deduct	-8.13	
33 11 13 00-0108	LF	Artificial Gravel Pack, 12" Casing, 2" Screen.....	55.95	
		For >100 To 250, Deduct	-2.27	
		For >250 To 400, Deduct	-3.67	
		For >400 To 600, Deduct	-5.50	
		For >600 To 750, Deduct	-7.34	
		For >750, Deduct	-10.31	
33 11 13 00-0109	LF	Artificial Gravel Pack, 14" Casing, 2" Screen.....	68.88	
		For >100 To 250, Deduct	-2.76	
		For >250 To 400, Deduct	-4.49	
		For >400 To 600, Deduct	-6.73	
		For >600 To 750, Deduct	-8.97	
		For >750, Deduct	-12.57	
33 11 13 00-0110	LF	Artificial Gravel Pack, 16" Casing, 2" Screen.....	88.94	
		For >100 To 250, Deduct	-3.51	
		For >250 To 400, Deduct	-5.73	
		For >400 To 600, Deduct	-8.60	
		For >600 To 750, Deduct	-11.46	
		For >750, Deduct	-16.00	
33 11 13 00-0111	LF	Artificial Gravel Pack, 18" Casing, 2" Screen.....	101.91	
		For >100 To 250, Deduct	-4.00	
		For >250 To 400, Deduct	-6.55	
		For >400 To 600, Deduct	-9.82	
		For >600 To 750, Deduct	-13.10	
		For >750, Deduct	-18.26	
33 11 13 00-0112	LF	Artificial Gravel Pack, 20" Casing, 2" Screen.....	121.22	
		For >100 To 250, Deduct	-4.80	
		For >250 To 400, Deduct	-7.83	
		For >400 To 600, Deduct	-11.75	
		For >600 To 750, Deduct	-15.67	
		For >750, Deduct	-21.89	
33 11 13 00-0113	LF	Artificial Gravel Pack, 24" Casing, 2" Screen.....	137.24	
		For >100 To 250, Deduct	-5.47	
		For >250 To 400, Deduct	-8.90	
		For >400 To 600, Deduct	-13.35	
		For >600 To 750, Deduct	-17.80	
		For >750, Deduct	-24.89	
33 11 13 00-0114	LF	Artificial Gravel Pack, 26" Casing, 2" Screen.....	147.62	
		For >100 To 250, Deduct	-5.82	
		For >250 To 400, Deduct	-9.51	
		For >400 To 600, Deduct	-14.26	
		For >600 To 750, Deduct	-19.02	
		For >750, Deduct	-26.53	
33 11 13 00-0115	LF	Artificial Gravel Pack, 30" Casing, 2" Screen.....	176.32	
		For >100 To 250, Deduct	-7.02	
		For >250 To 400, Deduct	-11.43	
		For >400 To 600, Deduct	-17.15	
		For >600 To 750, Deduct	-22.86	
		For >750, Deduct	-31.98	
33 11 13 00-0116	LF	Artificial Gravel Pack, 36" Casing, 2" Screen.....	204.58	
		For >100 To 250, Deduct	-8.30	
		For >250 To 400, Deduct	-13.42	
		For >400 To 600, Deduct	-20.13	
		For >600 To 750, Deduct	-26.84	
		For >750, Deduct	-37.69	
33 11 13 00-0117		Develop Well (33 11 13 00-0001) Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118	HR	Develop Well.....	474.97	
33 11 13 00-0119		Pump Test (33 11 13 00-0001) Note: To determine water level and GPM flow rate.		
33 11 13 00-0120	HR	Pump Test Well	420.39	
33 11 13 00-0121		Test Well (33 11 13 00-0001)		

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0122	VLF	2-1/2" Diameter Test Well.....	110.67	
33 11 13 00-0123		Surface Seal, Concrete Filled (33 11 13)		
33 11 13 00-0124	SF	Surface Seal Well, Concrete Filled	34.30	
33 11 13 00-0125		Other Water Well (33 11 13)		
33 11 13 00-0126	SF	Patch Hole In Well Casing.....	111.31	
33 11 13 00-0127	SF	1/2" Pressure Grout Well	2.48	
33 11 13 00-0128	SF	1" Pressure Grout Well.....	3.93	
33 11 13 00-0129	CF	Sediment Removal In Well Casing For Existing Well.....	6.54	
33 11 13 00-0130		Sterilization Of Well (33 11 13)		
33 11 13 00-0131	EA	Well Sterilization, Chlorine.....	1,860.09	
33 11 13 00-0132		Submersible Well Pumps (33 11 13)		
		Note: Includes pump end, motor and control box.		
33 11 13 00-0133		4" Submersible Well Pumps (33 11 13 00-0132)		
33 11 13 00-0134		Powder Coated Case And Cast Iron Ends (33 11 13 00-0133)		
33 11 13 00-0135	EA	1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,468.42	520.48
33 11 13 00-0136	EA	3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,672.38	576.88
33 11 13 00-0137	EA	1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,856.25	640.98
33 11 13 00-0138		Stainless Steel Case And Ends (33 11 13 00-0133)		
33 11 13 00-0139	EA	1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,641.30	512.78
33 11 13 00-0140	EA	3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,870.15	576.88
33 11 13 00-0141	EA	1 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,095.44	640.98
33 11 13 00-0142	EA	1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	2,394.15	705.08
33 11 13 00-0143	EA	2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,703.50	769.18
33 11 13 00-0144	EA	3 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,315.13	897.38
33 11 13 00-0145	EA	5 HP Submersible Well Pump, 4" Diameter Stainless Steel	4,148.19	1,025.57
33 11 13 00-0146		6" Submersible Well Pumps (33 11 13 00-0132)		
33 11 13 00-0147	EA	5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,093.79	1,281.96
33 11 13 00-0148	EA	7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,706.59	1,410.16
33 11 13 00-0149	EA	10 HP Submersible Well Pump, 6" Diameter Stainless Steel	5,341.90	1,538.35
33 11 13 00-0150	EA	15 HP Submersible Well Pump, 6" Diameter Stainless Steel	6,447.29	1,794.75
33 14 Water Utility Transmission and Distribution (33 10)				
33 14 11 Water Utility Transmission Piping (33 14)		See CSI section 33 14 13 00-0000 for water utility transmission piping.		
33 14 13 Public Water Utility Distribution Piping (33 14)		Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 14 13 13 Ductile Iron Public Water Utility Distribution Piping (33 14 13)				
33 14 13 13-0001 Ductile Iron Piping (33 14 13 13)				
33 14 13 13-0002 Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)		Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0542 for bolts and gaskets.		
33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe (33 14 13 13-0002)		Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-0004	LF	3", Class 51, Mechanical Joint Ductile Iron Pipe.....	97.22	14.44
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	52.76	
		For Cement Mortar Lining (CML), Add	7.54	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	40.70	
		For Fusion Bonded Epoxy Lining (206N), Add	13.57	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.65	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-4.86	
		For Class 52, Add	22.79	
		For Class 53, Add	41.21	
		For Class 54, Add	58.86	
		For Class 55, Add	67.58	
		For Class 56, Add	76.14	



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0005	LF	4", Class 50, Mechanical Joint Ductile Iron Pipe.....	106.09	15.37
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	57.97	
		For Cement Mortar Lining (CML), Add	8.28	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	44.72	
		For Fusion Bonded Epoxy Lining (206N), Add	14.91	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.21	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-5.30	
		For Class 51, Add	11.58	
		For Class 52, Add	25.02	
		For Class 53, Add	45.25	
		For Class 54, Add	64.63	
		For Class 55, Add	74.20	
		For Class 56, Add	83.60	
33 14 13 13-0006	LF	6", Class 50, Mechanical Joint Ductile Iron Pipe.....	114.28	16.13
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	62.92	
		For Cement Mortar Lining (CML), Add	8.99	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	48.54	
		For Fusion Bonded Epoxy Lining (206N), Add	16.18	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.74	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-5.71	
		For Class 51, Add	12.56	
		For Class 52, Add	27.14	
		For Class 53, Add	49.09	
		For Class 54, Add	70.11	
		For Class 55, Add	80.49	
		For Class 56, Add	90.69	
33 14 13 13-0007	LF	8", Class 50, Mechanical Joint Ductile Iron Pipe.....	140.37	16.77
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	80.49	
		For Cement Mortar Lining (CML), Add	11.50	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	62.09	
		For Fusion Bonded Epoxy Lining (206N), Add	20.70	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.62	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-7.02	
		For Class 51, Add	15.99	
		For Class 52, Add	34.57	
		For Class 53, Add	62.57	
		For Class 54, Add	89.39	
		For Class 55, Add	102.60	
		For Class 56, Add	115.56	
33 14 13 13-0008	LF	10", Class 50, Mechanical Joint Ductile Iron Pipe.....	185.61	23.78
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	89.75	
		For Cement Mortar Lining (CML), Add	14.96	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	74.79	
		For Fusion Bonded Epoxy Lining (206N), Add	26.92	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.22	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-9.28	
		For Class 51, Add	20.84	
		For Class 52, Add	45.04	
		For Class 53, Add	81.51	
		For Class 54, Add	116.44	
		For Class 55, Add	133.66	
		For Class 56, Add	150.56	
33 14 13 13-0009	LF	12", Class 50, Mechanical Joint Ductile Iron Pipe.....	231.08	26.42
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	95.53	
		For Cement Mortar Lining (CML), Add	19.11	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	76.42	
		For Fusion Bonded Epoxy Lining (206N), Add	34.39	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.33	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-11.55	
		For Class 51, Add	26.54	
		For Class 52, Add	57.38	
		For Class 53, Add	103.88	
		For Class 54, Add	148.42	
		For Class 55, Add	170.34	
		For Class 56, Add	191.86	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	281.96	29.67
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	104.24	
For Cement Mortar Lining (CML), Add	23.69	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	80.55	
For Fusion Bonded Epoxy Lining (206N), Add	42.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.77	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-14.10	
For Class 51, Add	32.86	
For Class 52, Add	71.04	
For Class 53, Add	128.65	
For Class 54, Add	183.83	
For Class 55, Add	210.95	
For Class 56, Add	237.57	
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	317.08	33.99
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	108.90	
For Cement Mortar Lining (CML), Add	26.56	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	82.34	
For Fusion Bonded Epoxy Lining (206N), Add	47.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.92	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-15.85	
For Class 51, Add	36.85	
For Class 52, Add	79.67	
For Class 53, Add	144.27	
For Class 54, Add	206.14	
For Class 55, Add	236.56	
For Class 56, Add	266.42	
33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe.....	400.68	39.64
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	139.66	
For Cement Mortar Lining (CML), Add	34.06	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	105.60	
For Fusion Bonded Epoxy Lining (206N), Add	61.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.55	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-20.03	
For Class 51, Add	47.18	
For Class 52, Add	102.02	
For Class 53, Add	184.80	
For Class 54, Add	264.06	
For Class 55, Add	303.00	
For Class 56, Add	341.22	
33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe.....	447.18	47.57
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	142.55	
For Cement Mortar Lining (CML), Add	37.51	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	105.03	
For Fusion Bonded Epoxy Lining (206N), Add	67.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.13	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-22.36	
For Class 51, Add	52.03	
For Class 52, Add	112.50	
For Class 53, Add	203.73	
For Class 54, Add	291.09	
For Class 55, Add	334.05	
For Class 56, Add	376.21	
33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe.....	593.53	59.45
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	156.07	
For Cement Mortar Lining (CML), Add	50.35	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	105.72	
For Fusion Bonded Epoxy Lining (206N), Add	90.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.76	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-29.68	
For Class 51, Add	69.75	
For Class 52, Add	150.82	
For Class 53, Add	273.18	
For Class 54, Add	390.35	
For Class 55, Add	447.91	
For Class 56, Add	504.42	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	806.03 220.08 71.00 127.79 53.25 -40.30 97.97 211.91 384.07 548.91 629.70 708.99	64.01
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	989.84 275.20 88.78 159.80 66.58 -49.49 122.28 264.53 479.57 685.48 786.27 885.20	67.98
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	1,251.69 354.52 114.36 205.85 85.77 -62.58 157.22 340.18 616.91 881.86 1,011.41 1,138.56	71.94
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	1,571.73 451.87 145.76 262.38 109.32 -78.59 200.10 433.00 785.43 1,122.84 1,287.67 1,449.43	76.03
33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	202.61 13.35 24.03 10.01	45.60
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	227.86 14.53 26.16 10.90	54.48
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	359.52 23.76 42.77 17.82	80.51

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow	490.36	95.50
For Cement Mortar Lining (CML), Add	34.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	62.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow	709.55	105.46
For Cement Mortar Lining (CML), Add	54.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	98.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow	927.63	123.71
For Cement Mortar Lining (CML), Add	74.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	133.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow	1,449.20	138.72
For Cement Mortar Lining (CML), Add	123.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	223.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	92.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0027 EA 16" Mechanical Joint Ductile Iron 90 Degree Elbow	1,923.02	158.53
For Cement Mortar Lining (CML), Add	168.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	302.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	126.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0028 EA 18" Mechanical Joint Ductile Iron 90 Degree Elbow	2,362.68	221.96
For Cement Mortar Lining (CML), Add	202.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	364.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	151.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0029 EA 20" Mechanical Joint Ductile Iron 90 Degree Elbow	3,245.96	277.44
For Cement Mortar Lining (CML), Add	282.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	508.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	211.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0030 EA 24" Mechanical Joint Ductile Iron 90 Degree Elbow	4,777.65	369.44
For Cement Mortar Lining (CML), Add	421.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	759.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	316.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0031 EA 30" Mechanical Joint Ductile Iron 90 Degree Elbow	7,369.05	396.34
For Cement Mortar Lining (CML), Add	676.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,218.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	507.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0032 EA 36" Mechanical Joint Ductile Iron 90 Degree Elbow	11,205.21	411.48
For Cement Mortar Lining (CML), Add	1,058.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,904.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	793.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0033 EA 42" Mechanical Joint Ductile Iron 90 Degree Elbow	18,866.26	475.61
For Cement Mortar Lining (CML), Add	1,814.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,266.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,360.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0034 EA 48" Mechanical Joint Ductile Iron 90 Degree Elbow	24,962.10	506.00
For Cement Mortar Lining (CML), Add	2,419.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,355.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,814.66	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0002)



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0036	EA	3" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	188.87 11.98 21.56 8.98	45.60
33 14 13 13-0037	EA	4" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	202.33 11.98 21.56 8.98	54.48
33 14 13 13-0038	EA	6" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	314.35 19.24 34.64 14.43	80.51
33 14 13 13-0039	EA	8" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	425.56 28.08 50.54 21.06	95.50
33 14 13 13-0040	EA	10" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	570.13 41.04 73.87 30.78	105.46
33 14 13 13-0041	EA	12" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	799.99 61.26 110.28 45.95	123.71
33 14 13 13-0042	EA	14" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,174.30 96.41 173.54 72.31	138.72
33 14 13 13-0043	EA	16" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,441.93 120.17 216.31 90.13	158.53
33 14 13 13-0044	EA	18" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,060.28 172.40 310.33 129.30	221.96
33 14 13 13-0045	EA	20" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,262.20 184.19 331.53 138.14	277.44
33 14 13 13-0046	EA	24" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,357.97 279.81 503.66 209.86	369.44
33 14 13 13-0047	EA	30" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,285.14 568.46 1,023.23 426.35	396.34

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0048 EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow	8,935.29	411.48
For Cement Mortar Lining (CML), Add	831.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,496.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	623.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0049 EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow	13,491.88	475.61
For Cement Mortar Lining (CML), Add	1,277.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,298.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	957.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0050 EA 48" Mechanical Joint Ductile Iron 45 Degree Elbow	17,502.38	506.00
For Cement Mortar Lining (CML), Add	1,673.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,012.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,255.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0052 EA 3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	163.34	45.60
For Cement Mortar Lining (CML), Add	9.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0053 EA 4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	196.44	54.48
For Cement Mortar Lining (CML), Add	11.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	20.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0054 EA 6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	298.64	80.51
For Cement Mortar Lining (CML), Add	17.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	31.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.25	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0055 EA 8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	419.67	95.50
For Cement Mortar Lining (CML), Add	27.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	49.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0056 EA 10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	568.17	105.46
For Cement Mortar Lining (CML), Add	40.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0057 EA 12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	723.41	123.71
For Cement Mortar Lining (CML), Add	53.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	96.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0058 EA 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,186.08	138.72
For Cement Mortar Lining (CML), Add	97.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	175.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0059 EA 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,392.84	158.53
For Cement Mortar Lining (CML), Add	115.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	207.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	86.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0060 EA 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,752.00	221.96
For Cement Mortar Lining (CML), Add	141.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	254.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	106.18	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0061	EA	20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,344.67 192.43 346.38 144.32	277.44
33 14 13 13-0062	EA	24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,141.97 258.21 464.78 193.66	369.44
33 14 13 13-0063	EA	30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,364.21 476.37 857.46 357.28	396.34
33 14 13 13-0064	EA	36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,605.93 698.26 1,256.86 523.69	411.48
33 14 13 13-0065	EA	42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,263.20 1,054.26 1,897.66 790.69	475.61
33 14 13 13-0066	EA	48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,494.15 1,372.75 2,470.96 1,029.56	506.00
33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)				
33 14 13 13-0068	EA	3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	163.34 9.43 16.97 7.07	45.60
33 14 13 13-0069	EA	4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	190.55 10.80 19.44 8.10	54.48
33 14 13 13-0070	EA	6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	304.53 18.26 32.87 13.70	80.51
33 14 13 13-0071	EA	8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	394.15 24.94 44.89 18.70	95.50
33 14 13 13-0072	EA	10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	564.24 40.45 72.81 30.34	105.46
33 14 13 13-0073	EA	12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	690.03 50.27 90.48 37.70	123.71

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,323.53 111.34 200.40 83.50	138.72
33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,459.61 121.94 219.49 91.46	158.53
33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,125.08 178.88 321.99 134.16	221.96
33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,232.74 181.24 326.23 135.93	277.44
33 14 13 13-0078 EA 24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,977.03 241.72 435.09 181.29	369.44
33 14 13 13-0079 EA 30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,450.61 485.01 873.02 363.76	396.34
33 14 13 13-0080 EA 36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,252.48 662.91 1,193.24 497.18	411.48
33 14 13 13-0081 EA 42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,782.12 1,006.15 1,811.07 754.61	475.61
33 14 13 13-0082 EA 48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,399.89 1,363.33 2,453.99 1,022.50	506.00
33 14 13 13-0083 Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0084 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	208.51 13.94 25.10 10.46	45.60
33 14 13 13-0085 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	255.35 17.28 31.10 12.96	54.48



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0086	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	408.61 28.67 51.60 21.50	80.51
33 14 13 13-0087	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	555.16 41.04 73.87 30.78	95.50
33 14 13 13-0088	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	803.80 64.41 115.93 48.30	105.46
33 14 13 13-0089	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,029.73 84.24 151.63 63.18	123.71
33 14 13 13-0090	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,777.12 156.70 282.05 117.52	138.72
33 14 13 13-0091	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,722.20 248.20 446.76 186.15	158.53
33 14 13 13-0092	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,155.97 281.97 507.55 211.48	221.96
33 14 13 13-0093	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,290.60 387.03 696.65 290.27	277.44
33 14 13 13-0094	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,209.64 464.98 836.96 348.74	369.44
33 14 13 13-0095	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,756.79 915.63 1,648.13 686.72	396.34
33 14 13 13-0096	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,496.58 1,687.32 3,037.18 1,265.49	411.48

33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0002)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0098	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	190.83	45.60
		For Cement Mortar Lining (CML), Add	12.17	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	21.91	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.13	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0099	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	208.22	54.48
		For Cement Mortar Lining (CML), Add	12.57	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	22.62	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.43	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0100	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	335.95	80.51
		For Cement Mortar Lining (CML), Add	21.40	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	38.53	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.05	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0101	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	488.40	95.50
		For Cement Mortar Lining (CML), Add	34.36	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	61.85	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.77	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0102	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	670.28	105.46
		For Cement Mortar Lining (CML), Add	51.05	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	91.90	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.29	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0103	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	913.88	123.71
		For Cement Mortar Lining (CML), Add	72.65	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	130.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.49	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0104	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,570.94	138.72
		For Cement Mortar Lining (CML), Add	136.08	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	244.94	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	102.06	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0105	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,398.21	158.53
		For Cement Mortar Lining (CML), Add	215.80	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	388.44	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	161.85	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0106	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,828.05	221.96
		For Cement Mortar Lining (CML), Add	249.18	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	448.53	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	186.89	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0107	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	3,674.03	277.44
		For Cement Mortar Lining (CML), Add	325.37	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	585.66	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	244.03	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0108	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	4,614.67	369.44
		For Cement Mortar Lining (CML), Add	405.48	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	729.87	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	304.11	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0109	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	8,564.88	396.34
		For Cement Mortar Lining (CML), Add	796.44	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,433.58	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	597.33	
		Note: ANSI/AWWA C151/A21.51		



Utilities			33	CS
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0110	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,303.24 1,467.99 2,642.38 1,100.99	411.48
33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)				
33 14 13 13-0112	EA	3" x 3" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	331.41 22.78 41.00 17.08	68.40
33 14 13 13-0113	EA	4" x 3" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	343.60 22.78 41.00 17.08	76.44
33 14 13 13-0114	EA	4" x 4" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	312.39 19.05 34.28 14.29	80.51
33 14 13 13-0115	EA	6" x 3" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	416.78 26.31 47.36 19.73	101.42
33 14 13 13-0116	EA	6" x 4" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	480.07 32.01 57.61 24.01	105.61
33 14 13 13-0117	EA	6" x 6" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	522.68 34.36 61.85 25.77	118.23
33 14 13 13-0118	EA	8" x 4" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	556.55 37.11 66.80 27.83	122.38
33 14 13 13-0119	EA	8" x 6" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	632.54 42.81 77.05 32.10	134.96
33 14 13 13-0120	EA	8" x 8" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	733.62 51.64 92.96 38.73	143.38
33 14 13 13-0121	EA	10" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	768.01 56.94 102.50 42.71	131.05
33 14 13 13-0122	EA	10" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	768.36 55.18 99.32 41.38	142.95

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0123	EA	10" x 8" Mechanical Joint Ductile Iron Tee.....	874.62		150.88
		For Cement Mortar Lining (CML), Add	64.60		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	116.28		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.45		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0124	EA	10" x 10" Mechanical Joint Ductile Iron Tee.....	978.52		158.53
		For Cement Mortar Lining (CML), Add	73.83		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	132.90		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.37		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0125	EA	12" x 4" Mechanical Joint Ductile Iron Tee.....	919.67		146.91
		For Cement Mortar Lining (CML), Add	69.71		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	125.47		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.28		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0126	EA	12" x 6" Mechanical Joint Ductile Iron Tee.....	1,045.67		158.79
		For Cement Mortar Lining (CML), Add	80.51		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	144.91		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.38		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0127	EA	12" x 8" Mechanical Joint Ductile Iron Tee.....	1,287.44		166.72
		For Cement Mortar Lining (CML), Add	103.48		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	186.27		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	77.61		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0128	EA	12" x 10" Mechanical Joint Ductile Iron Tee.....	1,379.54		174.39
		For Cement Mortar Lining (CML), Add	111.53		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	200.76		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	83.65		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0129	EA	12" x 12" Mechanical Joint Ductile Iron Tee.....	1,307.12		182.32
		For Cement Mortar Lining (CML), Add	103.09		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	185.56		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	77.32		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0130	EA	14" x 6" Mechanical Joint Ductile Iron Tee.....	1,395.67		185.03
		For Cement Mortar Lining (CML), Add	111.53		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	200.76		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	83.65		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0131	EA	14" x 8" Mechanical Joint Ductile Iron Tee.....	1,554.96		192.97
		For Cement Mortar Lining (CML), Add	126.26		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	227.27		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	94.69		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0132	EA	14" x 10" Mechanical Joint Ductile Iron Tee.....	1,990.70		200.62
		For Cement Mortar Lining (CML), Add	168.67		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	303.61		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	126.50		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0133	EA	14" x 12" Mechanical Joint Ductile Iron Tee.....	2,128.38		208.55
		For Cement Mortar Lining (CML), Add	181.24		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	326.23		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	135.93		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0134	EA	14" x 14" Mechanical Joint Ductile Iron Tee.....	2,052.05		221.71
		For Cement Mortar Lining (CML), Add	171.62		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	308.91		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	128.71		
		Note: ANSI/AWWA C151/A21.51			



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0135	EA	16" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,775.49 143.93 259.08 107.95	221.94
33 14 13 13-0136	EA	16" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,911.33 156.30 281.35 117.23	229.88
33 14 13 13-0137	EA	16" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,229.25 186.94 336.48 140.20	237.53
33 14 13 13-0138	EA	16" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,441.55 206.96 372.53 155.22	245.45
33 14 13 13-0139	EA	16" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,942.52 255.07 459.13 191.30	258.59
33 14 13 13-0140	EA	16" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,778.03 235.83 424.49 176.87	277.08
33 14 13 13-0141	EA	18" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,468.59 203.82 366.88 152.87	284.04
33 14 13 13-0142	EA	18" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,649.48 220.71 397.28 165.53	291.97
33 14 13 13-0143	EA	18" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,869.22 241.52 434.74 181.14	299.64
33 14 13 13-0144	EA	18" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,087.41 262.14 471.85 196.61	307.56
33 14 13 13-0145	EA	18" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,176.01 269.01 484.22 201.76	320.68
33 14 13 13-0146	EA	18" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,390.51 287.67 517.80 215.75	339.13

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0147	EA	18" x 18" Mechanical Joint Ductile Iron Tee.....	3,973.62		370.16
		For Cement Mortar Lining (CML), Add	341.27		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	614.29		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	255.96		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0148	EA	20" x 6" Mechanical Joint Ductile Iron Tee.....	2,910.63		407.32
		For Cement Mortar Lining (CML), Add	229.35		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	412.83		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	172.01		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0149	EA	20" x 8" Mechanical Joint Ductile Iron Tee.....	2,973.72		415.26
		For Cement Mortar Lining (CML), Add	234.45		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	422.02		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	175.84		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0150	EA	20" x 10" Mechanical Joint Ductile Iron Tee.....	3,242.55		422.91
		For Cement Mortar Lining (CML), Add	260.18		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	468.32		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	195.13		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0151	EA	20" x 12" Mechanical Joint Ductile Iron Tee.....	3,509.83		430.83
		For Cement Mortar Lining (CML), Add	285.70		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	514.27		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	214.28		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0152	EA	20" x 14" Mechanical Joint Ductile Iron Tee.....	3,551.31		443.95
		For Cement Mortar Lining (CML), Add	287.86		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	518.16		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	215.90		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0153	EA	20" x 16" Mechanical Joint Ductile Iron Tee.....	3,602.83		462.41
		For Cement Mortar Lining (CML), Add	290.22		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	522.40		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	217.67		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0154	EA	20" x 18" Mechanical Joint Ductile Iron Tee.....	4,537.42		493.46
		For Cement Mortar Lining (CML), Add	378.98		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	682.16		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	284.23		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0155	EA	20" x 20" Mechanical Joint Ductile Iron Tee.....	3,986.76		555.12
		For Cement Mortar Lining (CML), Add	314.57		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	566.22		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	235.93		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0156	EA	24" x 6" Mechanical Joint Ductile Iron Tee.....	3,562.22		530.22
		For Cement Mortar Lining (CML), Add	275.89		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	496.59		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	206.91		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0157	EA	24" x 8" Mechanical Joint Ductile Iron Tee.....	3,609.59		538.90
		For Cement Mortar Lining (CML), Add	279.42		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	502.96		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	209.57		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0158	EA	24" x 10" Mechanical Joint Ductile Iron Tee.....	3,982.50		545.81
		For Cement Mortar Lining (CML), Add	315.55		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	567.99		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	236.66		
		Note: ANSI/AWWA C151/A21.51			



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0159	EA	24" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,082.86 324.39 583.90 243.29	553.74
33 14 13 13-0160	EA	24" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,601.49 374.26 673.67 280.70	566.85
33 14 13 13-0161	EA	24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,973.09 408.63 735.53 306.47	585.30
33 14 13 13-0162	EA	24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,656.34 472.25 850.04 354.18	616.36
33 14 13 13-0163	EA	24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,270.08 524.28 943.71 393.21	678.00
33 14 13 13-0164	EA	24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,789.81 466.94 840.50 350.21	739.48
33 14 13 13-0165	EA	30" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,216.04 526.83 948.30 395.13	625.49
33 14 13 13-0166	EA	30" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,551.63 559.23 1,006.62 419.42	633.14
33 14 13 13-0167	EA	30" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,887.65 591.63 1,064.94 443.72	641.07
33 14 13 13-0168	EA	30" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,367.00 637.58 1,147.65 478.19	654.20
33 14 13 13-0169	EA	30" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,885.86 686.67 1,236.01 515.00	870.39
33 14 13 13-0170	EA	30" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,097.85 703.17 1,265.70 527.37	703.69

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0171	EA 30" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,420.99 726.14 1,307.05 544.60	765.34
33 14 13	13-0172	EA 30" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,845.94 759.32 1,366.78 569.49	826.78
33 14 13	13-0173	EA 30" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,107.41 978.86 1,761.94 734.14	870.39
33 14 13	13-0174	EA 30" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,502.49 556.68 1,002.03 417.51	617.55
33 14 13	13-0175	EA 36" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,605.82 655.45 1,179.81 491.59	693.86
33 14 13	13-0176	EA 36" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,469.62 740.67 1,333.21 555.50	701.53
33 14 13	13-0177	EA 36" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,937.18 786.23 1,415.21 589.67	709.45
33 14 13	13-0178	EA 36" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,273.20 817.84 1,472.11 613.38	722.57
33 14 13	13-0179	EA 36" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,613.38 849.06 1,528.31 636.80	741.03
33 14 13	13-0180	EA 36" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,265.21 909.54 1,637.17 682.16	772.08
33 14 13	13-0181	EA 36" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,965.36 970.22 1,746.39 727.66	833.72
33 14 13	13-0182	EA 36" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,134.52 1,077.82 1,940.08 808.37	895.16



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0183	EA	36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,420.07 1,199.76 2,159.57 899.82	973.08
33 14 13 13-0184	EA	36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,680.92 1,420.67 2,557.20 1,065.50	973.08
33 14 13 13-0185	EA	42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,658.51 1,652.57 2,974.62 1,239.42	747.67
33 14 13 13-0186	EA	42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,012.19 1,685.95 3,034.70 1,264.46	760.80
33 14 13 13-0187	EA	42" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,025.35 1,884.47 3,392.04 1,413.35	779.25
33 14 13 13-0188	EA	42" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,717.52 1,748.98 3,148.16 1,311.73	810.29
33 14 13 13-0189	EA	42" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,810.91 1,748.98 3,148.16 1,311.73	871.95
33 14 13 13-0190	EA	42" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,224.08 1,780.99 3,205.77 1,335.74	933.39
33 14 13 13-0191	EA	42" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,327.40 2,184.70 3,932.46 1,638.53	977.06
33 14 13 13-0192	EA	42" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,296.20 2,276.40 4,097.52 1,707.30	1,011.26
33 14 13 13-0193	EA	42" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,705.58 2,414.44 4,346.00 1,810.83	1,030.37
33 14 13 13-0194	EA	48" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,812.04 1,958.69 3,525.64 1,469.02	808.59

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0195	EA	48" x 14" Mechanical Joint Ductile Iron Tee.....	21,185.37		821.70
		For Cement Mortar Lining (CML), Add	1,994.04		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	3,589.26		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,495.53		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0196	EA	48" x 16" Mechanical Joint Ductile Iron Tee.....	21,714.05		840.17
		For Cement Mortar Lining (CML), Add	2,044.11		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	3,679.39		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,533.08		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0197	EA	48" x 18" Mechanical Joint Ductile Iron Tee.....	22,259.84		871.21
		For Cement Mortar Lining (CML), Add	2,093.98		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	3,769.17		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,570.49		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0198	EA	48" x 20" Mechanical Joint Ductile Iron Tee.....	22,853.96		932.85
		For Cement Mortar Lining (CML), Add	2,144.06		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	3,859.30		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,608.04		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0199	EA	48" x 24" Mechanical Joint Ductile Iron Tee.....	23,013.83		994.30
		For Cement Mortar Lining (CML), Add	2,150.73		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	3,871.32		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,613.05		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0200	EA	48" x 30" Mechanical Joint Ductile Iron Tee.....	28,026.30		1,037.96
		For Cement Mortar Lining (CML), Add	2,645.36		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	4,761.65		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,984.02		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0201	EA	48" x 36" Mechanical Joint Ductile Iron Tee.....	31,966.03		1,072.16
		For Cement Mortar Lining (CML), Add	3,034.16		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	5,461.48		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,275.62		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0202	EA	48" x 42" Mechanical Joint Ductile Iron Tee.....	33,534.45		1,091.27
		For Cement Mortar Lining (CML), Add	3,188.10		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	5,738.58		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,391.08		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0203	EA	48" x 48" Mechanical Joint Ductile Iron Tee.....	34,093.09		1,121.77
		For Cement Mortar Lining (CML), Add	3,239.35		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	5,830.83		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,429.51		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0204		Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002).....			
33 14 13 13-0205	EA	4" x 3" Mechanical Joint Ductile Iron Wye (Lateral).....	282.73		76.44
		For Cement Mortar Lining (CML), Add	16.69		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	30.04		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.52		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0206	EA	4" x 4" Mechanical Joint Ductile Iron Wye (Lateral).....	434.12		80.47
		For Cement Mortar Lining (CML), Add	31.22		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	56.20		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.42		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0207	EA	6" x 3" Mechanical Joint Ductile Iron Wye (Lateral).....	416.78		101.42
		For Cement Mortar Lining (CML), Add	26.31		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	47.36		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.73		
		Note: ANSI/AWWA C151/A21.51			



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0208	EA	6" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	482.03 32.20 57.97 24.15	105.61
33 14 13 13-0209	EA	6" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	650.31 47.13 84.83 35.34	118.17
33 14 13 13-0210	EA	8" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	835.38 65.00 116.99 48.75	122.38
33 14 13 13-0211	EA	8" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	748.40 54.39 97.91 40.79	134.96
33 14 13 13-0212	EA	8" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	904.45 68.73 123.71 51.54	143.34
33 14 13 13-0213	EA	10" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,292.30 109.37 196.87 82.03	131.05
33 14 13 13-0214	EA	10" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,367.26 115.07 207.12 86.30	142.95
33 14 13 13-0215	EA	10" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,571.70 134.31 241.76 100.73	150.88
33 14 13 13-0216	EA	10" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,769.85 152.96 275.34 114.72	158.53
33 14 13 13-0217	EA	12" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,650.13 142.75 256.96 107.07	146.91
33 14 13 13-0218	EA	12" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,866.45 162.59 292.65 121.94	158.79
33 14 13 13-0219	EA	12" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,249.60 199.70 359.46 149.77	166.72

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0220	EA	12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,314.22	174.39
		For Cement Mortar Lining (CML), Add	205.00	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	369.00	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	153.75	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221	EA	12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,096.49	182.31
		For Cement Mortar Lining (CML), Add	182.03	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	327.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	136.52	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222	EA	14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,471.73	185.03
		For Cement Mortar Lining (CML), Add	219.14	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	394.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	164.35	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223	EA	14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,829.34	192.97
		For Cement Mortar Lining (CML), Add	253.70	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	456.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	190.27	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0224	EA	14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,695.11	200.62
		For Cement Mortar Lining (CML), Add	339.11	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	610.41	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	254.34	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0225	EA	14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,958.46	208.55
		For Cement Mortar Lining (CML), Add	364.25	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	655.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	273.19	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0226	EA	14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,868.38	221.66
		For Cement Mortar Lining (CML), Add	353.25	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	635.85	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	264.94	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0227	EA	16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,539.44	221.94
		For Cement Mortar Lining (CML), Add	220.32	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	396.57	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	165.24	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0228	EA	16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,794.95	229.88
		For Cement Mortar Lining (CML), Add	244.67	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	440.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	183.50	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0229	EA	16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,295.48	237.53
		For Cement Mortar Lining (CML), Add	293.56	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	528.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	220.17	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0230	EA	16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,686.48	245.45
		For Cement Mortar Lining (CML), Add	331.46	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	596.62	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	248.59	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0231	EA	16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,613.54	258.59
		For Cement Mortar Lining (CML), Add	422.17	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	759.91	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	316.63	
		Note: ANSI/AWWA C151/A21.51		



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0232	EA	16" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,449.07 402.93 725.28 302.20	277.03
33 14 13	13-0233	EA	18" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,998.23 356.79 642.21 267.59	284.04
33 14 13	13-0234	EA	18" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,304.79 386.24 695.23 289.68	291.97
33 14 13	13-0235	EA	18" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,601.11 414.71 746.48 311.03	299.64
33 14 13	13-0236	EA	18" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,923.37 445.74 802.33 334.30	307.56
33 14 13	13-0237	EA	18" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,978.60 449.27 808.69 336.95	320.68
33 14 13	13-0238	EA	18" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,030.12 451.63 812.93 338.72	339.13
33 14 13	13-0239	EA	18" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,601.97 404.11 727.40 303.08	370.19
33 14 13	13-0240	EA	20" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,744.64 412.75 742.95 309.56	407.32
33 14 13	13-0241	EA	20" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,848.96 421.98 759.56 316.48	415.26
33 14 13	13-0242	EA	20" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,323.97 468.32 842.97 351.24	422.91
33 14 13	13-0243	EA	20" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,795.46 514.27 925.68 385.70	430.83

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0244	EA	20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	5,854.61	443.95
		For Cement Mortar Lining (CML), Add	518.19	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	932.75	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	388.65	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245	EA	20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	5,923.81	462.41
		For Cement Mortar Lining (CML), Add	522.32	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	940.17	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	391.74	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0246	EA	20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	6,862.32	493.46
		For Cement Mortar Lining (CML), Add	611.47	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,100.64	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	458.60	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0247	EA	20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	6,504.09	555.10
		For Cement Mortar Lining (CML), Add	566.30	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,019.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	424.73	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0248	EA	24" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	5,769.30	530.22
		For Cement Mortar Lining (CML), Add	496.59	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	893.87	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	372.45	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0249	EA	24" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	5,844.17	538.15
		For Cement Mortar Lining (CML), Add	502.88	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	905.18	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	377.16	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0250	EA	24" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	6,505.72	545.81
		For Cement Mortar Lining (CML), Add	567.87	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,022.17	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	425.90	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0251	EA	24" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	6,808.33	553.74
		For Cement Mortar Lining (CML), Add	596.93	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,074.48	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	447.70	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0252	EA	24" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	7,857.14	566.85
		For Cement Mortar Lining (CML), Add	699.83	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,259.69	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	524.87	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0253	EA	24" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	8,727.49	585.30
		For Cement Mortar Lining (CML), Add	784.07	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,411.32	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	588.05	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0254	EA	24" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	9,764.19	616.36
		For Cement Mortar Lining (CML), Add	883.03	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,589.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	662.27	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0255	EA	24" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	10,727.45	678.00
		For Cement Mortar Lining (CML), Add	970.02	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,746.03	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	727.51	
		Note: ANSI/AWWA C151/A21.51		



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0256	EA	24" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,524.58 840.42 1,512.76 630.32	739.45
33 14 13 13-0257	EA	30" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,890.60 1,095.49 1,971.89 821.62	617.55
33 14 13 13-0258	EA	30" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,328.20 1,238.05 2,228.49 928.54	625.49
33 14 13 13-0259	EA	30" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,101.67 1,314.24 2,365.63 985.68	633.14
33 14 13 13-0260	EA	30" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,875.57 1,390.43 2,502.77 1,042.82	641.07
33 14 13 13-0261	EA	30" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,973.46 1,498.23 2,696.81 1,123.67	654.20
33 14 13 13-0262	EA	30" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,156.01 1,613.69 2,904.63 1,210.26	672.65
33 14 13 13-0263	EA	30" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,589.89 1,652.37 2,974.26 1,239.28	703.69
33 14 13 13-0264	EA	30" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,223.28 1,706.37 3,071.46 1,279.78	765.34
33 14 13 13-0265	EA	30" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,095.93 1,784.32 3,211.78 1,338.24	826.78
33 14 13 13-0266	EA	30" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,695.66 1,937.68 3,487.82 1,453.26	870.46
33 14 13 13-0267	EA	36" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,696.13 2,162.12 3,891.82 1,621.59	709.45

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0268	EA	36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	23,585.88	722.57
		For Cement Mortar Lining (CML), Add	2,249.11	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	4,048.39	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,686.83	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0269	EA	36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	24,471.94	741.03
		For Cement Mortar Lining (CML), Add	2,334.92	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	4,202.85	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,751.19	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0270	EA	36" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	26,182.15	772.08
		For Cement Mortar Lining (CML), Add	2,501.23	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	4,502.22	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,875.93	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0271	EA	36" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	27,944.61	833.72
		For Cement Mortar Lining (CML), Add	2,668.14	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	4,802.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,001.11	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0272	EA	36" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	30,996.86	895.16
		For Cement Mortar Lining (CML), Add	2,964.05	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	5,335.30	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,223.04	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0273	EA	36" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	34,721.20	938.83
		For Cement Mortar Lining (CML), Add	3,329.87	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	5,993.77	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,497.40	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0274	EA	36" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	41,431.58	973.03
		For Cement Mortar Lining (CML), Add	3,995.73	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	7,192.31	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,996.80	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0275	EA	42" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	36,457.78	871.95
		For Cement Mortar Lining (CML), Add	3,513.67	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	6,324.60	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,635.25	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0276	EA	42" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	37,369.71	933.39
		For Cement Mortar Lining (CML), Add	3,595.55	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	6,471.99	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,696.66	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0277	EA	42" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	39,917.86	977.06
		For Cement Mortar Lining (CML), Add	3,843.75	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	6,918.74	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,882.81	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0278	EA	42" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	45,644.46	1,011.26
		For Cement Mortar Lining (CML), Add	4,411.23	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	7,940.21	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,308.42	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0279	EA	42" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	53,830.22	1,030.36
		For Cement Mortar Lining (CML), Add	5,226.91	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	9,408.43	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,920.18	
		Note: ANSI/AWWA C151/A21.51		



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0280	EA	48" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	35,968.84 3,455.54 6,219.98 2,591.66	932.85
33 14 13 13-0281	EA	48" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	40,735.32 3,922.88 7,061.18 2,942.16	994.30
33 14 13 13-0282	EA	48" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	43,415.03 4,184.24 7,531.62 3,138.18	1,037.96
33 14 13 13-0283	EA	48" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	49,485.27 4,786.08 8,614.94 3,589.56	1,072.16
33 14 13 13-0284	EA	48" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	64,692.85 6,303.94 11,347.09 4,727.96	1,091.27
33 14 13 13-0285	EA	48" x 48" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	71,022.51 6,932.29 12,478.13 5,199.22	1,121.72
33 14 13 13-0286		Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee (33 14 13 13-0002)		
33 14 13 13-0287	EA	6" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	575.70 39.67 71.40 29.75 29.75	118.23
33 14 13 13-0288	EA	8" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	683.60 47.91 86.24 35.93 35.93	134.96
33 14 13 13-0289	EA	10" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	1,033.45 81.69 147.03 61.26 61.26	142.95
33 14 13 13-0290	EA	12" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	1,161.52 92.09 165.77 69.07 69.07	158.79
33 14 13 13-0291	EA	14" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	1,584.18 130.38 234.69 97.79 97.79	185.03

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0292 EA 16" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	2,023.01 168.67 303.61 126.50 126.50	221.94
33 14 13 13-0293 EA 18" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	2,484.30 205.39 369.71 154.04 154.04	284.04
33 14 13 13-0294 EA 20" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	3,482.04 286.49 515.68 214.87 214.87	407.32
33 14 13 13-0295 EA 24" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	4,048.07 328.31 590.97 246.24 246.24	530.22
33 14 13 13-0296 EA 30" x 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	7,908.42 697.27 1,255.09 522.96 522.96	617.55
33 14 13 13-0297 Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee (33 14 13 13-0002)		
33 14 13 13-0298 EA 6" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee Note: Includes swivel gland. For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	516.79 33.77 60.79 25.33 25.33	118.23
33 14 13 13-0299 EA 8" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee Note: Includes swivel gland. For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	605.05 40.06 72.10 30.04 30.04	134.96
33 14 13 13-0300 EA 10" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee Note: Includes swivel gland. For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	860.65 64.41 115.93 48.30 48.30	142.95
33 14 13 13-0301 EA 12" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee Note: Includes swivel gland. For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	1,065.30 82.47 148.45 61.85 61.85	158.79



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0302	EA	14" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee Note: Includes swivel gland. For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	1,340.69 106.03 190.86 79.53 79.53	185.03
33 14 13 13-0303	EA	16" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee Note: Includes swivel gland. For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	1,693.13 135.69 244.23 101.76 101.76	221.94
33 14 13 13-0304	EA	18" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee Note: Includes swivel gland. For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	2,187.79 175.74 316.34 131.81 131.81	284.04
33 14 13 13-0305	EA	20" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee Note: Includes swivel gland. For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	2,388.32 177.12 318.81 132.84 132.84	407.32
33 14 13 13-0306	EA	24" x 6" Mechanical Joint x Swivel (MJxSW) Ductile Iron Hydrant Tee Note: Includes swivel gland. For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Protective Fusion-Bonded Epoxy Coated, C116, Add	3,315.65 255.07 459.13 191.30 191.30	530.22
33 14 13 13-0307		Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)		
33 14 13 13-0308	EA	3" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	391.47 25.33 45.59 19.00	91.19
33 14 13 13-0309	EA	4" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	474.35 32.40 58.32 24.30	99.24
33 14 13 13-0310	EA	4" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	562.80 41.04 73.87 30.78	100.58
33 14 13 13-0311	EA	6" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	671.51 48.31 86.95 36.23	124.33
33 14 13 13-0312	EA	6" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	650.90 44.77 80.59 33.58	134.11

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0313	EA	6" x 6" Mechanical Joint Ductile Iron Cross	756.67		167.63
		For Cement Mortar Lining (CML), Add	50.27		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	90.48		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.70		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0314	EA	8" x 4" Mechanical Joint Ductile Iron Cross	668.01		146.69
		For Cement Mortar Lining (CML), Add	44.57		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	80.23		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.43		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0315	EA	8" x 6" Mechanical Joint Ductile Iron Cross	793.41		180.22
		For Cement Mortar Lining (CML), Add	52.04		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	93.66		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.03		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0316	EA	8" x 8" Mechanical Joint Ductile Iron Cross	839.97		192.78
		For Cement Mortar Lining (CML), Add	54.78		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	98.61		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.09		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0317	EA	10" x 4" Mechanical Joint Ductile Iron Cross	813.46		153.27
		For Cement Mortar Lining (CML), Add	58.12		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	104.62		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.59		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0318	EA	10" x 6" Mechanical Joint Ductile Iron Cross	932.19		184.98
		For Cement Mortar Lining (CML), Add	65.19		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	117.35		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.89		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0319	EA	10" x 8" Mechanical Joint Ductile Iron Cross	1,107.30		196.88
		For Cement Mortar Lining (CML), Add	80.90		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	145.62		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.68		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0320	EA	10" x 10" Mechanical Joint Ductile Iron Cross	1,198.07		211.38
		For Cement Mortar Lining (CML), Add	87.77		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	157.99		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.83		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0321	EA	12 x 4" Mechanical Joint Ductile Iron Cross	986.61		166.46
		For Cement Mortar Lining (CML), Add	73.44		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	132.19		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.08		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0322	EA	12" x 6" Mechanical Joint Ductile Iron Cross	1,146.57		198.17
		For Cement Mortar Lining (CML), Add	84.63		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	152.34		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.47		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0323	EA	12" x 8" Mechanical Joint Ductile Iron Cross	1,653.54		210.07
		For Cement Mortar Lining (CML), Add	133.53		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	240.35		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.14		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0324	EA	12" x 10" Mechanical Joint Ductile Iron Cross	1,675.58		224.62
		For Cement Mortar Lining (CML), Add	133.53		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	240.35		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.14		
		Note: ANSI/AWWA C151/A21.51			



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0325	EA	12" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,901.74 154.14 277.46 115.61	237.81
33 14 13 13-0326	EA	14" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,948.29 161.80 291.24 121.35	217.98
33 14 13 13-0327	EA	14" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,292.26 194.40 349.91 145.80	229.88
33 14 13 13-0328	EA	14" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,353.58 198.32 356.98 148.74	244.43
33 14 13 13-0329	EA	14" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,483.53 209.32 376.78 156.99	257.61
33 14 13 13-0330	EA	14" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,747.21 232.69 418.84 174.52	277.44
33 14 13 13-0331	EA	16" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,227.89 185.56 334.01 139.17	245.71
33 14 13 13-0332	EA	16" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,534.56 214.43 385.97 160.82	257.61
33 14 13 13-0333	EA	16" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,032.94 262.06 471.71 196.55	272.15
33 14 13 13-0334	EA	16" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,379.70 294.74 530.52 221.05	285.34
33 14 13 13-0335	EA	16" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,081.26 361.89 651.40 271.42	305.15
33 14 13 13-0336	EA	16" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,777.15 427.28 769.10 320.46	332.93

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0337	EA	18" x 6" Mechanical Joint Ductile Iron Cross	3,682.10		290.54
		For Cement Mortar Lining (CML), Add	324.19		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	583.54		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	243.14		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0338	EA	18" x 8" Mechanical Joint Ductile Iron Cross	3,892.59		302.45
		For Cement Mortar Lining (CML), Add	343.43		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	618.18		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	257.58		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0339	EA	18" x 10" Mechanical Joint Ductile Iron Cross	4,075.62		316.98
		For Cement Mortar Lining (CML), Add	359.54		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	647.16		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	269.65		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0340	EA	18" x 12" Mechanical Joint Ductile Iron Cross	4,417.64		330.18
		For Cement Mortar Lining (CML), Add	391.74		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	705.13		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	293.80		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0341	EA	18" x 14" Mechanical Joint Ductile Iron Cross	5,152.58		349.98
		For Cement Mortar Lining (CML), Add	462.23		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	832.02		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	346.67		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0342	EA	18" x 16" Mechanical Joint Ductile Iron Cross	5,485.22		377.70
		For Cement Mortar Lining (CML), Add	491.29		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	884.33		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	368.47		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0343	EA	18" x 18" Mechanical Joint Ductile Iron Cross	5,745.57		422.52
		For Cement Mortar Lining (CML), Add	510.54		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	918.96		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	382.90		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0344	EA	20" x 6" Mechanical Joint Ductile Iron Cross	4,628.77		364.54
		For Cement Mortar Lining (CML), Add	407.64		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	733.76		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	305.73		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0345	EA	20" x 8" Mechanical Joint Ductile Iron Cross	4,841.20		376.44
		For Cement Mortar Lining (CML), Add	427.08		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	768.75		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	320.31		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0346	EA	20" x 10" Mechanical Joint Ductile Iron Cross	4,990.87		390.99
		For Cement Mortar Lining (CML), Add	439.85		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	791.72		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	329.88		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0347	EA	20" x 12" Mechanical Joint Ductile Iron Cross	5,330.93		404.17
		For Cement Mortar Lining (CML), Add	471.85		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	849.34		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	353.89		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0348	EA	20" x 14" Mechanical Joint Ductile Iron Cross	5,425.73		423.99
		For Cement Mortar Lining (CML), Add	478.33		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	861.00		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	358.75		
		Note: ANSI/AWWA C151/A21.51			



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0349	EA	20" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,559.50 587.51 1,057.52 440.63	451.71
33 14 13 13-0350	EA	20" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,819.86 606.75 1,092.15 455.06	496.55
33 14 13 13-0351	EA	20" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,381.67 651.72 1,173.09 488.79	570.49
33 14 13 13-0352	EA	24" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,308.81 561.79 1,011.21 421.34	456.03
33 14 13 13-0353	EA	24" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,456.79 574.75 1,034.54 431.06	467.92
33 14 13 13-0354	EA	24" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,702.32 597.13 1,074.84 447.85	482.46
33 14 13 13-0355	EA	24" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,914.74 616.37 1,109.47 462.28	495.66
33 14 13 13-0356	EA	24" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,040.96 626.00 1,126.79 469.50	515.46
33 14 13 13-0357	EA	24" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,308.78 648.58 1,167.44 486.43	543.20
33 14 13 13-0358	EA	24" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,656.45 876.55 1,577.79 657.41	588.02
33 14 13 13-0359	EA	24" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,184.87 918.18 1,652.72 688.63	662.03
33 14 13 13-0360	EA	24" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,222.80 1,008.11 1,814.60 756.08	753.53

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0361	EA 30" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,054.29 1,113.56 2,004.40 835.17	606.35
33 14 13	13-0362	EA 30" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,294.28 1,135.35 2,043.64 851.52	620.89
33 14 13	13-0363	EA 30" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,530.27 1,156.95 2,082.52 867.71	634.08
33 14 13	13-0364	EA 30" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,809.65 1,181.89 2,127.40 886.42	653.89
33 14 13	13-0365	EA 30" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,130.49 1,209.77 2,177.59 907.33	681.61
33 14 13	13-0366	EA 30" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,508.67 1,240.80 2,233.44 930.60	726.45
33 14 13	13-0367	EA 30" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,991.92 1,277.91 2,300.24 958.43	800.45
33 14 13	13-0368	EA 30" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,981.14 1,662.97 2,993.35 1,247.23	891.93
33 14 13	13-0369	EA 30" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,676.80 1,911.57 3,440.82 1,433.67	1,030.37
33 14 13	13-0370	EA 36" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,816.75 1,582.07 2,847.73 1,186.55	657.38
33 14 13	13-0371	EA 36" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,054.77 1,603.67 2,886.61 1,202.75	671.91
33 14 13	13-0372	EA 36" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,259.35 1,622.13 2,919.83 1,216.60	685.11



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0373	EA	36" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,505.35 1,643.73 2,958.71 1,232.80	704.92
33 14 13 13-0374	EA	36" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,794.77 1,668.47 3,003.25 1,251.35	732.65
33 14 13 13-0375	EA	36" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,139.57 1,696.16 3,053.08 1,272.12	777.47
33 14 13 13-0376	EA	36" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,591.41 1,730.13 3,114.23 1,297.60	851.48
33 14 13 13-0377	EA	36" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,378.00 1,794.93 3,230.87 1,346.20	942.96
33 14 13 13-0378	EA	36" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,095.10 2,445.66 4,402.20 1,834.25	1,081.38
33 14 13 13-0379	EA	36" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	28,670.12 2,695.43 4,851.78 2,021.58	1,132.46
33 14 13 13-0380	EA	42" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,566.50 2,148.38 3,867.08 1,611.28	714.60
33 14 13 13-0381	EA	42" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,513.92 2,440.12 4,392.21 1,830.09	734.43
33 14 13 13-0382	EA	42" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,080.32 2,192.56 3,946.60 1,644.42	762.15
33 14 13 13-0383	EA	42" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,385.84 2,216.32 3,989.37 1,662.24	806.98
33 14 13 13-0384	EA	42" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,821.98 2,248.72 4,047.69 1,686.54	880.99

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0385	EA 42" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,551.62 2,307.82 4,154.07 1,730.86	972.46
33 14 13	13-0386	EA 42" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,429.74 2,974.66 5,354.38 2,230.99	1,110.89
33 14 13	13-0387	EA 42" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	41,040.33 3,927.99 7,070.37 2,945.99	1,161.92
33 14 13	13-0388	EA 42" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	43,975.44 4,217.03 7,590.65 3,162.77	1,191.43
33 14 13	13-0389	EA 48" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,506.09 2,924.59 5,264.25 2,193.44	831.75
33 14 13	13-0390	EA 48" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,712.83 2,942.26 5,296.06 2,206.69	851.56
33 14 13	13-0391	EA 48" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,990.47 2,965.82 5,338.48 2,224.37	879.28
33 14 13	13-0392	EA 48" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,294.03 2,989.39 5,380.89 2,242.04	924.12
33 14 13	13-0393	EA 48" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,702.66 3,019.04 5,434.26 2,264.28	998.12
33 14 13	13-0394	EA 48" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	32,400.89 3,075.00 5,535.00 2,306.25	1,089.59
33 14 13	13-0395	EA 48" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	34,293.43 3,243.28 5,837.90 2,432.46	1,228.03
33 14 13	13-0396	EA 48" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	42,013.07 4,007.51 7,213.52 3,005.63	1,279.05



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0397	EA	48" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	54,010.21 5,202.76 9,364.96 3,902.07	1,308.56
33 14 13 13-0398	EA	48" x 48" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	57,521.89 5,536.17 9,965.11 4,152.13	1,425.63
33 14 13 13-0399 Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)				
33 14 13 13-0400	EA	4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	189.08 11.39 20.50 8.54	49.61
33 14 13 13-0401	EA	6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	219.90 12.57 22.62 9.43	62.19
33 14 13 13-0402	EA	6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	237.77 13.75 24.74 10.31	66.21
33 14 13 13-0403	EA	8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	301.66 18.85 33.93 14.14	74.62
33 14 13 13-0404	EA	8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	332.37 20.03 36.05 15.02	87.17
33 14 13 13-0405	EA	10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	363.96 24.55 44.18 18.41	78.22
33 14 13 13-0406	EA	10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	395.71 25.92 46.66 19.44	90.10
33 14 13 13-0407	EA	10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	433.25 28.47 51.25 21.35	98.03
33 14 13 13-0408	EA	12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	440.76 31.03 55.85 23.27	86.13
33 14 13 13-0409	EA	12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	490.19 34.17 61.50 25.63	98.03

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0410 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	512.03	105.96
For Cement Mortar Lining (CML), Add	35.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	63.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0411 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	560.94	113.61
For Cement Mortar Lining (CML), Add	38.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	69.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	926.35	111.14
For Cement Mortar Lining (CML), Add	75.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	136.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	899.10	119.08
For Cement Mortar Lining (CML), Add	71.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	129.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0414 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	804.67	126.73
For Cement Mortar Lining (CML), Add	61.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	110.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	846.13	134.66
For Cement Mortar Lining (CML), Add	64.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	115.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0416 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,087.83	129.59
For Cement Mortar Lining (CML), Add	89.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	160.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	66.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0417 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,066.48	137.53
For Cement Mortar Lining (CML), Add	85.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	154.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0418 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,046.67	145.19
For Cement Mortar Lining (CML), Add	82.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	148.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	62.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0419 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,135.25	153.12
For Cement Mortar Lining (CML), Add	90.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	162.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	67.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0420 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,263.12	166.23
For Cement Mortar Lining (CML), Add	101.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	182.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	75.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0421 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,357.01	168.58
For Cement Mortar Lining (CML), Add	110.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	198.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.62	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0422	EA	18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,521.77 125.47 225.85 94.11	176.24
33 14 13 13-0423	EA	18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,467.02 118.80 213.84 89.10	184.17
33 14 13 13-0424	EA	18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,555.62 125.67 226.21 94.25	197.29
33 14 13 13-0425	EA	18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,638.56 131.17 236.10 98.38	215.74
33 14 13 13-0426	EA	20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,915.77 156.70 282.05 117.52	230.22
33 14 13 13-0427	EA	20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,837.05 147.66 265.79 110.75	237.88
33 14 13 13-0428	EA	20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,693.93 132.15 237.87 99.11	245.80
33 14 13 13-0429	EA	20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,703.99 131.17 236.10 98.38	258.92
33 14 13 13-0430	EA	20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,759.45 133.92 241.05 100.44	277.38
33 14 13 13-0431	EA	20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,110.84 164.35 295.84 123.26	308.43
33 14 13 13-0432	EA	24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,490.01 202.45 364.40 151.84	307.25
33 14 13 13-0433	EA	24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,560.94 207.55 373.60 155.66	320.38

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0434 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,616.39	338.83
For Cement Mortar Lining (CML), Add	210.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	378.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	157.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0435 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,571.15	369.87
For Cement Mortar Lining (CML), Add	201.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	361.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0436 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,143.65	431.52
For Cement Mortar Lining (CML), Add	248.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	448.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	186.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0437 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,144.91	382.49
For Cement Mortar Lining (CML), Add	456.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	821.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	342.40	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0438 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,372.60	413.55
For Cement Mortar Lining (CML), Add	474.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	854.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	355.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0439 EA 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,202.87	475.18
For Cement Mortar Lining (CML), Add	448.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	806.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	336.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440 EA 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,081.95	536.64
For Cement Mortar Lining (CML), Add	426.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	768.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	320.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0441 EA 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,717.03	509.38
For Cement Mortar Lining (CML), Add	694.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,250.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	520.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0442 EA 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,378.67	570.82
For Cement Mortar Lining (CML), Add	551.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	992.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	413.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0443 EA 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,927.88	614.48
For Cement Mortar Lining (CML), Add	599.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,079.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	449.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0444 EA 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,038.45	435.80
For Cement Mortar Lining (CML), Add	937.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,688.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	703.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0445 EA 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,999.10	466.84
For Cement Mortar Lining (CML), Add	929.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,672.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	696.88	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI				UNIT COST	UNIT COST
33 14 13 13-0446	EA		42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,061.08	528.48
			For Cement Mortar Lining (CML), Add	926.03	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,666.86	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	694.53	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0447	EA		42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,228.27	589.94
			For Cement Mortar Lining (CML), Add	1,033.44	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,860.20	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	775.08	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0448	EA		42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,256.21	633.60
			For Cement Mortar Lining (CML), Add	829.62	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,493.32	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	622.22	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0449	EA		42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,688.95	667.79
			For Cement Mortar Lining (CML), Add	867.72	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,561.89	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	650.79	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0450	EA		48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,528.75	466.25
			For Cement Mortar Lining (CML), Add	1,282.23	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	2,308.02	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	961.67	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0451	EA		48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,116.32	497.31
			For Cement Mortar Lining (CML), Add	1,236.28	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	2,225.31	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	927.21	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0452	EA		48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,502.81	558.94
			For Cement Mortar Lining (CML), Add	1,165.59	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	2,098.07	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	874.19	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0453	EA		48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,892.41	620.39
			For Cement Mortar Lining (CML), Add	1,195.24	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	2,151.44	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	896.43	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0454	EA		48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	15,407.19	664.05
			For Cement Mortar Lining (CML), Add	1,440.10	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	2,592.19	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,080.08	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0455	EA		48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,493.43	698.25
			For Cement Mortar Lining (CML), Add	1,243.55	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	2,238.39	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	932.66	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0456	EA		48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,814.43	717.36
			For Cement Mortar Lining (CML), Add	1,372.75	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	2,470.96	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,029.56	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0457			Mechanical Joint x Plain End Ductile Iron Offsets (33 14 13 13-0002)		
33 14 13 13-0458	EA		4" Diameter x 6" Mechanical Joint x Plain End Offset, Ductile Iron.....	891.36	184.40
			For Cement Mortar Lining (CML), Add	61.20	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.90	
			Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0459	EA	4" Diameter x 12" Mechanical Joint x Plain End Offset, Ductile Iron.....	915.95	184.40
		For Cement Mortar Lining (CML), Add	63.66	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.74	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0460	EA	6" Diameter x 6" Mechanical Joint x Plain End Offset, Ductile Iron.....	1,102.64	230.50
		For Cement Mortar Lining (CML), Add	75.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.51	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0461	EA	6" Diameter x 12" Mechanical Joint x Plain End Offset, Ductile Iron.....	1,204.05	230.50
		For Cement Mortar Lining (CML), Add	85.48	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.11	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0462	EA	6" Diameter x 18" Mechanical Joint x Plain End Offset, Ductile Iron.....	1,331.37	230.50
		For Cement Mortar Lining (CML), Add	98.21	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.66	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0463	EA	8" Diameter x 6" Mechanical Joint x Plain End Offset, Ductile Iron.....	1,399.44	263.39
		For Cement Mortar Lining (CML), Add	100.03	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	75.02	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0464	EA	8" Diameter x 12" Mechanical Joint x Plain End Offset, Ductile Iron.....	1,654.21	263.39
		For Cement Mortar Lining (CML), Add	125.51	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	94.13	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465	EA	8" Diameter x 18" Mechanical Joint x Plain End Offset, Ductile Iron.....	1,765.38	263.39
		For Cement Mortar Lining (CML), Add	136.63	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	102.47	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0466	EA	10" Diameter x 6" Mechanical Joint x Plain End Offset, Ductile Iron.....	1,831.91	307.33
		For Cement Mortar Lining (CML), Add	136.63	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	102.47	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0467	EA	10" Diameter x 12" Mechanical Joint x Plain End Offset, Ductile Iron.....	2,193.47	307.33
		For Cement Mortar Lining (CML), Add	172.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	129.59	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0468	EA	10" Diameter x 18" Mechanical Joint x Plain End Offset, Ductile Iron.....	2,503.53	307.33
		For Cement Mortar Lining (CML), Add	203.79	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	152.84	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0469	EA	12" Diameter x 6" Mechanical Joint x Plain End Offset, Ductile Iron.....	2,599.55	335.27
		For Cement Mortar Lining (CML), Add	209.16	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	156.87	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470	EA	12" Diameter x 12" Mechanical Joint x Plain End Offset, Ductile Iron.....	2,872.37	335.27
		For Cement Mortar Lining (CML), Add	236.44	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	177.33	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0471	EA	12" Diameter x 18" Mechanical Joint x Plain End Offset, Ductile Iron.....	3,399.99	335.27
		For Cement Mortar Lining (CML), Add	289.20	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	216.90	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472	EA	14" Diameter x 6" Mechanical Joint x Plain End Offset, Ductile Iron.....	4,269.04	368.79
		For Cement Mortar Lining (CML), Add	371.03	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	278.27	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0473	EA	14" Diameter x 12" Mechanical Joint x Plain End Offset, Ductile Iron.....	5,360.29	368.79
		For Cement Mortar Lining (CML), Add	480.15	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	360.11	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0474	EA	14" Diameter x 18" Mechanical Joint x Plain End Offset, Ductile Iron.....	3,150.51	368.79
		For Cement Mortar Lining (CML), Add	259.17	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	194.38	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475	EA	16" Diameter x 6" Mechanical Joint x Plain End Offset, Ductile Iron.....	2,621.51	409.82
		For Cement Mortar Lining (CML), Add	200.06	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.05	
		Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0476 EA 16" Diameter x 12" Mechanical Joint x Plain End Offset, Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,258.07 263.72 197.79	409.82
33 14 13 13-0477 EA 16" Diameter x 18" Mechanical Joint x Plain End Offset, Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,758.23 313.74 235.30	409.82
33 14 13 13-0478 Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)		
33 14 13 13-0479 EA 3" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	209.80 5.11 9.19 3.83	104.77
33 14 13 13-0480 EA 4" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	239.28 5.30 9.54 3.98	122.93
33 14 13 13-0481 EA 6" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	327.08 9.43 16.97 7.07	153.66
33 14 13 13-0482 EA 8" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	423.18 15.71 28.28 11.78	175.63
33 14 13 13-0483 EA 10" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	598.67 19.83 35.70 14.87	264.23
33 14 13 13-0484 EA 12" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	733.24 29.65 53.37 22.24	288.25
33 14 13 13-0485 EA 14" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	930.07 44.97 80.94 33.72	317.08
33 14 13 13-0486 EA 16" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,136.63 60.28 108.51 45.21	352.27
33 14 13 13-0487 EA 18" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,336.87 73.64 132.54 55.23	396.34
33 14 13 13-0488 EA 20" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,638.65 95.24 171.42 71.43	452.91

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0489	EA	24"	Mechanical Joint Ductile Iron Caps	2,108.45	528.46
			For Cement Mortar Lining (CML), Add	130.78	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	235.40	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	98.08	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0490	EA	30"	Mechanical Joint Ductile Iron Caps	3,951.39	634.15
			For Cement Mortar Lining (CML), Add	299.06	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	538.30	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	224.29	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0491	EA	36"	Mechanical Joint Ductile Iron Caps	6,640.21	792.69
			For Cement Mortar Lining (CML), Add	543.92	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	979.05	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	407.94	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0492	EA	42"	Mechanical Joint Ductile Iron Caps	9,690.33	951.22
			For Cement Mortar Lining (CML), Add	824.91	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,484.83	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	618.68	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0493	EA	48"	Mechanical Joint Ductile Iron Caps	11,541.13	1,056.92
			For Cement Mortar Lining (CML), Add	993.97	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,789.15	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	745.48	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0494 Mechanical Joint Ductile Iron Plug (33 14 13 13-0002)					
33 14 13 13-0495	EA	3"	Mechanical Joint Ductile Iron Plug	217.66	104.77
			For Cement Mortar Lining (CML), Add	5.89	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	10.60	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.42	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0496	EA	4"	Mechanical Joint Ductile Iron Plug	251.06	122.93
			For Cement Mortar Lining (CML), Add	6.48	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	11.66	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.86	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0497	EA	6"	Mechanical Joint Ductile Iron Plug	358.50	153.66
			For Cement Mortar Lining (CML), Add	12.57	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	22.62	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.43	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0498	EA	8"	Mechanical Joint Ductile Iron Plug	454.60	175.63
			For Cement Mortar Lining (CML), Add	18.85	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	33.93	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.14	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0499	EA	10"	Mechanical Joint Ductile Iron Plug	726.31	264.23
			For Cement Mortar Lining (CML), Add	32.60	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	58.67	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.45	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0500	EA	12"	Mechanical Joint Ductile Iron Plug	768.59	288.25
			For Cement Mortar Lining (CML), Add	33.19	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	59.73	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.89	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0501	EA	14"	Mechanical Joint Ductile Iron Plug	1,155.89	317.08
			For Cement Mortar Lining (CML), Add	67.55	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	121.59	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.66	
			Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0502	EA	16" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	620.20 8.64 15.55 6.48	352.27
33 14 13 13-0503	EA	18" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,672.65 107.21 192.98 80.41	396.34
33 14 13 13-0504	EA	20" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,096.16 140.99 253.77 105.74	452.91
33 14 13 13-0505	EA	24" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,756.44 195.58 352.04 146.68	528.46
33 14 13 13-0506	EA	30" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,842.87 388.20 698.77 291.15	634.15
33 14 13 13-0507	EA	36" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,197.87 599.68 1,079.43 449.76	792.69
33 14 13 13-0508	EA	42" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,761.02 831.98 1,497.56 623.98	951.22
33 14 13 13-0509	EA	48" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,691.80 1,109.04 1,996.27 831.78	1,056.92
33 14 13 13-0510		Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0002)		
33 14 13 13-0511	EA	3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	368.93 12.76 22.97 9.57	159.25
33 14 13 13-0512	EA	4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	416.84 13.75 24.74 10.31	184.40
33 14 13 13-0513	EA	6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	539.71 19.05 34.28 14.29	230.50
33 14 13 13-0514	EA	8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	687.78 28.87 51.96 21.65	263.39

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0515 EA 10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,103.20	396.34
For Cement Mortar Lining (CML), Add	50.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	90.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0516 EA 12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,299.18	432.37
For Cement Mortar Lining (CML), Add	64.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	115.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0517 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,743.67	475.61
For Cement Mortar Lining (CML), Add	102.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	184.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0518 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,969.03	528.46
For Cement Mortar Lining (CML), Add	116.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	210.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	87.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0519 EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,687.66	594.52
For Cement Mortar Lining (CML), Add	178.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	321.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	134.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0520 EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,158.00	679.43
For Cement Mortar Lining (CML), Add	212.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	383.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	159.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0521 EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,822.45	792.69
For Cement Mortar Lining (CML), Add	262.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	471.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	196.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0522 EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	6,265.82	951.22
For Cement Mortar Lining (CML), Add	482.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	868.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	361.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0523 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	8,715.40	1,189.03
For Cement Mortar Lining (CML), Add	691.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,244.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	518.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0524 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	11,698.23	1,358.85
For Cement Mortar Lining (CML), Add	963.93	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,735.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	722.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0525 EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	14,474.29	1,585.38
For Cement Mortar Lining (CML), Add	1,207.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,173.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	905.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0526 Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)		
33 14 13 13-0527 EA 3" Mechanical Joint Ductile Iron Long Sleeves.....	349.30	159.25
For Cement Mortar Lining (CML), Add	10.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.10	
Note: ANSI/AWWA C151/A21.51		



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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0528	EA	4" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	407.02 12.76 22.97 9.57	184.40
33 14 13 13-0529	EA	6" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	563.27 21.40 38.53 16.05	230.50
33 14 13 13-0530	EA	8" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	750.61 35.15 63.27 26.36	263.39
33 14 13 13-0531	EA	10" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,018.77 41.83 75.29 31.37	396.34
33 14 13 13-0532	EA	12" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,220.64 56.55 101.79 42.41	432.37
33 14 13 13-0533	EA	14" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,574.80 85.42 153.75 64.06	475.61
33 14 13 13-0534	EA	16" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,882.63 108.19 194.75 81.15	528.46
33 14 13 13-0535	EA	18" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,285.12 138.43 249.18 103.83	594.52
33 14 13 13-0536	EA	20" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,700.48 167.10 300.78 125.33	679.43
33 14 13 13-0537	EA	24" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,402.24 220.12 396.22 165.09	792.69
33 14 13 13-0538	EA	30" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,051.78 461.05 829.90 345.79	951.22
33 14 13 13-0539	EA	36" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,275.55 647.40 1,165.32 485.55	1,189.03

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0540 EA 42" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,716.05 865.95 1,558.71 649.46	1,357.30
33 14 13 13-0541 EA 48" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,566.58 1,216.45 2,189.61 912.34	1,585.38
33 14 13 13-0542 Mechanical Joint Ductile Iron Gland Packs (33 14 13 13-0002) Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0543 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0542) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0544 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	39.27	
33 14 13 13-0545 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish bolts with nut.	34.14	
33 14 13 13-0546 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish bolts with nut.	41.25	
33 14 13 13-0547 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish bolts with nut.	48.36	
33 14 13 13-0548 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.	66.85	
33 14 13 13-0549 EA 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.	71.12	
33 14 13 13-0550 EA 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.	116.64	
33 14 13 13-0551 EA 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.	123.75	
33 14 13 13-0552 EA 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.	165.00	
33 14 13 13-0553 EA 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.	213.36	
33 14 13 13-0554 EA 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.	297.28	
33 14 13 13-0555 EA 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish bolts with nut.	709.78	
33 14 13 13-0556 EA 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish bolts with nut.	1,530.50	
33 14 13 13-0557 EA 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with nut.	2,234.59	
33 14 13 13-0558 EA 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish bolts with nut.	2,742.39	
33 14 13 13-0559 Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts (33 14 13 13-0542) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0560 EA 3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	66.76	
33 14 13 13-0561 EA 4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes four (4) 3/4" diameter plain finish bolts with nut.	48.36	
33 14 13 13-0562 EA 6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish bolts with nut.	61.16	
33 14 13 13-0563 EA 8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts..... Note: Includes six (6) 3/4" diameter plain finish bolts with nut.	66.85	
33 14 13 13-0564 EA 10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.	92.46	
33 14 13 13-0565 EA 12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.	96.72	
33 14 13 13-0566 EA 14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.	146.51	
33 14 13 13-0567 EA 16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.	160.73	
33 14 13 13-0568 EA 18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.	213.36	
33 14 13 13-0569 EA 20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.	275.95	
33 14 13 13-0570 EA 24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.	385.47	
33 14 13 13-0571 Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0542) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0572 EA 3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	43.20	
33 14 13 13-0573 EA 4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish bolts with nut.	36.98	



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		Water Utilities	33 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0574 EA 6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	44.09	
Note: Includes six (6) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0575 EA 8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	52.63	
Note: Includes six (6) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0576 EA 10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	72.54	
Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0577 EA 12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	76.81	
Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0578 EA 14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	126.59	
Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0579 EA 16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	133.71	
Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0580 EA 18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	180.64	
Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0581 EA 20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	231.85	
Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0582 EA 24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	324.31	
Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0583 EA 30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	776.63	
Note: Includes twenty (20) 1" diameter plain finish bolts with nut.		
33 14 13 13-0584 EA 36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	1,721.10	
Note: Includes twenty-four (24) 1" diameter plain finish bolts with nut.		
33 14 13 13-0585 EA 42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,492.04	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with nut.		
33 14 13 13-0586 EA 48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	3,066.69	
Note: Includes thirty-two (32) 1-1/4" diameter plain finish bolts with nut.		
33 14 13 13-0587 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe		
(MEGALUG® 1100DEC Series) (33 14 13 13-0002)		
Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-0588 EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	217.43	79.88
33 14 13 13-0589 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	248.06	94.62
33 14 13 13-0590 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	307.72	117.09
33 14 13 13-0591 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	383.86	136.65
33 14 13 13-0592 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	553.01	198.17
33 14 13 13-0593 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	681.98	226.52
33 14 13 13-0594 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	794.35	243.81
33 14 13 13-0595 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	979.30	264.23
33 14 13 13-0596 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	1,256.83	317.08
33 14 13 13-0597 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,483.70	352.15
33 14 13 13-0598 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,927.33	406.32
33 14 13 13-0599 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	3,744.91	487.26
33 14 13 13-0600 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	4,624.49	609.77
33 14 13 13-0601 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	6,827.17	703.57
33 14 13 13-0602 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	8,742.91	904.86
33 14 13 13-0603 Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint		
(FLEX-TEND®) (33 14 13 13-0002)		
33 14 13 13-0604 EA 3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,640.83	65.38
33 14 13 13-0605 EA 4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,832.15	81.72
33 14 13 13-0606 EA 6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	7,011.74	120.77
33 14 13 13-0607 EA 8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	9,529.06	143.26
33 14 13 13-0608 EA 10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	12,010.76	158.17
33 14 13 13-0609 EA 12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	16,020.32	185.56
33 14 13 13-0610 EA 14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	19,735.50	208.08
33 14 13 13-0611 EA 16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	23,348.22	237.81
33 14 13 13-0612 EA 18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	26,321.73	332.93
33 14 13 13-0613 EA 20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	35,411.61	416.16
33 14 13 13-0614 EA 24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	49,067.38	554.88
33 14 13 13-0615 Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM		
Series) (33 14 13 13-0002)		
Note: Includes machined bolts and gasket.		
33 14 13 13-0616 EA 3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	215.87	79.88
33 14 13 13-0617 EA 4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	276.92	94.62
33 14 13 13-0618 EA 6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	357.77	117.09
33 14 13 13-0619 EA 8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	408.39	136.65
33 14 13 13-0620 EA 10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	716.61	209.54
33 14 13 13-0621 EA 12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	811.07	239.52
33 14 13 13-0622 Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100		
Series) (33 14 13 13-0002)		
Note: Includes nuts, bolts and gasket.		
33 14 13 13-0623 EA 3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300).....	313.91	79.88
33 14 13 13-0624 EA 4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	390.35	94.62
33 14 13 13-0625 EA 6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	540.15	117.09

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0626 EA 8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800)	780.28	136.65
33 14 13 13-0627 EA 10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000)	1,130.67	209.54
33 14 13 13-0628 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200)	1,405.37	239.52
33 14 13 13-0629 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400)	2,163.11	257.80
33 14 13 13-0630 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600)	3,029.82	279.39
33 14 13 13-0631 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800)	3,427.34	335.27
33 14 13 13-0632 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000)	3,785.99	372.35
33 14 13 13-0633 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400)	4,579.71	429.63
33 14 13 13-0634 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000)	5,891.28	515.23
33 14 13 13-0635 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600)	8,796.78	644.76
33 14 13 13-0636 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200)	22,926.14	743.94
33 14 13 13-0637 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800)	29,365.17	956.79
33 14 13 13-0638 Mechanical Joint x Restrained Plain End Ductile Iron Flexible Ball Joint (33 14 13 13-0002)		
Note: All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating shall meet ANSI/NSF-61. Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.		
33 14 13 13-0639 EA 4" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	1,314.89	122.93
33 14 13 13-0640 EA 6" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	2,088.97	153.66
33 14 13 13-0641 EA 8" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	2,769.75	175.63
33 14 13 13-0642 EA 10" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	3,825.21	264.23
33 14 13 13-0643 EA 12" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	5,001.84	288.25
33 14 13 13-0644 EA 14" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	5,793.03	317.08
33 14 13 13-0645 EA 16" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	6,439.18	352.27
33 14 13 13-0646 EA 18" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	9,211.69	396.34
33 14 13 13-0647 EA 20" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	9,412.22	452.91
33 14 13 13-0648 EA 24" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	16,444.81	528.46
33 14 13 13-0649 EA 30" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	57,559.37	634.15
33 14 13 13-0650 EA 36" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	81,722.93	792.69
33 14 13 13-0651 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)		
See CSI section 33 14 13 13-0542 for bolts and gaskets.		
33 14 13 13-0652 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0651)		
33 14 13 13-0653 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	487.34	45.60
33 14 13 13-0654 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	583.27	54.61
33 14 13 13-0655 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	905.39	80.01
33 14 13 13-0656 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,238.50	95.24
33 14 13 13-0657 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,699.20	105.70
33 14 13 13-0658 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,154.88	123.71
33 14 13 13-0659 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,065.24	139.32
33 14 13 13-0660 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,719.71	158.53
33 14 13 13-0661 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,493.19	222.20
33 14 13 13-0662 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	5,600.32	277.44
33 14 13 13-0663 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	7,919.41	369.92
33 14 13 13-0664 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	12,690.41	396.34
33 14 13 13-0665 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	18,700.27	411.96
33 14 13 13-0666 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	30,820.65	475.61
33 14 13 13-0667 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	40,323.34	505.64
33 14 13 13-0668 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0651)		
33 14 13 13-0669 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	465.74	45.60
33 14 13 13-0670 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	545.96	54.61
33 14 13 13-0671 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	840.59	80.01
33 14 13 13-0672 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,138.35	95.24
33 14 13 13-0673 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,487.13	105.70
33 14 13 13-0674 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,964.41	123.71
33 14 13 13-0675 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,656.82	139.32
33 14 13 13-0676 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,181.68	158.53
33 14 13 13-0677 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,760.77	222.20
33 14 13 13-0678 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,565.50	277.44
33 14 13 13-0679 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	6,016.68	369.92
33 14 13 13-0680 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	11,086.14	396.34
33 14 13 13-0681 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	15,336.62	411.96
33 14 13 13-0682 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	22,797.38	475.61
33 14 13 13-0683 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	29,189.73	505.64
33 14 13 13-0684 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0651)		
33 14 13 13-0685 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	361.67	45.60
33 14 13 13-0686 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	540.07	54.61
33 14 13 13-0687 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	817.02	80.01



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0688 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,130.50	95.24
33 14 13 13-0689 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,485.17	105.70
33 14 13 13-0690 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,850.52	123.71
33 14 13 13-0691 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,672.52	139.32
33 14 13 13-0692 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,110.99	158.53
33 14 13 13-0693 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,743.10	222.20
33 14 13 13-0694 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,728.48	277.44
33 14 13 13-0695 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	5,887.09	369.92
33 14 13 13-0696 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	9,862.82	396.34
33 14 13 13-0697 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	13,471.20	411.96
33 14 13 13-0698 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	19,284.50	475.61
33 14 13 13-0699 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	24,698.98	505.64
33 14 13 13-0700 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0651)		
33 14 13 13-0701 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	361.67	45.60
33 14 13 13-0702 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	648.07	54.61
33 14 13 13-0703 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	824.88	80.01
33 14 13 13-0704 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,095.15	95.24
33 14 13 13-0705 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,481.24	105.70
33 14 13 13-0706 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,797.50	123.71
33 14 13 13-0707 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,878.70	139.32
33 14 13 13-0708 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,207.21	158.53
33 14 13 13-0709 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,300.76	222.20
33 14 13 13-0710 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,559.61	277.44
33 14 13 13-0711 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	5,889.05	369.92
33 14 13 13-0712 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	9,992.42	396.34
33 14 13 13-0713 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	13,100.08	411.96
33 14 13 13-0714 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	18,754.33	475.61
33 14 13 13-0715 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	24,557.60	505.64
33 14 13 13-0716 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0651)		
33 14 13 13-0717 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	426.47	45.60
33 14 13 13-0718 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	628.43	54.61
33 14 13 13-0719 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	980.00	80.01
33 14 13 13-0720 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,332.75	95.24
33 14 13 13-0721 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,836.65	105.70
33 14 13 13-0722 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,306.07	123.71
33 14 13 13-0723 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	4,151.12	139.32
33 14 13 13-0724 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,482.49	158.53
33 14 13 13-0725 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	7,405.21	222.20
33 14 13 13-0726 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	8,533.94	277.44
33 14 13 13-0727 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	9,223.24	369.92
33 14 13 13-0728 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0651)		
33 14 13 13-0729 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	426.47	45.60
33 14 13 13-0730 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	553.81	54.61
33 14 13 13-0731 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	872.02	80.01
33 14 13 13-0732 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,234.57	95.24
33 14 13 13-0733 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,638.33	105.70
33 14 13 13-0734 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,133.28	123.71
33 14 13 13-0735 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,845.32	139.32
33 14 13 13-0736 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	3,419.28	158.53
33 14 13 13-0737 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	6,403.76	222.20
33 14 13 13-0738 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	6,715.64	277.44

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 13-0739	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	6,988.67	369.92

33 14 13 13-0740 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee
(33 14 13 13-0651)

33 14 13 13-0741	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	600.42	68.40
33 14 13 13-0742	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	654.86	77.11
33 14 13 13-0743	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	691.36	80.01
33 14 13 13-0744	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	986.23	101.42
33 14 13 13-0745	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,069.15	105.40
33 14 13 13-0746	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,127.47	118.11
33 14 13 13-0747	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,312.54	121.91
33 14 13 13-0748	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,419.95	134.62
33 14 13 13-0749	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,562.26	143.50
33 14 13 13-0750	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,763.56	130.91
33 14 13 13-0751	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,759.98	142.92
33 14 13 13-0752	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,907.48	151.33
33 14 13 13-0753	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,058.50	158.53
33 14 13 13-0754	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,123.35	146.53
33 14 13 13-0755	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,141.35	158.53
33 14 13 13-0756	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,316.36	166.94
33 14 13 13-0757	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,671.59	174.15
33 14 13 13-0758	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,677.71	182.56
33 14 13 13-0759	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,035.28	184.96
33 14 13 13-0760	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,284.90	193.37
33 14 13 13-0761	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,989.65	200.58
33 14 13 13-0762	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,211.76	208.98
33 14 13 13-0763	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,899.79	222.20
33 14 13 13-0764	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,631.09	222.20
33 14 13 13-0765	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,827.80	229.40
33 14 13 13-0766	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,595.39	237.81
33 14 13 13-0767	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,308.94	245.02
33 14 13 13-0768	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,626.76	258.23
33 14 13 13-0769	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,087.23	277.44
33 14 13 13-0770	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,767.96	284.65
33 14 13 13-0771	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,029.36	291.85
33 14 13 13-0772	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,361.03	299.06
33 14 13 13-0773	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,667.58	307.47
33 14 13 13-0774	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,822.94	320.68
33 14 13 13-0775	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,222.03	338.70
33 14 13 13-0776	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,946.51	369.92
33 14 13 13-0777	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,475.10	407.15
33 14 13 13-0778	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,567.63	415.56
33 14 13 13-0779	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,121.19	422.76
33 14 13 13-0780	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,423.81	431.17
33 14 13 13-0781	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,486.89	444.38
33 14 13 13-0782	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,402.92	462.40
33 14 13 13-0783	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,193.64	493.63
33 14 13 13-0784	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,975.36	554.88
33 14 13 13-0785	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,643.11	529.66
33 14 13 13-0786	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,706.19	539.26
33 14 13 13-0787	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,827.75	545.28
33 14 13 13-0788	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,008.62	553.68
33 14 13 13-0789	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,976.92	566.90
33 14 13 13-0790	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,321.03	584.91
33 14 13 13-0791	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,249.20	616.14
33 14 13 13-0792	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,578.22	678.58
33 14 13 13-0793	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,915.33	739.84
33 14 13 13-0794	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,653.01	617.34
33 14 13 13-0795	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,091.66	625.75
33 14 13 13-0796	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,725.72	632.95
33 14 13 13-0797	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,362.16	641.35
33 14 13 13-0798	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,265.65	654.57
33 14 13 13-0799	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,240.07	870.75
33 14 13 13-0800	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,173.23	703.81
33 14 13 13-0801	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,150.78	765.07
33 14 13 13-0802	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,740.67	826.31
33 14 13 13-0803	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,606.92	870.75
33 14 13 13-0804	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,021.95	694.20
33 14 13 13-0805	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,459.13	701.41
33 14 13 13-0806	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,234.98	709.81
33 14 13 13-0807	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,783.07	723.02
33 14 13 13-0808	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	15,333.34	741.04
33 14 13 13-0809	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,393.60	772.27
33 14 13 13-0810	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,502.18	833.52
33 14 13 13-0811	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	19,395.91	894.78
33 14 13 13-0812	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	21,912.64	972.84
33 14 13 13-0813	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	25,259.37	972.84
33 14 13 13-0814	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	28,799.97	748.25
33 14 13 13-0815	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,379.47	760.26



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		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0816 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	32,317.49	779.48
33 14 13 13-0817 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,845.47	810.70
33 14 13 13-0818 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,938.86	871.96
33 14 13 13-0819 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	30,532.45	933.21
33 14 13 13-0820 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	31,075.77	977.64
33 14 13 13-0821 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	38,522.49	1,011.28
33 14 13 13-0822 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	40,609.30	1,030.49
33 14 13 13-0823 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,593.11	808.30
33 14 13 13-0824 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	34,196.18	821.51
33 14 13 13-0825 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	35,052.78	840.73
33 14 13 13-0826 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	35,922.57	870.75
33 14 13 13-0827 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,844.61	933.21
33 14 13 13-0828 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	37,047.68	994.46
33 14 13 13-0829 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	39,782.37	1,037.70
33 14 13 13-0830 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	31,966.03	1,072.53
33 14 13 13-0831 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	40,116.44	1,091.75
33 14 13 13-0832 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	53,485.60	1,121.77

33 14 13 13-0833

Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0851)

33 14 13 13-0834 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	673.48	76.44
33 14 13 13-0835 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	742.21	76.44
33 14 13 13-0836 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	872.01	80.01
33 14 13 13-0837 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	960.70	101.42
33 14 13 13-0838 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,073.07	105.40
33 14 13 13-0839 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,314.01	118.11
33 14 13 13-0840 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,730.78	121.91
33 14 13 13-0841 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,592.75	134.62
33 14 13 13-0842 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,792.00	143.50
33 14 13 13-0843 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,547.04	130.91
33 14 13 13-0844 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,651.45	142.92
33 14 13 13-0845 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,967.82	151.33
33 14 13 13-0846 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,240.59	158.53
33 14 13 13-0847 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,111.05	146.53
33 14 13 13-0848 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,529.62	158.53
33 14 13 13-0849 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,181.78	166.94
33 14 13 13-0850 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,183.57	174.15
33 14 13 13-0851 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,855.87	182.56
33 14 13 13-0852 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,590.45	184.96
33 14 13 13-0853 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,281.88	193.37
33 14 13 13-0854 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,972.36	200.58
33 14 13 13-0855 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,479.19	208.98
33 14 13 13-0856 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,283.08	222.20
33 14 13 13-0857 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,772.05	222.20
33 14 13 13-0858 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,274.97	229.40
33 14 13 13-0859 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,270.34	237.81
33 14 13 13-0860 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,468.90	245.02
33 14 13 13-0861 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,024.31	258.23
33 14 13 13-0862 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,581.01	277.44
33 14 13 13-0863 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,770.83	284.65
33 14 13 13-0864 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,307.14	291.85
33 14 13 13-0865 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,825.34	299.06
33 14 13 13-0866 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,387.16	307.47
33 14 13 13-0867 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,469.88	320.68
33 14 13 13-0868 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,562.64	338.70
33 14 13 13-0869 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,743.73	369.92
33 14 13 13-0870 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,953.16	407.15
33 14 13 13-0871 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,128.17	415.56
33 14 13 13-0872 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,964.48	422.76
33 14 13 13-0873 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,793.35	431.17
33 14 13 13-0874 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,881.95	444.38
33 14 13 13-0875 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,984.53	462.40
33 14 13 13-0876 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,614.23	493.63
33 14 13 13-0877 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,906.48	554.88
33 14 13 13-0878 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,629.74	529.66
33 14 13 13-0879 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,753.70	538.07
33 14 13 13-0880 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,919.89	545.28
33 14 13 13-0881 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,448.32	553.68
33 14 13 13-0882 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,296.31	566.90
33 14 13 13-0883 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	14,822.51	584.91
33 14 13 13-0884 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,626.97	616.14
33 14 13 13-0885 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,267.68	678.58
33 14 13 13-0886 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,057.48	739.84
33 14 13 13-0887 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,406.74	617.34
33 14 13 13-0888 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,951.80	625.75
33 14 13 13-0889 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	24,316.32	632.95
33 14 13 13-0890 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	25,683.23	641.35
33 14 13 13-0891 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	27,619.57	654.57
33 14 13 13-0892 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	29,699.49	672.58
33 14 13 13-0893 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	30,433.80	703.81

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0894 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	31,487.40	765.07
33 14 13 13-0895 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	32,964.84	826.31
33 14 13 13-0896 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,756.48	870.75
33 14 13 13-0897 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	39,502.58	709.81
33 14 13 13-0898 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	41,067.82	723.02
33 14 13 13-0899 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	42,621.49	741.04
33 14 13 13-0900 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	45,623.75	772.27
33 14 13 13-0901 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	48,684.15	833.52
33 14 13 13-0902 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	54,035.78	894.78
33 14 13 13-0903 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	60,603.41	939.22
33 14 13 13-0904 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	72,489.84	972.84
33 14 13 13-0905 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	63,769.49	871.96
33 14 13 13-0906 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	65,317.63	933.21
33 14 13 13-0907 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	69,794.03	977.64
33 14 13 13-0908 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	79,932.85	1,011.28
33 14 13 13-0909 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	94,459.07	1,030.49
33 14 13 13-0910 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	62,828.93	933.21
33 14 13 13-0911 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	71,228.07	994.46
33 14 13 13-0912 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	75,938.14	1,037.70
33 14 13 13-0913 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	86,687.63	1,072.53
33 14 13 13-0914 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	113,692.53	1,091.75
33 14 13 13-0915 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	124,905.66	1,121.77
33 14 13 13-0916 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee (33 14 13 13-0651)		
33 14 13 13-0917 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,200.12	118.11
33 14 13 13-0918 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,494.57	134.62
33 14 13 13-0919 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,152.70	142.92
33 14 13 13-0920 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,479.09	158.53
33 14 13 13-0921 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	3,284.66	184.96
33 14 13 13-0922 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	4,002.32	222.20
33 14 13 13-0923 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	4,718.87	284.65
33 14 13 13-0924 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	6,337.12	407.15
33 14 13 13-0925 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	7,388.15	529.66
33 14 13 13-0926 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	13,496.83	617.34
33 14 13 13-0927 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross (33 14 13 13-0651)		
33 14 13 13-0928 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	666.38	91.19
33 14 13 13-0929 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	835.66	99.24
33 14 13 13-0930 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,049.78	100.32
33 14 13 13-0931 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,109.39	124.38
33 14 13 13-0932 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,300.85	134.62
33 14 13 13-0933 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,432.15	167.63
33 14 13 13-0934 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,380.79	147.32
33 14 13 13-0935 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,625.98	180.33
33 14 13 13-0936 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,605.78	193.04
33 14 13 13-0937 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,626.39	153.73
33 14 13 13-0938 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,819.73	184.96
33 14 13 13-0939 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,167.65	196.97
33 14 13 13-0940 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,348.74	211.38
33 14 13 13-0941 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,098.00	166.94
33 14 13 13-0942 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,426.84	198.17
33 14 13 13-0943 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,635.34	210.18
33 14 13 13-0944 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,079.55	224.59
33 14 13 13-0945 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,521.71	237.81
33 14 13 13-0946 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,648.76	217.39
33 14 13 13-0947 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,334.41	229.40
33 14 13 13-0948 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,436.96	245.02
33 14 13 13-0949 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,682.76	257.02
33 14 13 13-0950 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,191.89	277.44
33 14 13 13-0951 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,083.49	246.21
33 14 13 13-0952 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,678.81	257.02
33 14 13 13-0953 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,653.19	272.64
33 14 13 13-0954 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,327.07	285.85
33 14 13 13-0955 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,698.22	305.06
33 14 13 13-0956 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,030.84	332.69
33 14 13 13-0957 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,088.95	290.65
33 14 13 13-0958 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,501.68	302.67



		Utilities	33	CS
		Water Utilities	33 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0959 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,853.59	317.08
33 14 13 13-0960 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,535.31	330.29
33 14 13 13-0961 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,010.53	349.50
33 14 13 13-0962 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,647.52	377.12
33 14 13 13-0963 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,110.13	422.76
33 14 13 13-0964 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,913.35	365.11
33 14 13 13-0965 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,329.99	375.93
33 14 13 13-0966 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,613.19	391.54
33 14 13 13-0967 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,289.02	404.75
33 14 13 13-0968 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,452.55	423.97
33 14 13 13-0969 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,733.06	451.59
33 14 13 13-0970 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,192.67	496.03
33 14 13 13-0971 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	14,230.71	570.49
33 14 13 13-0972 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,213.35	456.40
33 14 13 13-0973 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,496.82	468.41
33 14 13 13-0974 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,977.98	482.82
33 14 13 13-0975 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,392.66	496.03
33 14 13 13-0976 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,619.02	515.25
33 14 13 13-0977 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	14,124.44	542.87
33 14 13 13-0978 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,867.70	588.51
33 14 13 13-0979 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,834.00	661.78
33 14 13 13-0980 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,818.39	753.05
33 14 13 13-0981 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,979.90	606.52
33 14 13 13-0982 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,355.38	620.94
33 14 13 13-0983 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,724.90	634.15
33 14 13 13-0984 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,159.40	653.37
33 14 13 13-0985 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,655.00	682.19
33 14 13 13-0986 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,225.62	726.63
33 14 13 13-0987 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,938.61	799.90
33 14 13 13-0988 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,323.42	892.37
33 14 13 13-0989 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	32,584.43	1,030.49
33 14 13 13-0990 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,656.34	656.97
33 14 13 13-0991 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,027.90	671.38
33 14 13 13-0992 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,348.33	684.60
33 14 13 13-0993 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,727.85	705.01
33 14 13 13-0994 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,170.43	732.64
33 14 13 13-0995 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,688.03	777.07
33 14 13 13-0996 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,351.94	851.54
33 14 13 13-0997 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	30,541.06	942.81
33 14 13 13-0998 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	41,305.14	1,080.93
33 14 13 13-0999 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	45,433.36	1,132.58
33 14 13 13-1000 EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	35,926.83	714.62
33 14 13 13-1001 EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	36,673.55	733.84
33 14 13 13-1002 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,102.39	762.66
33 14 13 13-1003 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,694.60	807.10
33 14 13 13-1004 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	38,764.97	881.57
33 14 13 13-1005 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	41,049.79	972.84
33 14 13 13-1006 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,928.81	1,110.96
33 14 13 13-1007 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	65,469.48	1,161.40
33 14 13 13-1008 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	70,201.30	1,191.43
33 14 13 13-1009 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	48,694.92	832.32
33 14 13 13-1010 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,011.62	851.54
33 14 13 13-1011 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,434.57	879.16
33 14 13 13-1012 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,885.39	923.60
33 14 13 13-1013 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	50,478.60	998.07
33 14 13 13-1014 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	51,524.39	1,089.34
33 14 13 13-1015 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	54,463.53	1,227.46
33 14 13 13-1016 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	66,937.05	1,279.10
33 14 13 13-1017 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	86,366.41	1,309.13
33 14 13 13-1018 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	91,951.65	1,425.63

33 14 13 13-1019 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x
Mechanical Joint Ductile Iron Reducers (33 14 13 13-0651)

33 14 13 13-1020 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	477.73	49.61
33 14 13 13-1021 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	669.56	62.19
33 14 13 13-1022 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	736.53	66.04
33 14 13 13-1023 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	969.28	74.93
33 14 13 13-1024 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,005.88	87.63
33 14 13 13-1025 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,188.67	78.06
33 14 13 13-1026 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,242.02	90.08
33 14 13 13-1027 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,291.35	98.49

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1028	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,375.43	86.47	
33 14 13 13-1029	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,521.08	98.49	
33 14 13 13-1030	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,544.89	105.70	
33 14 13 13-1031	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,613.43	114.09	
33 14 13 13-1032	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,389.23	111.70	
33 14 13 13-1033	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,401.25	118.91	
33 14 13 13-1034	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,084.94	127.31	
33 14 13 13-1035	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,126.39	134.52	
33 14 13 13-1036	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,864.89	129.71	
33 14 13 13-1037	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,776.78	138.12	
33 14 13 13-1038	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,603.80	145.32	
33 14 13 13-1039	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,570.64	152.53	
33 14 13 13-1040	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,908.62	165.74	
33 14 13 13-1041	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,108.54	168.15	
33 14 13 13-1042	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,508.93	176.55	
33 14 13 13-1043	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,348.15	183.76	
33 14 13 13-1044	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,008.16	196.97	
33 14 13 13-1045	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,500.06	216.18	
33 14 13 13-1046	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,138.57	230.60	
33 14 13 13-1047	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,169.80	237.81	
33 14 13 13-1048	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,781.24	246.21	
33 14 13 13-1049	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,775.59	259.43	
33 14 13 13-1050	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,677.88	277.44	
33 14 13 13-1051	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,355.24	308.67	
33 14 13 13-1052	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,209.60	307.47	
33 14 13 13-1053	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,284.45	320.68	
33 14 13 13-1054	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,375.24	338.70	
33 14 13 13-1055	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,284.84	369.92	
33 14 13 13-1056	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	6,094.95	431.17	
33 14 13 13-1057	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,545.34	381.93	
33 14 13 13-1058	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,947.79	413.16	
33 14 13 13-1059	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,565.99	475.61	
33 14 13 13-1060	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	8,076.44	536.87	
33 14 13 13-1061	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	12,588.72	509.24	
33 14 13 13-1062	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	11,678.43	570.49	
33 14 13 13-1063	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	12,467.20	614.93	
33 14 13 13-1064	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	18,699.89	435.97	
33 14 13 13-1065	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	18,581.99	467.20	
33 14 13 13-1066	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	18,614.52	528.46	
33 14 13 13-1067	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	19,334.01	589.71	
33 14 13 13-1068	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	15,763.58	634.15	
33 14 13 13-1069	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	16,494.79	667.78	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1070	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	23,586.31	466.00
33 14 13 13-1071	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	22,812.57	497.23
33 14 13 13-1072	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	21,645.33	558.49
33 14 13 13-1073	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	22,266.64	620.94
33 14 13 13-1074	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	26,701.82	664.17
33 14 13 13-1075	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	23,062.05	697.81
33 14 13 13-1076	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	25,376.63	717.02
33 14 13 13-1077 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps (33 14 13 13-0651)				
33 14 13 13-1078	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	427.76	104.77
33 14 13 13-1079	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	516.14	123.19
33 14 13 13-1080	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	759.07	153.66
33 14 13 13-1081	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,022.08	175.25
33 14 13 13-1082	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,352.70	264.23
33 14 13 13-1083	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,713.08	288.25
33 14 13 13-1084	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,949.18	317.08
33 14 13 13-1085	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,377.62	351.91
33 14 13 13-1086	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,787.97	396.34
33 14 13 13-1087	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	3,366.61	452.79
33 14 13 13-1088	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	4,325.35	528.46
33 14 13 13-1089	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	7,902.16	634.15
33 14 13 13-1090	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	12,994.42	792.69
33 14 13 13-1091	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	18,760.20	951.22
33 14 13 13-1092	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	22,350.75	1,056.92
33 14 13 13-1093 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug (33 14 13 13-0651)				
33 14 13 13-1094	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	429.73	104.77
33 14 13 13-1095	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	535.78	123.19
33 14 13 13-1096	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	810.13	153.66
33 14 13 13-1097	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,073.13	175.25
33 14 13 13-1098	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,645.27	264.23
33 14 13 13-1099	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,779.84	288.25
33 14 13 13-1100	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,375.28	317.08
33 14 13 13-1101	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,870.48	351.91
33 14 13 13-1102	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,418.29	396.34
33 14 13 13-1103	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	4,218.82	452.79
33 14 13 13-1104	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	5,538.86	528.46
33 14 13 13-1105	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	9,579.07	634.15
33 14 13 13-1106	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	14,037.09	792.69
33 14 13 13-1107	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	18,891.76	951.22
33 14 13 13-1108	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	25,141.03	1,056.92
33 14 13 13-1109 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0651)				
33 14 13 13-1110	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	581.00	159.25
33 14 13 13-1111	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	772.25	184.15
33 14 13 13-1112	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,065.95	231.13
33 14 13 13-1113	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,406.46	262.89
33 14 13 13-1114	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,069.29	396.34
33 14 13 13-1115	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,477.34	432.37
33 14 13 13-1116	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,253.67	475.61
33 14 13 13-1117	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,695.04	528.46
33 14 13 13-1118	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	4,863.32	594.52
33 14 13 13-1119	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	5,641.96	679.79
33 14 13 13-1120	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	6,834.61	792.69
33 14 13 13-1121	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	10,797.80	951.22

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1122	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	14,704.38	1,189.03
33 14 13 13-1123	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	20,047.47	1,358.38
33 14 13 13-1124	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	24,932.43	1,585.38
33 14 13 13-1125 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0651)				
33 14 13 13-1126	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	604.57	159.25
33 14 13 13-1127	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	742.80	184.15
33 14 13 13-1128	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,099.34	231.13
33 14 13 13-1129	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,496.78	262.89
33 14 13 13-1130	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,943.62	396.34
33 14 13 13-1131	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,359.52	432.37
33 14 13 13-1132	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,002.33	475.61
33 14 13 13-1133	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,561.51	528.46
33 14 13 13-1134	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,258.54	594.52
33 14 13 13-1135	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,960.59	679.79
33 14 13 13-1136	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	6,210.18	792.69
33 14 13 13-1137	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	10,473.81	951.22
33 14 13 13-1138	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	13,622.43	1,189.03
33 14 13 13-1139	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	17,763.41	1,357.18
33 14 13 13-1140	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	26,454.22	1,585.38
33 14 13 13-1141 Push-On Joint Ductile Iron Piping And Gaskets (33 14 13 13-0001)				
33 14 13 13-1142 Push-On Joint Ductile Iron Pipe (33 14 13 13-1141)				
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.				
33 14 13 13-1143	LF	4", Class 50, Push-On Joint Ductile Iron Pipe	38.05	10.48
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	15.53	
		For Cement Mortar Lining (CML), Add	2.22	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	11.98	
		For Fusion Bonded Epoxy Lining (206N), Add	3.99	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.66	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	10.54	
		For >1,000, Deduct	-1.90	
		For Class 51, Add	3.22	
		For Class 52, Add	6.94	
		For Class 53, Add	12.48	
		For Class 54, Add	17.79	
		For Class 55, Add	20.48	
		For Class 56, Add	23.12	
33 14 13 13-1144	LF	6", Class 50, Push-On Joint Ductile Iron Pipe	41.74	11.56
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.04	
		For Cement Mortar Lining (CML), Add	2.43	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	13.14	
		For Fusion Bonded Epoxy Lining (206N), Add	4.38	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.83	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	11.56	
		For >1,000, Deduct	-2.09	
		For Class 51, Add	3.54	
		For Class 52, Add	7.62	
		For Class 53, Add	13.70	
		For Class 54, Add	19.52	
		For Class 55, Add	22.47	
		For Class 56, Add	25.37	
33 14 13 13-1145	LF	8", Class 50, Push-On Joint Ductile Iron Pipe	52.32	12.70
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.29	
		For Cement Mortar Lining (CML), Add	3.33	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	17.97	
		For Fusion Bonded Epoxy Lining (206N), Add	5.99	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.50	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	15.80	
		For >1,000, Deduct	-2.62	
		For Class 51, Add	4.77	
		For Class 52, Add	10.29	
		For Class 53, Add	18.54	
		For Class 54, Add	26.45	
		For Class 55, Add	30.42	
		For Class 56, Add	34.32	



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		Water Utilities	33 10	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1146	LF	10", Class 50, Push-On Joint Ductile Iron Pipe.....	73.96	17.90
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	28.16	
		For Cement Mortar Lining (CML), Add	4.69	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	23.47	
		For Fusion Bonded Epoxy Lining (206N), Add	8.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.52	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	22.30	
		For >1,000, Deduct	-3.70	
		For Class 51, Add	6.74	
		For Class 52, Add	14.53	
		For Class 53, Add	26.17	
		For Class 54, Add	37.33	
		For Class 55, Add	42.93	
		For Class 56, Add	48.43	
33 14 13 13-1147	LF	12", Class 50, Push-On Joint Ductile Iron Pipe.....	85.99	19.81
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	27.98	
		For Cement Mortar Lining (CML), Add	5.60	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	22.38	
		For Fusion Bonded Epoxy Lining (206N), Add	10.07	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.20	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	26.58	
		For >1,000, Deduct	-4.30	
		For Class 51, Add	8.00	
		For Class 52, Add	17.26	
		For Class 53, Add	31.12	
		For Class 54, Add	44.39	
		For Class 55, Add	51.04	
		For Class 56, Add	57.57	
33 14 13 13-1148	LF	14", Class 50, Push-On Joint Ductile Iron Pipe.....	105.08	22.34
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.39	
		For Cement Mortar Lining (CML), Add	7.13	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	24.25	
		For Fusion Bonded Epoxy Lining (206N), Add	12.84	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.35	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	33.88	
		For >1,000, Deduct	-5.25	
		For Class 51, Add	10.14	
		For Class 52, Add	21.89	
		For Class 53, Add	39.49	
		For Class 54, Add	56.35	
		For Class 55, Add	64.77	
		For Class 56, Add	73.04	
33 14 13 13-1149	LF	16", Class 50, Push-On Joint Ductile Iron Pipe.....	124.68	25.47
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	35.31	
		For Cement Mortar Lining (CML), Add	8.61	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	26.70	
		For Fusion Bonded Epoxy Lining (206N), Add	15.50	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.46	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	40.91	
		For >1,000, Deduct	-6.23	
		For Class 51, Add	12.22	
		For Class 52, Add	26.38	
		For Class 53, Add	47.60	
		For Class 54, Add	67.93	
		For Class 55, Add	78.07	
		For Class 56, Add	88.02	
33 14 13 13-1150	LF	18", Class 50, Push-On Joint Ductile Iron Pipe.....	145.06	29.79
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	41.01	
		For Cement Mortar Lining (CML), Add	10.00	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	31.01	
		For Fusion Bonded Epoxy Lining (206N), Add	18.00	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.50	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	47.51	
		For >1,000, Deduct	-7.25	
		For Class 51, Add	14.20	
		For Class 52, Add	30.64	
		For Class 53, Add	55.29	
		For Class 54, Add	78.91	
		For Class 55, Add	90.68	
		For Class 56, Add	102.25	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1151	LF		20", Class 50, Push-On Joint Ductile Iron Pipe.....	167.19	35.67
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	42.99	
			For Cement Mortar Lining (CML), Add	11.31	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	31.68	
			For Fusion Bonded Epoxy Lining (206N), Add	20.37	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.49	
			Note: ANSI/AWWA C151/A21.51		
			For Restrained Joint Pipe, Add	53.74	
			For >1,000, Deduct	-8.36	
			For Class 51, Add	16.10	
			For Class 52, Add	34.74	
			For Class 53, Add	62.66	
			For Class 54, Add	89.41	
			For Class 55, Add	102.77	
			For Class 56, Add	115.89	
33 14 13 13-1152	LF		24", Class 50, Push-On Joint Ductile Iron Pipe.....	211.57	44.56
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	44.62	
			For Cement Mortar Lining (CML), Add	14.40	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	30.23	
			For Fusion Bonded Epoxy Lining (206N), Add	25.91	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.80	
			Note: ANSI/AWWA C151/A21.51		
			For Restrained Joint Pipe, Add	68.38	
			For >1,000, Deduct	-10.58	
			For Class 51, Add	20.47	
			For Class 52, Add	44.17	
			For Class 53, Add	79.68	
			For Class 54, Add	113.70	
			For Class 55, Add	130.69	
			For Class 56, Add	147.37	
33 14 13 13-1153	LF		30", Class 50, Push-On Joint Ductile Iron Pipe.....	251.23	47.57
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	55.54	
			For Cement Mortar Lining (CML), Add	17.92	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	32.25	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.44	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-12.56	
			For Class 51, Add	25.32	
			For Class 52, Add	54.67	
			For Class 53, Add	98.72	
			For Class 54, Add	140.92	
			For Class 55, Add	161.90	
			For Class 56, Add	182.51	
33 14 13 13-1154	LF		36", Class 50, Push-On Joint Ductile Iron Pipe.....	312.49	50.56
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	73.12	
			For Cement Mortar Lining (CML), Add	23.59	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	42.45	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.69	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-15.62	
			For Class 51, Add	33.11	
			For Class 52, Add	71.52	
			For Class 53, Add	129.27	
			For Class 54, Add	184.59	
			For Class 55, Add	211.99	
			For Class 56, Add	238.89	
33 14 13 13-1155	LF		42", Class 50, Push-On Joint Ductile Iron Pipe.....	381.83	53.57
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	93.24	
			For Cement Mortar Lining (CML), Add	30.08	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	54.14	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.56	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-19.09	
			For Class 51, Add	42.01	
			For Class 52, Add	90.78	
			For Class 53, Add	164.22	
			For Class 54, Add	234.56	
			For Class 55, Add	269.28	
			For Class 56, Add	303.38	



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1156	LF	48", Class 50, Push-On Joint Ductile Iron Pipe.....	460.57	56.45
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	116.23	
		For Cement Mortar Lining (CML), Add	37.49	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	67.49	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.12	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-23.03	
		For Class 51, Add	52.17	
		For Class 52, Add	112.79	
		For Class 53, Add	204.14	
		For Class 54, Add	291.64	
		For Class 55, Add	334.74	
		For Class 56, Add	377.05	
33 14 13 13-1157	LF	54", Class 50, Push-On Joint Ductile Iron Pipe.....	585.35	59.45
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	153.53	
		For Cement Mortar Lining (CML), Add	49.53	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	89.15	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.15	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-29.27	
		For Class 51, Add	68.63	
		For Class 52, Add	148.41	
		For Class 53, Add	268.79	
		For Class 54, Add	384.08	
		For Class 55, Add	440.72	
		For Class 56, Add	496.33	
33 14 13 13-1158 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1141)				
33 14 13 13-1159	EA	4" 90 Degree Elbow, Push-On Joint Ductile Iron	299.59	40.89
		For Cement Mortar Lining (CML), Add	23.76	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	42.77	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.82	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	142.57	
33 14 13 13-1160	EA	6" 90 Degree Elbow, Push-On Joint Ductile Iron	433.98	60.32
		For Cement Mortar Lining (CML), Add	34.25	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	61.66	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.69	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	205.52	
33 14 13 13-1161	EA	8" 90 Degree Elbow, Push-On Joint Ductile Iron	583.71	71.63
		For Cement Mortar Lining (CML), Add	47.51	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	85.52	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.63	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	285.08	
33 14 13 13-1162	EA	10" 90 Degree Elbow, Push-On Joint Ductile Iron	881.74	79.03
		For Cement Mortar Lining (CML), Add	71.83	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	129.29	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.87	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	430.97	
33 14 13 13-1163	EA	12" 90 Degree Elbow, Push-On Joint Ductile Iron	1,141.94	92.72
		For Cement Mortar Lining (CML), Add	95.03	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	171.06	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.27	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	570.19	
33 14 13 13-1164	EA	14" 90 Degree Elbow, Push-On Joint Ductile Iron	2,299.21	104.01
		For Cement Mortar Lining (CML), Add	208.42	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	375.15	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	156.31	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	1,250.50	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1165	EA	16" 90 Degree Elbow, Push-On Joint Ductile Iron	2,598.58	118.91
		For Cement Mortar Lining (CML), Add	235.29	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	423.53	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	176.47	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	1,411.75	
33 14 13 13-1166	EA	18" 90 Degree Elbow, Push-On Joint Ductile Iron	4,057.04	166.46
		For Cement Mortar Lining (CML), Add	371.31	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	668.36	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	278.48	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	2,227.87	
33 14 13 13-1167	EA	20" 90 Degree Elbow, Push-On Joint Ductile Iron	4,555.62	209.82
		For Cement Mortar Lining (CML), Add	413.60	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	744.49	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	310.20	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	2,481.62	
33 14 13 13-1168	EA	24" 90 Degree Elbow, Push-On Joint Ductile Iron	5,688.25	262.31
		For Cement Mortar Lining (CML), Add	516.38	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	929.48	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	387.28	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	3,098.26	
33 14 13 13-1169 Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1141)				
33 14 13 13-1170	EA	4" 45 Degree Elbow, Push-On Joint Ductile Iron	245.55	40.89
		For Cement Mortar Lining (CML), Add	18.36	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	33.04	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.77	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	110.15	
33 14 13 13-1171	EA	6" 45 Degree Elbow, Push-On Joint Ductile Iron	361.32	60.32
		For Cement Mortar Lining (CML), Add	26.99	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	48.58	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.24	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	161.93	
33 14 13 13-1172	EA	8" 45 Degree Elbow, Push-On Joint Ductile Iron	505.54	71.63
		For Cement Mortar Lining (CML), Add	39.70	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	71.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.77	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	238.18	
33 14 13 13-1173	EA	10" 45 Degree Elbow, Push-On Joint Ductile Iron	773.82	79.03
		For Cement Mortar Lining (CML), Add	61.04	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	109.87	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.78	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	366.22	
33 14 13 13-1174	EA	12" 45 Degree Elbow, Push-On Joint Ductile Iron	1,004.41	92.72
		For Cement Mortar Lining (CML), Add	81.28	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	146.30	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.96	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	487.67	
33 14 13 13-1175	EA	14" 45 Degree Elbow, Push-On Joint Ductile Iron	1,440.48	104.01
		For Cement Mortar Lining (CML), Add	122.54	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	220.58	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.91	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	735.26	



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1176	EA		16" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	2,148.94 190.33 342.59 142.75 1,141.96	118.91
33 14 13 13-1177	EA		18" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	2,457.43 211.35 380.43 158.51 1,268.10	166.46
33 14 13 13-1178	EA		20" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	3,460.43 304.08 547.35 228.06 1,824.50	209.82
33 14 13 13-1179	EA		24" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	4,293.35 376.89 678.39 282.66 2,261.32	262.31
33 14 13 13-1180 Push-On Joint Ductile Iron Tee (33 14 13 13-1141)					
33 14 13 13-1181	EA		4" Tee, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	458.86 36.74 66.14 27.56 220.45	60.32
33 14 13 13-1182	EA		6" Tee, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	637.12 50.28 90.50 37.71 301.66	88.64
33 14 13 13-1183	EA		8" Tee, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	875.69 71.28 128.30 53.46 427.65	107.44
33 14 13 13-1184	EA		10" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	1,301.71 112.16 201.88 84.12 672.94	120.11
33 14 13 13-1185	EA		12" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	1,624.56 141.44 254.59 106.08 848.63	138.48
33 14 13 13-1186	EA		14" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	2,638.05 238.58 429.45 178.94 1,431.50	166.46

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1187	EA	16" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	3,825.45 351.02 631.83 263.26 2,106.11	208.14
33 14 13 13-1188	EA	18" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	4,802.07 438.13 788.64 328.60 2,628.80	277.68
33 14 13 13-1189	EA	20" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	5,654.43 514.11 925.40 385.58 3,084.66	338.82
33 14 13 13-1190	EA	24" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	7,413.62 677.20 1,218.97 507.90 4,063.22	423.49
33 14 13 13-1191		Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1141)		
33 14 13 13-1192	EA	4" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	466.35 25.14 45.26 18.86	141.86
33 14 13 13-1193	EA	6" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	570.85 30.48 54.86 22.86	175.63
33 14 13 13-1194	EA	8" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	748.53 43.81 78.86 32.86	204.84
33 14 13 13-1195	EA	10" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,021.82 57.14 102.86 42.86	297.25
33 14 13 13-1196	EA	12" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,238.55 72.38 130.29 54.29	339.78
33 14 13 13-1197	EA	14" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,430.53 87.62 157.72 65.72	365.84
33 14 13 13-1198	EA	16" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,705.29 110.48 198.86 82.86	396.34



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST		
33 14 13 13-1199	EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,015.87 129.52 233.14 97.14		475.61	
33 14 13 13-1200	EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,343.56 154.29 277.72 115.72		528.46	
33 14 13 13-1201	EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,942.94 201.91 363.43 151.43		609.77	
33 14 13 13-1202	EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,732.29 362.36 652.26 271.77		731.67	
33 14 13 13-1203	EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,556.14 517.03 930.66 387.77		914.59	
33 14 13 13-1204	EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,296.28 669.49 1,205.08 502.12		1,056.92	
33 14 13 13-1205	EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,587.73 852.88 1,535.19 639.66		1,358.85	
33 14 13 13-1206	EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,869.85 1,046.71 1,884.08 785.03		1,585.73	
33 14 13 13-1207	Push-On Joint Ductile Iron Pipe And Fitting Restraints (33 14 13 13-1141) Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.				
33 14 13 13-1208	EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	59.23		22.08	
33 14 13 13-1209	EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	77.24		28.82	
33 14 13 13-1210	EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	100.39		29.39	
33 14 13 13-1211	EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	119.40		31.22	
33 14 13 13-1212	EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	142.48		34.67	
33 14 13 13-1213	EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	180.79		39.01	
33 14 13 13-1214	EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	213.56		44.58	
33 14 13 13-1215	EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	241.08		48.31	
33 14 13 13-1216	EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	280.81		57.97	
33 14 13 13-1217	EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	339.34		60.20	
33 14 13 13-1218	EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	437.38		66.89	
33 14 13 13-1219	EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	573.90		72.44	
33 14 13 13-1220	EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	710.83		79.27	
33 14 13 13-1221	EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	839.64		89.17	
33 14 13 13-1222	EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	1,166.02		96.71	
33 14 13 13-1223	Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) (33 14 13 13-1141)				
33 14 13 13-1224	EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400).....	255.36		81.07	
33 14 13 13-1225	EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600).....	336.53		98.96	
33 14 13 13-1226	EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800).....	432.97		120.71	
33 14 13 13-1227	EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000).....	650.84		147.25	
33 14 13 13-1228	EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200).....	807.12		179.55	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1229 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400).....	1,387.11	219.07
33 14 13 13-1230 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600).....	1,584.42	267.35
33 14 13 13-1231 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800).....	1,799.75	326.08
33 14 13 13-1232 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000).....	2,444.31	397.91
33 14 13 13-1233 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400).....	3,116.55	485.34
33 14 13 13-1234 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000).....	5,367.39	592.23
33 14 13 13-1235 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600).....	7,610.00	722.42
33 14 13 13-1236 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200).....	13,803.16	881.45
33 14 13 13-1237 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800).....	17,853.93	1,075.29
33 14 13 13-1238 Ductile Iron Pipe Repair (33 14 13 13-0001) See CSI section 33 14 13 13-0002 for mechanical joint fittings.		
33 14 13 13-1239 Ductile Iron Pipe Repair (33 14 13 13-1238) Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.		
33 14 13 13-1240 EA 30" Diameter Mechanical Ductile Iron Push Joint.....	4,450.27	
33 14 13 13-1241 EA 36" Diameter Mechanical Ductile Iron Push Joint.....	5,686.48	
33 14 13 13-1242 EA 42" Diameter Mechanical Ductile Iron Push Joint.....	7,302.25	
33 14 13 13-1243 EA 48" Diameter Mechanical Ductile Iron Push Joint.....	9,196.34	
33 14 13 13-1244 EA 54" Diameter Mechanical Ductile Iron Push Joint.....	13,437.46	
33 14 13 13-1245 WEKO Seals (33 14 13 13-1238) Note: Internal joint seal.		
33 14 13 13-1246 EA 16" WEKO Internal Joint Seal.....	2,617.51	210.93
For Extra Wide Seals, Add	85.98	
33 14 13 13-1247 EA 18" WEKO Internal Joint Seal.....	2,789.77	222.72
For Extra Wide Seals, Add	86.88	
33 14 13 13-1248 EA 20" WEKO Internal Joint Seal.....	2,961.83	234.52
For Extra Wide Seals, Add	87.77	
33 14 13 13-1249 EA 24" WEKO Internal Joint Seal.....	3,135.07	253.28
For Extra Wide Seals, Add	89.19	
33 14 13 13-1250 EA 30" WEKO Internal Joint Seal.....	3,230.02	272.03
For Extra Wide Seals, Add	90.61	
33 14 13 13-1251 EA 36" WEKO Internal Joint Seal.....	3,382.95	295.49
For Extra Wide Seals, Add	92.39	
33 14 13 13-1252 EA 42" WEKO Internal Joint Seal.....	3,601.72	323.63
For Extra Wide Seals, Add	94.52	
33 14 13 13-1253 EA 48" WEKO Internal Joint Seal.....	3,891.63	347.08
For Extra Wide Seals, Add	96.29	
33 14 13 13-1254 EA 54" WEKO Internal Joint Seal.....	4,033.56	365.84
For Extra Wide Seals, Add	97.72	
33 14 13 13-1255 EA 60" WEKO Internal Joint Seal.....	4,197.53	393.99
For Extra Wide Seals, Add	99.85	
33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13) Note: Includes detectable tracer wire.		
33 14 13 23-0001 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23)		
33 14 13 23-0002 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0001)		
33 14 13 23-0003 LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	2.58	0.91
For >1,000, Deduct	-0.13	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.05	
33 14 13 23-0004 LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	2.86	0.98
For >1,000, Deduct	-0.14	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.06	
33 14 13 23-0005 LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	3.31	1.07
For >1,000, Deduct	-0.17	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.10	
33 14 13 23-0006 LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	3.83	1.18
For >1,000, Deduct	-0.19	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.13	
33 14 13 23-0007 LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	4.93	1.32
For >1,000, Deduct	-0.25	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.24	
33 14 13 23-0008 LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	6.33	1.50
For >1,000, Deduct	-0.32	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.39	
33 14 13 23-0009 LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	7.83	1.72
For >1,000, Deduct	-0.39	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.53	
33 14 13 23-0010 LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	11.06	2.13
For >1,000, Deduct	-0.55	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.86	
33 14 13 23-0011 LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	19.28	2.70
For >1,000, Deduct	-0.96	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.88	
33 14 13 23-0012 LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	30.17	3.58
For >1,000, Deduct	-1.51	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	3.18	



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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0013	LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	44.98 -2.25 4.95	4.78
33 14 13 23-0014	LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	62.60 -3.13 6.98	6.44
33 14 13 23-0015	Class 200, SDR 21 Polyvinyl Chloride (PVC), 90 Degree Elbows (33 14 13 23-0001)		
33 14 13 23-0016	EA 3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	27.66	10.92
33 14 13 23-0017	EA 1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	34.95	13.65
33 14 13 23-0018	EA 1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	44.01	17.07
33 14 13 23-0019	EA 1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	65.50	18.89
33 14 13 23-0020	EA 2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	70.96	21.17
33 14 13 23-0021	EA 2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	83.88	24.01
33 14 13 23-0022	EA 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	95.90	27.68
33 14 13 23-0023	EA 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	132.39	33.98
33 14 13 23-0024	EA 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	189.69	43.18
33 14 13 23-0025	EA 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	304.98	56.68
33 14 13 23-0026	EA 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	376.03	75.83
33 14 13 23-0027	EA 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	497.38	102.07
33 14 13 23-0028	Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbows (33 14 13 23-0001)		
33 14 13 23-0029	EA 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	28.15	10.92
33 14 13 23-0030	EA 1" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	35.30	13.65
33 14 13 23-0031	EA 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	44.22	17.07
33 14 13 23-0032	EA 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	59.08	18.89
33 14 13 23-0033	EA 2" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	71.55	21.17
33 14 13 23-0034	EA 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	86.30	24.01
33 14 13 23-0035	EA 3" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	94.87	27.68
33 14 13 23-0036	EA 4" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	130.18	33.98
33 14 13 23-0037	EA 6" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	185.23	43.18
33 14 13 23-0038	EA 8" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	296.50	56.68
33 14 13 23-0039	EA 10" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	340.87	75.83
33 14 13 23-0040	EA 12" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	448.73	102.07
33 14 13 23-0041	Class 200, SDR 21 Polyvinyl Chloride (PVC), Tees Or Wyes (33 14 13 23-0001)		
33 14 13 23-0042	EA 3/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye.....	41.45	16.38
33 14 13 23-0043	EA 1" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye.....	52.32	20.59
33 14 13 23-0044	EA 1-1/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	65.58	25.71
33 14 13 23-0045	EA 1-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	90.36	28.45
33 14 13 23-0046	EA 2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye.....	102.78	31.63
33 14 13 23-0047	EA 2-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	119.56	36.08
33 14 13 23-0048	EA 3" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye.....	146.56	41.40
33 14 13 23-0049	EA 4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye.....	192.03	51.03
33 14 13 23-0050	EA 6" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye.....	315.25	64.87
33 14 13 23-0051	EA 8" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye.....	470.53	85.03
33 14 13 23-0052	EA 10" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye.....	547.30	114.82
33 14 13 23-0053	EA 12" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye.....	685.06	154.51
33 14 13 23-0054	Class 200, SDR 21 Polyvinyl Chloride (PVC), Couplings (33 14 13 23-0001)		
33 14 13 23-0055	EA 3/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	18.52	7.29
33 14 13 23-0056	EA 1" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	25.00	9.79
33 14 13 23-0057	EA 1-1/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	33.35	12.86
33 14 13 23-0058	EA 1-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	46.19	14.23
33 14 13 23-0059	EA 2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	50.96	15.82
33 14 13 23-0060	EA 2-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	57.96	17.98
33 14 13 23-0061	EA 3" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	67.93	20.70
33 14 13 23-0062	EA 4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	92.79	25.46
33 14 13 23-0063	EA 6" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	132.03	32.44
33 14 13 23-0064	EA 8" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	222.47	42.51
33 14 13 23-0065	EA 10" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	259.85	57.47
33 14 13 23-0066	EA 12" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling.....	331.40	77.25
33 14 13 23-0067	Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0068	Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0067)		
33 14 13 23-0069	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	2.83 -0.14 0.08	0.91
33 14 13 23-0070	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	3.33 -0.17 0.13	0.98
33 14 13 23-0071	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe <i>For >1,000, Deduct</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	4.27 -0.21 0.20	1.18

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0072	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe <i>For >1,000, Deduct</i>	5.09 -0.25	1.32
		<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.27	
33 14 13 23-0073	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe <i>For >1,000, Deduct</i>	6.59 -0.33	1.50
		<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.43	
33 14 13 23-0074	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Pipe <i>For >1,000, Deduct</i>	8.00 -0.40	1.72
		<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.55	
33 14 13 23-0075	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Pipe <i>For >1,000, Deduct</i>	10.61 -0.53	2.13
		<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.80	
33 14 13 23-0076	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Pipe <i>For >1,000, Deduct</i>	16.01 -0.80	2.70
		<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	1.39	
33 14 13 23-0077		Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows (33 14 13 23-0067)		
33 14 13 23-0078	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	27.84	10.92
33 14 13 23-0079	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	35.06	13.65
33 14 13 23-0080	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	48.74	18.89
33 14 13 23-0081	EA	2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	55.04	21.17
33 14 13 23-0082	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	66.00	24.01
33 14 13 23-0083	EA	3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	76.34	27.68
33 14 13 23-0084	EA	4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	99.65	33.98
33 14 13 23-0085	EA	6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	154.63	43.18
33 14 13 23-0086		Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows (33 14 13 23-0067)		
33 14 13 23-0087	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	27.79	10.92
33 14 13 23-0088	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	35.01	13.65
33 14 13 23-0089	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	48.76	18.89
33 14 13 23-0090	EA	2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	54.87	21.17
33 14 13 23-0091	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	65.55	24.01
33 14 13 23-0092	EA	3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	75.80	27.68
33 14 13 23-0093	EA	4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	98.56	33.98
33 14 13 23-0094	EA	6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	151.18	43.18
33 14 13 23-0095		Schedule 40 Polyvinyl Chloride (PVC) Tees Or Wyes (33 14 13 23-0067)		
33 14 13 23-0096	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	41.64	16.38
33 14 13 23-0097	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	52.46	20.59
33 14 13 23-0098	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	72.90	28.45
33 14 13 23-0099	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	81.96	31.63
33 14 13 23-0100	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	99.27	36.08
33 14 13 23-0101	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	116.69	41.40
33 14 13 23-0102	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	145.05	51.03
33 14 13 23-0103	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	235.25	64.87
33 14 13 23-0104		Schedule 40 Polyvinyl Chloride (PVC) Couplings (33 14 13 23-0067)		
33 14 13 23-0105	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Coupling	18.60	7.29
33 14 13 23-0106	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Coupling	25.07	9.79
33 14 13 23-0107	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Coupling	36.34	14.23
33 14 13 23-0108	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Coupling	40.97	15.82
33 14 13 23-0109	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Coupling	48.04	17.98
33 14 13 23-0110	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Coupling	56.44	20.70
33 14 13 23-0111	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Coupling	69.90	25.46
33 14 13 23-0112	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Coupling	102.27	32.44
33 14 13 23-0113		Schedule 40 Polyvinyl Chloride (PVC) Crosses (33 14 13 23-0067)		
33 14 13 23-0114	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Cross	55.67	21.85
33 14 13 23-0115	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Cross	69.85	27.42
33 14 13 23-0116	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Cross	97.19	37.89
33 14 13 23-0117	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Cross	109.28	42.22
33 14 13 23-0118	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Cross	132.30	48.02
33 14 13 23-0119	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Cross	155.51	55.24
33 14 13 23-0120	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Cross	193.30	67.97
33 14 13 23-0121	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Cross	313.23	86.46
33 14 13 23-0122		Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0123		Schedule 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0122)		
33 14 13 23-0124	LF	1" Schedule 80 Polyvinyl Chloride (PVC) Pipe <i>For >1,000, Deduct</i>	3.60 -0.18	0.98
		<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.17	
33 14 13 23-0125	LF	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe <i>For >1,000, Deduct</i>	4.81 -0.24	1.18
		<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.28	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0126 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 33 14 13 23-0127 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 33 14 13 23-0128 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 33 14 13 23-0129 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 33 14 13 23-0130 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe For >1,000, Deduct For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	6.00 -0.30 0.41 7.77 -0.39 0.60 9.65 -0.48 0.80 13.14 -0.66 1.17 21.65 -1.08 2.23	1.32 1.50 1.72 2.13 2.70
33 14 13 23-0131 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows (33 14 13 23-0122)		
33 14 13 23-0132 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow 33 14 13 23-0133 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow 33 14 13 23-0134 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow 33 14 13 23-0135 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow 33 14 13 23-0136 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow 33 14 13 23-0137 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow 33 14 13 23-0138 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	36.46 48.74 56.45 68.98 79.10 100.31 151.47	13.65 18.89 21.17 24.01 27.68 33.98 43.18
33 14 13 23-0139 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (33 14 13 23-0122)		
33 14 13 23-0140 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow 33 14 13 23-0141 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow 33 14 13 23-0142 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow 33 14 13 23-0143 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow 33 14 13 23-0144 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow 33 14 13 23-0145 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow 33 14 13 23-0146 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	42.21 54.28 61.77 78.97 92.11 126.46 149.72	13.65 18.89 21.17 24.01 27.68 33.98 43.18
33 14 13 23-0147 Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes (33 14 13 23-0122)		
33 14 13 23-0148 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes 33 14 13 23-0149 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes 33 14 13 23-0150 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes 33 14 13 23-0151 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes 33 14 13 23-0152 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes 33 14 13 23-0153 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes 33 14 13 23-0154 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	55.40 81.84 92.61 104.91 122.09 148.94 235.11	20.59 28.45 31.63 36.08 41.40 51.03 64.87
33 14 13 23-0155 Schedule 80 Polyvinyl Chloride (PVC) Couplings (33 14 13 23-0122)		
33 14 13 23-0156 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Coupling 33 14 13 23-0157 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling 33 14 13 23-0158 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Coupling 33 14 13 23-0159 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling 33 14 13 23-0160 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Coupling 33 14 13 23-0161 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Coupling 33 14 13 23-0162 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Coupling	27.17 39.95 44.37 56.77 65.23 80.59 117.20	9.79 14.23 15.82 17.98 20.70 25.46 32.44
33 14 13 23-0163 Schedule 80 Polyvinyl Chloride (PVC) Crosses (33 14 13 23-0122)		
33 14 13 23-0164 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Cross 33 14 13 23-0165 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross 33 14 13 23-0166 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Cross 33 14 13 23-0167 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross 33 14 13 23-0168 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Cross 33 14 13 23-0169 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Cross 33 14 13 23-0170 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Cross	73.76 109.06 123.42 139.79 162.68 198.47 313.05	27.42 37.89 42.22 48.02 55.24 67.97 86.46
33 14 13 23-0171 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23)		
Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0172 AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0173 LF 4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe 33 14 13 23-0174 LF 6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe 33 14 13 23-0175 LF 8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe 33 14 13 23-0176 LF 10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe 33 14 13 23-0177 LF 12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	12.02 17.40 23.78 31.23 40.36	4.29 5.21 5.86 6.51 7.29
33 14 13 23-0178 AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0179 LF 4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe 33 14 13 23-0180 LF 6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	13.25 19.96	4.29 5.21

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0181	LF	8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	28.08	5.86
33 14 13 23-0182	LF	10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	37.92	6.51
33 14 13 23-0183	LF	12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	49.70	7.29
33 14 13 23-0184		AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0185	LF	4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	14.46	4.29
33 14 13 23-0186	LF	6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	22.50	5.21
33 14 13 23-0187	LF	8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	32.38	5.86
33 14 13 23-0188	LF	10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	44.46	6.51
33 14 13 23-0189	LF	12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	59.04	7.29
33 14 13 23-0190		AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0191	LF	18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	63.32	10.92
33 14 13 23-0192	LF	20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	77.18	13.01
33 14 13 23-0193	LF	24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	103.48	15.61
33 14 13 23-0194	LF	30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	149.36	18.21
33 14 13 23-0195	LF	36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	206.03	20.81
33 14 13 23-0196	LF	42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	260.92	22.12
33 14 13 23-0197	LF	48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	330.32	23.80
33 14 13 23-0198		AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0199	LF	14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	46.75	8.19
33 14 13 23-0200	LF	16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	58.60	9.10
33 14 13 23-0201	LF	18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	72.67	10.92
33 14 13 23-0202	LF	20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	89.32	13.01
33 14 13 23-0203	LF	24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	122.20	15.61
33 14 13 23-0204	LF	30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	176.21	18.21
33 14 13 23-0205	LF	36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	241.98	20.81
33 14 13 23-0206	LF	42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	320.71	22.12
33 14 13 23-0207	LF	48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	407.90	23.80
33 14 13 23-0208		AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0209	LF	14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	53.94	8.19
33 14 13 23-0210	LF	16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	68.59	9.10
33 14 13 23-0211	LF	18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	85.07	10.92
33 14 13 23-0212	LF	20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	105.41	13.01
33 14 13 23-0213	LF	24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	145.30	15.61
33 14 13 23-0214	LF	30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	210.92	18.21
33 14 13 23-0215	LF	36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	292.65	20.81
33 14 13 23-0216	LF	42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	380.74	22.12
33 14 13 23-0217	LF	48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	486.23	23.80
33 14 13 23-0218		AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0219	LF	14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	66.24	8.19
33 14 13 23-0220	LF	16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	83.19	9.10
33 14 13 23-0221	LF	18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	103.87	10.92
33 14 13 23-0222	LF	20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	128.12	13.01
33 14 13 23-0223	LF	24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	178.05	15.61
33 14 13 23-0224	LF	30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	262.31	18.21
33 14 13 23-0225	LF	36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	371.66	20.81
33 14 13 23-0226	LF	42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	496.60	22.12
33 14 13 23-0227	LF	48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	641.71	23.80
33 14 13 23-0228		AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0229	LF	14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	75.48	8.19
33 14 13 23-0230	LF	16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	95.21	9.10
33 14 13 23-0231	LF	18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	119.04	10.92
33 14 13 23-0232	LF	20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	147.00	13.01
33 14 13 23-0233	LF	24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	205.21	15.61
33 14 13 23-0234	LF	30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	304.10	18.21
33 14 13 23-0235	LF	36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	432.71	20.81
33 14 13 23-0236	LF	42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	580.28	22.12
33 14 13 23-0237		AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0238	LF	14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	84.48	8.19
33 14 13 23-0239	LF	16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	106.91	9.10
33 14 13 23-0240	LF	18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	133.77	10.92
33 14 13 23-0241	LF	20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	165.38	13.01
33 14 13 23-0242	LF	24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	231.64	15.61
33 14 13 23-0243	LF	30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	344.76	18.21
33 14 13 23-0244	LF	36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	492.12	20.81



Utilities			33	CS
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR		DESCRIPTION	TOTAL DIRECT		DEMOLITION
CSI	UOM		UNIT COST		
33 14 13 23-0245		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings (33 14 13 23)			
		Note: Includes rubber gaskets.			
33 14 13 23-0246		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbows (33 14 13 23-0245)			
33 14 13 23-0247	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	217.44		13.65
		For DR 25, Deduct	-11.41		
33 14 13 23-0248	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	445.76		15.36
		For DR 25, Deduct	-24.90		
33 14 13 23-0249	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	669.84		17.07
		For DR 25, Deduct	-38.14		
33 14 13 23-0250	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	1,022.32		26.83
		For DR 25, Deduct	-58.12		
33 14 13 23-0251	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	1,329.76		44.72
		For DR 25, Deduct	-74.42		
33 14 13 23-0252	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	1,997.76		55.90
		For DR 25, Deduct	-113.16		
33 14 13 23-0253	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	2,384.05		67.08
		For DR 25, Deduct	-134.99		
33 14 13 23-0254	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	4,092.71		89.44
		For DR 25, Deduct	-234.83		
33 14 13 23-0255	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	5,038.15		111.80
		For DR 25, Deduct	-288.87		
33 14 13 23-0256	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	8,365.66		150.93
		For DR 25, Deduct	-483.83		
33 14 13 23-0257		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbows (33 14 13 23-0245)			
33 14 13 23-0258	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	192.62		13.65
		For DR 25, Deduct	-9.92		
33 14 13 23-0259	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	333.17		15.36
		For DR 25, Deduct	-18.15		
33 14 13 23-0260	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	422.31		17.07
		For DR 25, Deduct	-23.29		
33 14 13 23-0261	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	596.62		26.83
		For DR 25, Deduct	-32.58		
33 14 13 23-0262	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	797.07		44.72
		For DR 25, Deduct	-42.46		
33 14 13 23-0263	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	1,534.39		55.90
		For DR 25, Deduct	-85.35		
33 14 13 23-0264	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	1,945.08		67.08
		For DR 25, Deduct	-108.65		
33 14 13 23-0265	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	3,358.78		89.44
		For DR 25, Deduct	-190.79		
33 14 13 23-0266	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	4,171.71		111.80
		For DR 25, Deduct	-236.89		
33 14 13 23-0267	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	5,887.57		150.93
		For DR 25, Deduct	-335.14		
33 14 13 23-0268		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbows (33 14 13 23-0245)			
33 14 13 23-0269	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	189.60		13.65
		For DR 25, Deduct	-9.74		
33 14 13 23-0270	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	333.17		15.36
		For DR 25, Deduct	-18.15		
33 14 13 23-0271	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	422.31		17.07
		For DR 25, Deduct	-23.29		
33 14 13 23-0272	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	596.63		26.83
		For DR 25, Deduct	-32.58		
33 14 13 23-0273	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	797.07		44.72
		For DR 25, Deduct	-42.46		
33 14 13 23-0274	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	1,529.90		53.66
		For DR 25, Deduct	-85.35		
33 14 13 23-0275	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	1,945.05		67.08
		For DR 25, Deduct	-108.65		
33 14 13 23-0276	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	3,358.78		89.44
		For DR 25, Deduct	-190.79		
33 14 13 23-0277	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	4,171.71		111.80
		For DR 25, Deduct	-236.89		
33 14 13 23-0278	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	5,887.57		150.93
		For DR 25, Deduct	-335.14		
33 14 13 23-0279		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbows (33 14 13 23-0245)			
33 14 13 23-0280	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	167.37		13.65
		For DR 25, Deduct	-8.40		
33 14 13 23-0281	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	333.17		15.36
		For DR 25, Deduct	-18.15		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0282	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	422.31	17.07
		<i>For DR 25, Deduct</i>	-23.29	
33 14 13 23-0283	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	596.63	26.83
		<i>For DR 25, Deduct</i>	-32.58	
33 14 13 23-0284	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	797.07	44.72
		<i>For DR 25, Deduct</i>	-42.46	
33 14 13 23-0285	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	1,529.90	53.66
		<i>For DR 25, Deduct</i>	-85.35	
33 14 13 23-0286	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	1,945.05	67.08
		<i>For DR 25, Deduct</i>	-108.65	
33 14 13 23-0287	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	3,358.78	89.44
		<i>For DR 25, Deduct</i>	-190.79	
33 14 13 23-0288	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	4,171.71	111.80
		<i>For DR 25, Deduct</i>	-236.89	
33 14 13 23-0289	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	5,887.57	150.93
		<i>For DR 25, Deduct</i>	-335.14	
33 14 13 23-0290 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tees Or Wyes				
		(33 14 13 23-0245)		
33 14 13 23-0291	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	258.47	15.36
		<i>For DR 25, Deduct</i>	-13.67	
33 14 13 23-0292	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	499.73	17.07
		<i>For DR 25, Deduct</i>	-27.94	
33 14 13 23-0293	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	697.53	19.35
		<i>For DR 25, Deduct</i>	-39.53	
33 14 13 23-0294	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	1,437.76	33.54
		<i>For DR 25, Deduct</i>	-82.24	
33 14 13 23-0295	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	1,753.18	67.08
		<i>For DR 25, Deduct</i>	-97.14	
33 14 13 23-0296	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	3,168.71	83.85
		<i>For DR 25, Deduct</i>	-180.06	
33 14 13 23-0297	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	3,924.98	100.62
		<i>For DR 25, Deduct</i>	-223.42	
33 14 13 23-0298	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee	4,951.93	134.16
		<i>For DR 25, Deduct</i>	-281.02	
33 14 13 23-0299	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee	5,946.23	167.70
		<i>For DR 25, Deduct</i>	-336.65	
33 14 13 23-0300	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee	8,165.51	114.03
		<i>For DR 25, Deduct</i>	-476.25	
33 14 13 23-0301 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tees Or Wyes				
		(33 14 13 23-0245)		
33 14 13 23-0302	EA	6" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	497.36	22.19
		<i>For DR 25, Deduct</i>	-27.18	
33 14 13 23-0303	EA	8" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	676.79	23.89
		<i>For DR 25, Deduct</i>	-37.74	
33 14 13 23-0304	EA	8" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	693.73	24.75
		<i>For DR 25, Deduct</i>	-38.65	
33 14 13 23-0305	EA	10" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	899.45	33.54
		<i>For DR 25, Deduct</i>	-49.94	
33 14 13 23-0306	EA	10" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	1,218.86	34.38
		<i>For DR 25, Deduct</i>	-69.01	
33 14 13 23-0307	EA	10" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	1,304.01	35.21
		<i>For DR 25, Deduct</i>	-74.01	
33 14 13 23-0308	EA	12" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	1,381.58	51.43
		<i>For DR 25, Deduct</i>	-76.72	
33 14 13 23-0309	EA	12" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	1,586.36	52.27
		<i>For DR 25, Deduct</i>	-88.91	
33 14 13 23-0310	EA	12" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	1,683.10	53.10
		<i>For DR 25, Deduct</i>	-94.61	
33 14 13 23-0311	EA	12" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	1,714.55	58.13
		<i>For DR 25, Deduct</i>	-95.90	
33 14 13 23-0312	EA	14" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	2,605.68	60.37
		<i>For DR 25, Deduct</i>	-149.10	
33 14 13 23-0313	EA	14" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	2,710.58	61.21
		<i>For DR 25, Deduct</i>	-155.29	
33 14 13 23-0314	EA	14" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	2,815.76	62.05
		<i>For DR 25, Deduct</i>	-161.50	
33 14 13 23-0315	EA	14" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	2,928.71	67.08
		<i>For DR 25, Deduct</i>	-167.67	
33 14 13 23-0316	EA	14" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,049.88	76.02
		<i>For DR 25, Deduct</i>	-173.87	
33 14 13 23-0317	EA	16" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,251.89	73.79
		<i>For DR 25, Deduct</i>	-186.26	
33 14 13 23-0318	EA	16" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,355.09	73.79
		<i>For DR 25, Deduct</i>	-192.45	
33 14 13 23-0319	EA	16" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,460.02	74.62
		<i>For DR 25, Deduct</i>	-198.65	
33 14 13 23-0320	EA	16" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,564.94	75.47
		<i>For DR 25, Deduct</i>	-204.84	
33 14 13 23-0321	EA	16" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye	3,696.09	89.44
		<i>For DR 25, Deduct</i>	-211.03	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 23-0322	EA	16" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	3,808.26	93.91
		For DR 25, Deduct	-217.23	
33 14 13 23-0323	EA	18" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	4,018.49	96.14
		For DR 25, Deduct	-229.57	
33 14 13 23-0324	EA	18" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	4,124.12	96.99
		For DR 25, Deduct	-235.81	
33 14 13 23-0325	EA	18" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	4,229.03	97.83
		For DR 25, Deduct	-242.00	
33 14 13 23-0326	EA	18" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	4,342.32	102.86
		For DR 25, Deduct	-248.20	
33 14 13 23-0327	EA	18" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	4,463.40	111.80
		For DR 25, Deduct	-254.39	
33 14 13 23-0328	EA	18" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	4,574.88	116.27
		For DR 25, Deduct	-260.54	
33 14 13 23-0329	EA	18" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	4,716.47	122.98
		For DR 25, Deduct	-268.23	
33 14 13 23-0330	EA	20" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	5,096.90	118.51
		For DR 25, Deduct	-291.59	
33 14 13 23-0331	EA	20" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	5,274.86	119.35
		For DR 25, Deduct	-302.17	
33 14 13 23-0332	EA	20" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	5,344.87	120.18
		For DR 25, Deduct	-306.27	
33 14 13 23-0333	EA	20" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	5,423.35	125.22
		For DR 25, Deduct	-310.38	
33 14 13 23-0334	EA	20" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	5,509.61	134.16
		For DR 25, Deduct	-314.48	
33 14 13 23-0335	EA	20" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	5,629.37	138.64
		For DR 25, Deduct	-321.13	
33 14 13 23-0336	EA	20" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	5,753.65	145.34
		For DR 25, Deduct	-327.78	
33 14 13 23-0337	EA	20" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	5,849.93	156.52
		For DR 25, Deduct	-332.21	
33 14 13 23-0338	EA	24" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	6,000.01	157.64
		For DR 25, Deduct	-341.08	
33 14 13 23-0339	EA	24" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	6,075.65	158.48
		For DR 25, Deduct	-345.52	
33 14 13 23-0340	EA	24" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	6,151.27	159.31
		For DR 25, Deduct	-349.96	
33 14 13 23-0341	EA	24" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	6,462.01	164.34
		For DR 25, Deduct	-368.00	
33 14 13 23-0342	EA	24" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	6,780.56	173.29
		For DR 25, Deduct	-386.04	
33 14 13 23-0343	EA	24" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	7,090.20	177.76
		For DR 25, Deduct	-404.08	
33 14 13 23-0344	EA	24" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	7,404.30	184.47
		For DR 25, Deduct	-422.12	
33 14 13 23-0345	EA	24" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	7,727.35	195.65
		For DR 25, Deduct	-440.16	
33 14 13 23-0346	EA	24" x 20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye.....	8,050.39	206.83
		For DR 25, Deduct	-458.20	
33 14 13 23-0347		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross (33 14 13 23-0245)		
33 14 13 23-0348	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross.....	358.28	27.31
		For DR 25, Deduct	-18.22	
33 14 13 23-0349	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross.....	644.23	30.72
		For DR 25, Deduct	-34.97	
33 14 13 23-0350	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross.....	892.24	34.13
		For DR 25, Deduct	-49.44	
33 14 13 23-0351	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross.....	1,819.97	53.66
		For DR 25, Deduct	-102.76	
33 14 13 23-0352	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross.....	2,158.36	67.08
		For DR 25, Deduct	-121.45	
33 14 13 23-0353	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross.....	3,930.36	89.44
		For DR 25, Deduct	-225.09	
33 14 13 23-0354	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross.....	4,877.52	111.80
		For DR 25, Deduct	-279.25	
33 14 13 23-0355	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross.....	6,213.16	178.88
		For DR 25, Deduct	-351.32	
33 14 13 23-0356	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross.....	7,460.85	223.60
		For DR 25, Deduct	-420.82	
33 14 13 23-0357	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross.....	10,524.91	301.86
		For DR 25, Deduct	-595.27	
33 14 13 23-0358		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross (33 14 13 23-0245)		
33 14 13 23-0359	EA	6" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	624.72	29.01
		For DR 25, Deduct	-34.00	
33 14 13 23-0360	EA	8" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	848.67	30.72
		For DR 25, Deduct	-47.23	
33 14 13 23-0361	EA	8" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	870.32	32.43
		For DR 25, Deduct	-48.33	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0362	EA	10" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	1,304.72	40.25
		<i>For DR 25, Deduct</i>	-73.45	
33 14 13 23-0363	EA	10" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	1,521.68	41.93
		<i>For DR 25, Deduct</i>	-86.27	
33 14 13 23-0364	EA	10" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	1,671.78	43.60
		<i>For DR 25, Deduct</i>	-95.07	
33 14 13 23-0365	EA	12" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	1,715.20	58.13
		<i>For DR 25, Deduct</i>	-95.94	
33 14 13 23-0366	EA	12" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	1,971.83	59.81
		<i>For DR 25, Deduct</i>	-111.13	
33 14 13 23-0367	EA	12" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	2,094.04	61.49
		<i>For DR 25, Deduct</i>	-118.26	
33 14 13 23-0368	EA	12" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	2,140.79	71.55
		<i>For DR 25, Deduct</i>	-119.86	
33 14 13 23-0369	EA	14" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	3,240.31	67.08
		<i>For DR 25, Deduct</i>	-186.37	
33 14 13 23-0370	EA	14" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	3,372.32	68.75
		<i>For DR 25, Deduct</i>	-194.09	
33 14 13 23-0371	EA	14" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	3,505.75	70.43
		<i>For DR 25, Deduct</i>	-201.89	
33 14 13 23-0372	EA	14" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	3,655.40	80.49
		<i>For DR 25, Deduct</i>	-209.66	
33 14 13 23-0373	EA	14" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	3,819.73	98.38
		<i>For DR 25, Deduct</i>	-217.38	
33 14 13 23-0374	EA	16" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	4,040.76	80.49
		<i>For DR 25, Deduct</i>	-232.79	
33 14 13 23-0375	EA	16" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	4,174.51	82.17
		<i>For DR 25, Deduct</i>	-240.61	
33 14 13 23-0376	EA	16" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	4,306.83	83.85
		<i>For DR 25, Deduct</i>	-248.35	
33 14 13 23-0377	EA	16" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	4,456.37	93.91
		<i>For DR 25, Deduct</i>	-256.11	
33 14 13 23-0378	EA	16" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	4,528.80	111.80
		<i>For DR 25, Deduct</i>	-258.31	
33 14 13 23-0379	EA	16" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	4,767.42	120.75
		<i>For DR 25, Deduct</i>	-271.56	
33 14 13 23-0380	EA	18" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	4,989.09	102.86
		<i>For DR 25, Deduct</i>	-287.00	
33 14 13 23-0381	EA	18" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	5,122.53	104.53
		<i>For DR 25, Deduct</i>	-294.81	
33 14 13 23-0382	EA	18" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	5,255.05	106.21
		<i>For DR 25, Deduct</i>	-302.56	
33 14 13 23-0383	EA	18" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	5,402.66	116.27
		<i>For DR 25, Deduct</i>	-310.21	
33 14 13 23-0384	EA	18" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	5,568.52	134.16
		<i>For DR 25, Deduct</i>	-318.01	
33 14 13 23-0385	EA	18" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	5,714.97	143.10
		<i>For DR 25, Deduct</i>	-325.73	
33 14 13 23-0386	EA	18" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	5,901.79	156.52
		<i>For DR 25, Deduct</i>	-335.33	
33 14 13 23-0387	EA	20" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	6,325.91	125.22
		<i>For DR 25, Deduct</i>	-364.53	
33 14 13 23-0388	EA	20" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	6,549.23	126.90
		<i>For DR 25, Deduct</i>	-377.73	
33 14 13 23-0389	EA	20" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	6,638.65	128.57
		<i>For DR 25, Deduct</i>	-382.89	
33 14 13 23-0390	EA	20" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	6,743.91	138.64
		<i>For DR 25, Deduct</i>	-388.00	
33 14 13 23-0391	EA	20" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	6,864.84	156.52
		<i>For DR 25, Deduct</i>	-393.11	
33 14 13 23-0392	EA	20" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	7,020.30	165.46
		<i>For DR 25, Deduct</i>	-401.36	
33 14 13 23-0393	EA	20" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	7,187.48	178.88
		<i>For DR 25, Deduct</i>	-409.78	
33 14 13 23-0394	EA	20" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	7,324.35	201.24
		<i>For DR 25, Deduct</i>	-415.31	
33 14 13 23-0395	EA	24" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	7,393.58	164.34
		<i>For DR 25, Deduct</i>	-423.89	
33 14 13 23-0396	EA	24" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	7,530.86	166.03
		<i>For DR 25, Deduct</i>	-431.93	
33 14 13 23-0397	EA	24" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	7,627.03	167.70
		<i>For DR 25, Deduct</i>	-437.50	
33 14 13 23-0398	EA	24" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	8,022.58	177.76
		<i>For DR 25, Deduct</i>	-460.02	
33 14 13 23-0399	EA	24" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	8,433.90	195.65
		<i>For DR 25, Deduct</i>	-482.56	
33 14 13 23-0400	EA	24" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	8,827.27	204.59
		<i>For DR 25, Deduct</i>	-505.08	
33 14 13 23-0401	EA	24" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	9,231.19	218.01
		<i>For DR 25, Deduct</i>	-527.71	
33 14 13 23-0402	EA	24" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	9,650.58	240.37
		<i>For DR 25, Deduct</i>	-550.19	
33 14 13 23-0403	EA	24" x 20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross.....	10,071.59	262.73
		<i>For DR 25, Deduct</i>	-572.77	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 14 13 23-0404		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Couplings (33 14 13 23-0245)			
33 14 13 23-0405	EA	4"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	129.71	13.65
	For DR 25, Deduct			-6.14	
33 14 13 23-0406	EA	6"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	242.08	15.36
	For DR 25, Deduct			-12.68	
33 14 13 23-0407	EA	8"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	291.43	17.07
	For DR 25, Deduct			-15.44	
33 14 13 23-0408	EA	10"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	413.58	26.83
	For DR 25, Deduct			-21.59	
33 14 13 23-0409	EA	12"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	658.45	33.54
	For DR 25, Deduct			-35.48	
33 14 13 23-0410	EA	14"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	1,143.25	44.72
	For DR 25, Deduct			-63.23	
33 14 13 23-0411	EA	16"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	1,354.12	55.90
	For DR 25, Deduct			-74.54	
33 14 13 23-0412	EA	18"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	3,244.56	89.44
	For DR 25, Deduct			-183.94	
33 14 13 23-0413	EA	20"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	3,636.66	111.80
	For DR 25, Deduct			-204.78	
33 14 13 23-0414	EA	24"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling	5,120.90	150.93
	For DR 25, Deduct			-289.14	
33 14 13 23-0415		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter (33 14 13 23-0245)			
33 14 13 23-0416	EA	4"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	160.89	13.65
	For DR 25, Deduct			-8.01	
33 14 13 23-0417	EA	6"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	218.68	15.36
	For DR 25, Deduct			-11.28	
33 14 13 23-0418	EA	8"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	318.08	17.07
	For DR 25, Deduct			-17.04	
33 14 13 23-0419	EA	10"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	434.36	26.83
	For DR 25, Deduct			-22.84	
33 14 13 23-0420	EA	12"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	695.97	44.72
	For DR 25, Deduct			-36.39	
33 14 13 23-0421	EA	14"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	1,851.46	53.66
	For DR 25, Deduct			-104.65	
33 14 13 23-0422	EA	16"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	2,506.59	67.08
	For DR 25, Deduct			-142.35	
33 14 13 23-0423	EA	18"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	3,088.05	89.44
	For DR 25, Deduct			-174.55	
33 14 13 23-0424	EA	20"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	3,689.07	111.80
	For DR 25, Deduct			-207.93	
33 14 13 23-0425	EA	24"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	5,011.54	150.93
	For DR 25, Deduct			-282.58	
33 14 13 23-0426		AWWA C906, High-Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)			
Note: ASTM D3350 pipe, ASTM D2657 heat fusion.					
33 14 13 23-0427		High-Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0426)			
33 14 13 23-0428	LF	3"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	8.61	3.38
	For SDR 19, Add			0.16	
	For SDR 17, Add			0.40	
	For SDR 15.5, Add			0.58	
	For SDR 13.5, Add			0.90	
	For SDR 11, Add			1.46	
33 14 13 23-0429	LF	4"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	11.95	4.29
	For SDR 26, Deduct			-0.62	
	For SDR 19, Add			0.30	
	For SDR 17, Add			0.75	
	For SDR 15.5, Add			1.10	
	For SDR 13.5, Add			1.71	
	For SDR 11, Add			2.75	
33 14 13 23-0430	LF	6"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	17.68	5.21
	For SDR 26, Deduct			-1.33	
	For SDR 19, Add			0.66	
	For SDR 17, Add			1.62	
	For SDR 15.5, Add			2.37	
	For SDR 13.5, Add			3.70	
	For SDR 11, Add			5.95	
33 14 13 23-0431	LF	8"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	24.05	5.86
	For SDR 26, Deduct			-2.26	
	For SDR 19, Add			1.11	
	For SDR 17, Add			2.74	
	For SDR 15.5, Add			4.02	
	For SDR 13.5, Add			6.27	
	For SDR 11, Add			10.10	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0432	LF	10"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	32.21	6.51
			<i>For SDR 26, Deduct</i>	-3.52	
			<i>For SDR 19, Add</i>	1.73	
			<i>For SDR 17, Add</i>	4.27	
			<i>For SDR 15.5, Add</i>	6.25	
			<i>For SDR 13.5, Add</i>	9.75	
			<i>For SDR 11, Add</i>	15.70	
33 14 13 23-0433	LF	12"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	42.13	7.29
			<i>For SDR 26, Deduct</i>	-5.08	
			<i>For SDR 19, Add</i>	2.49	
			<i>For SDR 17, Add</i>	6.15	
			<i>For SDR 15.5, Add</i>	9.01	
			<i>For SDR 13.5, Add</i>	14.06	
			<i>For SDR 11, Add</i>	22.64	
33 14 13 23-0434	LF	14"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	48.81	8.19
			<i>For SDR 26, Deduct</i>	-5.97	
			<i>For SDR 19, Add</i>	2.93	
			<i>For SDR 17, Add</i>	7.23	
			<i>For SDR 15.5, Add</i>	10.59	
			<i>For SDR 13.5, Add</i>	16.53	
			<i>For SDR 11, Add</i>	26.61	
33 14 13 23-0435	LF	16"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	60.73	9.10
			<i>For SDR 26, Deduct</i>	-7.79	
			<i>For SDR 19, Add</i>	3.83	
			<i>For SDR 17, Add</i>	9.45	
			<i>For SDR 15.5, Add</i>	13.84	
			<i>For SDR 13.5, Add</i>	21.60	
			<i>For SDR 11, Add</i>	34.76	
33 14 13 23-0436	LF	18"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	75.66	10.92
			<i>For SDR 26, Deduct</i>	-9.85	
			<i>For SDR 19, Add</i>	4.84	
			<i>For SDR 17, Add</i>	11.94	
			<i>For SDR 15.5, Add</i>	17.49	
			<i>For SDR 13.5, Add</i>	27.29	
			<i>For SDR 11, Add</i>	43.93	
33 14 13 23-0437	LF	20"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	83.41	13.01
			<i>For SDR 26, Deduct</i>	-10.52	
			<i>For SDR 19, Add</i>	5.17	
			<i>For SDR 17, Add</i>	12.75	
			<i>For SDR 15.5, Add</i>	18.68	
			<i>For SDR 13.5, Add</i>	29.15	
			<i>For SDR 11, Add</i>	46.92	
33 14 13 23-0438	LF	24"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	126.84	15.61
			<i>For SDR 26, Deduct</i>	-17.53	
			<i>For SDR 19, Add</i>	8.61	
			<i>For SDR 17, Add</i>	21.25	
			<i>For SDR 15.5, Add</i>	31.11	
			<i>For SDR 13.5, Add</i>	48.57	
			<i>For SDR 11, Add</i>	78.17	
33 14 13 23-0439			90 Degree Elbows, High-Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0426)		
33 14 13 23-0440	EA	3"	90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping.....	64.96	17.07
			<i>For SDR 26, Deduct</i>	-2.52	
			<i>For SDR 19, Add</i>	1.24	
			<i>For SDR 17, Add</i>	3.06	
			<i>For SDR 15.5, Add</i>	4.48	
			<i>For SDR 13.5, Add</i>	6.99	
			<i>For SDR 11, Add</i>	11.25	
33 14 13 23-0441	EA	4"	90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping.....	73.28	18.98
			<i>For SDR 26, Deduct</i>	-3.00	
			<i>For SDR 19, Add</i>	1.48	
			<i>For SDR 17, Add</i>	3.64	
			<i>For SDR 15.5, Add</i>	5.33	
			<i>For SDR 13.5, Add</i>	8.32	
			<i>For SDR 11, Add</i>	13.40	
33 14 13 23-0442	EA	6"	90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping.....	108.58	21.68
			<i>For SDR 26, Deduct</i>	-7.99	
			<i>For SDR 19, Add</i>	3.92	
			<i>For SDR 17, Add</i>	9.69	
			<i>For SDR 15.5, Add</i>	14.19	
			<i>For SDR 13.5, Add</i>	22.14	
			<i>For SDR 11, Add</i>	35.64	
33 14 13 23-0443	EA	8"	90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping.....	167.02	25.31
			<i>For SDR 26, Deduct</i>	-16.70	
			<i>For SDR 19, Add</i>	8.20	
			<i>For SDR 17, Add</i>	20.25	
			<i>For SDR 15.5, Add</i>	29.65	
			<i>For SDR 13.5, Add</i>	46.28	
			<i>For SDR 11, Add</i>	74.50	



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0444	EA	10" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	253.26	33.80
		For SDR 26, Deduct	-27.88	
		For SDR 19, Add	13.69	
		For SDR 17, Add	33.80	
		For SDR 15.5, Add	49.50	
		For SDR 13.5, Add	77.26	
		For SDR 11, Add	124.35	
33 14 13 23-0445	EA	12" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	374.41	50.58
		For SDR 26, Deduct	-40.83	
		For SDR 19, Add	20.05	
		For SDR 17, Add	49.49	
		For SDR 15.5, Add	72.48	
		For SDR 13.5, Add	113.13	
		For SDR 11, Add	182.09	
33 14 13 23-0446	EA	14" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	467.93	67.50
		For SDR 26, Deduct	-48.67	
		For SDR 19, Add	23.90	
		For SDR 17, Add	59.00	
		For SDR 15.5, Add	86.40	
		For SDR 13.5, Add	134.86	
		For SDR 11, Add	217.07	
33 14 13 23-0447	EA	16" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	621.33	101.16
		For SDR 26, Deduct	-58.29	
		For SDR 19, Add	28.62	
		For SDR 17, Add	70.66	
		For SDR 15.5, Add	103.47	
		For SDR 13.5, Add	161.50	
		For SDR 11, Add	259.95	
33 14 13 23-0448	EA	18" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	774.10	113.79
		For SDR 26, Deduct	-79.32	
		For SDR 19, Add	38.94	
		For SDR 17, Add	96.15	
		For SDR 15.5, Add	140.80	
		For SDR 13.5, Add	219.77	
		For SDR 11, Add	353.74	
33 14 13 23-0449	EA	20" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,042.13	129.15
		For SDR 26, Deduct	-119.28	
		For SDR 19, Add	58.56	
		For SDR 17, Add	144.59	
		For SDR 15.5, Add	211.74	
		For SDR 13.5, Add	330.50	
		For SDR 11, Add	531.96	
33 14 13 23-0450	EA	24" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,323.87	151.79
		For SDR 26, Deduct	-159.23	
		For SDR 19, Add	78.18	
		For SDR 17, Add	193.03	
		For SDR 15.5, Add	282.68	
		For SDR 13.5, Add	441.22	
		For SDR 11, Add	710.17	
33 14 13 23-0451		Tees, High-Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0426)		
33 14 13 23-0452	EA	3" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	71.47	17.86
		For SDR 26, Deduct	-3.30	
		For SDR 19, Add	1.62	
		For SDR 17, Add	4.00	
		For SDR 15.5, Add	5.85	
		For SDR 13.5, Add	9.14	
		For SDR 11, Add	14.71	
33 14 13 23-0453	EA	4" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	81.84	20.23
		For SDR 26, Deduct	-3.88	
		For SDR 19, Add	1.91	
		For SDR 17, Add	4.71	
		For SDR 15.5, Add	6.89	
		For SDR 13.5, Add	10.76	
		For SDR 11, Add	17.31	
33 14 13 23-0454	EA	6" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	125.35	23.35
		For SDR 26, Deduct	-10.15	
		For SDR 19, Add	4.98	
		For SDR 17, Add	12.30	
		For SDR 15.5, Add	18.01	
		For SDR 13.5, Add	28.12	
		For SDR 11, Add	45.26	
33 14 13 23-0455	EA	8" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	223.17	27.60
		For SDR 26, Deduct	-25.74	
		For SDR 19, Add	12.64	
		For SDR 17, Add	31.21	
		For SDR 15.5, Add	45.70	
		For SDR 13.5, Add	71.33	
		For SDR 11, Add	114.81	
33 14 13 23-0456	EA	10" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	306.42	40.51
		For SDR 26, Deduct	-33.91	
		For SDR 19, Add	16.65	
		For SDR 17, Add	41.11	
		For SDR 15.5, Add	60.21	
		For SDR 13.5, Add	93.97	
		For SDR 11, Add	151.25	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0457 EA 12" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping.....	434.74	60.77
For SDR 26, Deduct	-46.31	
For SDR 19, Add	22.74	
For SDR 17, Add	56.14	
For SDR 15.5, Add	82.21	
For SDR 13.5, Add	128.32	
For SDR 11, Add	206.53	
33 14 13 23-0458 EA 14" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping.....	524.79	75.90
For SDR 26, Deduct	-54.48	
For SDR 19, Add	26.75	
For SDR 17, Add	66.04	
For SDR 15.5, Add	96.72	
For SDR 13.5, Add	150.96	
For SDR 11, Add	242.98	
33 14 13 23-0459 EA 16" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping.....	694.48	113.79
For SDR 26, Deduct	-64.70	
For SDR 19, Add	31.77	
For SDR 17, Add	78.43	
For SDR 15.5, Add	114.85	
For SDR 13.5, Add	179.26	
For SDR 11, Add	288.54	
33 14 13 23-0460 EA 18" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping.....	888.03	132.56
For SDR 26, Deduct	-89.89	
For SDR 19, Add	44.14	
For SDR 17, Add	108.97	
For SDR 15.5, Add	159.58	
For SDR 13.5, Add	249.08	
For SDR 11, Add	400.91	
33 14 13 23-0461 EA 20" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping.....	1,231.04	156.58
For SDR 26, Deduct	-138.58	
For SDR 19, Add	68.04	
For SDR 17, Add	167.99	
For SDR 15.5, Add	246.02	
For SDR 13.5, Add	384.00	
For SDR 11, Add	618.07	
33 14 13 23-0462 EA 24" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping.....	1,590.63	189.80
For SDR 26, Deduct	-187.28	
For SDR 19, Add	91.95	
For SDR 17, Add	227.02	
For SDR 15.5, Add	332.46	
For SDR 13.5, Add	518.92	
For SDR 11, Add	835.23	
33 14 13 23-0463 AWWA C909 Oriented Polyvinyl Chloride (PVCO) Pipe (33 14 13 23)		
Note: Includes hub on one end of pipe.		
33 14 13 23-0464 AWWA C909, DR 18, PC 235 Oriented Polyvinyl Chloride (PVCO) Pipe (33 14		
13 23-0463)		
33 14 13 23-0465 LF 6" AWWA C909, DR 18, PC 235 Oriented Polyvinyl Chloride (PVCO) Pipe.....	19.96	5.21
33 14 13 23-0466 LF 8" AWWA C909, DR 18, PC 235 Oriented Polyvinyl Chloride (PVCO) Pipe.....	28.08	5.86
33 14 13 23-0467 LF 10" AWWA C909, DR 18, PC 235 Oriented Polyvinyl Chloride (PVCO) Pipe.....	37.92	6.51
33 14 13 23-0468 LF 12" AWWA C909, DR 18, PC 235 Oriented Polyvinyl Chloride (PVCO) Pipe.....	49.70	7.29
33 14 13 23-0469 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe And Fittings (33 14 13		
23)		
33 14 13 23-0470 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe (33 14 13 23-0469)		
33 14 13 23-0471 LF 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	58.89	3.50
33 14 13 23-0472 LF 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	83.83	3.76
33 14 13 23-0473 LF 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	113.22	4.37
33 14 13 23-0474 LF 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	154.22	5.60
33 14 13 23-0475 LF 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	176.49	6.83
33 14 13 23-0476 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (33 14 13		
23-0469)		
33 14 13 23-0477 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	746.42	50.83
33 14 13 23-0478 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	1,569.89	85.22
33 14 13 23-0479 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	2,730.45	93.01
33 14 13 23-0480 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	6,465.72	100.64
33 14 13 23-0481 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	8,753.99	108.26
33 14 13 23-0482 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (33 14 13		
23-0469)		
33 14 13 23-0483 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	1,046.74	50.83
33 14 13 23-0484 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	1,266.92	85.22
33 14 13 23-0485 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	1,712.26	93.01
33 14 13 23-0486 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	3,347.02	100.64
33 14 13 23-0487 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	4,788.67	108.26
33 14 13 23-0488 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (33 14 13 23-0469)		
33 14 13 23-0489 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	1,447.34	81.33



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0490 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	2,133.94	121.53
33 14 13 23-0491 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	2,821.71	129.62
33 14 13 23-0492 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	6,868.34	137.24
33 14 13 23-0493 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	9,683.88	144.85
33 14 13 23-0494 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tees (33 14 13 23-0469)		
33 14 13 23-0495 EA 8" x 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	1,422.47	77.25
33 14 13 23-0496 EA 10" x 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	1,550.50	109.68
33 14 13 23-0497 EA 10" x 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	1,769.01	115.46
33 14 13 23-0498 EA 12" x 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	2,006.60	111.13
33 14 13 23-0499 EA 12" x 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	2,227.82	116.98
33 14 13 23-0500 EA 12" x 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	2,541.47	123.13
33 14 13 23-0501 EA 14" x 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	4,940.59	111.79
33 14 13 23-0502 EA 14" x 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	5,322.91	117.67
33 14 13 23-0503 EA 14" x 14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	5,810.10	123.86
33 14 13 23-0504 EA 14" x 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	6,372.99	130.38
33 14 13 23-0505 EA 16" x 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	6,000.67	112.09
33 14 13 23-0506 EA 16" x 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	6,689.59	117.99
33 14 13 23-0507 EA 16" x 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	7,232.18	124.20
33 14 13 23-0508 EA 16" x 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	8,068.67	130.73
33 14 13 23-0509 EA 16" x 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	8,945.30	137.61
33 14 13 23-0510 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wyes (33 14 13 23-0469)		
33 14 13 23-0511 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye	1,461.73	81.33
33 14 13 23-0512 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye	2,465.65	121.53
33 14 13 23-0513 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye	3,335.14	129.62
33 14 13 23-0514 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye	10,811.92	137.24
33 14 13 23-0515 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye	13,493.42	144.85
33 14 13 23-0516 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wyes (33 14 13 23-0469)		
33 14 13 23-0517 EA 8" x 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	1,272.86	77.25
33 14 13 23-0518 EA 10" x 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	1,772.24	109.68
33 14 13 23-0519 EA 10" x 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	2,052.68	115.46
33 14 13 23-0520 EA 12" x 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	2,363.71	111.13
33 14 13 23-0521 EA 12" x 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	2,494.12	116.98
33 14 13 23-0522 EA 12" x 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	3,018.50	123.13
33 14 13 23-0523 EA 14" x 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	5,209.06	111.79
33 14 13 23-0524 EA 14" x 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	5,626.72	117.67
33 14 13 23-0525 EA 14" x 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	6,822.21	130.38
33 14 13 23-0526 EA 16" x 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	6,226.60	112.09
33 14 13 23-0527 EA 16" x 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	7,199.62	117.99
33 14 13 23-0528 EA 16" x 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	8,070.34	124.20
33 14 13 23-0529 EA 16" x 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	8,742.75	130.73
33 14 13 23-0530 EA 16" x 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	10,931.01	137.61
33 14 13 23-0531 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (33 14 13 23-0469)		
33 14 13 23-0532 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling	677.66	50.83
33 14 13 23-0533 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling	919.06	85.22
33 14 13 23-0534 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling	1,272.94	93.01
33 14 13 23-0535 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling	2,528.59	100.64
33 14 13 23-0536 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling	3,767.15	108.26
33 14 13 23-0537 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Couplings (33 14 13 23-0469)		
33 14 13 23-0538 EA 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	921.94	48.28
33 14 13 23-0539 EA 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	677.80	45.87
33 14 13 23-0540 EA 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	940.28	80.96
33 14 13 23-0541 EA 12" x 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,820.11	76.91
33 14 13 23-0542 EA 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,696.61	73.06
33 14 13 23-0543 EA 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,332.08	69.41
33 14 13 23-0544 EA 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	838.69	88.35
33 14 13 23-0545 EA 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	2,441.76	83.94
33 14 13 23-0546 EA 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	2,057.52	79.74
33 14 13 23-0547 EA 14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,779.79	75.75
33 14 13 23-0548 EA 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,630.27	95.60
33 14 13 23-0549 EA 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,223.38	90.81
33 14 13 23-0550 EA 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,640.51	86.28
33 14 13 23-0551 EA 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,485.39	81.97
33 14 13 23-0552 EA 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,303.76	77.87
33 14 13 23-0553 EA 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,019.42	102.85
33 14 13 23-0554 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Couplings (33 14 13 23-0469)		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0555 EA 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	815.92	86.28
33 14 13 23-0556 EA 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,436.65	81.97
33 14 13 23-0557 EA 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,089.84	81.97
33 14 13 23-0558 EA 12" x 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,782.49	77.87
33 14 13 23-0559 EA 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,875.93	73.97
33 14 13 23-0560 EA 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,788.44	70.28
33 14 13 23-0561 EA 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,637.93	77.87
33 14 13 23-0562 EA 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,984.36	73.97
33 14 13 23-0563 EA 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,920.46	70.28
33 14 13 23-0564 EA 14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,123.46	66.76
33 14 13 23-0565 EA 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,971.20	73.97
33 14 13 23-0566 EA 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	5,288.97	70.28
33 14 13 23-0567 EA 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	5,110.77	66.76
33 14 13 23-0568 EA 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	5,011.67	63.43
33 14 13 23-0569 EA 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	4,812.97	60.25
33 14 13 23-0570 EA 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	4,533.71	97.71

33 14 13 23-0571 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flanges (33 14 13 23-0469)

33 14 13 23-0572 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	899.46	50.83
33 14 13 23-0573 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	2,072.46	85.22
33 14 13 23-0574 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	3,022.63	93.01
33 14 13 23-0575 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	3,395.57	100.64
33 14 13 23-0576 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	4,200.66	108.26
33 14 13 23-0577 EA 8" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	28.15	
33 14 13 23-0578 EA 10" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	36.68	
33 14 13 23-0579 EA 12" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	50.48	
33 14 13 23-0580 EA 14" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	107.98	
33 14 13 23-0581 EA 16" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	191.57	
33 14 13 23-0582 EA Zinc Coated Flange Hardware Kit.....	179.88	

33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping (33 14 13)

See CSI section 22 11 16 00-0013 for galvanized steel pipe.

33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)**33 14 13 36-0001 Steel Piping (33 14 13 36)****33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)**

Note: ASTM A252 steel pipe. See CSI section 33 14 13 43-0001 for pipe coatings, 33 14 13 43-0053 for pipe linings.

33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0004 LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	113.64	30.43
For <100, Add	12.60	
For >1,000, Deduct	-5.68	
33 14 13 36-0005 LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	135.14	30.43
For <100, Add	13.68	
For >1,000, Deduct	-6.76	
33 14 13 36-0006 LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	134.86	33.20
For <100, Add	14.29	
For >1,000, Deduct	-6.74	
33 14 13 36-0007 LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	162.04	33.20
For <100, Add	15.65	
For >1,000, Deduct	-8.10	
33 14 13 36-0008 LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	162.61	34.79
For <100, Add	16.04	
For >1,000, Deduct	-8.13	
33 14 13 36-0009 LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	183.75	34.79
For <100, Add	17.09	
For >1,000, Deduct	-9.19	
33 14 13 36-0010 LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	196.58	38.45
For <100, Add	18.57	
For >1,000, Deduct	-9.83	
33 14 13 36-0011 LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	213.47	38.45
For <100, Add	19.41	
For >1,000, Deduct	-10.67	
33 14 13 36-0012 LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	208.61	40.59
For <100, Add	19.65	
For >1,000, Deduct	-10.43	
33 14 13 36-0013 LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	221.65	40.59
For <100, Add	20.31	
For >1,000, Deduct	-11.08	
33 14 13 36-0014 LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	257.96	45.65
For <100, Add	23.27	
For >1,000, Deduct	-12.90	
33 14 13 36-0015 LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	279.33	45.65
For <100, Add	24.34	
For >1,000, Deduct	-13.97	

33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0017	LF	12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe		220.45	56.85
		For <100, Add		19.96	
		For >1,000, Deduct		-11.02	
33 14 13 36-0018	LF	14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	261.50	62.54
		For <100, Add		22.95	
		For >1,000, Deduct		-13.08	
33 14 13 36-0019	LF	16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	290.39	65.38
		For <100, Add		24.94	
		For >1,000, Deduct		-14.52	
33 14 13 36-0020	LF	18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	327.60	73.90
		For <100, Add		28.11	
		For >1,000, Deduct		-16.38	
33 14 13 36-0021	LF	18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	342.09	73.90
		For <100, Add		28.83	
		For >1,000, Deduct		-17.10	
33 14 13 36-0022	LF	20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	355.50	73.90
		For <100, Add		29.50	
		For >1,000, Deduct		-17.78	
33 14 13 36-0023	LF	20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	370.96	73.90
		For <100, Add		30.28	
		For >1,000, Deduct		-18.55	
33 14 13 36-0024	LF	24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	429.94	85.28
		For <100, Add		34.90	
		For >1,000, Deduct		-21.50	
33 14 13 36-0025	LF	24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	477.77	85.28
		For <100, Add		37.29	
		For >1,000, Deduct		-23.89	
33 14 13 36-0026	LF	24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	595.17	85.28
		For <100, Add		43.16	
		For >1,000, Deduct		-29.76	
33 14 13 36-0027	LF	30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	534.22	99.49
		For <100, Add		42.35	
		For >1,000, Deduct		-26.71	
33 14 13 36-0028	LF	30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	553.79	99.49
		For <100, Add		43.32	
		For >1,000, Deduct		-27.69	
33 14 13 36-0029	LF	30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	738.35	99.49
		For <100, Add		52.55	
		For >1,000, Deduct		-36.92	
33 14 13 36-0030	LF	36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	635.68	99.49
		For <100, Add		47.42	
		For >1,000, Deduct		-31.78	
33 14 13 36-0031	LF	36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	745.42	119.38
		For <100, Add		56.03	
		For >1,000, Deduct		-37.27	
33 14 13 36-0032	LF	36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	888.55	119.38
		For <100, Add		63.19	
		For >1,000, Deduct		-44.43	
33 14 13 36-0033	LF	36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	852.80	119.38
		For <100, Add		61.40	
		For >1,000, Deduct		-42.64	
33 14 13 36-0034	LF	42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	1,304.54	133.61
		For <100, Add		86.07	
		For >1,000, Deduct		-65.23	
33 14 13 36-0035	LF	42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	794.10	133.61
		For <100, Add		60.55	
		For >1,000, Deduct		-39.71	
33 14 13 36-0036	LF	48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	1,495.84	150.66
		For <100, Add		98.24	
		For >1,000, Deduct		-74.79	
33 14 13 36-0037	LF	48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	871.38	150.66
		For <100, Add		67.02	
		For >1,000, Deduct		-43.57	
33 14 13 36-0038	LF	54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	1,567.70	170.55
		For <100, Add		105.19	
		For >1,000, Deduct		-78.39	
33 14 13 36-0039	LF	54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	1,730.76	170.55
		For <100, Add		113.34	
		For >1,000, Deduct		-86.54	
33 14 13 36-0040	LF	60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	1,935.66	198.99
		For <100, Add		128.05	
		For >1,000, Deduct		-96.78	
33 14 13 36-0041	LF	66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	1,355.90	198.99
		For <100, Add		99.06	
		For >1,000, Deduct		-67.80	
33 14 13 36-0042	LF	72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	1,504.45	162.80
		For <100, Add		124.06	
		For >1,000, Deduct		-75.22	
33 14 13 36-0043	LF	78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	.....	2,813.75	162.80
		For <100, Add		189.53	
		For >1,000, Deduct		-140.69	

33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0045	EA	2" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	159.67	28.87
		For 7" Length, Add	10.41	
33 14 13 36-0046	EA	3" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	219.79	55.53
		For 7" Length, Add	10.87	
33 14 13 36-0047	EA	4" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	292.35	73.31
		For 7" Length, Add	14.43	
33 14 13 36-0048	EA	6" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	473.59	111.06
		For 7" Length, Add	25.15	
33 14 13 36-0049	EA	8" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	626.82	139.94
		For 7" Length, Add	34.92	
33 14 13 36-0050	EA	10" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	904.27	180.15
		For 7" Length, Add	54.40	
33 14 13 36-0051	EA	12" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,064.49	225.79
		For 7" Length, Add	61.41	
33 14 13 36-0052	EA	14" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,147.80	225.79
		For 10" Length, Add	40.04	
33 14 13 36-0053	EA	16" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,210.00	258.23
		For 10" Length, Add	41.72	
33 14 13 36-0054	EA	18" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,330.44	276.24
		For 10" Length, Add	46.68	
33 14 13 36-0055	EA	20" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,451.98	312.27
		For 10" Length, Add	51.09	
33 14 13 36-0056	EA	24" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,870.38	330.29
		For 10" Length, Add	72.59	
33 14 13 36-0057	EA	30" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	2,270.42	360.31
		For 10" Length, Add	92.99	
33 14 13 36-0058	EA	36" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	2,675.96	405.35
		For 10" Length, Add	111.92	
33 14 13 36-0059	EA	42" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	3,102.95	456.40
		For 10" Length, Add	132.13	
33 14 13 36-0060	EA	48" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	3,608.36	525.45
		For 10" Length, Add	153.45	
33 14 13 36-0061	EA	54" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	3,988.21	600.52
		For 10" Length, Add	167.23	
33 14 13 36-0062	EA	60" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	4,545.74	750.66
		For 10" Length, Add	182.67	
33 14 13 36-0063	EA	66" Diameter x 10" Length, Dresser Coupling For Plain End Welded Steel Pipe	5,210.48	912.79
		For 12" Length, Add	170.45	
33 14 13 36-0064	EA	72" Diameter x 10" Length, Dresser Coupling For Plain End Welded Steel Pipe	6,204.80	1,080.93
		For 12" Length, Add	202.15	
33 14 13 36-0065		Welded, Plain End, Cement Mortar Lined And Coated (33 14 13 36-0001)		
Note: Pipe manufacture shall be in accordance with AWWA C200, ANSI/ASTM A 139, API 5 L, or API 5 LX				
33 14 13 36-0066	LF	4" Diameter, Schedule 10 (0.12" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	70.25	22.89
33 14 13 36-0067	LF	4" Diameter, Schedule 40 (0.237" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	90.87	22.89
33 14 13 36-0068	LF	6" Diameter, Schedule 10 (0.134" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	92.87	30.43
33 14 13 36-0069	LF	6" Diameter, Schedule 40 (0.28" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	131.43	30.43
33 14 13 36-0070	LF	8" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	154.62	30.43
33 14 13 36-0071	LF	8" Diameter, Schedule 40 (0.322" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	177.77	30.43
33 14 13 36-0072	LF	10" Diameter, Schedule 10 (0.165" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	157.63	33.20
33 14 13 36-0073	LF	10" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	184.80	33.20
33 14 13 36-0074	LF	10" Diameter, Schedule 40 (0.365" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	191.22	33.20
33 14 13 36-0075	LF	12" Diameter, Schedule 10 (0.18" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	189.04	34.79
33 14 13 36-0076	LF	12" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	210.18	34.79
33 14 13 36-0077	LF	12" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	272.19	34.79
33 14 13 36-0078	LF	14" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	244.40	38.45
33 14 13 36-0079	LF	14" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	284.86	38.45
33 14 13 36-0080	LF	14" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	323.99	38.45
33 14 13 36-0081	LF	16" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	256.79	40.59
33 14 13 36-0082	LF	16" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	317.54	40.59
33 14 13 36-0083	LF	16" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	361.72	40.59
33 14 13 36-0084	LF	18" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	297.59	45.65
33 14 13 36-0085	LF	18" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	358.23	45.65
33 14 13 36-0086	LF	18" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	372.72	45.65
33 14 13 36-0087	LF	20" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	327.17	48.04
33 14 13 36-0088	LF	20" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	394.33	48.04
33 14 13 36-0089	LF	20" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	394.33	48.04
33 14 13 36-0090	LF	24" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	471.44	51.44
33 14 13 36-0091	LF	24" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	519.28	51.44
33 14 13 36-0092	LF	30" Diameter, Schedule 10 (0.312" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	587.87	60.62
33 14 13 36-0093	LF	30" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Plain End, Cement Mortar Lined And Coated	607.43	60.62
33 14 13 36-0094		Welded, Bell and Spigot, Cement Mortar Lined And Coated (33 14 13 36-0001)		
Note: Pipe manufacture shall be in accordance with AWWA C200, ANSI/ASTM A 139, API 5 L, or API 5 LX				
33 14 13 36-0095	LF	4" Diameter, Schedule 10 (0.12" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	70.81	22.89
33 14 13 36-0096	LF	4" Diameter, Schedule 40 (0.237" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	91.95	22.89
33 14 13 36-0097	LF	6" Diameter, Schedule 10 (0.134" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	93.77	30.43
33 14 13 36-0098	LF	6" Diameter, Schedule 40 (0.28" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	133.30	30.43
33 14 13 36-0099	LF	8" Diameter, Schedule 10 (0.148" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	134.81	30.43
33 14 13 36-0100	LF	8" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	156.85	30.43
33 14 13 36-0101	LF	8" Diameter, Schedule 40 (0.322" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	179.55	30.43



		Utilities	33	CS
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0102 LF 10" Diameter, Schedule 10 (0.165" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	157.87	33.20
33 14 13 36-0103 LF 10" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	187.28	33.20
33 14 13 36-0104 LF 10" Diameter, Schedule 40 (0.365" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	193.47	33.20
33 14 13 36-0105 LF 12" Diameter, Schedule 10 (0.18" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	191.79	34.79
33 14 13 36-0106 LF 12" Diameter, Schedule 20 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	213.45	34.79
33 14 13 36-0107 LF 12" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	272.51	34.79
33 14 13 36-0108 LF 14" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	230.97	38.45
33 14 13 36-0109 LF 14" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	289.75	38.45
33 14 13 36-0110 LF 14" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	324.38	38.45
33 14 13 36-0111 LF 16" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	260.79	40.59
33 14 13 36-0112 LF 16" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	323.06	40.59
33 14 13 36-0113 LF 16" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	362.17	40.59
33 14 13 36-0114 LF 18" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	302.31	45.65
33 14 13 36-0115 LF 18" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	364.46	45.65
33 14 13 36-0116 LF 18" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	364.46	45.65
33 14 13 36-0117 LF 20" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	332.43	48.04
33 14 13 36-0118 LF 20" Diameter, Schedule 20 (0.312" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	401.26	48.04
33 14 13 36-0119 LF 20" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	417.11	48.04
33 14 13 36-0120 LF 24" Diameter, Schedule 10 (0.25" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	479.96	51.44
33 14 13 36-0121 LF 24" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	528.99	51.44
33 14 13 36-0122 LF 30" Diameter, Schedule 10 (0.312" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	598.62	60.62
33 14 13 36-0123 LF 30" Diameter, Standard Weight (0.375" Wall Thickness), Welded, Bell and Spigot, Cement Mortar Lined And Coated	618.67	60.62
33 14 13 36-0124 Plain End Steel Pipe Fittings, Standard Wall Thickness (33 14 13 36-0001)		
See CSI section 33 14 13 36-0317 for flanged end fittings.		
33 14 13 36-0125 90 Degree Elbows, Standard Wall Thickness, Steel (33 14 13 36-0124)		
33 14 13 36-0126 EA 4" Diameter, 90 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	390.89	220.35
33 14 13 36-0127 EA 6" Diameter, 90 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	678.41	363.73
33 14 13 36-0128 EA 8" Diameter, 90 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,010.04	511.26
33 14 13 36-0129 EA 10" Diameter, 90 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,313.03	584.21
33 14 13 36-0130 EA 12" Diameter, 90 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,779.95	764.44
33 14 13 36-0131 EA 14" Diameter, 90 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	2,212.29	903.54
33 14 13 36-0132 EA 16" Diameter, 90 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	2,749.71	1,055.10
33 14 13 36-0133 EA 18" Diameter, 90 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	3,268.38	1,176.59
33 14 13 36-0134 EA 20" Diameter, 90 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	4,161.02	1,319.21
33 14 13 36-0135 EA 24" Diameter, 90 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	4,916.60	1,363.24
33 14 13 36-0136 45 Degree Elbows, Standard Wall Thickness, Steel (33 14 13 36-0124)		
33 14 13 36-0137 EA 4" Diameter, 45 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	377.98	220.35
33 14 13 36-0138 EA 6" Diameter, 45 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	646.67	363.73
33 14 13 36-0139 EA 8" Diameter, 45 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	951.14	511.26
33 14 13 36-0140 EA 10" Diameter, 45 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,204.89	584.21
33 14 13 36-0141 EA 12" Diameter, 45 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,623.14	764.44
33 14 13 36-0142 EA 14" Diameter, 45 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	2,000.06	903.54
33 14 13 36-0143 EA 16" Diameter, 45 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	2,459.21	1,055.10
33 14 13 36-0144 EA 18" Diameter, 45 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	2,894.50	1,176.59
33 14 13 36-0145 EA 20" Diameter, 45 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	3,611.49	1,319.21
33 14 13 36-0146 EA 24" Diameter, 45 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	4,198.41	1,363.24
33 14 13 36-0147 22.5 Degree Elbows, Standard Wall Thickness, Steel (33 14 13 36-0124)		
33 14 13 36-0148 EA 4" Diameter, 22.5 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	373.52	220.35
33 14 13 36-0149 EA 6" Diameter, 22.5 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	636.14	363.73
33 14 13 36-0150 EA 8" Diameter, 22.5 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	931.30	511.26
33 14 13 36-0151 EA 10" Diameter, 22.5 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,171.08	584.21
33 14 13 36-0152 EA 12" Diameter, 22.5 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,574.11	764.44
33 14 13 36-0153 EA 14" Diameter, 22.5 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,933.36	903.54
33 14 13 36-0154 EA 16" Diameter, 22.5 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	2,368.31	1,055.10
33 14 13 36-0155 EA 18" Diameter, 22.5 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	2,777.48	1,176.59
33 14 13 36-0156 EA 20" Diameter, 22.5 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	3,441.65	1,319.21
33 14 13 36-0157 EA 24" Diameter, 22.5 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	3,951.24	1,363.24
33 14 13 36-0158 11.25 Degree Elbows, Standard Wall Thickness, Steel (33 14 13 36-0124)		
33 14 13 36-0159 EA 4" Diameter, 11.25 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	375.61	220.35
33 14 13 36-0160 EA 6" Diameter, 11.25 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	641.29	363.73
33 14 13 36-0161 EA 8" Diameter, 11.25 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	940.87	511.26
33 14 13 36-0162 EA 10" Diameter, 11.25 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,188.64	584.21
33 14 13 36-0163 EA 12" Diameter, 11.25 Degree Elbow, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,599.57	764.44

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33 14 13 36-0164	Tees, Standard Wall Thickness, Steel (33 14 13 36-0124)			
33 14 13 36-0165	EA	4"x4"x4" Tees, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	603.28	330.53
33 14 13 36-0166	EA	6"x6"x6" Tees, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,003.77	545.47
33 14 13 36-0167	EA	8"x8"x8" Tees, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,487.72	766.83
33 14 13 36-0168	EA	10"x10"x10" Tees, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	1,872.17	876.38
33 14 13 36-0169	EA	12"x12"x12" Tees, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	2,560.98	1,146.66
33 14 13 36-0170	EA	14"x14"x14" Tees, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	3,366.53	1,355.44
33 14 13 36-0171	EA	16"x16"x16" Tees, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	3,995.74	1,582.70
33 14 13 36-0172	EA	18"x18"x18" Tees, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	5,245.73	1,764.87
33 14 13 36-0173	EA	20"x20"x20" Tees, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	6,925.49	1,978.89
33 14 13 36-0174	EA	24"x24"x24" Tees, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	7,942.62	2,044.79
33 14 13 36-0175	EA	30"x30"x30" Tees, Standard Wall Thickness, Plain End, Cement Mortar Lined And Coated	11,139.82	2,407.64
33 14 13 36-0176	Concentric Reducers, Standard Wall Thickness, Steel (33 14 13 36-0124)			
33 14 13 36-0177	EA	6" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	593.98	363.73
33 14 13 36-0178	EA	8" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	847.17	511.26
33 14 13 36-0179	EA	8" x 6", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	833.96	511.26
33 14 13 36-0180	EA	10" x 8", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	997.15	584.21
33 14 13 36-0181	EA	12" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,501.07	764.44
33 14 13 36-0182	EA	12" x 6", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,325.33	764.44
33 14 13 36-0183	EA	12" x 8", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,319.33	764.44
33 14 13 36-0184	EA	12" x 10", Concentric Reducer, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,302.78	764.44
33 14 13 36-0185	Reducing Tees, Standard Wall Thickness, Steel (33 14 13 36-0124)			
33 14 13 36-0186	EA	6"x6"x4", Reducing Tee, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,004.47	545.47
33 14 13 36-0187	EA	8"x8"x6", Reducing Tee, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,489.07	766.83
33 14 13 36-0188	EA	10"x10"x 8" Reducing Tees, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	1,874.46	876.38
33 14 13 36-0189	EA	12"x12"x6" Reducing Tees, Steel, Standard Wall Thickness, Plain Ends, Class 150, Cement Mortar Lined And Coated	2,564.44	1,146.66
33 14 13 36-0190	Slip-on Flanges, Steel, Class 150 (33 14 13 36-0124)			
33 14 13 36-0191	EA	4" Slip-on Flange, Steel, Class 150	200.89	110.18
33 14 13 36-0192	EA	6" Slip-on Flange, Steel, Class 150	327.70	181.87
33 14 13 36-0193	EA	8" Slip-on Flange, Steel, Class 150	466.93	255.57
33 14 13 36-0194	EA	10" Slip-on Flange, Steel, Class 150	582.43	292.16
33 14 13 36-0195	EA	12" Slip-on Flange, Steel, Class 150	801.00	382.21
33 14 13 36-0196	EA	14" Slip-on Flange, Steel, Class 150	1,010.50	451.77
33 14 13 36-0197	EA	16" Slip-on Flange, Steel, Class 150	1,239.46	527.61
33 14 13 36-0198	EA	18" Slip-on Flange, Steel, Class 150	1,384.75	588.23
33 14 13 36-0199	EA	20" Slip-on Flange, Steel, Class 150	1,560.51	659.67
33 14 13 36-0200	EA	24" Slip-on Flange, Steel, Class 150	1,664.10	681.56
33 14 13 36-0201	EA	30" Slip-on Flange, Steel, Class 150	2,166.58	802.55
33 14 13 36-0202	Slip-on Flanges, Steel, Class 300 (33 14 13 36-0124)			
33 14 13 36-0203	EA	4" Slip-on Flange, Steel, Class 300	227.70	110.18
33 14 13 36-0204	EA	6" Slip-on Flange, Steel, Class 300	368.96	181.87
33 14 13 36-0205	EA	8" Slip-on Flange, Steel, Class 300	529.71	255.57
33 14 13 36-0206	EA	10" Slip-on Flange, Steel, Class 300	690.80	292.16
33 14 13 36-0207	EA	12" Slip-on Flange, Steel, Class 300	971.99	382.21
33 14 13 36-0208	EA	14" Slip-on Flange, Steel, Class 300	1,260.32	451.77
33 14 13 36-0209	EA	16" Slip-on Flange, Steel, Class 300	1,575.81	527.61
33 14 13 36-0210	EA	18" Slip-on Flange, Steel, Class 300	1,761.89	588.23
33 14 13 36-0211	EA	20" Slip-on Flange, Steel, Class 300	1,989.18	659.67
33 14 13 36-0212	EA	24" Slip-on Flange, Steel, Class 300	2,145.76	681.56
33 14 13 36-0213	EA	30" Slip-on Flange, Steel, Class 300	2,937.23	802.55
33 14 13 36-0214	Blind Flanges, Steel, Class 150 (33 14 13 36-0124)			
33 14 13 36-0215	EA	4" Blind Flange, Steel, Class 150	215.77	110.18
33 14 13 36-0216	EA	6" Blind Flange, Steel, Class 150	349.41	181.87
33 14 13 36-0217	EA	8" Blind Flange, Steel, Class 150	504.94	255.57
33 14 13 36-0218	EA	10" Blind Flange, Steel, Class 150	675.60	292.16
33 14 13 36-0219	EA	12" Blind Flange, Steel, Class 150	909.41	382.21
33 14 13 36-0220	EA	14" Blind Flange, Steel, Class 150	1,370.02	451.77
33 14 13 36-0221	EA	16" Blind Flange, Steel, Class 150	1,521.03	527.61



Utilities			33	33
Water Utilities			33 10	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0222	EA	18" Blind Flange, Steel, Class 150	1,674.83	588.23
33 14 13 36-0223	EA	20" Blind Flange, Steel, Class 150	2,074.60	659.67
33 14 13 36-0224	EA	24" Blind Flange, Steel, Class 150	2,576.19	681.56
33 14 13 36-0225	EA	30" Blind Flange, Steel, Class 150	3,627.97	802.55
33 14 13 36-0226 Blind Flanges, Steel, Class 300 (33 14 13 36-0124)				
33 14 13 36-0227	EA	4" Blind Flange, Steel, Class 300	253.75	110.18
33 14 13 36-0228	EA	6" Blind Flange, Steel, Class 300	406.95	181.87
33 14 13 36-0229	EA	8" Blind Flange, Steel, Class 300	596.22	255.57
33 14 13 36-0230	EA	10" Blind Flange, Steel, Class 300	853.85	292.16
33 14 13 36-0231	EA	12" Blind Flange, Steel, Class 300	1,161.70	382.21
33 14 13 36-0232	EA	14" Blind Flange, Steel, Class 300	1,889.47	451.77
33 14 13 36-0233	EA	16" Blind Flange, Steel, Class 300	2,068.57	527.61
33 14 13 36-0234	EA	18" Blind Flange, Steel, Class 300	2,269.52	588.23
33 14 13 36-0235	EA	20" Blind Flange, Steel, Class 300	2,888.84	659.67
33 14 13 36-0236	EA	24" Blind Flange, Steel, Class 300	3,741.91	681.56
33 14 13 36-0237	EA	30" Blind Flange, Steel, Class 300	5,446.50	802.55
33 14 13 36-0238 Screw Flanges, Steel, Class 150 (33 14 13 36-0124)				
33 14 13 36-0239	EA	4" Diameter, Screw Flange, Steel, Class 150	209.69	110.18
33 14 13 36-0240	EA	6" Diameter, Screw Flange, Steel, Class 150	341.23	181.87
33 14 13 36-0241	EA	8" Diameter, Screw Flange, Steel, Class 150	490.58	255.57
33 14 13 36-0242	EA	10" Diameter, Screw Flange, Steel, Class 150	594.78	292.16
33 14 13 36-0243	EA	12" Diameter, Screw Flange, Steel, Class 150	801.72	382.21
33 14 13 36-0244 Screw Flanges, Steel, Class 300 (33 14 13 36-0124)				
33 14 13 36-0245	EA	4" Diameter, Screw Flange, Steel, Class 300	247.31	110.18
33 14 13 36-0246	EA	6" Diameter, Screw Flange, Steel, Class 300	399.11	181.87
33 14 13 36-0247	EA	8" Diameter, Screw Flange, Steel, Class 300	581.23	255.57
33 14 13 36-0248	EA	10" Diameter, Screw Flange, Steel, Class 300	727.22	292.16
33 14 13 36-0249	EA	12" Diameter, Screw Flange, Steel, Class 300	994.84	382.21
33 14 13 36-0250 Steel Flange Gaskets (33 14 13 36-0124)				
33 14 13 36-0251 1/16" Thick Cloth-Inserted Rubber Flange Gasket, Class 150 (Tripac) (33 14 13 36-0250)				
Note: Labor installation is included with pipe fittings or valves.				
33 14 13 36-0252	EA	4" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	4.72	
33 14 13 36-0253	EA	6" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	7.41	
33 14 13 36-0254	EA	8" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	9.89	
33 14 13 36-0255	EA	10" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	15.26	
33 14 13 36-0256	EA	12" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	19.93	
33 14 13 36-0257	EA	14" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	22.87	
33 14 13 36-0258	EA	16" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	28.48	
33 14 13 36-0259	EA	18" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	32.36	
33 14 13 36-0260	EA	20" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	41.80	
33 14 13 36-0261	EA	24" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	51.35	
33 14 13 36-0262	EA	30" Cloth-Inserted Rubber Flange Gasket, 1/16" Thick, Class 150 (Tripac)	77.94	
33 14 13 36-0263 1/8" Thick Cloth-Inserted Rubber Flange Gasket, Class 250 (Tripac) (33 14 13 36-0250)				
Note: Labor installation is included with pipe fittings or valves.				
33 14 13 36-0264	EA	4" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	14.46	
33 14 13 36-0265	EA	6" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	27.04	
33 14 13 36-0266	EA	8" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	38.32	
33 14 13 36-0267	EA	10" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	48.76	
33 14 13 36-0268	EA	12" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	59.00	
33 14 13 36-0269	EA	14" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	73.32	
33 14 13 36-0270	EA	16" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	87.09	
33 14 13 36-0271	EA	18" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	120.09	
33 14 13 36-0272	EA	20" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	135.06	
33 14 13 36-0273	EA	24" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	187.70	
33 14 13 36-0274	EA	30" Cloth-Inserted Rubber Flange Gasket, 1/8" Thick, Class 250 (Tripac)	331.40	
33 14 13 36-0275 Steel Flange Bolt Packs (33 14 13 36-0124)				
33 14 13 36-0276 Class 150, Steel Flange Bolt Packs (33 14 13 36-0275)				
Note: Includes plain finish A307B bolts, A563 heavy hex nut and two structural washers. Labor installation is included with pipe fittings or valves.				
33 14 13 36-0277	EA	1" Pipe Diameter, Class 150, Steel Flange Bolt Pack	13.41	
		For Zinc Plated, Add	3.75	
		For Hot Dip Galvanized, Add	5.36	
		For Advanced Fluoropolymer (Blue Coating), Add	9.39	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0278	EA	1-1/4" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	15.04		
		For Zinc Plated, Add	4.21		
		For Hot Dip Galvanized, Add	6.02		
		For Advanced Fluoropolymer (Blue Coating), Add	10.53		
33 14 13 36-0279	EA	1-1/2" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	15.04		
		For Zinc Plated, Add	4.21		
		For Hot Dip Galvanized, Add	6.02		
		For Advanced Fluoropolymer (Blue Coating), Add	10.53		
33 14 13 36-0280	EA	2" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	19.38		
		For Zinc Plated, Add	5.43		
		For Hot Dip Galvanized, Add	7.75		
		For Advanced Fluoropolymer (Blue Coating), Add	13.57		
33 14 13 36-0281	EA	2-1/2" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	19.51		
		For Zinc Plated, Add	5.46		
		For Hot Dip Galvanized, Add	7.80		
		For Advanced Fluoropolymer (Blue Coating), Add	13.66		
33 14 13 36-0282	EA	3" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	19.51		
		For Zinc Plated, Add	5.46		
		For Hot Dip Galvanized, Add	7.80		
		For Advanced Fluoropolymer (Blue Coating), Add	13.66		
33 14 13 36-0283	EA	4" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	45.55		
		For Zinc Plated, Add	12.75		
		For Hot Dip Galvanized, Add	18.22		
		For Advanced Fluoropolymer (Blue Coating), Add	31.89		
33 14 13 36-0284	EA	5" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	65.26		
		For Zinc Plated, Add	18.27		
		For Hot Dip Galvanized, Add	26.10		
		For Advanced Fluoropolymer (Blue Coating), Add	45.68		
33 14 13 36-0285	EA	6" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	70.28		
		For Zinc Plated, Add	19.68		
		For Hot Dip Galvanized, Add	28.11		
		For Advanced Fluoropolymer (Blue Coating), Add	49.20		
33 14 13 36-0286	EA	8" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	76.32		
		For Zinc Plated, Add	21.37		
		For Hot Dip Galvanized, Add	30.53		
		For Advanced Fluoropolymer (Blue Coating), Add	53.42		
33 14 13 36-0287	EA	10" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	171.43		
		For Zinc Plated, Add	48.00		
		For Hot Dip Galvanized, Add	68.57		
		For Advanced Fluoropolymer (Blue Coating), Add	120.00		
33 14 13 36-0288	EA	12" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	172.93		
		For Zinc Plated, Add	48.42		
		For Hot Dip Galvanized, Add	69.17		
		For Advanced Fluoropolymer (Blue Coating), Add	121.05		
33 14 13 36-0289	EA	14" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	193.75		
		For Zinc Plated, Add	54.25		
		For Hot Dip Galvanized, Add	77.50		
		For Advanced Fluoropolymer (Blue Coating), Add	135.63		
33 14 13 36-0290	EA	16" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	325.71		
		For Zinc Plated, Add	91.20		
		For Hot Dip Galvanized, Add	130.28		
		For Advanced Fluoropolymer (Blue Coating), Add	228.00		
33 14 13 36-0291	EA	18" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	473.18		
		For Zinc Plated, Add	132.49		
		For Hot Dip Galvanized, Add	189.27		
		For Advanced Fluoropolymer (Blue Coating), Add	331.23		
33 14 13 36-0292	EA	20" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	597.45		
		For Zinc Plated, Add	167.29		
		For Hot Dip Galvanized, Add	238.98		
		For Advanced Fluoropolymer (Blue Coating), Add	418.22		
33 14 13 36-0293	EA	22" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	854.84		
		For Zinc Plated, Add	239.36		
		For Hot Dip Galvanized, Add	341.94		
		For Advanced Fluoropolymer (Blue Coating), Add	598.39		
33 14 13 36-0294	EA	24" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	854.84		
		For Zinc Plated, Add	239.36		
		For Hot Dip Galvanized, Add	341.94		
		For Advanced Fluoropolymer (Blue Coating), Add	598.39		
33 14 13 36-0295	EA	30" Pipe Diameter, Class 150, Steel Flange Bolt Pack.....	1,350.78		
		For Zinc Plated, Add	378.22		
		For Hot Dip Galvanized, Add	540.31		
		For Advanced Fluoropolymer (Blue Coating), Add	945.55		
33 14 13 36-0296	EA	36" Pipe Diameter, Class 150 Steel Flange, Bolt Set	1,926.91		
		Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.			
		For Zinc Plated, Add	539.53		
		For Hot Dip Galvanized, Add	770.76		
		For Advanced Fluoropolymer (Blue Coating), Add	1,348.84		
33 14 13 36-0297		Class 300, Steel Flange Bolt Packs (33 14 13 36-0275)			
		Note: Includes plain finish A307B bolts, A563 heavy hex nut and two structural washers. Labor installation is included with pipe fittings or valves.			
33 14 13 36-0298	EA	1" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	19.51		
		For Zinc Plated, Add	5.46		
		For Hot Dip Galvanized, Add	7.80		
		For Advanced Fluoropolymer (Blue Coating), Add	13.66		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 36-0299	EA	1-1/4" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	19.51	
		For Zinc Plated, Add	5.46	
		For Hot Dip Galvanized, Add	7.80	
		For Advanced Fluoropolymer (Blue Coating), Add	13.66	
33 14 13 36-0300	EA	1-1/2" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	21.83	
		For Zinc Plated, Add	6.11	
		For Hot Dip Galvanized, Add	8.73	
		For Advanced Fluoropolymer (Blue Coating), Add	15.28	
33 14 13 36-0301	EA	2" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	43.66	
		For Zinc Plated, Add	12.22	
		For Hot Dip Galvanized, Add	17.46	
		For Advanced Fluoropolymer (Blue Coating), Add	30.56	
33 14 13 36-0302	EA	2-1/2" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	70.28	
		For Zinc Plated, Add	19.68	
		For Hot Dip Galvanized, Add	28.11	
		For Advanced Fluoropolymer (Blue Coating), Add	49.20	
33 14 13 36-0303	EA	3" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	76.32	
		For Zinc Plated, Add	21.37	
		For Hot Dip Galvanized, Add	30.53	
		For Advanced Fluoropolymer (Blue Coating), Add	53.42	
33 14 13 36-0304	EA	3-1/2" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	76.32	
		For Zinc Plated, Add	21.37	
		For Hot Dip Galvanized, Add	30.53	
		For Advanced Fluoropolymer (Blue Coating), Add	53.42	
33 14 13 36-0305	EA	4" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	77.70	
		For Zinc Plated, Add	21.76	
		For Hot Dip Galvanized, Add	31.08	
		For Advanced Fluoropolymer (Blue Coating), Add	54.39	
33 14 13 36-0306	EA	5" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	78.96	
		For Zinc Plated, Add	22.11	
		For Hot Dip Galvanized, Add	31.58	
		For Advanced Fluoropolymer (Blue Coating), Add	55.27	
33 14 13 36-0307	EA	6" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	118.44	
		For Zinc Plated, Add	33.16	
		For Hot Dip Galvanized, Add	47.38	
		For Advanced Fluoropolymer (Blue Coating), Add	82.91	
33 14 13 36-0308	EA	8" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	185.19	
		For Zinc Plated, Add	51.85	
		For Hot Dip Galvanized, Add	74.08	
		For Advanced Fluoropolymer (Blue Coating), Add	129.63	
33 14 13 36-0309	EA	10" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	347.34	
		For Zinc Plated, Add	97.26	
		For Hot Dip Galvanized, Add	138.94	
		For Advanced Fluoropolymer (Blue Coating), Add	243.14	
33 14 13 36-0310	EA	12" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	505.61	
		For Zinc Plated, Add	141.57	
		For Hot Dip Galvanized, Add	202.24	
		For Advanced Fluoropolymer (Blue Coating), Add	353.93	
33 14 13 36-0311	EA	14" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	694.87	
		For Zinc Plated, Add	194.56	
		For Hot Dip Galvanized, Add	277.95	
		For Advanced Fluoropolymer (Blue Coating), Add	486.41	
33 14 13 36-0312	EA	16" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	964.84	
		For Zinc Plated, Add	270.16	
		For Hot Dip Galvanized, Add	385.94	
		For Advanced Fluoropolymer (Blue Coating), Add	675.39	
33 14 13 36-0313	EA	18" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	1,235.87	
		For Zinc Plated, Add	346.04	
		For Hot Dip Galvanized, Add	494.35	
		For Advanced Fluoropolymer (Blue Coating), Add	865.11	
33 14 13 36-0314	EA	20" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	1,308.66	
		For Zinc Plated, Add	366.42	
		For Hot Dip Galvanized, Add	523.46	
		For Advanced Fluoropolymer (Blue Coating), Add	916.06	
33 14 13 36-0315	EA	24" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	1,652.61	
		For Zinc Plated, Add	462.73	
		For Hot Dip Galvanized, Add	661.04	
		For Advanced Fluoropolymer (Blue Coating), Add	1,156.83	
33 14 13 36-0316	EA	30" Pipe Diameter, Class 300, Steel Flange Bolt Pack.....	2,580.99	
		For Zinc Plated, Add	722.68	
		For Hot Dip Galvanized, Add	1,032.40	
		For Advanced Fluoropolymer (Blue Coating), Add	1,806.69	
33 14 13 36-0317		Flanged Steel Pipe Fittings, Standard Wall Thickness (33 14 13 36-0001)		
		See CSI section 33 14 13 36-0276 for bolt pack.		
33 14 13 36-0318		Flanged 90 Degree Elbows, Standard Wall Thickness, Steel (33 14 13 36-0317)		
33 14 13 36-0319	EA	4" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	489.89	220.35
		For Class 300, Add	118.82	
33 14 13 36-0320	EA	6" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	830.73	363.73
		For Class 300, Add	212.70	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0321	EA	8" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	1,248.58	511.26
		<i>For Class 300, Add</i>	359.19	
33 14 13 36-0322	EA	10" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	1,661.57	584.21
		<i>For Class 300, Add</i>	585.35	
33 14 13 36-0323	EA	12" Diameter, 90 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	2,288.16	764.44
		<i>For Class 300, Add</i>	850.89	
33 14 13 36-0324		Flanged 45 Degree Elbows, Standard Wall Thickness, Steel (33 14 13 36-0317)		
33 14 13 36-0325	EA	4" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	476.98	220.35
		<i>For Class 300, Add</i>	109.20	
33 14 13 36-0326	EA	6" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	799.00	363.73
		<i>For Class 300, Add</i>	189.07	
33 14 13 36-0327	EA	8" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	1,235.15	511.26
		<i>For Class 300, Add</i>	349.18	
33 14 13 36-0328	EA	10" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	1,553.44	584.21
		<i>For Class 300, Add</i>	504.79	
33 14 13 36-0329	EA	12" Diameter, 45 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	2,131.36	764.44
		<i>For Class 300, Add</i>	734.08	
33 14 13 36-0330		Flanged 22.5 Degree Elbows, Standard Wall Thickness, Steel (33 14 13 36-0317)		
33 14 13 36-0331	EA	4" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	472.52	220.35
		<i>For Class 300, Add</i>	105.88	
33 14 13 36-0332	EA	6" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	788.46	363.73
		<i>For Class 300, Add</i>	181.21	
33 14 13 36-0333	EA	8" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	1,169.85	511.26
		<i>For Class 300, Add</i>	300.53	
33 14 13 36-0334	EA	10" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	1,519.63	584.21
		<i>For Class 300, Add</i>	479.60	
33 14 13 36-0335	EA	12" Diameter, 22.5 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	2,082.32	764.44
		<i>For Class 300, Add</i>	697.54	
33 14 13 36-0336		Flanged 11.25 Degree Elbows, Standard Wall Thickness, Steel (33 14 13 36-0317)		
33 14 13 36-0337	EA	4" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	474.61	220.35
		<i>For Class 300, Add</i>	107.44	
33 14 13 36-0338	EA	6" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	793.62	363.73
		<i>For Class 300, Add</i>	185.06	
33 14 13 36-0339	EA	8" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	1,179.41	511.26
		<i>For Class 300, Add</i>	307.66	
33 14 13 36-0340	EA	10" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	1,537.18	584.21
		<i>For Class 300, Add</i>	492.68	
33 14 13 36-0341	EA	12" Diameter, 11.25 Degree Elbow, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	2,107.78	764.44
		<i>For Class 300, Add</i>	716.51	
33 14 13 36-0342		Flanged Tees, Standard Wall Thickness, Steel (33 14 13 36-0317)		
33 14 13 36-0343	EA	4"x4"x4", Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	751.78	330.53
		<i>For Class 300, Add</i>	190.90	
33 14 13 36-0344	EA	6"x6"x6", Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	1,232.26	545.47
		<i>For Class 300, Add</i>	308.71	
33 14 13 36-0345	EA	8"x8"x8", Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	1,845.54	766.83
		<i>For Class 300, Add</i>	518.42	
33 14 13 36-0346	EA	10"x10"x10" Tees, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	2,394.99	876.38
		<i>For Class 300, Add</i>	805.49	
33 14 13 36-0347	EA	12"x12"x12" Tees, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated.....	3,323.30	1,146.66
		<i>For Class 300, Add</i>	1,195.17	
33 14 13 36-0348		Flanged Reducing Tees, Standard Wall Thickness, Steel (33 14 13 36-0317)		



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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0349	EA	6"x6"x4", Reducing Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated		1,206.30	545.47
		For Class 300, Add	.....	289.37	
33 14 13 36-0350	EA	8"x8"x6", Reducing Tee, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,803.78	766.83
		For Class 300, Add	.....	487.30	
33 14 13 36-0351	EA	10"x10"x 8" Reducing Tees, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	2,342.28	876.38
		For Class 300, Add	.....	766.22	
33 14 13 36-0352	EA	12"x12"x6" Reducing Tees, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	3,148.82	1,146.66
		For Class 300, Add	.....	1,065.19	
33 14 13 36-0353 Flanged Eccentric Reducers, Standard Wall Thickness, Steel (33 14 13 36-0317)					
33 14 13 36-0354	EA	6" x 4", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	739.62	363.73
		For Class 300, Add	.....	144.83	
33 14 13 36-0355	EA	8" x 4", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,085.04	511.26
		For Class 300, Add	.....	237.35	
33 14 13 36-0356	EA	8" x 6", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,053.56	511.26
		For Class 300, Add	.....	213.90	
33 14 13 36-0357	EA	10" x 8", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,293.27	584.21
		For Class 300, Add	.....	310.96	
33 14 13 36-0358	EA	12" x 4", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,637.09	764.44
		For Class 300, Add	.....	365.85	
33 14 13 36-0359	EA	12" x 6", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,885.79	764.44
		For Class 300, Add	.....	551.13	
33 14 13 36-0360	EA	12" x 8", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,790.85	764.44
		For Class 300, Add	.....	480.40	
33 14 13 36-0361	EA	12" x 10", Eccentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,764.18	764.44
		For Class 300, Add	.....	460.53	
33 14 13 36-0362 Flanged Concentric Reducers, Standard Wall Thickness, Steel (33 14 13 36-0317)					
33 14 13 36-0363	EA	6" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	719.65	363.73
		For Class 300, Add	.....	129.95	
33 14 13 36-0364	EA	8" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,015.94	511.26
		For Class 300, Add	.....	185.87	
33 14 13 36-0365	EA	8" x 6", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,029.39	511.26
		For Class 300, Add	.....	195.89	
33 14 13 36-0366	EA	10" x 8", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,290.70	584.21
		For Class 300, Add	.....	309.05	
33 14 13 36-0367	EA	12" x 4", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,804.68	764.44
		For Class 300, Add	.....	490.70	
33 14 13 36-0368	EA	12" x 6", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,655.60	764.44
		For Class 300, Add	.....	379.64	
33 14 13 36-0369	EA	12" x 8", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,692.71	764.44
		For Class 300, Add	.....	407.28	
33 14 13 36-0370	EA	12" x 10", Concentric Reducer, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Epoxy Coated	.....	1,731.16	764.44
		For Class 300, Add	.....	435.93	
33 14 13 36-0371 Flanged Crosses, Standard Wall Thickness, Steel (33 14 13 36-0317)					
33 14 13 36-0372	EA	8" x 8" x 8" x 8", Crosses, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Coated	.....	2,494.05	1,018.75
		For Class 300, Add	.....	718.68	
33 14 13 36-0373	EA	12" x 12" x 12" x 12", Crosses, Steel, Standard Wall Thickness, Flanged Ends, Class 150, Cement Mortar Lined And Coated	.....	4,531.25	1,526.86
		For Class 300, Add	.....	1,668.58	
33 14 13 36-0374 Grooved-Joint Pipe, Cement Mortar Lined And Epoxy Coated (33 14 13 36)					
		Note: Excludes fittings, elbow, tee, reducer fitting or couplings.			
33 14 13 36-0375	LF	3" Diameter, Schedule 40, AGS, Cement Mortar Lined And Epoxy Coated	.....	67.32	26.66
33 14 13 36-0376	LF	4" Diameter, Schedule 40, AGS, Cement Mortar Lined And Epoxy Coated	.....	82.09	29.68
33 14 13 36-0377	LF	6" Diameter, Schedule 40, AGS, Cement Mortar Lined And Epoxy Coated	.....	142.98	52.07
33 14 13 36-0378	LF	8" Diameter, Schedule 40, AGS, Cement Mortar Lined And Epoxy Coated	.....	184.65	58.99
33 14 13 36-0379	LF	10" Diameter, Schedule 40, AGS, Cement Mortar Lined And Epoxy Coated	.....	240.28	70.43

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0380	LF	12" Diameter, Schedule 40, AGS, Cement Mortar Lined And Epoxy Coated	288.71	80.87
33 14 13 36-0381		Grooved-Joint Pipe Fittings (33 14 13 36)		
33 14 13 36-0382		90 Degree Grooved Elbow (33 14 13 36-0381)		
33 14 13 36-0383	EA	3" 90 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	186.12	40.50
33 14 13 36-0384	EA	4" 90 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	217.70	53.45
33 14 13 36-0385	EA	6" 90 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	500.06	87.41
33 14 13 36-0386	EA	8" 90 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	925.19	104.01
33 14 13 36-0387	EA	10" 90 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	1,377.38	121.37
33 14 13 36-0388	EA	12" 90 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	2,122.26	145.64
33 14 13 36-0389		45 Degree Grooved Elbow (33 14 13 36-0381)		
33 14 13 36-0390	EA	3" 45 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	186.07	40.50
33 14 13 36-0391	EA	4" 45 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	217.70	53.45
33 14 13 36-0392	EA	6" 45 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	500.06	87.41
33 14 13 36-0393	EA	8" 45 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	925.19	104.01
33 14 13 36-0394	EA	10" 45 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	1,377.38	121.37
33 14 13 36-0395	EA	12" 45 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	2,122.26	145.64
33 14 13 36-0396		22.5 Degree Grooved Elbow (33 14 13 36-0381)		
33 14 13 36-0397	EA	3" 22.5 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	172.00	40.50
33 14 13 36-0398	EA	4" 22.5 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	227.65	53.45
33 14 13 36-0399	EA	6" 22.5 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	528.72	87.41
33 14 13 36-0400	EA	8" 22.5 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	980.80	104.01
33 14 13 36-0401	EA	10" 22.5 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	1,316.01	121.37
33 14 13 36-0402	EA	12" 22.5 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	1,748.47	145.64
33 14 13 36-0403		11.25 Degree Grooved Elbow (33 14 13 36-0381)		
33 14 13 36-0404	EA	3" 11.25 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	171.99	40.50
33 14 13 36-0405	EA	4" 11.25 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	227.64	53.45
33 14 13 36-0406	EA	6" 11.25 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	528.70	87.41
33 14 13 36-0407	EA	8" 11.25 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	980.75	104.01
33 14 13 36-0408	EA	10" 11.25 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	1,315.95	121.37
33 14 13 36-0409	EA	12" 11.25 Degree Elbow, Steel, AGS, Schedule 40, Cement Mortar Lined And Epoxy Coated	1,748.39	145.64
33 14 13 36-0410		Grooved Couplings (33 14 13 36-0381)		
33 14 13 36-0411	EA	3" Coupling, Steel, AGS, Schedule 40	55.98	20.00
33 14 13 36-0412	EA	4" Coupling, Steel, AGS, Schedule 40	82.10	26.66
33 14 13 36-0413	EA	6" Coupling, Steel, AGS, Schedule 40	141.70	43.64
33 14 13 36-0414	EA	8" Coupling, Steel, AGS, Schedule 40	202.18	52.07
33 14 13 36-0415	EA	10" Coupling, Steel, AGS, Schedule 40	299.99	62.38
33 14 13 36-0416	EA	12" Coupling, Steel, AGS, Schedule 40	337.38	68.30
33 14 13 39		Copper Public Water Utility Distribution Piping (33 14 13)		
33 14 13 39-0001		Type L Copper Water Distribution Piping (33 14 13 39)		
33 14 13 39-0002	LF	1/2" Type L Copper Water Distribution Pipe	8.64	2.16
33 14 13 39-0003	LF	3/4" Type L Copper Water Distribution Pipe	11.09	2.43
33 14 13 39-0004	LF	1" Type L Copper Water Distribution Pipe	14.78	2.70
33 14 13 39-0005	LF	1-1/4" Type L Copper Water Distribution Pipe	18.61	3.23
33 14 13 39-0006	LF	1-1/2" Type L Copper Water Distribution Pipe	23.05	4.32
33 14 13 39-0007	LF	2" Type L Copper Water Distribution Pipe	34.08	5.39
33 14 13 39-0008	LF	2-1/2" Type L Copper Water Distribution Pipe	42.78	6.48
33 14 13 39-0009	LF	3" Type L Copper Water Distribution Pipe	54.08	7.12
33 14 13 39-0010	LF	3-1/2" Type L Copper Water Distribution Pipe	72.54	8.96
33 14 13 39-0011	LF	4" Type L Copper Water Distribution Pipe	96.02	11.32
33 14 13 39-0012	LF	5" Type L Copper Water Distribution Pipe	156.60	14.13
33 14 13 39-0013	LF	6" Type L Copper Water Distribution Pipe	202.82	17.04
33 14 13 39-0014	LF	8" Type L Copper Water Distribution Pipe	354.09	19.09
33 14 13 39-0015		Type K Copper Water Distribution Piping (33 14 13 39)		
33 14 13 39-0016	LF	1/2" Type K Copper Water Distribution Pipe	9.27	2.16
33 14 13 39-0017	LF	3/4" Type K Copper Water Distribution Pipe	13.29	2.43
33 14 13 39-0018	LF	1" Type K Copper Water Distribution Pipe	16.96	2.70
33 14 13 39-0019	LF	1-1/4" Type K Copper Water Distribution Pipe	19.97	3.23
33 14 13 39-0020	LF	1-1/2" Type K Copper Water Distribution Pipe	25.06	4.32
33 14 13 39-0021	LF	2" Type K Copper Water Distribution Pipe	36.78	5.39
33 14 13 39-0022	LF	2-1/2" Type K Copper Water Distribution Pipe	50.25	6.48
33 14 13 39-0023	LF	3" Type K Copper Water Distribution Pipe	65.28	7.12
33 14 13 39-0024	LF	3-1/2" Type K Copper Water Distribution Pipe	85.71	8.96
33 14 13 39-0025	LF	4" Type K Copper Water Distribution Pipe	116.00	11.32
33 14 13 39-0026	LF	5" Type K Copper Water Distribution Pipe	197.95	14.13



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 39-0027	LF	6" Type K Copper Water Distribution Pipe.....	277.17	17.04
33 14 13 39-0028	LF	8" Type K Copper Water Distribution Pipe.....	491.31	19.09
33 14 13 39-0029		Copper Flare x Female Copper Flare Service Fitting Coupling (33 14 13 39) Note: Mueller H-15405		
33 14 13 39-0030	EA	3/4" Copper Flare x Female Copper Flare Service Fitting Coupling	36.33	
33 14 13 39-0031	EA	1" Copper Flare x Female Copper Flare Service Fitting Coupling	50.66	
33 14 13 39-0032	EA	1-1/2" Copper Flare x Female Copper Flare Service Fitting Coupling	114.05	
33 14 13 39-0033	EA	2" Copper Flare x Female Copper Flare Service Fitting Coupling	145.18	
33 14 13 39-0034		Copper Flare x Female Iron Pipe Service Fitting Coupling (33 14 13 39) Note: Mueller H-15450		
33 14 13 39-0035	EA	1/2" Copper Flare x Female Iron Pipe Service Fitting Coupling	40.08	
33 14 13 39-0036	EA	3/4" Copper Flare x Female Iron Pipe Service Fitting Coupling	36.46	
33 14 13 39-0037	EA	1" Copper Flare x Female Iron Pipe Service Fitting Coupling	49.52	
33 14 13 39-0038	EA	1-1/4" Copper Flare x Female Iron Pipe Service Fitting Coupling	71.43	
33 14 13 39-0039	EA	1-1/2" Copper Flare x Female Iron Pipe Service Fitting Coupling	91.02	
33 14 13 39-0040	EA	2" Copper Flare x Female Iron Pipe Service Fitting Coupling	141.15	
33 14 13 39-0041		Copper Flare x Male Iron Pipe Service Fitting Coupling (33 14 13 39) Note: Mueller H-15425		
33 14 13 39-0042	EA	1/2" Copper Flare x Male Iron Pipe Service Fitting Coupling	35.40	
33 14 13 39-0043	EA	3/4" Copper Flare x Male Iron Pipe Service Fitting Coupling	36.55	
33 14 13 39-0044	EA	1" Copper Flare x Male Iron Pipe Service Fitting Coupling	48.51	
33 14 13 39-0045	EA	1-1/4" Copper Flare x Male Iron Pipe Service Fitting Coupling	71.43	
33 14 13 39-0046	EA	1-1/2" Copper Flare x Male Iron Pipe Service Fitting Coupling	94.67	
33 14 13 39-0047	EA	2" Copper Flare x Male Iron Pipe Service Fitting Coupling	145.67	
33 14 13 39-0048		Brass Fittings (33 14 13 39)		
33 14 13 39-0049		Brass Compression Reducer Coupling (33 14 13 39-0048)		
33 14 13 39-0050	EA	3/4" x 1" Brass Compression Reducer Coupling.....	51.82	16.29
33 14 13 39-0051	EA	1" x 3/4" Brass Compression Reducer Coupling	40.51	16.29
33 14 13 39-0052	EA	1-1/2" x 1" Brass Compression Reducer Coupling	86.55	24.72
33 14 13 39-0053	EA	2" x 1-1/2" Brass Compression Reducer Coupling	107.09	31.36
33 14 13 39-0054		Copper Compression x Male NPT Brass Coupling (33 14 13 39-0048) Note: A. Y. McDonald 74753Q		
33 14 13 39-0055	EA	3/4" Copper Compression x Male NPT Brass Coupling.....	53.78	18.09
33 14 13 39-0056	EA	1" x 3/4" Copper Compression x Male NPT Brass Coupling.....	61.44	21.11
33 14 13 39-0057	EA	1" Copper Compression x Male NPT Brass Coupling.....	63.07	21.11
33 14 13 39-0058	EA	1" x 3/4" Copper Compression x Male NPT Brass Coupling.....	61.71	21.11
33 14 13 39-0059	EA	1-1/4" Copper Compression x Male NPT Brass Coupling.....	84.72	24.12
33 14 13 39-0060	EA	1-1/4" x 1" Copper Compression x Male NPT Brass Coupling.....	82.24	24.12
33 14 13 39-0061	EA	1-1/2" Copper Compression x Male NPT Brass Coupling.....	112.53	30.16
33 14 13 39-0062	EA	2" Copper Compression x Male NPT Brass Coupling.....	148.48	36.19
33 14 13 39-0063		Brass Nipples (33 14 13 39-0048)		
33 14 13 39-0064	EA	3/4" x 6" Long Brass Nipple	37.08	7.54
33 14 13 39-0065	EA	1" x 6" Long Brass Nipple	48.35	8.14
33 14 13 39-0066	EA	1-1/2" x 6" Long Brass Nipple	73.84	8.75
33 14 13 39-0067		Brass "H" Style Meter Insetters (33 14 13 39-0048)		
33 14 13 39-0068	EA	5/8" x 3/4" Compression End, Brass "H" Style Meter Insetters	284.70	33.32
33 14 13 39-0069	EA	5/8" x 3/4" Threaded End, Brass "H" Style Meter Insetters	180.90	33.32
33 14 13 39-0070		Meter Setters - Resetter, Brass (33 14 13 39-0048)		
33 14 13 39-0071	EA	1" Meter, 10" High Brass Meter Setter - Resetter	761.91	33.32
		Note: Male meter thread, bottom inlet/outlet, angle ball valve, top inlet/outlet with meter nuts.		
33 14 13 43		Public Water Utility Distribution Piping Coatings and Wraps (33 14 13)		
33 14 13 43-0001		Pipe Coatings (33 14 13 43)		
33 14 13 43-0002		Epoxy Wrap And Pipe Coating (33 14 13 43-0001) Note: Applied at fabrication shop.		
33 14 13 43-0003	LF	4" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	2.13	
33 14 13 43-0004	LF	6" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	2.62	
33 14 13 43-0005	LF	8" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	3.28	
33 14 13 43-0006	LF	10" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	3.90	
33 14 13 43-0007	LF	12" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	4.60	
33 14 13 43-0008	LF	14" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	6.11	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0009	LF	16" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	6.98	
33 14 13 43-0010	LF	18" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	7.33	
33 14 13 43-0011	LF	20" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	7.90	
33 14 13 43-0012	LF	24" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	9.20	
33 14 13 43-0013	LF	30" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	12.08	
33 14 13 43-0014	LF	36" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	19.09	
33 14 13 43-0015	LF	42" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	41.14	
33 14 13 43-0016	LF	48" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	47.02	
33 14 13 43-0017	LF	54" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	52.90	
33 14 13 43-0018	LF	60" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	58.77	
33 14 13 43-0019	LF	66" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	64.65	
33 14 13 43-0020	LF	72" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	70.50	
33 14 13 43-0021	LF	78" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating.....	76.41	
33 14 13 43-0022		Cement Coating With Fiberglass Or Wire Mesh Reinforcing (33 14 13 43-0001)		
		Note: Applied at fabrication shop. Thickness ranging between 1" and 2".		
33 14 13 43-0023	LF	4" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	7.60	
33 14 13 43-0024	LF	6" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	9.35	
33 14 13 43-0025	LF	8" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	11.69	
33 14 13 43-0026	LF	10" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	13.02	
33 14 13 43-0027	LF	12" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	14.71	
33 14 13 43-0028	LF	14" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	17.21	
33 14 13 43-0029	LF	16" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	19.56	
33 14 13 43-0030	LF	18" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	22.06	
33 14 13 43-0031	LF	20" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	24.52	
33 14 13 43-0032	LF	24" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	29.42	
33 14 13 43-0033	LF	30" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	36.77	
33 14 13 43-0034	LF	36" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	44.12	
33 14 13 43-0035	LF	42" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	51.48	
33 14 13 43-0036	LF	48" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	58.83	
33 14 13 43-0037	LF	54" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	66.19	
33 14 13 43-0038	LF	60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	73.54	
33 14 13 43-0039	LF	66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	80.89	
33 14 13 43-0040	LF	72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	88.25	
33 14 13 43-0041	LF	78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	95.60	
33 14 13 43-0042		Epoxy Wrap And Fitting Coating (33 14 13 43-0001)		
		Note: Applied at fabrication shop.		
33 14 13 43-0043	EA	4" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	10.59 0.49	
33 14 13 43-0044	EA	6" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	13.44 0.66	
33 14 13 43-0045	EA	8" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	19.51 0.85	
33 14 13 43-0046	EA	10" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	32.66 1.25	
33 14 13 43-0047	EA	12" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	49.86 1.84	
33 14 13 43-0048	EA	14" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	78.09 2.81	
33 14 13 43-0049	EA	16" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	119.77 3.63	
33 14 13 43-0050	EA	18" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	162.25 3.74	
33 14 13 43-0051	EA	20" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	221.01 4.47	
33 14 13 43-0052	EA	24" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	321.38 6.26	
33 14 13 43-0053		Cement Pipe Lining (33 14 13 43)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 14 13 43-0054	Cement Pipe Lining (33 14 13 43-0053)	
Note: Shop applied.		
33 14 13 43-0055	LF 4" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	13.20
	For 1/2" Thick, Add	1.01
33 14 13 43-0056	LF 6" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	16.40
	For 1/2" Thick, Add	1.25
33 14 13 43-0057	LF 8" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	19.98
	For 1/2" Thick, Add	1.56
33 14 13 43-0058	LF 10" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	26.00
	For 1/2" Thick, Add	1.95
33 14 13 43-0059	LF 12" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	32.05
	For 1/2" Thick, Add	2.34
33 14 13 43-0060	LF 14" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	41.15
	For 1/2" Thick, Add	2.74
33 14 13 43-0061	LF 16" Outside Diameter, 1/4" Thick Cement Pipe Lining.....	53.70
	For 1/2" Thick, Add	3.12
33 14 13 43-0062	LF 18" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	64.33
	For 1/2" Thick, Add	2.99
33 14 13 43-0063	LF 20" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	77.97
	For 1/2" Thick, Add	3.32
33 14 13 43-0064	LF 24" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	94.58
	For 1/2" Thick, Add	3.98
33 14 13 43-0065	LF 30" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	113.65
	For 1/2" Thick, Add	4.98
33 14 13 43-0066	LF 36" Outside Diameter, 5/16" Thick Cement Pipe Lining.....	136.78
	For 1/2" Thick, Add	5.98
33 14 13 43-0067	LF 42" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	159.61
	For 1/2" Thick, Add	5.13
33 14 13 43-0068	LF 48" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	182.35
	For 1/2" Thick, Add	5.86
33 14 13 43-0069	LF 54" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	205.17
	For 1/2" Thick, Add	6.59
33 14 13 43-0070	LF 60" Outside Diameter, 3/8" Thick Cement Pipe Lining.....	228.01
	For 1/2" Thick, Add	7.32
33 14 13 43-0071	LF 66" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	250.74
	For 1/2" Thick, Add	4.30
33 14 13 43-0072	LF 72" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	273.58
	For 1/2" Thick, Add	4.69
33 14 13 43-0073	LF 78" Outside Diameter, 7/16" Thick Cement Pipe Lining.....	296.40
	For 1/2" Thick, Add	5.08

33 14 13 43-0074	Cement Fitting Lining (33 14 13 43-0053)	
Note: Shop applied.		
33 14 13 43-0075	EA 4" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	13.98
	For 1/2" Thick, Add	1.17
33 14 13 43-0076	EA 6" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	17.95
	For 1/2" Thick, Add	1.56
33 14 13 43-0077	EA 8" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	25.38
	For 1/2" Thick, Add	2.03
33 14 13 43-0078	EA 10" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	42.01
	For 1/2" Thick, Add	3.12
33 14 13 43-0079	EA 12" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	64.10
	For 1/2" Thick, Add	4.69
33 14 13 43-0080	EA 14" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	95.57
	For 1/2" Thick, Add	6.31
33 14 13 43-0081	EA 16" Outside Diameter, 1/4" Thick Cement Fitting Lining.....	142.14
	For 1/2" Thick, Add	8.10
33 14 13 43-0082	EA 18" Outside Diameter, 5/16" Thick Cement Fittings Lining.....	192.98
	For 1/2" Thick, Add	8.96
33 14 13 43-0083	EA 20" Outside Diameter, 5/16" Thick Cement Fitting Lining.....	259.78
	For 1/2" Thick, Add	11.06
33 14 13 43-0084	EA 24" Outside Diameter, 5/16" Thick Cement Fitting Lining.....	378.32
	For 1/2" Thick, Add	15.94

33 14 13 43-0085	8 Mil Polyethylene Encasement Tubing (33 14 13 43)	
Note: ANSI/AWWA C105/A21.5-99 section 4.2.		
33 14 13 43-0086	LF 3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.08
33 14 13 43-0087	LF 10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.79
33 14 13 43-0088	LF 14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.23
33 14 13 43-0089	LF 18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.83
33 14 13 43-0090	LF 24" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.92
33 14 13 43-0091	LF 30" Diameter, 8 Mil Polyethylene Encasement Tubing.....	5.05
33 14 13 43-0092	LF 36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing.....	6.44
33 14 13 43-0093	LF 48" Diameter, 8 Mil Polyethylene Encasement Tubing.....	7.66
33 14 13 43-0094	LF 54" Diameter, 8 Mil Polyethylene Encasement Tubing.....	9.14
33 14 13 43-0095	LF 60" Diameter, 8 Mil Polyethylene Encasement Tubing.....	10.14

33 14 13 43-0096	Enecon Polymeric Pipe Wrap (33 14 13 43)	
Note: 1/4" thick polymeric wrap with three layers of integrated reinforcement. Includes minimal surface preparation.		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0097	LF	6" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i> <i>For <10', Add</i>	446.03 178.41 446.03	
33 14 13 43-0098	LF	8" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i> <i>For <10', Add</i>	603.45 241.38 603.45	
33 14 13 43-0099	LF	10" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i> <i>For <10', Add</i>	734.64 293.86 734.64	
33 14 13 43-0100	LF	12" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i> <i>For <10', Add</i>	865.82 346.33 865.82	
33 14 13 43-0101	LF	14" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i> <i>For <10', Add</i>	944.53 377.81 944.53	
33 14 13 43-0102	LF	16" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i> <i>For <10', Add</i>	1,075.72 430.29 1,075.72	
33 14 13 43-0103	LF	18" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i> <i>For <10', Add</i>	1,233.14 493.26 1,233.14	
33 14 13 43-0104	LF	20" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i> <i>For <10', Add</i>	1,377.44 550.98 1,377.44	
33 14 13 43-0105	LF	22" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	1,508.63 603.45	
33 14 13 43-0106	LF	24" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	1,639.81 655.92	
33 14 13 43-0107	LF	26" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	1,784.12 713.65	
33 14 13 43-0108	LF	28" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	1,915.30 766.12	
33 14 13 43-0109	LF	30" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	2,072.72 621.82	
33 14 13 43-0110	LF	32" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	2,177.67 653.30	
33 14 13 43-0111	LF	34" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	2,335.09 700.53	
33 14 13 43-0112	LF	36" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	2,466.28 739.88	
33 14 13 43-0113	LF	42" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	2,886.07 865.82	
33 14 13 43-0114	LF	48" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	3,305.86 991.76	
33 14 13 43-0115	LF	60" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	4,092.97 1,227.89	
33 14 13 43-0116	LF	96" Diameter Pipe, Enecon Polymeric Pipe Wrap Note: 1/4" thick polymeric wrap with three layers on integrated reinforcement. <i>For abrasive pipe blasting and/or mechanical preparation (grinding), Add</i>	6,559.25 1,967.78	

33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)

33 14 13 53-0001		Double Stud Stainless Steel Service Saddles (33 14 13 53) Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.	
33 14 13 53-0002	EA	4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	273.92
33 14 13 53-0003	EA	4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	379.85
33 14 13 53-0004	EA	4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	392.92
33 14 13 53-0005	EA	6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	326.13
33 14 13 53-0006	EA	6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	408.02
33 14 13 53-0007	EA	8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	341.13
33 14 13 53-0008	EA	8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	427.48
33 14 13 53-0009	EA	10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	383.06
33 14 13 53-0010	EA	10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	450.37
33 14 13 53-0011	EA	12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	399.76
33 14 13 53-0012	EA	12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	461.72



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 14 13 53-0013

Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53)

Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.

33 14 13 53-0014	EA	1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	232.76
33 14 13 53-0015	EA	2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	232.90
33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	247.83
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	236.51
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	252.99
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	279.05
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	296.69
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	271.95
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	298.22
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	313.46
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	287.01
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	314.08
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	329.25
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	302.55
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	328.87
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	343.86
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	493.07
33 14 13 53-0031	EA	6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	506.14
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	326.95
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	358.51
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	372.50
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	581.32
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	364.39
33 14 13 53-0037	EA	10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	402.01
33 14 13 53-0038	EA	10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	646.97
33 14 13 53-0039	EA	12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	395.40
33 14 13 53-0040	EA	12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	435.12
33 14 13 53-0041	EA	12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	450.91
33 14 13 53-0042	EA	12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	719.78
33 14 13 53-0043	EA	14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	458.25
33 14 13 53-0044	EA	14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	489.63
33 14 13 53-0045	EA	14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	526.19
33 14 13 53-0046	EA	14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	878.63
33 14 13 53-0047	EA	15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	471.32
33 14 13 53-0048	EA	15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	533.81
33 14 13 53-0049	EA	15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	555.98
33 14 13 53-0050	EA	15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	943.09
33 14 13 53-0051	EA	16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	492.38
33 14 13 53-0052	EA	16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	557.12
33 14 13 53-0053	EA	16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	579.84
33 14 13 53-0054	EA	16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	981.24
33 14 13 53-0055	EA	18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	542.97
33 14 13 53-0056	EA	18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	625.29
33 14 13 53-0057	EA	20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	615.59
33 14 13 53-0058	EA	20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	680.36
33 14 13 53-0059	EA	24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	642.67
33 14 13 53-0060	EA	24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	723.56

33 14 13 53-0061

Double Bale Bronze Service Saddles (33 14 13 53)

33 14 13 53-0062	EA	4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	317.50
33 14 13 53-0063	EA	4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	346.42
33 14 13 53-0064	EA	6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	360.57
33 14 13 53-0065	EA	6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	389.75
33 14 13 53-0066	EA	8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	400.36
33 14 13 53-0067	EA	8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	420.75
33 14 13 53-0068	EA	10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	390.02
33 14 13 53-0069	EA	10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	414.42
33 14 13 53-0070	EA	12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	489.08
33 14 13 53-0071	EA	12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	527.92
33 14 13 53-0072	EA	14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	723.25
33 14 13 53-0073	EA	14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	814.58
33 14 13 53-0074	EA	16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	838.96
33 14 13 53-0075	EA	16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	934.09

33 14 13 53-0076

Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)

Note: Taps are compression or NPT.

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COST
DEMOLITION
UNIT COST

33 14 13 53-0077	EA	4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	332.57	
33 14 13 53-0078	EA	4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	365.44	
33 14 13 53-0079	EA	6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	378.37	
33 14 13 53-0080	EA	6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	410.08	
33 14 13 53-0081	EA	8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	422.36	
33 14 13 53-0082	EA	8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	443.93	
33 14 13 53-0083	EA	10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	473.89	
33 14 13 53-0084	EA	10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	506.57	
33 14 13 53-0085	EA	12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	509.24	
33 14 13 53-0086	EA	12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	550.68	
33 14 13 53-0087	EA	14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	773.21	
33 14 13 53-0088	EA	14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	885.23	
33 14 13 53-0089	EA	16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	898.24	
33 14 13 53-0090	EA	16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	977.11	
33 14 13 53-0091	EA	18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,975.27	
33 14 13 53-0092	EA	18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,975.27	
33 14 13 53-0093	EA	20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,049.60	
33 14 13 53-0094	EA	20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,049.60	
33 14 13 53-0095	EA	24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,200.17	
33 14 13 53-0096	EA	24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,200.17	

33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)

33 14 13 53-0098	EA	4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,456.42	
33 14 13 53-0099	EA	6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,759.97	
33 14 13 53-0100	EA	8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,101.45	
33 14 13 53-0101	EA	8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,221.13	
33 14 13 53-0102	EA	10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,341.26	
33 14 13 53-0103	EA	10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,507.76	
33 14 13 53-0104	EA	10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,580.58	
33 14 13 53-0105	EA	12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,537.31	
33 14 13 53-0106	EA	12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,703.15	
33 14 13 53-0107	EA	12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,103.72	
33 14 13 53-0108	EA	12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,207.23	
33 14 13 53-0109	EA	14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,971.60	
33 14 13 53-0110	EA	14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,158.68	
33 14 13 53-0111	EA	14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,244.15	
33 14 13 53-0112	EA	14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,282.30	
33 14 13 53-0113	EA	14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,549.02	
33 14 13 53-0114	EA	16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,541.01	
33 14 13 53-0115	EA	16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,567.16	
33 14 13 53-0116	EA	16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,775.92	
33 14 13 53-0117	EA	16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,827.03	
33 14 13 53-0118	EA	16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,883.03	
33 14 13 53-0119	EA	16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,014.35	
33 14 13 53-0120	EA	16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,269.92	
33 14 13 53-0121	EA	18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,461.67	
33 14 13 53-0122	EA	18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,929.96	
33 14 13 53-0123	EA	18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,068.61	
33 14 13 53-0124	EA	18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,480.46	
33 14 13 53-0125	EA	20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,823.06	
33 14 13 53-0126	EA	20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,471.64	
33 14 13 53-0127	EA	20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,651.78	
33 14 13 53-0128	EA	20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,723.62	
33 14 13 53-0129	EA	20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,071.72	
33 14 13 53-0130	EA	20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,557.59	
33 14 13 53-0131	EA	20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,826.96	
33 14 13 53-0132	EA	24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,855.73	
33 14 13 53-0133	EA	24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,021.33	
33 14 13 53-0134	EA	24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,069.85	
33 14 13 53-0135	EA	24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,640.20	
33 14 13 53-0136	EA	24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,856.44	
33 14 13 53-0137	EA	24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,908.72	
33 14 13 53-0138	EA	24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	17,370.86	
33 14 13 53-0139	EA	24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	17,592.99	

33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0141	EA	4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,199.57	
33 14 13 53-0142	EA	6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,278.94	
33 14 13 53-0143	EA	6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,395.89	
33 14 13 53-0144	EA	8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,440.36	
33 14 13 53-0145	EA	8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,499.78	
33 14 13 53-0146	EA	8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,716.28	
33 14 13 53-0147	EA	10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,574.46	
33 14 13 53-0148	EA	10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,632.37	
33 14 13 53-0149	EA	10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,822.95	
33 14 13 53-0150	EA	10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,494.80	
33 14 13 53-0151	EA	12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,773.54	
33 14 13 53-0152	EA	12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,857.44	
33 14 13 53-0153	EA	12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,045.02	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 14 13 53-0154	EA	12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,647.12		
33 14 13 53-0155	EA	12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,881.75		
33 14 13 53-0156	EA	14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,319.47		
33 14 13 53-0157	EA	14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,389.26		
33 14 13 53-0158	EA	14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,789.25		
33 14 13 53-0159	EA	14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,284.63		
33 14 13 53-0160	EA	14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,607.53		
33 14 13 53-0161	EA	16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,749.81		
33 14 13 53-0162	EA	16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,821.79		
33 14 13 53-0163	EA	16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,087.32		
33 14 13 53-0164	EA	16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,794.90		
33 14 13 53-0165	EA	16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,963.81		
33 14 13 53-0166	EA	18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,924.43		
33 14 13 53-0167	EA	18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,053.04		
33 14 13 53-0168	EA	18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,230.86		
33 14 13 53-0169	EA	18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,063.09		
33 14 13 53-0170	EA	18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,231.81		
33 14 13 53-0171	EA	20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,521.74		
33 14 13 53-0172	EA	20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,593.57		
33 14 13 53-0173	EA	20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,989.87		
33 14 13 53-0174	EA	20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,658.48		
33 14 13 53-0175	EA	20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,943.45		
33 14 13 53-0176	EA	24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,805.43		
33 14 13 53-0177	EA	24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,960.22		
33 14 13 53-0178	EA	24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,168.46		
33 14 13 53-0179	EA	24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,116.52		
33 14 13 53-0180	EA	24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,292.35		
33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve (33 14 13 53)					
33 14 13 53-0182	EA	4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,380.62		
33 14 13 53-0183	EA	6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,507.61		
33 14 13 53-0184	EA	6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,595.15		
33 14 13 53-0185	EA	8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,631.64		
33 14 13 53-0186	EA	8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,732.14		
33 14 13 53-0187	EA	8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,028.00		
33 14 13 53-0188	EA	10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,870.59		
33 14 13 53-0189	EA	10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,981.79		
33 14 13 53-0190	EA	10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,247.20		
33 14 13 53-0191	EA	10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,012.99		
33 14 13 53-0192	EA	12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,137.08		
33 14 13 53-0193	EA	12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,287.86		
33 14 13 53-0194	EA	12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,637.78		
33 14 13 53-0195	EA	12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,093.01		
33 14 13 53-0196	EA	12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,441.56		
33 14 13 53-0197	EA	14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,439.25		
33 14 13 53-0198	EA	14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,623.72		
33 14 13 53-0199	EA	14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,017.45		
33 14 13 53-0200	EA	14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,473.12		
33 14 13 53-0201	EA	14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,715.15		
33 14 13 53-0202	EA	16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,967.39		
33 14 13 53-0203	EA	16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,218.77		
33 14 13 53-0204	EA	16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,410.84		
33 14 13 53-0205	EA	16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,900.62		
33 14 13 53-0206	EA	16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,233.58		
33 14 13 53-0207	EA	18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,275.62		
33 14 13 53-0208	EA	18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,650.25		
33 14 13 53-0209	EA	18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,850.62		
33 14 13 53-0210	EA	18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,281.27		
33 14 13 53-0211	EA	18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,850.33		
33 14 13 53-0212	EA	20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,542.48		
33 14 13 53-0213	EA	20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,916.15		
33 14 13 53-0214	EA	20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,079.35		
33 14 13 53-0215	EA	20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,878.87		
33 14 13 53-0216	EA	20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,324.86		
33 14 13 53-0217	EA	24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,188.44		
33 14 13 53-0218	EA	24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,243.49		
33 14 13 53-0219	EA	24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,438.76		
33 14 13 53-0220	EA	24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,392.68		
33 14 13 53-0221	EA	24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,902.85		
33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)					
33 14 13 53-0223	EA	3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	338.87	64.79	
33 14 13 53-0224	EA	4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	424.64	81.70	
33 14 13 53-0225	EA	6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	559.03	112.68	
33 14 13 53-0226	EA	8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	722.78	132.40	
33 14 13 53-0227	EA	10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,127.68	149.31	
33 14 13 53-0228	EA	12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,260.07	169.03	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)				
33 14 13 53-0230	EA	3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	490.73	64.79
33 14 13 53-0231	EA	4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	580.90	81.70
33 14 13 53-0232	EA	6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	776.09	112.68
33 14 13 53-0233	EA	8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	948.69	132.40
33 14 13 53-0234	EA	10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,156.66	149.31
33 14 13 53-0235	EA	12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,347.22	169.03
33 14 13 53-0236	EA	14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,598.73	185.93
33 14 13 53-0237	EA	16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,891.26	202.83
33 14 13 53-0238	EA	18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,231.45	223.11
33 14 13 53-0239	EA	20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,634.66	245.42
33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)				
33 14 13 53-0241	EA	4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	434.80	81.70
33 14 13 53-0242	EA	6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	584.10	112.68
33 14 13 53-0243	EA	8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	647.76	132.40
33 14 13 53-0244	EA	10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	940.12	149.31
33 14 13 53-0245	EA	12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,194.68	169.03
33 14 13 53-0246	EA	14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,339.50	185.93
33 14 13 53-0247	EA	16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,572.54	202.83
33 14 13 53-0248	EA	18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,764.17	223.11
33 14 13 53-0249	EA	20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,117.26	245.42
33 14 13 53-0250	EA	24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,547.19	269.99
33 14 13 53-0251	EA	30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	5,271.16	296.92
33 14 13 53-0252	EA	36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	7,104.37	326.66
33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)				
33 14 13 53-0254	EA	2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	155.24	45.07
33 14 13 53-0255	EA	2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	191.22	53.52
33 14 13 53-0256	EA	3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	236.54	64.79
33 14 13 53-0257	EA	4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	297.08	81.70
33 14 13 53-0258	EA	6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	396.84	112.68
33 14 13 53-0259	EA	8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	481.56	132.40
33 14 13 53-0260	EA	10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	599.54	149.31
33 14 13 53-0261	EA	12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	700.41	169.03
33 14 13 53-0262	EA	14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	978.05	185.93
33 14 13 53-0263	EA	16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,216.33	202.83
33 14 13 53-0264 Fabricated Coupling (Smith-Blair 411) (33 14 13 53)				
33 14 13 53-0265	EA	4" Steel Fabricated Coupling	520.73	184.15
33 14 13 53-0266	EA	6" Steel Fabricated Coupling	692.14	229.86
33 14 13 53-0267	EA	8" Steel Fabricated Coupling	803.27	262.89
33 14 13 53-0268	EA	10" Steel Fabricated Coupling	1,131.53	419.09
33 14 13 53-0269	EA	12" Steel Fabricated Coupling	1,280.54	457.19
33 14 13 53-0270	EA	14" Steel Fabricated Coupling	1,603.18	502.91
33 14 13 53-0271	EA	16" Steel Fabricated Coupling	1,936.02	558.79
33 14 13 53-0272	EA	18" Steel Fabricated Coupling	2,087.90	628.63
33 14 13 53-0273	EA	20" Steel Fabricated Coupling	2,471.91	717.53
33 14 13 53-0274	EA	24" Steel Fabricated Coupling	2,998.25	838.18
33 14 13 53-0275	EA	30" Steel Fabricated Coupling	4,151.63	1,005.81
33 14 13 53-0276	EA	36" Steel Fabricated Coupling	5,298.00	1,257.27
33 14 13 53-0277	EA	42" Steel Fabricated Coupling	6,122.44	1,435.06
33 14 13 53-0278	EA	48" Steel Fabricated Coupling	7,210.85	1,676.36
33 14 13 53-0279 Transition Coupling (Smith-Blair 413) (33 14 13 53)				
33 14 13 53-0280	EA	4" Steel Transition Coupling	661.84	184.15
33 14 13 53-0281	EA	6" Steel Transition Coupling	920.38	229.86
33 14 13 53-0282	EA	8" Steel Transition Coupling	1,053.32	262.89
33 14 13 53-0283	EA	10" Steel Transition Coupling	1,480.69	419.09
33 14 13 53-0284	EA	12" Steel Transition Coupling	1,744.73	457.19
33 14 13 53-0285	EA	14" Steel Transition Coupling	1,975.48	502.91
33 14 13 53-0286	EA	16" Steel Transition Coupling	2,380.82	558.79
33 14 13 53-0287	EA	18" Steel Transition Coupling	3,008.04	628.63
33 14 13 53-0288	EA	20" Steel Transition Coupling	3,230.01	717.53
33 14 13 53-0289	EA	24" Steel Transition Coupling	3,903.00	838.18
33 14 13 53-0290	EA	30" Steel Transition Coupling	5,196.10	1,005.81
33 14 13 53-0291	EA	36" Steel Transition Coupling	6,185.11	1,257.27
33 14 13 53-0292	EA	42" Steel Transition Coupling	7,379.93	1,435.06
33 14 13 53-0293	EA	48" Steel Transition Coupling	8,252.95	1,676.36

33 14 19 Valves and Hydrants for Water Utility Service (33 14)

Note: Flanged valves excludes bolt and gasket set. Excludes excavation and backfill. See CSI section 23 21 13 23-0713 for bolt and gasket sets.

33 14 19 00-0001 Accessories For Valves (33 14 19)



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0002 EA 1' Valve Extension Stem <i>For Each Additional LF, Add</i>	112.43 8.98	
33 14 19 00-0003 EA Up to 80" Long Indicator Post Telescoping Barrel Assembly Note: Excludes valve.	1,735.74	111.06
33 14 19 00-0004 EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly Note: Excludes valve.	1,969.31	122.17
33 14 19 00-0005 EA Adjust Water Valve Box To Grade	111.06	
33 14 19 00-0006 Water Utility Distribution Valves (33 14 19)		
33 14 19 00-0007 Angle Valves (33 14 19 00-0006) Note: For connecting meters to water service.		
33 14 19 00-0008 Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0007) Note: NIBCO T-335Y		
33 14 19 00-0009 EA 1/2" Diameter Threaded, Class 150, Bronze Angle Valve	105.64	19.30
33 14 19 00-0010 EA 3/4" Diameter Threaded, Class 150, Bronze Angle Valve	142.48	25.93
33 14 19 00-0011 EA 1" Diameter Threaded, Class 150, Bronze Angle Valve	191.65	31.96
33 14 19 00-0012 EA 1-1/4" Diameter Threaded, Class 150, Bronze Angle Valve	246.71	40.16
33 14 19 00-0013 EA 1-1/2" Diameter Threaded, Class 150, Bronze Angle Valve	307.80	46.43
33 14 19 00-0014 EA 2" Diameter Threaded, Class 150, Bronze Angle Valve	458.14	54.28
33 14 19 00-0015 EA 2-1/2" Diameter Threaded, Class 150, Bronze Angle Valve	732.79	74.08
33 14 19 00-0016 EA 3" Diameter Threaded, Class 150, Bronze Angle Valve	1,110.41	85.52
33 14 19 00-0017 Butterfly Valves (33 14 19 00-0006)		
33 14 19 00-0018 Lug Type Flanged, Cast Iron Disc, Butterfly Valves (33 14 19 00-0017) Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin		
33 14 19 00-0019 EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	2,181.23	205.05
33 14 19 00-0020 EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified)	2,441.94	205.05
33 14 19 00-0021 EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	2,449.64	317.32
33 14 19 00-0022 EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified)	2,708.12	317.32
33 14 19 00-0023 EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	2,833.45	393.60
33 14 19 00-0024 EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified)	3,091.93	393.60
33 14 19 00-0025 EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	3,200.63	502.93
33 14 19 00-0026 EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified)	3,457.63	502.93
33 14 19 00-0027 EA 10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	4,014.14	612.26
33 14 19 00-0028 EA 10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	4,014.14	612.26
33 14 19 00-0029 EA 12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified)	4,593.91	742.12
33 14 19 00-0030 EA 12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified)	4,852.39	742.12
33 14 19 00-0031 EA 14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12 Modified)	6,170.32	1,056.08
33 14 19 00-0032 EA 14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12 Modified)	6,846.23	1,056.08
33 14 19 00-0033 EA 16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16 Modified)	7,189.18	1,161.70
33 14 19 00-0034 EA 16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20 Modified)	8,018.10	1,161.70
33 14 19 00-0035 EA 18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24 Modified)	9,017.32	1,288.43
33 14 19 00-0036 EA 18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24 Modified)	9,895.26	1,288.43

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0037	EA	20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,C1,NBRN-NBR,150B,C1-S2*GS-6B-HD24 Modified).....	10,334.58	1,452.12
33 14 19 00-0038	EA	20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,C1,NBRN-NBR,150B,C1-S2*GS-6B-CW24 Modified).....	11,211.03	1,452.12
33 14 19 00-0039		Lug Type Flanged, Ductile Iron Disc, Butterfly Valves (33 14 19 00-0017) Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin		
33 14 19 00-0040	EA	24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20 Modified).....	17,286.17	1,782.14
33 14 19 00-0041	EA	24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10 Modified).....	27,837.04	1,782.14
33 14 19 00-0042	EA	24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20 Modified).....	17,234.03	1,782.14
33 14 19 00-0043	EA	30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified).....	28,313.51	2,820.32
33 14 19 00-0044	EA	36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified).....	56,005.54	3,760.43
33 14 19 00-0045	EA	42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32 Modified).....	66,209.50	5,640.64
33 14 19 00-0046	EA	48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24 Modified).....	83,994.72	7,050.81
33 14 19 00-0047	EA	54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24 Modified).....	117,372.60	8,460.97
33 14 19 00-0048	EA	60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36 Modified).....	147,081.17	10,153.15
33 14 19 00-0049	EA	72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36 Modified).....	211,073.55	12,183.79
33 14 19 00-0050	LF	3/16" Link, 316 Stainless Steel Chain For Use With DeZurik Chainwheel.....	19.48	
33 14 19 00-0051	EA	316 Stainless Steel Closing Link For Use With DeZurik Chainwheel.....	10.25	
		Note: One required per valve.		
33 14 19 00-0052		Lug Type Flanged, Butterfly Valve, Cast Iron Body, Cast Iron Disc With 316 Stainless Steel Edge (33 14 19 00-0017) Note: AWWA C-504.		
33 14 19 00-0053		Aboveground Service (33 14 19 00-0052)		
33 14 19 00-0054		Valve (33 14 19 00-0053)		
33 14 19 00-0055	EA	3" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504.....	1,990.55	188.81
33 14 19 00-0056	EA	4" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504.....	2,166.24	316.53
33 14 19 00-0057	EA	6" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504.....	2,866.84	393.60
33 14 19 00-0058	EA	8" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504.....	3,371.18	502.93
33 14 19 00-0059	EA	10" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504.....	4,872.18	612.26
33 14 19 00-0060	EA	12" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504.....	5,147.04	743.45
33 14 19 00-0061	EA	14" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504.....	8,321.72	1,056.08
33 14 19 00-0062	EA	16" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504.....	9,711.88	1,161.70
33 14 19 00-0063	EA	18" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504.....	12,002.48	1,067.08
33 14 19 00-0064	EA	20" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504.....	14,382.22	1,202.64
33 14 19 00-0065	EA	24" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504.....	19,801.63	1,475.98
33 14 19 00-0066		Valve With 120 Volt AC Electric Motor Operator (33 14 19 00-0053)		
33 14 19 00-0067	EA	3" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504, With 120 Volt AC Electric Motor Operator.....	14,505.49	188.81
33 14 19 00-0068	EA	4" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504, With 120 Volt AC Electric Motor Operator.....	14,701.64	316.53
33 14 19 00-0069	EA	6" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator.....	14,824.31	393.60
33 14 19 00-0070	EA	8" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator.....	15,282.62	502.93
33 14 19 00-0071	EA	10" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator.....	16,093.18	612.26



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0072	EA	12" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator.....	18,459.82	743.45
33 14 19 00-0073	EA	14" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator.....	19,829.12	1,056.08
33 14 19 00-0074	EA	16" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator.....	21,628.43	1,161.70
33 14 19 00-0075	EA	18" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator.....	30,680.79	1,288.43
33 14 19 00-0076	EA	20" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With 120 Volt AC Electric Motor Operator.....	33,647.18	1,452.12
33 14 19 00-0077 Valve With Pneumatic Or Hydraulic Motor Operator (33 14 19 00-0053)				
33 14 19 00-0078	EA	3" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504, With Pneumatic Or Hydraulic Operator.....	6,286.65	188.81
33 14 19 00-0079	EA	4" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504, With Pneumatic Or Hydraulic Operator.....	6,482.80	316.53
33 14 19 00-0080	EA	6" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator.....	6,764.01	393.60
33 14 19 00-0081	EA	8" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator.....	7,217.21	502.93
33 14 19 00-0082	EA	10" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator.....	9,909.87	612.26
33 14 19 00-0083	EA	12" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator.....	10,614.33	743.45
33 14 19 00-0084	EA	14" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator.....	11,773.94	1,056.08
33 14 19 00-0085	EA	16" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator.....	13,225.47	1,161.70
33 14 19 00-0086	EA	18" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator.....	14,268.68	1,288.43
33 14 19 00-0087	EA	20" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator.....	20,452.02	1,452.12
33 14 19 00-0088	EA	24" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, With Pneumatic Or Hydraulic Operator.....	33,564.48	1,475.98
33 14 19 00-0089 Buried Service (33 14 19 00-0052)				
33 14 19 00-0090	EA	4" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Lever, AWWA C504, Buried Service.....	3,905.14	316.53
33 14 19 00-0091	EA	6" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service.....	4,155.67	393.60
33 14 19 00-0092	EA	8" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service.....	5,565.26	502.93
33 14 19 00-0093	EA	10" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service.....	8,324.40	612.26
33 14 19 00-0094	EA	12" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service.....	8,701.55	743.45
33 14 19 00-0095	EA	14" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service.....	14,106.11	1,056.08
33 14 19 00-0096	EA	16" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service.....	16,662.35	1,161.70
33 14 19 00-0097	EA	18" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service.....	21,106.63	1,288.43
33 14 19 00-0098	EA	20" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service.....	24,778.81	1,452.12
33 14 19 00-0099	EA	24" Flanged Cast Iron Butterfly Valve, Cast Iron Disc With 316 Stainless Steel Edge, Gear Operator, AWWA C504, Buried Service.....	35,757.69	1,782.14
33 14 19 00-0100 Ductile Iron, Flanged End, Short-Body Type, Class 150, Butterfly Valves (Henry Pratt, Mueller) (33 14 19 00-0017)				
Note: Shall conform to AWWA C504				
33 14 19 00-0101	EA	6" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve.....	1,584.38	399.83
33 14 19 00-0102	EA	8" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve.....	2,022.04	502.93
33 14 19 00-0103	EA	10" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve.....	2,691.63	612.26
33 14 19 00-0104	EA	12" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve.....	3,235.40	743.45
33 14 19 00-0105	EA	14" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve.....	5,096.06	1,056.08
33 14 19 00-0106	EA	16" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve.....	5,944.91	1,161.70
33 14 19 00-0107	EA	18" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve.....	6,656.31	1,288.43
33 14 19 00-0108	EA	20" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve.....	8,612.81	1,452.12
33 14 19 00-0109	EA	24" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve.....	11,653.17	1,782.14
33 14 19 00-0110	EA	30" Ductile Iron, Flanged End, Short-Body Type, 150 PSI, Butterfly Valve.....	20,596.68	2,820.32
33 14 19 00-0111 Ductile Iron, Flanged End, Short-Body Type, Class 250, Butterfly Valves (Henry Pratt, Mueller) (33 14 19 00-0017)				
Note: Shall conform to AWWA C504				
33 14 19 00-0112	EA	6" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve.....	3,969.58	399.83
33 14 19 00-0113	EA	8" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve.....	4,479.24	502.93
33 14 19 00-0114	EA	10" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve.....	5,082.63	612.26
33 14 19 00-0115	EA	12" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve.....	6,294.49	743.45

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0116 EA 14" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve.....	7,836.96	1,056.08
33 14 19 00-0117 EA 16" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve.....	8,256.48	1,161.70
33 14 19 00-0118 EA 18" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve.....	11,004.82	1,288.43
33 14 19 00-0119 EA 20" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve.....	16,190.10	1,452.12
33 14 19 00-0120 EA 24" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve.....	24,073.64	1,782.14
33 14 19 00-0121 EA 30" Ductile Iron, Flanged End, Short-Body Type, 250 PSI, Butterfly Valve.....	31,563.31	2,820.32
33 14 19 00-0122 Check Valves (33 14 19 00-0006)		
33 14 19 00-0123 Flanged, Swing Type Gravity Operated Check Valves (33 14 19 00-0122)		
Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.		
33 14 19 00-0124 EA 2-1/2" Flanged, Swing Type Gravity Operated Check Valve.....	1,804.64	161.04
33 14 19 00-0125 EA 3" Flanged, Swing Type Gravity Operated Check Valve.....	1,839.01	188.81
33 14 19 00-0126 EA 4" Flanged, Swing Type Gravity Operated Check Valve.....	2,452.97	238.79
33 14 19 00-0127 EA 4" x 6" Flanged, Swing Type Gravity Operated Check Valve.....	3,544.51	359.29
33 14 19 00-0128 EA 4" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	3,660.03	401.26
33 14 19 00-0129 EA 6" Flanged, Swing Type Gravity Operated Check Valve.....	3,475.09	399.83
33 14 19 00-0130 EA 6" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	4,595.10	454.49
33 14 19 00-0131 EA 6" x 10" Flanged, Swing Type Gravity Operated Check Valve.....	4,769.90	510.90
33 14 19 00-0132 EA 8" Flanged, Swing Type Gravity Operated Check Valve.....	4,986.95	510.90
33 14 19 00-0133 EA 10" Flanged, Swing Type Gravity Operated Check Valve.....	8,586.73	621.96
33 14 19 00-0134 EA 12" Flanged, Swing Type Gravity Operated Check Valve.....	13,157.23	466.47
33 14 19 00-0135 EA 14" Flanged, Swing Type Gravity Operated Check Valve.....	18,610.11	1,056.08
33 14 19 00-0136 EA 16" Flanged, Swing Type Gravity Operated Check Valve.....	24,885.64	1,161.70
33 14 19 00-0137 EA 18" Flanged, Swing Type Gravity Operated Check Valve.....	36,318.19	1,288.43
33 14 19 00-0138 EA 20" Flanged, Swing Type Gravity Operated Check Valve.....	42,310.00	1,452.12
33 14 19 00-0139 Threaded, Bronze, Swing Type Check Valves (33 14 19 00-0122)		
Note: Class 125. Watts WCV-2, NIBCO T-413.		
33 14 19 00-0140 EA 1/4" Diameter Threaded, Bronze, Swing Type Check Valve.....	53.18	19.42
33 14 19 00-0141 EA 3/8" Diameter Threaded, Bronze, Swing Type Check Valve.....	55.03	19.42
33 14 19 00-0142 EA 1/2" Diameter Threaded, Bronze, Swing Type Check Valve.....	52.11	19.42
33 14 19 00-0143 EA 3/4" Diameter Threaded, Bronze, Swing Type Check Valve.....	69.29	26.23
33 14 19 00-0144 EA 1" Diameter Threaded, Bronze, Swing Type Check Valve.....	81.29	31.72
33 14 19 00-0145 EA 1-1/4" Diameter Threaded, Bronze, Swing Type Check Valve.....	113.71	40.16
33 14 19 00-0146 EA 1-1/2" Diameter Threaded, Bronze, Swing Type Check Valve.....	138.26	46.43
33 14 19 00-0147 EA 2" Diameter Threaded, Bronze, Swing Type Check Valve.....	179.89	54.28
33 14 19 00-0148 EA 2-1/2" Diameter Threaded, Bronze, Swing Type Check Valve.....	269.76	74.08
33 14 19 00-0149 Combination Air Release Valves (33 14 19 00-0006)		
33 14 19 00-0150 EA 1" Combination Air Release Valve.....	629.20	23.32
33 14 19 00-0151 EA 2" Combination Air Release Valve.....	1,015.46	39.98
33 14 19 00-0152 Corporation Stop And Curb Valve (33 14 19 00-0006)		
Note: AWWA C800		
33 14 19 00-0153 Ball Corporation Valves (33 14 19 00-0152)		
Note: Mueller B-25000.		
33 14 19 00-0154 EA 3/4" Ball Corporation Valve (Mueller B-25000).....	83.32	23.32
33 14 19 00-0155 EA 1" Ball Corporation Valve (Mueller B-25000).....	104.51	28.87
33 14 19 00-0156 EA 1-1/2" Ball Corporation Valve (Mueller B-25000).....	184.31	42.21
33 14 19 00-0157 EA 2" Ball Corporation Valve (Mueller B-25000).....	273.63	49.98
33 14 19 00-0158 Ground Key Corporation Valves (33 14 19 00-0152)		
Note: Mueller B-15000.		
33 14 19 00-0159 EA 1/2" Ground Key Corporation Valve.....	63.31	19.99
33 14 19 00-0160 EA 3/4" Ground Key Corporation Valve.....	70.29	23.32
33 14 19 00-0161 EA 1" Ground Key Corporation Valve.....	94.94	28.87
33 14 19 00-0162 EA 1-1/4" Ground Key Corporation Valve.....	170.78	35.54
33 14 19 00-0163 EA 1-1/2" Ground Key Corporation Valve.....	179.53	42.21
33 14 19 00-0164 EA 2" Ground Key Corporation Valve.....	273.57	49.98
33 14 19 00-0165 Ball Curb Valves (33 14 19 00-0152)		
Note: Mueller B-25204.		
33 14 19 00-0166 EA 3/4" Ball Curb Valve.....	99.23	23.32
33 14 19 00-0167 EA 1" Ball Curb Valve.....	131.49	28.87
33 14 19 00-0168 EA 1-1/2" Ball Curb Valve.....	246.76	42.21
33 14 19 00-0169 EA 2" Ball Curb Valve.....	365.08	49.98
33 14 19 00-0170 O Ring Seal Curb Valves (33 14 19 00-0152)		
Note: Mueller H-15204.		
33 14 19 00-0171 EA 3/4" O Ring Seal Curb Valve.....	99.23	23.32
33 14 19 00-0172 EA 1" O Ring Seal Curb Valve.....	138.73	28.87
33 14 19 00-0173 EA 1-1/4" O Ring Seal Curb Valve.....	185.16	35.54
33 14 19 00-0174 EA 1-1/2" O Ring Seal Curb Valve.....	246.76	42.21



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		Water Utilities	33 10	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0175	EA	2" O Ring Seal Curb Valve	365.00	49.98
33 14 19 00-0176 Corporation Stops (33 14 19 00-0152)				
33 14 19 00-0177	EA	1" Bronze Corporation Stop, Flare x MIP (Mueller B-24025N).....	192.07	31.36
33 14 19 00-0178	EA	1-1/2" Bronze Corporation Stop, Flare x MIP (Mueller B-24025N)	410.27	45.83
33 14 19 00-0179	EA	2" Bronze Corporation Stop, Flare x MIP (Mueller B-24025N).....	643.28	54.28
33 14 19 00-0180	EA	1" Bronze Corporation Stop, Compression x MIP (Mueller B-25028N).....	199.28	31.36
33 14 19 00-0181	EA	1-1/2" Bronze Corporation Stop, Compression x MIP (Mueller B-25028N).....	406.58	45.83
33 14 19 00-0182	EA	2" Bronze Corporation Stop, Compression x MIP (Mueller B-25028N).....	636.57	54.28
33 14 19 00-0183	EA	1" Bronze Corporation Stop, MIP x MIP (Mueller B-20013N)	198.23	31.36
33 14 19 00-0184	EA	1-1/2" Bronze Corporation Stop, MIP x MIP (Mueller B-22969N)	356.97	45.83
33 14 19 00-0185	EA	2" Bronze Corporation Stop, MIP x MIP (Mueller B-22969N)	568.26	54.28
33 14 19 00-0186 Gate Valve, AWWA C500 And C509 (33 14 19 00-0006)				
33 14 19 00-0187 Gate Valve, Flanged (33 14 19 00-0186)				
Note: Mueller A-2380-6.				
33 14 19 00-0188	EA	2" Gate Valve, Flanged.....	1,089.34	148.05
33 14 19 00-0189	EA	2-1/2" Gate Valve, Flanged.....	1,281.64	161.04
33 14 19 00-0190	EA	3" Gate Valve, Flanged.....	1,517.62	188.81
33 14 19 00-0191	EA	4" Gate Valve, Flanged.....	1,904.96	236.56
33 14 19 00-0192	EA	6" Gate Valve, Flanged.....	2,415.64	399.83
33 14 19 00-0193	EA	8" Gate Valve, Flanged.....	3,625.70	510.90
33 14 19 00-0194	EA	10" Gate Valve, Flanged.....	5,530.57	621.96
33 14 19 00-0195	EA	12" Gate Valve, Flanged.....	6,671.65	466.47
33 14 19 00-0196	EA	14" Gate Valve, Flanged.....	15,025.63	1,056.08
33 14 19 00-0197	EA	16" Gate Valve, Flanged.....	19,766.74	1,161.70
33 14 19 00-0198	EA	18" Gate Valve, Flanged.....	31,588.39	1,288.43
33 14 19 00-0199	EA	20" Gate Valve, Flanged.....	37,819.15	1,452.12
33 14 19 00-0200 Resilient Wedge Gate Valve, Flanged (33 14 19 00-0186)				
Note: Mueller A-2360-6.				
33 14 19 00-0201	EA	2" Resilient Wedge Gate Valve, Flanged.....	1,038.19	148.05
33 14 19 00-0202	EA	2-1/2" Resilient Wedge Gate Valve, Flanged.....	1,220.52	161.04
33 14 19 00-0203	EA	3" Resilient Wedge Gate Valve, Flanged.....	1,445.10	188.81
33 14 19 00-0204	EA	4" Resilient Wedge Gate Valve, Flanged.....	1,823.89	236.56
33 14 19 00-0205	EA	6" Resilient Wedge Gate Valve, Flanged.....	2,307.27	399.83
33 14 19 00-0206	EA	8" Resilient Wedge Gate Valve, Flanged.....	3,456.42	510.90
33 14 19 00-0207	EA	10" Resilient Wedge Gate Valve, Flanged.....	5,261.55	621.96
33 14 19 00-0208	EA	12" Resilient Wedge Gate Valve, Flanged.....	6,346.84	466.47
33 14 19 00-0209 Gate Valve, Mechanical Joint (33 14 19 00-0186)				
Note: Mueller A-2380-20.				
33 14 19 00-0210	EA	2" Gate Valve, Mechanical Joint.....	1,268.19	118.28
33 14 19 00-0211	EA	2-1/2" Gate Valve, Mechanical Joint.....	1,355.43	148.27
33 14 19 00-0212	EA	3" Gate Valve, Mechanical Joint.....	1,709.45	179.37
33 14 19 00-0213	EA	4" Gate Valve, Mechanical Joint.....	2,018.14	236.56
33 14 19 00-0214	EA	6" Gate Valve, Mechanical Joint.....	2,555.26	277.66
33 14 19 00-0215	EA	8" Gate Valve, Mechanical Joint.....	3,777.73	333.19
33 14 19 00-0216	EA	10" Gate Valve, Mechanical Joint.....	5,612.65	388.72
33 14 19 00-0217	EA	12" Gate Valve, Mechanical Joint.....	7,044.44	466.47
33 14 19 00-0218	EA	14" Gate Valve, Mechanical Joint.....	16,015.97	646.85
33 14 19 00-0219	EA	16" Gate Valve, Mechanical Joint.....	20,808.33	726.06
33 14 19 00-0220	EA	18" Gate Valve, Mechanical Joint.....	33,451.18	805.27
33 14 19 00-0221	EA	20" Gate Valve, Mechanical Joint.....	39,832.17	907.58
33 14 19 00-0222 Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0186)				
Note: Mueller A-2360-20.				
33 14 19 00-0223	EA	2" Resilient Wedge Gate Valve, Mechanical Joint.....	1,209.78	118.28
33 14 19 00-0224	EA	3" Resilient Wedge Gate Valve, Mechanical Joint.....	1,632.99	179.37
33 14 19 00-0225	EA	4" Resilient Wedge Gate Valve, Mechanical Joint.....	1,930.68	236.56
33 14 19 00-0226	EA	6" Resilient Wedge Gate Valve, Mechanical Joint.....	2,442.07	277.66
33 14 19 00-0227	EA	8" Resilient Wedge Gate Valve, Mechanical Joint.....	3,601.64	333.19
33 14 19 00-0228	EA	10" Resilient Wedge Gate Valve, Mechanical Joint.....	5,338.98	388.72
33 14 19 00-0229	EA	12" Resilient Wedge Gate Valve, Mechanical Joint.....	6,698.45	466.47
33 14 19 00-0230 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0186)				
Note: Mueller A-2361.				
33 14 19 00-0231	EA	14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	10,635.48	1,056.08
33 14 19 00-0232	EA	16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	11,558.69	1,161.70
33 14 19 00-0233	EA	18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	18,150.51	1,288.43
33 14 19 00-0234	EA	20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	21,684.59	1,452.12
33 14 19 00-0235	EA	24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	30,868.32	1,782.14

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0236	Gate Valve, Threaded, WW-V-51 Class A, Type 1 (33 14 19 00-0186)			
	Note: NIBCO T-113.			
33 14 19 00-0237	EA	1/4" Diameter Threaded, Bronze, Gate Valve.....	62.03	19.42
33 14 19 00-0238	EA	3/8" Diameter Threaded, Bronze, Gate Valve.....	63.88	19.42
33 14 19 00-0239	EA	1/2" Diameter Threaded, Bronze, Gate Valve.....	63.27	19.42
33 14 19 00-0240	EA	3/4" Diameter Threaded, Bronze, Gate Valve.....	81.47	26.23
33 14 19 00-0241	EA	1" Diameter Threaded, Bronze, Gate Valve.....	100.45	31.72
33 14 19 00-0242	EA	1-1/4" Diameter Threaded, Bronze, Gate Valve.....	136.55	40.16
33 14 19 00-0243	EA	1-1/2" Diameter Threaded, Bronze, Gate Valve.....	158.45	46.43
33 14 19 00-0244	EA	2" Diameter Threaded, Bronze, Gate Valve.....	192.27	54.28
33 14 19 00-0245	EA	2-1/2" Diameter Threaded, Bronze, Gate Valve.....	370.53	74.08
33 14 19 00-0246	EA	3" Diameter Threaded, Bronze, Gate Valve.....	444.15	84.97
33 14 19 00-0247	Cast Iron Body, Gate Valve, Epoxy Lined, Flanged, 200 Lb. With Non-Rising Stem (33 14 19 00-0186)			
	Note: Resilient Wedge, Non-rising Stem, 200 PSI, ANSI/AWWA C509, C550 and C111/A21.11 (Jenkins G-700, 701).			
33 14 19 00-0248	EA	2" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	629.35	160.78
33 14 19 00-0249	EA	2-1/2" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	651.24	161.04
33 14 19 00-0250	EA	3" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	734.45	188.81
33 14 19 00-0251	EA	4" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	937.61	316.53
33 14 19 00-0252	EA	5" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	1,183.71	354.23
33 14 19 00-0253	EA	6" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	1,446.83	393.60
33 14 19 00-0254	EA	8" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	2,134.57	502.93
33 14 19 00-0255	EA	10" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	3,015.66	612.26
33 14 19 00-0256	EA	12" Gate Valve, Cast Iron Body, Epoxy Lined, Epoxy Or Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	3,551.35	743.45
33 14 19 00-0257	Cast Iron Body, Gate Valve, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem (33 14 19 00-0186)			
	Note: Resilient Wedge, OS&Y, 200 PSI, ANSI/AWWA C509, C550 and C111/A21.11.			
33 14 19 00-0258	EA	2-1/2" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	1,025.36	161.04
33 14 19 00-0259	EA	3" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	1,141.56	188.81
33 14 19 00-0260	EA	4" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	1,588.32	316.53
33 14 19 00-0261	EA	6" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	2,427.00	393.60
33 14 19 00-0262	EA	8" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	3,897.97	502.93
33 14 19 00-0263	EA	10" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	5,951.32	612.26
33 14 19 00-0264	EA	12" Gate Valve, Cast Iron Body, Epoxy Coated With Rubber Coated Disc, Flanged, 200 Lb. With Non-Rising Stem.....	9,739.77	743.45
33 14 19 00-0265	Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve (33 14 19 00-0186)			
33 14 19 00-0266	EA	4", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve.....	1,410.77	236.56
33 14 19 00-0267	EA	6", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve.....	1,808.75	277.66
33 14 19 00-0268	EA	8", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve.....	2,625.10	333.19
33 14 19 00-0269	EA	10", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve.....	3,890.07	388.72
33 14 19 00-0270	EA	12", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve.....	4,690.96	466.47
33 14 19 00-0271	EA	14", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve.....	17,906.17	726.06
33 14 19 00-0272	EA	16", 250 PSI, Ductile Body With Epoxy Coated Interior, Resilient Wedge Gate Valve.....	19,471.77	1,161.70
33 14 19 00-0273	Ductile Iron Body, Gate Valve (J & S Valve) (33 14 19 00-0186)			
33 14 19 00-0274	EA	3" Non-Rising Stem (NRS), Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6603.5).....	1,100.38	179.92
33 14 19 00-0275	EA	3" Non-Rising Stem (NRS), Tapping Raised Face Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6603T.5).....	1,100.38	179.92
33 14 19 00-0276	EA	4" Non-Rising Stem (NRS), Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6604.5).....	1,525.84	236.56
33 14 19 00-0277	EA	4" Non-Rising Stem (NRS), Tapping Raised Face Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6604T).....	1,525.84	236.56
33 14 19 00-0278	EA	6" Non-Rising Stem (NRS), Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6606.5).....	1,933.53	277.66
33 14 19 00-0279	EA	6" Non-Rising Stem (NRS), Tapping Raised Face Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6606T).....	1,933.53	277.66
33 14 19 00-0280	EA	8" Non-Rising Stem (NRS), Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6608.5).....	2,944.85	333.19
33 14 19 00-0281	EA	8" Non-Rising Stem (NRS), Tapping Raised Face Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6608T).....	2,944.85	333.19



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0282	EA		10" Non-Rising Stem (NRS), Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6610.5).....	4,283.74	388.72
33 14 19 00-0283	EA		10" Non-Rising Stem (NRS), Tapping Raised Face Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6610T).....	4,283.74	388.72
33 14 19 00-0284	EA		12" Non-Rising Stem (NRS), Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6612.5).....	5,469.28	466.47
33 14 19 00-0285	EA		12" Non-Rising Stem (NRS), Tapping Raised Face Flanged X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV- 6612T).....	5,469.28	466.47
33 14 19 00-0286	EA		3" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-5.6803.5).....	998.27	205.05
33 14 19 00-0287	EA		4" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-5.6804.5).....	1,566.52	256.91
33 14 19 00-0288	EA		6" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-5.6806.5).....	1,981.28	301.53
33 14 19 00-0289	EA		8" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-5.6808.5).....	3,002.15	361.84
33 14 19 00-0290	EA		10" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-5.6810.5).....	4,350.59	422.15
33 14 19 00-0291	EA		12" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-5.6812.5).....	5,549.49	506.58
33 14 19 00-0292	EA		3" Non-Rising Stem (NRS), Mechanical Joint x Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6903.5).....	977.95	188.81
33 14 19 00-0293	EA		4" Non-Rising Stem (NRS), Mechanical Joint x Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6904.5).....	1,525.84	236.56
33 14 19 00-0294	EA		6" Non-Rising Stem (NRS), Mechanical Joint x Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6906.5).....	1,933.53	277.66
33 14 19 00-0295	EA		8" Non-Rising Stem (NRS), Mechanical Joint x Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6908.5).....	2,944.85	333.19
33 14 19 00-0296	EA		10" Non-Rising Stem (NRS), Mechanical Joint x Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6910.5).....	4,283.74	388.72
33 14 19 00-0297	EA		12" Non-Rising Stem (NRS), Mechanical Joint x Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-5.6912.5).....	5,469.28	466.47
33 14 19 00-0298	EA		2" Diameter Threaded, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6302).....	851.29	54.28
33 14 19 00-0299	EA		2-1/2" Diameter Threaded, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6302.5).....	902.46	80.81
33 14 19 00-0300	EA		3" Diameter Threaded, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6303).....	927.21	92.87
33 14 19 00-0301	EA		4" Non-Rising Stem (NRS), Push On X Flange, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6404).....	1,449.37	316.53
33 14 19 00-0302	EA		6" Non-Rising Stem (NRS), Push On X Flange, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6406).....	1,871.97	393.60
33 14 19 00-0303	EA		8" Non-Rising Stem (NRS), Push On X Flange, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6408).....	2,903.22	502.93
33 14 19 00-0304	EA		10" Non-Rising Stem (NRS), Push On X Flange, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6410).....	4,271.61	612.26
33 14 19 00-0305	EA		12" Non-Rising Stem (NRS), Push On X Flange, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6412).....	5,464.01	743.45
33 14 19 00-0306	EA		4" Non-Rising Stem (NRS), Push On X Push On, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut, (J & S Valve GV-6504).....	1,443.18	311.60
33 14 19 00-0307	EA		6" Non-Rising Stem (NRS), Push On X Push On, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut, (J & S Valve GV-6506).....	1,871.97	393.60
33 14 19 00-0308	EA		8" Non-Rising Stem (NRS), Push On X Push On, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut, (J & S Valve GV-6508).....	2,903.22	502.93
33 14 19 00-0309	EA		10" Non-Rising Stem (NRS), Push On X Push On, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut, (J & S Valve GV-6510).....	4,271.61	612.26
33 14 19 00-0310	EA		12" Non-Rising Stem (NRS), Push On X Push On, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut, (J & S Valve GV-6512).....	5,464.01	743.45
33 14 19 00-0311	EA		2" Non-Rising Stem (NRS), Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6602).....	695.45	160.41
33 14 19 00-0312	EA		3" Non-Rising Stem (NRS), Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6603).....	998.27	205.05
33 14 19 00-0313	EA		3" Non-Rising Stem (NRS), Tapping Raised Face Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6603T).....	977.95	188.81
33 14 19 00-0314	EA		4" Non-Rising Stem (NRS), Flange x Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6604).....	1,525.84	236.56
33 14 19 00-0315	EA		4" Non-Rising Stem (NRS), Tapping Raised Face Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6604T).....	1,525.84	236.56
33 14 19 00-0316	EA		6" Non-Rising Stem (NRS), Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6606).....	1,933.53	277.66
33 14 19 00-0317	EA		6" Non-Rising Stem (NRS), Tapping Raised Face Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6606T).....	1,933.53	277.66
33 14 19 00-0318	EA		8" Non-Rising Stem (NRS), Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6608).....	2,944.85	333.19
33 14 19 00-0319	EA		8" Non-Rising Stem (NRS), Tapping Raised Face Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6608T).....	2,944.85	333.19
33 14 19 00-0320	EA		10" Non-Rising Stem (NRS), Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6610).....	4,283.74	388.72
33 14 19 00-0321	EA		10" Non-Rising Stem (NRS), Tapping Raised Face Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6610T).....	4,283.74	388.72
33 14 19 00-0322	EA		12" Non-Rising Stem (NRS), Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6612).....	5,469.28	466.47
33 14 19 00-0323	EA		12" Non-Rising Stem (NRS), Tapping Raised Face Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6612T).....	5,469.28	466.47
33 14 19 00-0324	EA		14" Non-Rising Stem (NRS), Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6614).....	13,153.32	1,056.08

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0325	EA	16" Non-Rising Stem (NRS), Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6616).....	17,805.19	1,161.70
33 14 19 00-0326	EA	18" Non-Rising Stem (NRS), Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And 2" Nut (J & S Valve GV-6618).....	30,116.52	1,288.43
33 14 19 00-0327	EA	20" Non-Rising Stem (NRS), Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And 2" Nut (J & S Valve GV-6620).....	36,680.28	1,452.12
33 14 19 00-0328	EA	24" Non-Rising Stem (NRS), Flange X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And 2" Nut (J & S Valve GV-6624).....	47,451.00	1,782.14
33 14 19 00-0329	EA	2" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6702).....	1,004.47	160.41
33 14 19 00-0330	EA	2-1/2" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6702.5).....	1,072.18	174.89
33 14 19 00-0331	EA	3" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6703).....	1,109.51	205.05
33 14 19 00-0332	EA	4" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6704).....	1,651.51	236.56
33 14 19 00-0333	EA	5" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6705).....	2,408.25	255.45
33 14 19 00-0334	EA	6" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6706).....	2,452.67	277.66
33 14 19 00-0335	EA	8" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6708).....	3,249.75	333.19
33 14 19 00-0336	EA	10" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6710).....	5,324.09	388.72
33 14 19 00-0337	EA	12" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6712).....	5,858.64	466.47
33 14 19 00-0338	EA	14" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6714).....	14,859.09	1,056.08
33 14 19 00-0339	EA	16" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6716).....	20,238.17	1,161.70
33 14 19 00-0340	EA	18" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And Handwheel (J & S Valve GV-6718).....	32,226.07	1,288.43
33 14 19 00-0341	EA	20" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And Handwheel (J & S Valve GV-6720).....	41,795.51	1,452.12
33 14 19 00-0342	EA	24" Outside Stem And Yoke, Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And Handwheel (J & S Valve GV-6724).....	54,189.58	1,782.14
33 14 19 00-0343	EA	2-1/2" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6802.5).....	763.17	174.89
33 14 19 00-0344	EA	3" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6803).....	998.27	205.05
33 14 19 00-0345	EA	4" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6804).....	1,525.84	236.56
33 14 19 00-0346	EA	5" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6805).....	1,889.11	255.45
33 14 19 00-0347	EA	6" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6806).....	1,933.53	277.66
33 14 19 00-0348	EA	8" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6808).....	2,944.85	333.19
33 14 19 00-0349	EA	10" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6810).....	4,283.74	388.72
33 14 19 00-0350	EA	12" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6812).....	5,469.28	466.47
33 14 19 00-0351	EA	14" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6814).....	13,153.32	1,056.08
33 14 19 00-0352	EA	16" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Handwheel (J & S Valve GV-6816).....	17,805.19	1,161.70
33 14 19 00-0353	EA	18" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And Handwheel (J & S Valve GV-6818).....	30,116.52	1,288.43
33 14 19 00-0354	EA	20" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And Handwheel (J & S Valve GV-6820).....	36,680.28	1,452.12
33 14 19 00-0355	EA	24" Non-Rising Stem (NRS), Flanged, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And Handwheel (J & S Valve GV-6824).....	47,451.00	1,782.14
33 14 19 00-0356	EA	2" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6902).....	695.45	160.41
33 14 19 00-0357	EA	2-1/2" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6902.5).....	763.17	174.89
33 14 19 00-0358	EA	3" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6903).....	998.27	205.05
33 14 19 00-0359	EA	4" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6904).....	1,525.84	236.56
33 14 19 00-0360	EA	6" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6906).....	1,933.53	277.66
33 14 19 00-0361	EA	8" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6908).....	2,944.85	333.19
33 14 19 00-0362	EA	10" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6910).....	4,283.74	388.72
33 14 19 00-0363	EA	12" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6912).....	5,469.28	466.47
33 14 19 00-0364	EA	14" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6914).....	13,153.32	1,056.08
33 14 19 00-0365	EA	16" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve GV-6916).....	17,805.19	1,161.70
33 14 19 00-0366	EA	18" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And 2" Nut (J & S Valve GV-6918).....	30,116.52	1,288.43



Utilities			33	33
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0367	EA	20" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And 2" Nut (J & S Valve GV-6920)	36,680.28	1,452.12	
33 14 19 00-0368	EA	24" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Resilient Seated, Ductile Iron Body, Gate Valve With Bevel Gear And 2" Nut (J & S Valve GV-6924)	47,451.00	1,782.14	
33 14 19 00-0369	EA	2" Outside Stem And Yoke, Metal Seated, Ductile Iron Body, Gate Valve With Handwheel (J&S Valve MSGV-3702)	1,095.11	160.41	
33 14 19 00-0370	EA	3" Outside Stem And Yoke, Metal Seated, Ductile Iron Body, Gate Valve With Handwheel (J&S Valve MSGV-3703)	1,399.99	205.05	
33 14 19 00-0371	EA	4" Outside Stem And Yoke, Metal Seated, Ductile Iron Body, Gate Valve With Handwheel (J&S Valve MSGV-3704)	2,092.37	236.56	
33 14 19 00-0372	EA	6" Outside Stem And Yoke, Metal Seated, Ductile Iron Body, Gate Valve With Handwheel (J&S Valve MSGV-3706)	2,701.94	277.66	
33 14 19 00-0373	EA	8" Outside Stem And Yoke, Metal Seated, Ductile Iron Body, Gate Valve With Handwheel (J&S Valve MSGV-3708)	4,496.11	333.19	
33 14 19 00-0374	EA	10" Outside Stem And Yoke, Metal Seated, Ductile Iron Body, Gate Valve With Handwheel (J&S Valve MSGV-3710)	6,834.14	388.72	
33 14 19 00-0375	EA	12" Outside Stem And Yoke, Metal Seated, Ductile Iron Body, Gate Valve With Handwheel (J&S Valve MSGV-3712)	8,689.22	466.47	
33 14 19 00-0376	EA	14" Outside Stem And Yoke, Metal Seated, Ductile Iron Body, Gate Valve With Handwheel (J&S Valve MSGV-3714)	23,898.81	1,056.08	
33 14 19 00-0377	EA	16" Outside Stem And Yoke, Metal Seated, Ductile Iron Body, Gate Valve With Handwheel (J&S Valve MSGV-3716)	32,778.00	1,161.70	
33 14 19 00-0378	EA	18" Outside Stem And Yoke, Rotary Tribo-Electrostatic Separator (RTS), By-Pass, Metal Seated, Ductile Iron Body, Gate Valve With Bevel Gear And Handwheel (J&S Valve MSGV-3718)	51,288.17	1,288.43	
33 14 19 00-0379	EA	20" Outside Stem And Yoke, Rotary Tribo-Electrostatic Separator (RTS), By-Pass, Metal Seated, Ductile Iron Body, Gate Valve With Bevel Gear And Handwheel (J&S Valve MSGV-3720)	67,192.42	1,452.12	
33 14 19 00-0380	EA	24" Outside Stem And Yoke, Rotary Tribo-Electrostatic Separator (RTS), By-Pass, Metal Seated, Ductile Iron Body, Gate Valve With Bevel Gear And Handwheel (J&S Valve MSGV-3724)	91,432.07	1,782.14	
33 14 19 00-0381	EA	2" Non-Rising Stem (NRS), Flanged, Metal Seated, Ductile Iron Body, Flange, Gate Valve With Handwheel (J&S Valve MSGV-3802)	1,062.15	160.41	
33 14 19 00-0382	EA	2-1/2" Non-Rising Stem (NRS), Flanged, Metal Seated, Ductile Iron Body, Flange, Gate Valve With Handwheel (J&S Valve MSGV-3802.5)	1,298.79	174.89	
33 14 19 00-0383	EA	3" Non-Rising Stem (NRS), Flanged, Metal Seated, Ductile Iron Body, Flange, Gate Valve With Handwheel (J&S Valve MSGV-3803)	1,336.12	205.05	
33 14 19 00-0384	EA	4" Non-Rising Stem (NRS), Flanged, Metal Seated, Ductile Iron Body, Flange, Gate Valve With Handwheel (J&S Valve MSGV-3804)	1,999.66	236.56	
33 14 19 00-0385	EA	6" Non-Rising Stem (NRS), Flanged, Metal Seated, Ductile Iron Body, Flange, Gate Valve With Handwheel (J&S Valve MSGV-3806)	2,580.40	277.66	
33 14 19 00-0386	EA	8" Non-Rising Stem (NRS), Flanged, Metal Seated, Ductile Iron Body, Flange, Gate Valve With Handwheel (J&S Valve MSGV-3808)	4,279.80	333.19	
33 14 19 00-0387	EA	10" Non-Rising Stem (NRS), Flanged, Metal Seated, Ductile Iron Body, Flange, Gate Valve With Handwheel (J&S Valve MSGV-3810)	6,492.17	388.72	
33 14 19 00-0388	EA	12" Non-Rising Stem (NRS), Flanged, Metal Seated, Ductile Iron Body, Flange, Gate Valve With Handwheel (J&S Valve MSGV-3812)	8,254.54	466.47	
33 14 19 00-0389	EA	14" Non-Rising Stem (NRS), Flanged, Metal Seated, Ductile Iron Body, Flange, Gate Valve With Handwheel (J&S Valve MSGV-3814)	22,623.60	1,056.08	
33 14 19 00-0390	EA	16" Non-Rising Stem (NRS), Flanged, Metal Seated, Ductile Iron Body, Flange, Gate Valve With Handwheel (J&S Valve MSGV-3816)	32,561.69	1,161.70	
33 14 19 00-0391	EA	18" Non-Rising Stem (NRS), Flanged, Metal Seated Gate Valve, Ductile Iron Body, Gate Valve With Bevel Gear, Handwheel, Rotary Tribo-Electrostatic Separator (RTS), And 3" By-Pass With Handwheel (J & S Valve MSGV-3818)	50,033.57	1,288.43	
33 14 19 00-0392	EA	20" Non-Rising Stem (NRS), Flanged, Metal Seated Gate Valve, Ductile Iron Body, Gate Valve With Bevel Gear, Handwheel, Rotary Tribo-Electrostatic Separator (RTS), And 3" By-Pass With Handwheel (J & S Valve MSGV-3820)	65,049.92	1,452.12	
33 14 19 00-0393	EA	24" Non-Rising Stem (NRS), Flanged, Metal Seated Gate Valve, Ductile Iron Body, Gate Valve With Bevel Gear, Handwheel, Rotary Tribo-Electrostatic Separator (RTS), And 3" By-Pass With Handwheel (J & S Valve MSGV-3824)	87,940.20	1,782.14	
33 14 19 00-0394	EA	3" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Metal Seated, Gate Valve, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve MSGV-3903)	1,336.12	205.05	
33 14 19 00-0395	EA	4" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Metal Seated, Gate Valve, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve MSGV-3904)	1,999.66	236.56	
33 14 19 00-0396	EA	6" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Metal Seated, Gate Valve, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve MSGV-3906)	2,580.40	277.66	
33 14 19 00-0397	EA	8" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Metal Seated, Gate Valve, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve MSGV-3908)	4,279.80	333.19	
33 14 19 00-0398	EA	10" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Metal Seated, Gate Valve, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve MSGV-3910)	6,492.17	388.72	
33 14 19 00-0399	EA	12" Non-Rising Stem (NRS), Mechanical Joint X Mechanical Joint, Metal Seated, Gate Valve, Ductile Iron Body, Gate Valve With 2" Nut (J & S Valve MSGV-3912)	8,254.54	466.47	
33 14 19 00-0400		Plug Valves (33 14 19 00-0006)			
33 14 19 00-0401		Ductile Iron Body, Plug Valve (J & S Valve) (33 14 19 00-0400)			
33 14 19 00-0402	EA	3" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4803)	1,643.36	188.81	
33 14 19 00-0403	EA	4" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4804)	1,919.07	316.53	
33 14 19 00-0404	EA	6" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4806)	2,636.26	393.60	
33 14 19 00-0405	EA	8" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4808)	4,036.25	502.93	
33 14 19 00-0406	EA	10" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4810)	6,834.37	612.26	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0407 EA 12" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4812).....	9,479.14	743.45
33 14 19 00-0408 EA 14" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4814).....	14,902.35	1,056.08
33 14 19 00-0409 EA 16" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4816).....	20,139.29	1,161.70
33 14 19 00-0410 EA 18" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4818).....	29,578.84	1,288.43
33 14 19 00-0411 EA 20" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4820).....	43,006.85	1,452.12
33 14 19 00-0412 EA 24" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4824).....	71,502.66	1,782.14
33 14 19 00-0413 EA 30" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4830).....	136,782.80	2,904.24
33 14 19 00-0414 EA 36" Stainless Steel, Flanged, Metal Seated, 316 To Nitronic 60 Stainless Steel Seating, Ductile Iron Body, Plug Valve With Worm Gear And Handwheel (J&S Valve PV-4836).....	172,425.41	3,960.33
33 14 19 00-0415 Globe Valve, AWWA (33 14 19 00-0006)		
33 14 19 00-0416 Globe Valve, Threaded, WW-V-51 Class B, Type 1 (33 14 19 00-0415) Note: NIBCO T-235.		
33 14 19 00-0417 EA 1/8" Diameter Threaded, Globe Valve	87.77	19.42
33 14 19 00-0418 EA 1/4" Diameter Threaded, Globe Valve	84.05	19.42
33 14 19 00-0419 EA 3/8" Diameter Threaded, Globe Valve	85.90	19.42
33 14 19 00-0420 EA 1/2" Diameter Threaded, Globe Valve	87.77	19.42
33 14 19 00-0421 EA 3/4" Diameter Threaded, Globe Valve	119.19	26.23
33 14 19 00-0422 EA 1" Diameter Threaded, Globe Valve	167.25	31.72
33 14 19 00-0423 EA 1-1/4" Diameter Threaded, Globe Valve	244.51	40.16
33 14 19 00-0424 EA 1-1/2" Diameter Threaded, Globe Valve	291.89	46.43
33 14 19 00-0425 EA 2" Diameter Threaded, Globe Valve	407.25	54.28
33 14 19 00-0426 EA 2-1/2" Diameter Threaded, Globe Valve	747.58	74.08
33 14 19 00-0427 EA 3" Diameter Threaded, Globe Valve	1,023.50	85.41
33 14 19 00-0428 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0006)		
33 14 19 00-0429 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0428) Note: Flanged inlet X mechanical joint, Mueller H-667.		
33 14 19 00-0430 EA 2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,576.84	148.05
33 14 19 00-0431 EA 3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,032.74	188.81
33 14 19 00-0432 EA 4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,402.54	236.56
33 14 19 00-0433 EA 6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	3,176.00	399.83
33 14 19 00-0434 EA 8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	4,600.87	510.90
33 14 19 00-0435 EA 10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	6,715.63	621.96
33 14 19 00-0436 EA 12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	10,008.55	466.47
33 14 19 00-0437 EA 14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	18,457.95	1,056.08
33 14 19 00-0438 EA 16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	23,401.28	1,161.70
33 14 19 00-0439 EA 18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	38,033.05	1,288.43
33 14 19 00-0440 Ball Meter Valves (33 14 19 00-0006)		
33 14 19 00-0441 EA 3/4" Ball Meter Valve (Ford B43-342W).....	144.90	30.16
Note: 1" service line size. Pack joint for copper or plastic tubing inlet by meter swivel nut.		
33 14 19 00-0442 EA 1" Ball Meter Valve (Ford B43-444W).....	157.41	31.96
Note: 1" service line size. Pack joint for copper or plastic tubing inlet by meter swivel nut.		
33 14 19 00-0443 EA 1-1/2" Ball Meter Valve (Ford BF43-666W).....	301.01	54.28
Note: 1-1/2" service line size. Pack joint for copper or plastic tubing inlet by meter flange.		
33 14 19 00-0444 EA 2" Ball Meter Valve (Ford BF43-777W).....	421.04	54.88
Note: 2" service line size. Pack joint for copper or plastic tubing inlet by meter flange.		
33 14 19 00-0445 EA 3/4" Diameter Threaded, Ball Meter Valve (Mueller B-20200).....	147.85	30.16
33 14 19 00-0446 EA 1" Diameter Threaded, Ball Meter Valve (Mueller B-20200).....	197.59	31.96
33 14 19 00-0447 EA 1-1/2" Diameter Threaded, Ball Meter Valve (Mueller B-20200).....	356.73	54.28
33 14 19 00-0448 EA 2" Diameter Threaded, Ball Meter Valve (Mueller B-20200).....	471.00	54.88
33 14 19 00-0449 EA 3/4", 150 PSI, Ball Valve (Ford B13-332W).....	183.46	30.16
33 14 19 00-0450 EA 1", 150 PSI, Ball Valve (Ford B13-444W).....	298.90	31.96
33 14 19 00-0451 EA 1-1/2", 150 PSI, Ball Valve (Ford B13-666W).....	687.29	54.28
33 14 19 00-0452 EA 2", 150 PSI, Ball Valve (Ford B13-777W).....	933.41	54.88
33 14 19 00-0453 EA 1" Bronze Angle Meter Stop With 90 Degree Lock Wing, Compression x Outlet Swivel Meter Nut (Mueller B-2458N).....	322.92	36.19
33 14 19 00-0454 EA 1" Bronze Angle Meter Stop With 90 Degree Lock Wing, Flare x Outlet Swivel Meter Nut (Mueller B-2455N).....	314.53	36.19
33 14 19 00-0455 EA 2" Bronze Angle Meter Stop With 90 Degree Lock Wing, Compression x Outlet Meter Flange (Mueller B-24276N).....	776.98	55.48
33 14 19 00-0456 EA 1" Bronze Angle Meter Stop With 90 Degree Lock Wing, Flare x Outlet Meter Flange (Mueller B-24277N).....	314.53	36.19
33 14 19 00-0457 EA 3/4" Bronze Shut-Off Valve, Inlet Swivel Meter Nut x Outlet FIP Thread, Lockable Tabs With Lever Handle (Mueller B-24351).....	187.89	26.53
33 14 19 00-0458 EA 1" Bronze Shut-Off Valve, Inlet Swivel Meter Nut x Outlet FIP Thread, Lockable Tabs With Lever Handle (Mueller B-24351).....	265.22	31.36
33 14 19 00-0459 EA 1-1/2" Bronze Shut-Off Valve, Inlet Meter Flange x Outlet FIP Thread, Lockable Tabs With Lever Handle (Mueller B-24337).....	443.26	45.83
33 14 19 00-0460 EA 2" Bronze Shut-Off Valve, Inlet Meter Flange x Outlet FIP Thread, Lockable Tabs With Lever Handle (Mueller B-24337).....	717.53	54.28



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0461	Yokes And Angles (33 14 19 00-0006)		
33 14 19 00-0462	Yoke, Meter (33 14 19 00-0461)		
33 14 19 00-0463	EA Yoke, Meter, 5/8"	56.72	18.09
33 14 19 00-0464	EA Yoke, Meter, 3/4"	64.31	19.90
33 14 19 00-0465	EA Yoke, Meter, 1"	84.11	22.92
33 14 19 00-0466	Angles And Ells (33 14 19 00-0461)		
33 14 19 00-0467	EA 1-1/2" Flanged Angle, ELL	140.40	12.66
33 14 19 00-0468	EA ELL, Yoke, With Female I.P.T	41.96	10.85
33 14 19 00-0469	Air Release and Vacuum Combination Valves (33 14 19 00-0006)		
33 14 19 00-0470	Air Release and Vacuum Combination Valves, Ductile Iron Body (APCo or Crispin) (33 14 19 00-0469)		
33 14 19 00-0471	EA 1" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body	870.61	23.32
33 14 19 00-0472	EA 1-1/2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body	1,098.74	32.21
33 14 19 00-0473	EA 2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body	1,325.78	40.53
33 14 19 00-0474	EA 2-1/2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body	1,767.74	55.53
33 14 19 00-0475	EA 3" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body	2,204.86	67.75
33 14 19 00-0476	EA 4" Flanged, Air Release and Vacuum Combination Valves, Ductile Iron Body	3,352.20	185.03
33 14 19 00-0477	EA 6" Flanged, Air Release and Vacuum Combination Valves, Ductile Iron Body	4,241.02	200.63
33 14 19 00-0478	Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories, Ltd., D-040-C "Barak") (33 14 19 00-0469)		
33 14 19 00-0479	EA 1" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories D-040-C "Barak")	441.10	23.32
33 14 19 00-0480	EA 1-1/2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories D-040-C "Barak")	732.34	32.21
33 14 19 00-0481	EA 2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories D-040-C "Barak")	1,022.49	39.98
33 14 19 00-0482	EA 2-1/2" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories D-040-C "Barak")	1,494.52	55.53
33 14 19 00-0483	EA 3" Diameter Threaded, Air Release and Vacuum Combination Valves, Ductile Iron Body (A.R.I. Flow Control Accessories D-040-C "Barak")	1,961.06	67.75
33 14 19 00-0484	Pressure Reducing Valves (33 14 19 00-0006)		
33 14 19 00-0485	Pressure Reducing Valves, Ductile Iron Body (Cla-Val Model 100-42 700 Series Roll Seal) (33 14 19 00-0484)		
33 14 19 00-0486	EA 2" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	2,894.26	118.28
33 14 19 00-0487	EA 2-1/2" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	3,327.07	148.27
33 14 19 00-0488	EA 3" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	3,762.09	177.70
33 14 19 00-0489	EA 4" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	6,029.28	236.56
33 14 19 00-0490	EA 6" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	9,056.68	277.66
33 14 19 00-0491	EA 8" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	15,485.91	333.19
33 14 19 00-0492	EA 10" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	29,095.85	388.72
33 14 19 00-0493	EA 12" Pressure Reducing Valves, Ductile Iron Body (Cal-Val Model 100-42 700 Series Roll Seal)	36,464.77	466.47
33 14 19 00-0494	Booster Pump Control Valves (33 14 19 00-0006)		
33 14 19 00-0495	Pump Control Valves, Ductile Iron Body (Cla-Val Model 60-08/660-08) (33 14 19 00-0494)		
33 14 19 00-0496	EA 2" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	9,892.63	118.28
33 14 19 00-0497	EA 2-1/2" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	10,715.81	148.27
33 14 19 00-0498	EA 3" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	11,541.19	177.70
33 14 19 00-0499	EA 4" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	13,555.94	236.56
33 14 19 00-0500	EA 6" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	16,648.78	277.66
33 14 19 00-0501	EA 8" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	23,653.03	333.19
33 14 19 00-0502	EA 10" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	30,909.73	388.72
33 14 19 00-0503	EA 12" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	49,972.98	466.47
33 14 19 00-0504	EA 14" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	81,396.36	646.85
33 14 19 00-0505	EA 16" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	93,328.58	726.06
33 14 19 00-0506	EA 18" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	71,797.95	805.27
33 14 19 00-0507	EA 20" Pump Control Valves, Ductile Iron Body (Cal-Val Model 60-08/660-08)	73,753.03	907.58
33 14 19 00-0508	Water Service Meter Accessories (33 14 19 00-0006)		
33 14 19 00-0509	EA Bronze Meter Flange With Gasket For 1-1/2" And 2" Meters (AY McDonald 610F)	191.26	31.36
33 14 19 00-0510	EA 3/4" Bronze Ball Valve, FIP x Meter Swivel, With Locking Tabs (A.Y. McDonald 76101W)	208.48	25.33
33 14 19 00-0511	EA 1" Bronze Ball Valve, FIP x Meter Swivel, With Locking Tabs (A.Y. McDonald 76101W)	313.37	31.36
33 14 19 00-0512	EA 1-1/2" Bronze Ball Valve, FIP x Meter Swivel, With Locking Tabs (A.Y. McDonald 76101W)	490.68	45.83
33 14 19 00-0513	EA 2" Bronze Ball Valve, FIP x Meter Swivel, With Locking Tabs (A.Y. McDonald 76101W)	761.13	54.28

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 19 00-0514	Fire Hydrants (33 14 19)			
	Note: Breakaway type.			
33 14 19 00-0515	Three Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0514)			
	Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).			
33 14 19 00-0516	EA	1-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,743.22	306.13
33 14 19 00-0517	EA	2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,812.89	306.13
33 14 19 00-0518	EA	2-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,882.75	306.13
33 14 19 00-0519	EA	3' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,974.13	327.99
33 14 19 00-0520	EA	3-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,043.87	327.99
33 14 19 00-0521	EA	4' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,141.02	355.33
33 14 19 00-0522	EA	4-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,210.66	355.33
33 14 19 00-0523	EA	5' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,307.82	382.66
33 14 19 00-0524	EA	5-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,377.56	382.66
33 14 19 00-0525	EA	6' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,474.52	409.99
33 14 19 00-0526	EA	6-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,571.58	437.33
33 14 19 00-0527	EA	7' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,695.85	491.99
33 14 19 00-0528	EA	1-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,806.80	306.13
33 14 19 00-0529	EA	2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,897.22	306.13
33 14 19 00-0530	EA	2-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,987.42	306.13
33 14 19 00-0531	EA	3' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,099.48	327.99
33 14 19 00-0532	EA	3-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,189.68	327.99
33 14 19 00-0533	EA	4' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,307.55	355.33
33 14 19 00-0534	EA	4-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,397.64	355.33
33 14 19 00-0535	EA	5' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,515.26	382.66
33 14 19 00-0536	EA	5-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,605.43	382.66
33 14 19 00-0537	EA	6' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,722.80	409.99
33 14 19 00-0538	EA	6-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,840.57	437.33
33 14 19 00-0539	EA	7' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,985.27	491.99
33 14 19 00-0540	Two Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0514)			
	Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).			
33 14 19 00-0541	EA	1-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,360.76	306.13
33 14 19 00-0542	EA	2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,430.19	306.13
33 14 19 00-0543	EA	2-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,500.02	306.13
33 14 19 00-0544	EA	3' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,591.69	327.99
33 14 19 00-0545	EA	3-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,661.21	327.99
33 14 19 00-0546	EA	4' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,758.21	355.33
33 14 19 00-0547	EA	4-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,827.95	355.33
33 14 19 00-0548	EA	5' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,925.18	382.66
33 14 19 00-0549	EA	5-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,994.77	382.66
33 14 19 00-0550	EA	6' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,092.11	409.99
33 14 19 00-0551	EA	6-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,188.72	437.33
33 14 19 00-0552	EA	7' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,313.15	491.99
33 14 19 00-0553	EA	1-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,458.98	306.13
33 14 19 00-0554	EA	2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,549.20	306.13
33 14 19 00-0555	EA	2-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,639.29	306.13
33 14 19 00-0556	EA	3' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,751.57	327.99
33 14 19 00-0557	EA	3-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,841.54	327.99
33 14 19 00-0558	EA	4' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,959.26	355.33
33 14 19 00-0559	EA	4-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,049.28	355.33
33 14 19 00-0560	EA	5' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,167.19	382.66
33 14 19 00-0561	EA	5-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,257.16	382.66
33 14 19 00-0562	EA	6' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,374.85	409.99
33 14 19 00-0563	EA	6-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,492.16	437.33
33 14 19 00-0564	EA	7' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,637.36	491.99
33 14 19 00-0565	Three Way, Modern Model Fire Hydrant (33 14 19 00-0514)			
	Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).			
33 14 19 00-0566	EA	1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,905.83	306.13
33 14 19 00-0567	EA	2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,995.91	306.13
33 14 19 00-0568	EA	2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,086.27	306.13
33 14 19 00-0569	EA	3' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,198.37	327.99
33 14 19 00-0570	EA	3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,288.52	327.99
33 14 19 00-0571	EA	4' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,406.06	355.33
33 14 19 00-0572	EA	4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,496.33	355.33
33 14 19 00-0573	EA	5' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,613.88	382.66
33 14 19 00-0574	EA	5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,704.06	382.66
33 14 19 00-0575	EA	6' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,821.58	382.66
33 14 19 00-0576	EA	6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,939.39	437.33
33 14 19 00-0577	EA	7' Burial Section, Three Way, Modern Type Fire Hydrant.....	5,083.15	437.33
33 14 19 00-0578	Two Way, Modern Model Fire Hydrant (33 14 19 00-0514)			
	Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).			
33 14 19 00-0579	EA	1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,776.24	306.13
33 14 19 00-0580	EA	2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,844.79	306.13
33 14 19 00-0581	EA	2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,914.11	306.13
33 14 19 00-0582	EA	3' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,003.72	327.99



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0583	EA	3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,072.26	327.99
33 14 19 00-0584	EA	4' Burial Section, Two Way, Modern Type Fire Hydrant	3,168.13	355.33
33 14 19 00-0585	EA	4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,236.64	355.33
33 14 19 00-0586	EA	5' Burial Section, Two Way, Modern Type Fire Hydrant	3,332.59	382.66
33 14 19 00-0587	EA	5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,400.93	382.66
33 14 19 00-0588	EA	6' Burial Section, Two Way, Modern Type Fire Hydrant	3,496.81	409.99
33 14 19 00-0589	EA	6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,592.78	437.33
33 14 19 00-0590	EA	7' Burial Section, Two Way, Modern Type Fire Hydrant	3,715.12	491.99
33 14 19 00-0591 Safetop Model With Breakable Section (33 14 19 00-0514)				
Note: Prices listed are for mechanical joint. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0592	EA	4" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,792.48	218.66
33 14 19 00-0593	EA	6" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,986.66	246.00
33 14 19 00-0594	EA	8" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	3,256.46	273.33
33 14 19 00-0595 Fire Hydrant Extension Kits (33 14 19 00-0514)				
33 14 19 00-0596	EA	6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	577.82	27.33
33 14 19 00-0597	EA	12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	686.39	34.16
33 14 19 00-0598	EA	18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	748.32	41.00
33 14 19 00-0599	EA	24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	850.21	50.57
33 14 19 00-0600	EA	30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,286.06	52.62
33 14 19 00-0601	EA	36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,373.72	54.67
33 14 19 00-0602	EA	42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,394.44	57.40
33 14 19 00-0603	EA	48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,472.75	61.50
33 14 19 00-0604	EA	54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,623.11	73.80
33 14 19 00-0605	EA	60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,711.83	88.83
33 14 19 00-0606	EA	6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	642.81	30.62
33 14 19 00-0607	EA	12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	761.01	37.18
33 14 19 00-0608	EA	18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	873.09	44.82
33 14 19 00-0609	EA	24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	975.54	55.76
33 14 19 00-0610	EA	30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,337.46	57.95
33 14 19 00-0611	EA	36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,426.24	60.13
33 14 19 00-0612	EA	42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,487.21	63.41
33 14 19 00-0613	EA	48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,740.10	67.78
33 14 19 00-0614	EA	54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,906.42	80.90
33 14 19 00-0615	EA	60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	2,002.01	97.31
33 14 19 00-0616 Removal And Reinstallation Of Standard Fire Hydrant (33 14 19 00-0514)				
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.				
33 14 19 00-0617	EA	Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	874.65	
33 14 19 00-0618	EA	>5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	1,275.53	
33 14 19 00-0619	EA	Reset Fire Hydrant Upper Barrel	1,405.99	
Note: Includes Safety Repair Kit				
33 14 19 00-0620 Hydrant Head Replacement (33 14 19 00-0514)				
33 14 19 00-0621	EA	4" x 2-1/2" Bronze Hydrant Head Only With 2-1/2" Dome Cap (James Jones J-3708).....	5,218.31	437.33
33 14 19 00-0622 Insertion Valves (33 14 19)				
33 14 19 00-0623	EA	4" Diameter x 16" Length, 150 PSI, Stainless Steel Bolt-On Sleeve And Nozzle, Carbon Steel Flange, Insertion Valve (Hydra-Stop Insta-Valve Complete Fittings)	4,254.18	202.14
Note: Bolt-On sleeve for cast/ductile iron, steel, A.C. or P.V.C. Pipe				
33 14 19 00-0624	EA	6" Diameter x 16" Length, 150 PSI, Stainless Steel Bolt-On Sleeve And Nozzle, Carbon Steel Flange, Insertion Valve (Hydra-Stop Insta-Valve Complete Fittings)	4,746.84	222.13
Note: Bolt-On sleeve for cast/ductile iron, steel, A.C. or P.V.C. Pipe				
33 14 19 00-0625	EA	8" Diameter x 20" Length, 150 PSI, Stainless Steel Bolt-On Sleeve And Nozzle, Carbon Steel Flange, Insertion Valve (Hydra-Stop Insta-Valve Complete Fittings)	5,531.41	333.19
Note: Bolt-On sleeve for cast/ductile iron, steel, A.C. or P.V.C. Pipe				
33 14 19 00-0626	EA	10" Diameter x 20" Length, 150 PSI, Stainless Steel Bolt-On Sleeve And Nozzle, Carbon Steel Flange, Insertion Valve (Hydra-Stop Insta-Valve Complete Fittings)	8,508.86	388.72
Note: Bolt-On sleeve for cast/ductile iron, steel, A.C. or P.V.C. Pipe				
33 14 19 00-0627	EA	12" Diameter x 24" Length, 150 PSI, Stainless Steel Bolt-On Sleeve And Nozzle, Carbon Steel Flange, Insertion Valve (Hydra-Stop Insta-Valve Complete Fittings)	10,340.24	472.03
Note: Bolt-On sleeve for cast/ductile iron, steel, A.C. or P.V.C. Pipe				
33 14 19 00-0628 Yard Hydrants (33 14 19)				
Note: With 3/4" hose thread outlet.				
33 14 19 00-0629	EA	2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	383.21	36.19
33 14 19 00-0630	EA	4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	412.05	36.19
33 14 19 00-0631	EA	6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	440.88	36.19
33 14 19 00-0632	EA	2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	352.45	45.83
33 14 19 00-0633	EA	4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	369.65	45.83
33 14 19 00-0634	EA	6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	386.84	45.83

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0635		Sanitary Yard Hydrants (33 14 19)		
Note: With 3/4" hose thread outlet.				
33 14 19 00-0636	EA	2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,745.37	75.39
33 14 19 00-0637	EA	4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,835.48	75.39
33 14 19 00-0638	EA	6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,925.59	75.39
33 14 19 00-0639		Flushing Hydrants (33 14 19)		
33 14 19 00-0640	EA	2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	908.40	46.41
33 14 23		Enclosures for Water Utility Piping and Valves (33 14)		
Note: Excludes excavation and backfill. See CSI section 22 11 19 00-0473 for Enclosures.				
33 14 23 00-0001		Roadway Utility Box (33 14 23)		
33 14 23 00-0002		Utility Box (33 14 23 00-0001)		
Note: Christy Concrete Products.				
33 14 23 00-0003		B3 Utility Box, 9-3/8" x 15-1/2" (33 14 23 00-0002)		
33 14 23 00-0004	EA	9-3/8" x 15-1/2" Precast Concrete Utility Box.....	129.65	54.96
33 14 23 00-0005	EA	Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....	136.01	6.11
33 14 23 00-0006	EA	Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	55.76	6.11
33 14 23 00-0007	EA	Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box.....	299.16	6.11
33 14 23 00-0008	EA	12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	78.19	12.21
33 14 23 00-0009	EA	3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	113.65	12.21
33 14 23 00-0010		B9 Utility Box, 10-1/4" x 17-1/4" (33 14 23 00-0002)		
33 14 23 00-0011	EA	10-1/4" x 17-1/4" Precast Concrete Utility Box.....	156.48	73.28
33 14 23 00-0012	EA	Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....	159.29	7.32
33 14 23 00-0013	EA	Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	61.76	7.32
33 14 23 00-0014	EA	Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box	313.92	6.11
33 14 23 00-0015	EA	13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box	87.94	12.21
33 14 23 00-0016	EA	5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	117.32	18.32
33 14 23 00-0017	EA	12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box	136.17	33.59
33 14 23 00-0018		B12 Utility Box, 12" x 20" (33 14 23 00-0002)		
33 14 23 00-0019	EA	12" x 20" Precast Concrete Utility Box.....	172.16	79.38
33 14 23 00-0020	EA	Cast Iron Lid For 12" x 20" Utility Box.....	287.77	9.16
33 14 23 00-0021	EA	Reinforced Concrete Lid For 12" x 20" Utility Box.....	82.25	12.21
33 14 23 00-0022	EA	Steel Checkered Plate Cover For 12" x 20" Utility Box	421.26	12.21
33 14 23 00-0023	EA	12" High Reinforced Concrete Extension For 12" x 20" Utility Box	177.81	42.75
33 14 23 00-0024		B16 Utility Box, 12" x 22-1/4" (33 14 23 00-0002)		
33 14 23 00-0025	EA	12" x 22-1/4" Precast Concrete Utility Box.....	198.01	92.82
33 14 23 00-0026	EA	Cast Iron Lid For 12" x 22-1/4" Utility Box	324.71	12.21
33 14 23 00-0027	EA	Reinforced Concrete Lid For 12" x 22-1/4" Utility Box.....	102.36	12.21
33 14 23 00-0028	EA	Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box	423.66	12.21
33 14 23 00-0029	EA	16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box	142.87	20.77
33 14 23 00-0030	EA	12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box	181.15	42.75
33 14 23 00-0031		B30 Utility Box, 13-1/4" x 24" (33 14 23 00-0002)		
33 14 23 00-0032	EA	13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX)	238.76	109.92
33 14 23 00-0033	EA	Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D)	137.12	19.55
33 14 23 00-0034	EA	Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G)	523.57	15.88
33 14 23 00-0035	EA	16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....	142.87	20.77
33 14 23 00-0036	EA	5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA)	218.28	34.20
33 14 23 00-0037	EA	6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6)	171.32	23.20
33 14 23 00-0038	EA	12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12).....	234.83	54.96
33 14 23 00-0039		B36 Utility Box, 17-1/4" x 30" (33 14 23 00-0002)		
33 14 23 00-0040	EA	17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX)	312.56	139.23
33 14 23 00-0041	EA	Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D)	223.01	33.59
33 14 23 00-0042	EA	Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D)	655.51	23.20
33 14 23 00-0043	EA	20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL).....	197.62	43.97
33 14 23 00-0044	EA	6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA)	340.64	48.85
33 14 23 00-0045	EA	12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12).....	314.16	70.84
33 14 23 00-0046		B40 Utility Box, 24-1/2" x 36" (33 14 23 00-0002)		
33 14 23 00-0047	EA	24-1/2" x 36" Precast Concrete Utility Box.....	655.61	214.96
33 14 23 00-0048	EA	Reinforced Concrete Lid For 24-1/2" x 36" Utility Box.....	613.02	80.61
33 14 23 00-0049	EA	Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box.....	930.49	35.41
33 14 23 00-0050	EA	30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box	498.83	75.73
33 14 23 00-0051	EA	10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box	529.49	79.38



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		Water Utilities	33 10	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 23 00-0052		B48 Utility Box, 30-1/4" x 48-1/4" (33 14 23 00-0002)		
33 14 23 00-0053	EA	30-1/4" x 48-1/4" Precast Concrete Utility Box.....	823.01	244.26
33 14 23 00-0054	EA	1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	839.63	133.12
33 14 23 00-0055	EA	2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	1,067.12	133.12
33 14 23 00-0056	EA	2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box.....	1,471.87	61.07
33 14 23 00-0057	EA	36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box.....	711.59	164.88
33 14 23 00-0058	EA	10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box.....	651.25	111.14
33 14 23 00-0059		B65 Utility Box, 15" x 26-1/2" (33 14 23 00-0002)		
33 14 23 00-0060	EA	15" x 26-1/2" Precast Concrete Utility Box.....	208.70	139.23
33 14 23 00-0061	EA	Reinforced Concrete Lid For 15" x 26-1/2" Utility Box	128.69	33.59
33 14 23 00-0062	EA	Steel Checkered Plate Cover For 15" x 26-1/2" Utility Box	397.36	23.20
33 14 23 00-0063	EA	20" x 34" Reinforced Concrete Slab For 15" x 26-1/2" Utility Box.....	197.62	43.97
33 14 23 00-0064	EA	6" High Reinforced Concrete Base For 15" x 26-1/2" Utility Box	340.64	48.85
33 14 23 00-0065	EA	12" High Reinforced Concrete Extension For 15" x 26-1/2" Utility Box.....	225.60	70.84
33 14 23 00-0066		Roadway Or Curb Valve Boxes (33 14 23)		
33 14 23 00-0067		Round Head, Cast Iron Service, Roadway Or Valve Boxes (33 14 23 00-0066)		
33 14 23 00-0068	EA	36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box..... Note: Includes cover, top section and bottom section.	218.55	14.66
33 14 23 00-0069	EA	36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box..... Note: Includes cover, top section and bottom section.	253.29	14.66
33 14 23 00-0070	EA	42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box..... Note: Includes cover, top section and bottom section.	254.89	14.66
33 14 23 00-0071	EA	9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	66.45	7.33
33 14 23 00-0072	EA	16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	75.65	7.33
33 14 23 00-0073	EA	24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	89.49	7.33
33 14 23 00-0074	EA	36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box	328.59	18.33
33 14 23 00-0075	EA	Note: Includes cover, top section and bottom section.		
33 14 23 00-0075	EA	45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	567.57	25.66
33 14 23 00-0076	EA	Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0076	EA	45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	632.37	25.66
33 14 23 00-0077	EA	Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0077	EA	24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	341.45	18.33
33 14 23 00-0078	EA	Note: Includes cover, top section and bottom section.		
33 14 23 00-0078	EA	36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	356.93	18.33
33 14 23 00-0079	EA	Note: Includes cover, top section and bottom section.		
33 14 23 00-0079	EA	24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	345.10	18.33
33 14 23 00-0080	EA	Note: Includes cover, top section and bottom section.		
33 14 23 00-0080	EA	12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	125.26	7.33
33 14 23 00-0081	EA	18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	212.72	30.16
33 14 23 00-0082	EA	22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	219.75	31.36
33 14 23 00-0083	EA	30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	244.53	32.56
33 14 23 00-0084	EA	36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box	333.63	34.38
33 14 23 00-0085	EA	48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	401.58	36.19
33 14 23 00-0086	EA	18" Cast Iron Service Box Extension Section	93.66	
33 14 23 00-0087		Plastic Roadway Grade Water Meter Box And Cover (33 14 23 00-0066)		
33 14 23 00-0088	EA	12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	318.93	42.22
33 14 23 00-0089	EA	9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	239.92	30.16
33 14 23 00-0090	EA	Cast Iron Lid For Plastic Meter Box	71.64	
33 14 23 00-0091		Traffic Valve Box And Lid (33 14 23 00-0066)		
33 14 23 00-0092	EA	10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5).....	228.51	
33 14 23 00-0093	EA	14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12).....	752.79	
33 14 23 00-0094		Service Meter Boxes (Brooks) (33 14 23)		
33 14 23 00-0095	EA	12" x 20", Precast Service Meter Box With Concrete Cover, Exposed To Traffic (Brooks #37-1 PC)	206.32	62.73
33 14 23 00-0096	EA	12" x 20", Precast Service Meter Box, Concrete Cover With Cast Iron Reading Lid, Exposed To Traffic (Brooks #37-S).....	156.51	12.55
33 14 23 00-0097	EA	12" x 20", Precast Service Meter Box With Cast Iron Hinged Cover, Exposed To Traffic (Brooks #37-H4S).....	161.90	12.55
33 14 23 00-0098	EA	17" x 30", Precast Service Meter Box With Concrete Cover, Exposed To Traffic (Brooks 66-1 PC)	379.31	94.10
33 14 23 00-0099	EA	17" x 30", Precast Service Meter Box With Concrete Cover With Cast Iron Reading Lid, Exposed To Traffic (Brooks 66-S)	328.23	15.68
33 14 23 00-0100		Polyethylene Above Ground Enclosure (33 14 23)		
33 14 23 00-0101	EA	14" x 24" Polyethylene Above Ground Enclosure For 2" Air/Vacuum Valve	922.02	99.96
33 14 23 00-0102	EA	18" x 30" Polyethylene Above Ground Enclosure For 4" Air/Vacuum Valve	1,077.38	133.28
33 14 23 00-0103	EA	24" x 36" Polyethylene Above Ground Enclosure For 6" To 8" Air/Vacuum Valve.....	1,301.50	159.93

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 23 00-0104		Service Meter Boxes (Armorcast) (33 14 23)		
Note: Water meter boxes shall be polymer, rectangular in shape, with rounded corners and beveled edges throughout with a slot provided in the bottom of each end of the box for the water service pipe and the house lateral. Boxes shall have a polymer cover with AMR slot. Meter boxes are likely to be subjected to traffic loads, traffic rated boxes and covers shall have AASHTO load Traffic ratings of 20K.				
33 14 23 00-0105	EA	13" x 24" x 12" Polymer Concrete Meter Box (ARMORCAST - #A6001946PCX12).....	277.03	
33 14 23 00-0106	EA	17" x 30" x 12" Polymer Concrete Meter Box (ARMORCAST - #A6001640PCX12).....	294.34	
33 14 23 00-0107	EA	13" x 24" Polymer Concrete Meter Box Cover With AMR Slot And Hinged Reading Lid (ARMORCAST - #A6001866R-H9).....	102.79	
33 14 23 00-0108	EA	13" x 24" Polymer Concrete Meter Box Cover With Hinged Reading Lid (ARMORCAST - #A6001866R).....	106.41	
33 14 23 00-0109	EA	17" x 30" Polymer Concrete Meter Box Cover With AMR Slot And Hinged Reading Lid (ARMORCAST - #A6001643R-H9).....	135.84	
33 14 23 00-0110	EA	17" x 30" Polymer Concrete Meter Box Cover With Hinged Reading Lid (ARMORCAST - #A6001643R).....	140.00	
33 14 23 00-0111	EA	12" x 20" Polymer Concrete Meter Box Cover With Hinged Reading Lid (ARMORCAST - #A6000484R).....	74.26	
33 14 23 00-0112	EA	12" x 20" Polymer Concrete Meter Box Cover Only With No Hinged Reading Lid (ARMORCAST - #A6000482).....	47.77	

33 14 23 00-0113		Roadway Valve Box Cover Adjustment (33 14 23)		
Note: Excludes asphalt See CSI section 02 41 13 13-0038 for breakup and removal of pavement, 02 41 19 13-0059 for saw cutting pavement if required, 32 12 16 13-0023 for hand placed hot mix asphalt.				
33 14 23 00-0114	EA	Up To 3" Rise, Up To 6" Diameter, Adjustment To Roadway Valve Cover.....	328.91	

33 14 23 00-0115		Roadway Utility Box Cover Adjustment (33 14 23)		
Note: Excludes asphalt See CSI section 02 41 13 13-0038 for breakup and removal of pavement, 02 41 19 13-0059 for saw cutting pavement if required, 32 12 16 13-0023 for hand placed hot mix asphalt.				
33 14 23 00-0116	EA	Up To 6" Rise, Up To 2 SF, Adjustment To Roadway Utility Cover.....	686.50	
33 14 23 00-0117	EA	Up To 6" Rise, >2 To 4 SF, Adjustment To Roadway Utility Cover.....	876.01	
33 14 23 00-0118	EA	Up To 6" Rise, >4 To 6 SF, Adjustment To Roadway Utility Cover.....	1,247.03	
33 14 23 00-0119	EA	Up To 6" Rise, >6 To 10 SF, Adjustment To Roadway Utility Cover.....	1,521.29	

33 16 Water Utility Storage Tanks (33 10)

33 16 23		Ground-Level Steel Water Storage Tanks (33 16)		
See CSI section 23 13 23 16-0000 for aboveground steel storage tanks.				

33 19 Water Utility Metering Equipment (33 10)**33 19 13 Positive Displacement Water Meters** (33 19)**33 19 13 23 Nutating Disc Water Meters** (33 19 13)

33 19 13 23-0001		Bronze Disk Type Water Service Meters (33 19 13 23)		
33 19 13 23-0002	EA	5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	331.60	62.72
33 19 13 23-0003	EA	3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	417.07	74.78
33 19 13 23-0004	EA	1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	560.98	85.63
33 19 13 23-0005	EA	1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	1,093.76	127.85
33 19 13 23-0006	EA	2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	1,482.37	166.44

33 19 13 23-0007		Magnetic Driven, Positive Displacement Type Water Service Meters (33 19 13 23)		
33 19 13 23-0008	EA	5/8" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i).....	611.31	62.72
<i>For Owner Furnished Material, Deduct</i>			-547.83	
33 19 13 23-0009	EA	3/4" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	696.83	74.78
<i>For Owner Furnished Material, Deduct</i>			-621.44	
33 19 13 23-0010	EA	1" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	1,039.70	85.63
<i>For Owner Furnished Material, Deduct</i>			-953.54	
33 19 13 23-0011	EA	1-1/2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	1,760.96	127.85
<i>For Owner Furnished Material, Deduct</i>			-1,632.65	
33 19 13 23-0012	EA	2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	2,179.41	166.44
<i>For Owner Furnished Material, Deduct</i>			-2,011.89	
33 19 13 23-0013	EA	Electronic Transmitter.....	497.03	30.16
Note: For use with transmitting meter valve.				
<i>For Owner Furnished Material, Deduct</i>			-466.87	

33 19 16 Velocity-Type Water Meters (33 19)**33 19 16 13 Single-Jet Water Meters** (33 19 16)

33 19 16 13-0001		Small/Large Spectrum Water Service Meter (33 19 16 13)		
Note: Metron-Farnier.				
33 19 16 13-0002	EA	1-1/2" Diameter, 0 - 100 GPM, Flanged, Spectrum Water Meter.....	1,929.70	126.64
Note: Metron-Farnier #Spectrum 50.				
33 19 16 13-0003	EA	2" Diameter, 0 - 125 GPM, Flanged, Spectrum Water Meter.....	2,767.00	160.78
Note: Metron-Farnier #Spectrum 88.				
33 19 16 13-0004	EA	2" Diameter, 0 - 185 GPM, Flanged, Spectrum Water Meter.....	3,344.21	160.78
Note: Metron-Farnier #Spectrum 130.				
33 19 16 13-0005	EA	3" Diameter, 0 - 320 GPM, Flanged, Spectrum Water Meter.....	4,481.59	188.81
Note: Metron-Farnier #Spectrum 175.				
33 19 16 13-0006	EA	3" Diameter, 0 - 520 GPM, Flanged, Spectrum Water Meter.....	4,657.38	188.81
Note: Metron-Farnier #Spectrum 260.				



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Metering Equipment	33 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 19 16 13-0007 EA 4" Diameter, 0 - 520 GPM, Flanged, Spectrum Water Meter..... Note: Metron-Farnier #Spectrum 260.	6,496.94	295.44
33 19 16 13-0008 EA 4" Diameter, 0 - 750 GPM, Flanged, Spectrum Water Meter..... Note: Metron-Farnier #Spectrum 440.	10,734.22	295.44
33 19 16 13-0009 EA 6" Diameter, 0 - 750 GPM, Flanged, Spectrum Water Meter..... Note: Metron-Farnier #Spectrum 440.	13,465.71	399.83
33 19 16 13-0010 EA 8" Diameter, 0 - 750 GPM, Flanged, Spectrum Water Meter..... Note: Metron-Farnier #Spectrum 440.	16,736.06	510.90
33 19 16 23 Turbine Water Meters (33 19 16)		
33 19 16 23-0001 Flanged Turbine Water Service Meter (33 19 16 23)		
33 19 16 23-0002 Vertical Turbine Meters (33 19 16 23-0001)		
33 19 16 23-0003 EA 1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged	1,312.22	116.62
33 19 16 23-0004 EA 2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....	1,847.29	148.05
33 19 16 23-0005 EA 3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....	3,413.36	188.81
33 19 16 23-0006 EA 4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....	5,085.16	295.44
33 19 16 23-0007 EA 6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....	9,697.61	399.83
33 19 16 23-0008 Horizontal Turbine Meters (33 19 16 23-0001)		
33 19 16 23-0009 EA 1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged	2,089.61	116.62
33 19 16 23-0010 EA 2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged	2,957.11	148.05
33 19 16 23-0011 EA 3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged	3,858.31	188.81
33 19 16 23-0012 EA 4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged	5,673.32	295.44
33 19 16 23-0013 EA 6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged	11,840.54	399.83
33 19 16 23-0014 EA 8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged	15,850.50	510.90
33 19 16 23-0015 EA 10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged	22,186.39	621.96
33 19 16 23-0016 EA 12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged	26,626.97	980.70
33 19 19 Compound Water Meters (33 19)		
33 19 19 00-0001 Flanged Compound Type Water Service Meter (33 19 19)		
33 19 19 00-0002 EA 2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter	5,621.72	148.05
33 19 19 00-0003 EA 3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter	6,778.64	188.81
33 19 19 00-0004 EA 4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter	11,217.33	295.44
33 19 19 00-0005 EA 6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter	15,696.80	399.83
33 19 19 00-0006 EA 8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter	32,467.19	510.90
33 19 19 00-0007 EA 10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter	55,767.54	621.96
33 19 23 Magnetic Water Meters (33 19)		
33 19 23 00-0001 Flanged Electromagnetic Flow (EMF) Water Meter (33 19 23)		
33 19 23 00-0002 EA 2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	9,219.03	148.05
33 19 23 00-0003 EA 3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	12,985.18	188.81
33 19 23 00-0004 EA 4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	14,895.52	295.44
33 19 26 Ultrasonic Water Meters (33 19)		
33 19 26 00-0001 Ultrasonic Water Service Meters (Mastermeter Octive) (33 19 26)		
33 19 26 00-0002 EA 3" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	4,636.95	188.81
33 19 26 00-0003 EA 4" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	5,333.09	295.44
33 19 26 00-0004 EA 6" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	7,852.81	399.83
33 19 26 00-0005 EA 8" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	11,321.29	510.90
33 30 Sanitary Sewerage Utilities (33)		
33 31 Sanitary Sewerage Piping (33 30)		
33 31 11 Public Sanitary Sewerage Gravity Piping (33 31)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 31 11 00-0001 Plastic Sewer And Drain Piping (33 31 11)		
Note: Includes detectable tracer wire.		
33 31 11 00-0002 Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0001)		
33 31 11 00-0003 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	11.49	4.70
33 31 11 00-0004 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	13.93	5.54
33 31 11 00-0005 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	19.28	6.71
33 31 11 00-0006 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	24.10	7.83
33 31 11 00-0007 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	32.92	9.11
33 31 11 00-0008 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	44.10	10.59
33 31 11 00-0009 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	60.18	10.97
33 31 11 00-0010 LF 12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	78.96	11.36

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0011		Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0001) Note: D-2729 PVC pipe.		
33 31 11 00-0012	LF	3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	14.73	6.71
33 31 11 00-0013	LF	4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	17.29	7.83
33 31 11 00-0014	LF	6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	21.41	9.11
33 31 11 00-0015		Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0001)		
33 31 11 00-0016		Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbows (33 31 11 00-0015)		
33 31 11 00-0017	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	31.74	15.14
33 31 11 00-0018	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	40.76	19.57
33 31 11 00-0019	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	75.08	26.29
33 31 11 00-0020	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	121.03	30.38
33 31 11 00-0021	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	518.78	39.49
33 31 11 00-0022	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	866.74	53.14
33 31 11 00-0023	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	1,143.91	70.77
33 31 11 00-0024		Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbows (33 31 11 00-0015)		
33 31 11 00-0025	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	33.82	15.14
33 31 11 00-0026	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	40.58	19.57
33 31 11 00-0027	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	71.95	26.29
33 31 11 00-0028	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	105.76	30.38
33 31 11 00-0029	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	479.89	39.49
33 31 11 00-0030	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	776.36	53.14
33 31 11 00-0031	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	878.05	70.77
33 31 11 00-0032	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	1,309.93	94.26
33 31 11 00-0033		Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweeps (33 31 11 00-0015)		
33 31 11 00-0034	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	57.08	14.91
33 31 11 00-0035	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	55.34	19.57
33 31 11 00-0036	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	112.57	26.29
33 31 11 00-0037	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	189.78	30.38
33 31 11 00-0038	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	385.99	39.49
33 31 11 00-0039	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	692.23	53.14
33 31 11 00-0040	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	1,140.78	70.77
33 31 11 00-0041	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	1,735.12	94.26
33 31 11 00-0042		Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbows (33 31 11 00-0015)		
33 31 11 00-0043	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	38.26	15.14
33 31 11 00-0044	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	45.11	19.57
33 31 11 00-0045	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	84.94	26.29
33 31 11 00-0046	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	129.85	30.38
33 31 11 00-0047	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	648.13	39.49
33 31 11 00-0048	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	1,055.04	53.14
33 31 11 00-0049	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	1,186.79	70.77
33 31 11 00-0050	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	1,207.03	94.26
33 31 11 00-0051		Polyvinyl Chloride (PVC) Sewer And Drain, Reducers (33 31 11 00-0015)		
33 31 11 00-0052	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	44.00	17.27
33 31 11 00-0053	EA	3" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	88.58	20.62
33 31 11 00-0054	EA	3" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	82.39	22.74
33 31 11 00-0055	EA	4" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	132.80	24.85
33 31 11 00-0056	EA	4" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	142.15	28.19
33 31 11 00-0057	EA	6" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	457.39	34.90
33 31 11 00-0058	EA	8" x 6" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	983.79	46.27
33 31 11 00-0059	EA	10" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	202.58	50.53
33 31 11 00-0060	EA	10" x 6" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	280.41	55.11
33 31 11 00-0061	EA	10" x 8" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	262.53	61.89
33 31 11 00-0062	EA	12" x 6" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	1,014.96	66.90
33 31 11 00-0063	EA	12" x 8" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	1,070.78	73.68
33 31 11 00-0064	EA	12" x 10" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer	1,132.07	82.52
33 31 11 00-0065		Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tees (33 31 11 00-0015)		
33 31 11 00-0066	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	50.41	22.87
33 31 11 00-0067	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	67.39	29.59
33 31 11 00-0068	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	120.04	39.03
33 31 11 00-0069	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	189.84	48.47
33 31 11 00-0070	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	761.21	53.14
33 31 11 00-0071	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee	987.29	70.77
33 31 11 00-0072		Polyvinyl Chloride (PVC) Sewer And Drain, Wyes (33 31 11 00-0015)		
33 31 11 00-0073	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	66.56	22.87



Utilities			33	33
Sanitary Sewerage Utilities			33 30	
Sanitary Sewerage Piping			33 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0074 EA 2" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	76.76	29.59
33 31 11 00-0075 EA 3" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	132.02	39.03
33 31 11 00-0076 EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	209.45	48.47
33 31 11 00-0077 EA 6" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	687.60	53.14
33 31 11 00-0078 EA 8" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	847.47	70.77
33 31 11 00-0079 EA 10" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	1,114.29	94.44
33 31 11 00-0080 EA 12" Polyvinyl Chloride (PVC) Sewer And Drain, Wye	1,768.94	126.04
33 31 11 00-0081 Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wyes (33 31 11 00-0015)		
33 31 11 00-0082 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	91.90	22.87
33 31 11 00-0083 EA 2" x 2" x 1" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	101.41	29.59
33 31 11 00-0084 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	115.36	39.03
33 31 11 00-0085 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	182.54	48.47
33 31 11 00-0086 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	200.94	48.47
33 31 11 00-0087 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye	330.52	79.88
33 31 11 00-0088 Polyvinyl Chloride (PVC) Sewer And Drain, Double Wyes (33 31 11 00-0015)		
33 31 11 00-0089 EA 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye	113.04	29.59
33 31 11 00-0090 EA 2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye	146.95	39.03
33 31 11 00-0091 EA 3" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye	307.24	52.68
33 31 11 00-0092 EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye	558.40	63.72
33 31 11 00-0093 EA 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Double Wye	139.31	39.03
33 31 11 00-0094 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Double Wye	248.92	52.68
33 31 11 00-0095 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Double Wye	462.05	63.72
33 31 11 00-0096 Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bends (33 31 11 00-0015)		
33 31 11 00-0097 EA 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend	86.70	22.87
33 31 11 00-0098 EA 2" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend	108.18	29.59
33 31 11 00-0099 EA 3" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend	226.45	39.03
33 31 11 00-0100 EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend	421.23	48.47
33 31 11 00-0101 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend	176.58	29.59
33 31 11 00-0102 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend	288.40	39.03
33 31 11 00-0103 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend	202.22	39.03
33 31 11 00-0104 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend	392.19	48.47
33 31 11 00-0105 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend	418.75	48.47
33 31 11 00-0106 Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bends (33 31 11 00-0015)		
33 31 11 00-0107 EA 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend	128.67	29.59
33 31 11 00-0108 EA 2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend	148.68	39.03
33 31 11 00-0109 EA 3" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend	235.55	52.68
33 31 11 00-0110 EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend	920.51	63.72
33 31 11 00-0111 EA 6" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend	3,100.68	70.55
33 31 11 00-0112 Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tees With Plug (33 31 11 00-0015)		
33 31 11 00-0113 EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug	697.78	124.77
33 31 11 00-0114 EA 6" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug	1,725.12	160.97
33 31 11 00-0115 EA 8" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug	2,187.61	226.83
33 31 11 00-0116 EA 10" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug	2,997.55	364.88
33 31 11 00-0117 Polyvinyl Chloride (PVC) Sewer And Drain, Couplings (33 31 11 00-0015)		
33 31 11 00-0118 EA 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	30.63	15.14
33 31 11 00-0119 EA 2" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	37.98	19.46
33 31 11 00-0120 EA 3" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	61.77	26.06
33 31 11 00-0121 EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	82.71	30.38
33 31 11 00-0122 EA 6" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	264.50	39.49
33 31 11 00-0123 EA 8" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	672.47	53.14
33 31 11 00-0124 EA 10" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	1,024.85	70.77
33 31 11 00-0125 EA 12" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling	1,706.39	94.26
33 31 11 00-0126 Polyvinyl Chloride (PVC) Sewer And Drain, Adapters (33 31 11 00-0015)		
33 31 11 00-0127 EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Male Threaded Iron Adapter Fitting	138.32	77.97
33 31 11 00-0128 EA 2" x 3" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Downspout Adapter Fitting	96.14	59.31
33 31 11 00-0129 EA 2" x 3" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Downspout Adapter Fitting	99.27	59.31
33 31 11 00-0130 EA 3" x 4" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Downspout Adapter Fitting	107.56	59.31
33 31 11 00-0131 EA 4" Cast Iron Pipe x Polyvinyl Chloride (PVC) Sewer And Drain, Hub Pipe Adapter Fitting	140.59	77.97
33 31 11 00-0132 EA 4" Clay Pipe x Polyvinyl Chloride (PVC) Sewer And Drain, Spigot Pipe Adapter Fitting	133.96	77.97
33 31 11 00-0133 EA 4" Fiberglass Pipe x Polyvinyl Chloride (PVC) Sewer And Drain, Spigot Pipe Adapter Fitting	123.06	77.97
33 31 11 00-0134 EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Drain Grate Fitting	68.22	40.09

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0135 Polyvinyl Chloride (PVC) Sewer And Drain, Caps (33 31 11 00-0015)					
33 31 11 00-0136	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Cap.....	43.43	16.27	
33 31 11 00-0137	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Cap.....	73.46	20.26	
33 31 11 00-0138	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Cap.....	142.30	26.17	
33 31 11 00-0139 Polyvinyl Chloride (PVC) Sewer And Drain, Cleanouts With Plug (33 31 11 00-0015)					
33 31 11 00-0140	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	26.49	15.14	
33 31 11 00-0141	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	34.52	19.57	
33 31 11 00-0142	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	51.81	26.29	
33 31 11 00-0143	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	69.20	30.38	
33 31 11 00-0144	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	121.80	39.49	
33 31 11 00-0145	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	482.28	53.14	
33 31 11 00-0146 Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0001)					
Note: ASTM 3034.					
33 31 11 00-0147	LF	4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	19.11	7.83	
		For SDR 26, Add	0.67		
33 31 11 00-0148	LF	6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	24.78	9.11	
		For SDR 26, Add	1.29		
33 31 11 00-0149	LF	8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	32.35	10.59	
		For SDR 26, Add	2.19		
33 31 11 00-0150	LF	10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	38.68	10.97	
		For SDR 26, Add	3.28		
33 31 11 00-0151	LF	12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	46.29	11.35	
		For SDR 26, Add	4.62		
33 31 11 00-0152	LF	15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	58.88	11.75	
		For SDR 26, Add	6.93		
33 31 11 00-0153	LF	18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	73.28	12.18	
33 31 11 00-0154	LF	21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	93.90	13.23	
33 31 11 00-0155	LF	24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	113.02	14.27	
33 31 11 00-0156	LF	27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	140.04	16.74	
33 31 11 00-0157 Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0001)					
Note: ASTM 3034.					
33 31 11 00-0158	LF	4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	18.71	7.83	
		For SDR 26, Add	0.60		
33 31 11 00-0159	LF	6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	24.31	9.11	
		For SDR 26, Add	1.20		
33 31 11 00-0160	LF	8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	31.83	10.59	
		For SDR 26, Add	2.09		
33 31 11 00-0161 Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0001)					
Note: ASTM 3034.					
33 31 11 00-0162 Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bends (33 31 11 00-0161)					
33 31 11 00-0163	EA	4" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend	91.30	28.56	
		For SDR 26, Add	4.19		
33 31 11 00-0164	EA	6" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend	135.71	33.22	
		For SDR 26, Add	7.71		
33 31 11 00-0165	EA	8" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend	285.35	37.64	
		For SDR 26, Add	21.34		
33 31 11 00-0166	EA	10" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend	821.35	44.28	
		For SDR 26, Add	71.76		
33 31 11 00-0167	EA	12" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend	1,061.39	56.46	
		For SDR 26, Add	92.86		
33 31 11 00-0168 Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bends (33 31 11 00-0161)					
33 31 11 00-0169	EA	4" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	82.32	28.56	
		For SDR 26, Add	3.33		
33 31 11 00-0170	EA	6" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	125.81	33.22	
		For SDR 26, Add	6.76		
33 31 11 00-0171	EA	8" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	260.31	37.64	
		For SDR 26, Add	18.93		
33 31 11 00-0172	EA	10" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	585.64	44.28	
		For SDR 26, Add	49.13		
33 31 11 00-0173	EA	12" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	837.27	56.46	
		For SDR 26, Add	71.34		
33 31 11 00-0174	EA	15" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	1,796.96	79.71	
		For SDR 26, Add	159.76		
33 31 11 00-0175	EA	18" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	2,851.70	112.92	
33 31 11 00-0176	EA	21" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	4,759.98	149.45	
33 31 11 00-0177	EA	24" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	6,490.53	199.26	
33 31 11 00-0178 Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tees (33 31 11 00-0161)					
33 31 11 00-0179	EA	4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	138.21	42.85	
		For SDR 26, Add	6.41		



		Utilities	33	
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0180	EA	6" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	223.76	47.49
		For SDR 26, Add	13.88	
33 31 11 00-0181	EA	6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	251.65	49.81
		For SDR 26, Add	16.19	
33 31 11 00-0182	EA	8" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	277.96	52.14
		For SDR 26, Add	18.34	
33 31 11 00-0183	EA	8" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	318.62	54.46
		For SDR 26, Add	21.87	
33 31 11 00-0184	EA	8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	613.10	56.79
		For SDR 26, Add	49.77	
33 31 11 00-0185	EA	10" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	786.11	58.12
		For SDR 26, Add	66.17	
33 31 11 00-0186	EA	10" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	891.28	60.89
		For SDR 26, Add	75.83	
33 31 11 00-0187	EA	10" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	1,317.67	63.21
		For SDR 26, Add	116.39	
33 31 11 00-0188	EA	10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	1,718.39	66.42
		For SDR 26, Add	154.34	
33 31 11 00-0189	EA	12" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	967.31	70.74
		For SDR 26, Add	81.54	
33 31 11 00-0190	EA	12" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	1,027.02	73.07
		For SDR 26, Add	86.90	
33 31 11 00-0191	EA	12" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	1,467.20	75.39
		For SDR 26, Add	128.79	
33 31 11 00-0192	EA	12" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	2,118.12	78.60
		For SDR 26, Add	190.77	
33 31 11 00-0193	EA	12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee	2,387.22	84.69
		For SDR 26, Add	215.62	
33 31 11 00-0194 Gasketed SDR 35 Polyvinyl Chloride (PVC), Wyes (33 31 11 00-0161)				
33 31 11 00-0195	EA	4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	131.24	42.85
		For SDR 26, Add	5.74	
33 31 11 00-0196	EA	6" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	200.54	47.49
		For SDR 26, Add	11.65	
33 31 11 00-0197	EA	6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	220.46	49.81
		For SDR 26, Add	13.19	
33 31 11 00-0198	EA	8" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	268.00	52.14
33 31 11 00-0199	EA	8" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	306.74	54.46
33 31 11 00-0200	EA	8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	471.20	56.79
33 31 11 00-0201	EA	10" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	718.73	58.57
33 31 11 00-0202	EA	10" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	733.09	60.89
33 31 11 00-0203	EA	10" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	1,104.69	63.21
33 31 11 00-0204	EA	10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	1,222.60	66.42
33 31 11 00-0205	EA	12" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	911.10	70.74
33 31 11 00-0206	EA	12" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	939.69	73.07
33 31 11 00-0207	EA	12" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	1,347.51	75.39
33 31 11 00-0208	EA	12" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	1,624.46	78.60
33 31 11 00-0209	EA	12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	1,695.97	84.69
33 31 11 00-0210	EA	15" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	2,090.26	101.85
33 31 11 00-0211	EA	15" x 12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	2,319.32	107.94
33 31 11 00-0212	EA	15" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	2,900.70	119.56
33 31 11 00-0213 Gasketed SDR 35 Polyvinyl Chloride (PVC), Couplings (33 31 11 00-0161)				
33 31 11 00-0214	EA	4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	90.51	28.56
		For SDR 26, Add	4.12	
33 31 11 00-0215	EA	6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	141.00	33.22
		For SDR 26, Add	8.22	
33 31 11 00-0216	EA	8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	208.58	37.86
		For SDR 26, Add	13.97	
33 31 11 00-0217	EA	10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	396.69	44.28
		For SDR 26, Add	30.99	
33 31 11 00-0218	EA	12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	563.22	56.46
		For SDR 26, Add	45.04	
33 31 11 00-0219	EA	15" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	1,103.43	79.71
		For SDR 26, Add	93.18	
33 31 11 00-0220	EA	18" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	2,077.57	112.92
33 31 11 00-0221	EA	21" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	3,469.05	149.45
33 31 11 00-0222	EA	24" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	5,022.89	199.26
33 31 11 00-0223 Gasketed SDR 35 Polyvinyl Chloride (PVC), Increases (33 31 11 00-0161)				
33 31 11 00-0224	EA	6" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	174.59	30.89
		For SDR 26, Add	11.82	
33 31 11 00-0225	EA	8" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	250.81	33.22
		For SDR 26, Add	18.76	
33 31 11 00-0226	EA	8" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	264.47	35.53
		For SDR 26, Add	19.70	
33 31 11 00-0227	EA	10" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	598.15	38.74
		For SDR 26, Add	51.23	
33 31 11 00-0228	EA	10" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser	687.66	41.07
		For SDR 26, Add	59.45	

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0229 EA 12" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser..... <i>For SDR 26, Add</i>	768.41 66.59	44.83
33 31 11 00-0230 EA 12" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser..... <i>For SDR 26, Add</i>	882.18 77.14	47.16
33 31 11 00-0231 EA 12" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser..... <i>For SDR 26, Add</i>	1,011.74 89.07	50.37
33 31 11 00-0232 EA 15" x 12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser..... <i>For SDR 26, Add</i>	1,523.69 135.38	68.08
33 31 11 00-0233 SDR 35 Polyvinyl Chloride (PVC), Saddle Wyes With Stainless Steel Clamps (33 31 11 00-0161)		
33 31 11 00-0234 EA 6" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	144.02 8.51	
33 31 11 00-0235 EA 8" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	190.47 11.91	
33 31 11 00-0236 EA 8" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	194.77 12.32	
33 31 11 00-0237 EA 10" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	323.49 23.62	
33 31 11 00-0238 EA 10" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	341.49 25.34	
33 31 11 00-0239 EA 10" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	651.23 55.08	
33 31 11 00-0240 EA 12" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	368.27 26.32	
33 31 11 00-0241 EA 12" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	402.02 29.56	
33 31 11 00-0242 EA 12" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	902.08 77.57	
33 31 11 00-0243 EA 12" x 10" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	1,064.59 93.17	
33 31 11 00-0244 EA 15" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	421.76 27.74	
33 31 11 00-0245 EA 15" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	451.21 30.56	
33 31 11 00-0246 SDR 35 Polyvinyl Chloride (PVC), Saddle Tees With Stainless Steel Clamps (33 31 11 00-0161)		
33 31 11 00-0247 EA 6" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	154.10 9.48	
33 31 11 00-0248 EA 8" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	190.47 11.91	
33 31 11 00-0249 EA 8" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	208.49 13.64	
33 31 11 00-0250 EA 10" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	296.78 21.05	
33 31 11 00-0251 EA 10" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	339.34 25.14	
33 31 11 00-0252 EA 10" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	516.79 42.17	
33 31 11 00-0253 EA 12" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	366.13 26.11	
33 31 11 00-0254 EA 12" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	399.98 29.36	
33 31 11 00-0255 EA 12" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	601.07 48.67	
33 31 11 00-0256 EA 12" x 10" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	732.31 61.27	
33 31 11 00-0257 EA 15" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	420.43 27.61	
33 31 11 00-0258 EA 15" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	441.23 29.61	
33 31 11 00-0259 EA 15" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	738.56 58.15	
33 31 11 00-0260 EA 15" x 10" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	817.75 65.75	
33 31 11 00-0261 EA 15" x 12" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... <i>For SDR 26, Add</i>	1,158.14 98.43	
33 31 11 00-0262 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe and Fittings (33 31 11 00-0001) Note: ASTM F949.		
33 31 11 00-0263 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0262)		
33 31 11 00-0264 LF 4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	17.79	7.83
33 31 11 00-0265 LF 6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	23.61	9.11
33 31 11 00-0266 LF 8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	29.28	10.59
33 31 11 00-0267 LF 10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	33.59	10.97
33 31 11 00-0268 LF 12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	35.38	11.35



Utilities			33	33
Sanitary Sewerage Utilities			33 30	
Sanitary Sewerage Piping			33 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0269	LF	15"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	40.50	11.75
33 31 11 00-0270	LF	18"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	49.71	12.18
33 31 11 00-0271	LF	21"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	57.33	13.23
33 31 11 00-0272	LF	24"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	68.93	14.27
33 31 11 00-0273	LF	30"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	98.08	19.21
33 31 11 00-0274 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bends (33 31 11 00-0262)					
33 31 11 00-0275	EA	4"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	56.80	
33 31 11 00-0276	EA	6"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	75.50	
33 31 11 00-0277	EA	8"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	103.01	
33 31 11 00-0278	EA	10"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	169.20	
33 31 11 00-0279	EA	12"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	183.88	
33 31 11 00-0280	EA	15"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	299.25	
33 31 11 00-0281	EA	18"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	468.16	
33 31 11 00-0282	EA	21"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	653.51	
33 31 11 00-0283	EA	24"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	838.80	
33 31 11 00-0284	EA	30"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	1,099.84	
33 31 11 00-0285 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bends (33 31 11 00-0262)					
33 31 11 00-0286	EA	4"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	53.61	
33 31 11 00-0287	EA	6"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	70.78	
33 31 11 00-0288	EA	8"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	96.14	
33 31 11 00-0289	EA	10"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	156.28	
33 31 11 00-0290	EA	12"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	170.35	
33 31 11 00-0291	EA	15"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	275.34	
33 31 11 00-0292	EA	18"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	429.18	
33 31 11 00-0293	EA	21"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	595.66	
33 31 11 00-0294	EA	24"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	762.17	
33 31 11 00-0295	EA	30"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend	997.58	
33 31 11 00-0296 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bends (33 31 11 00-0262)					
33 31 11 00-0297	EA	4"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	48.82	
33 31 11 00-0298	EA	6"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	60.80	
33 31 11 00-0299	EA	8"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	91.04	
33 31 11 00-0300	EA	10"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	114.85	
33 31 11 00-0301	EA	12"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	155.99	
33 31 11 00-0302	EA	15"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	249.94	
33 31 11 00-0303	EA	18"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	362.38	
33 31 11 00-0304	EA	21"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	536.47	
33 31 11 00-0305	EA	24"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	710.57	
33 31 11 00-0306	EA	30"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend	995.13	
33 31 11 00-0307 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wyes (33 31 11 00-0262)					
33 31 11 00-0308	EA	4"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	88.01	
33 31 11 00-0309	EA	6"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	112.46	
33 31 11 00-0310	EA	8"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	191.29	
33 31 11 00-0311	EA	10"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	300.30	
33 31 11 00-0312	EA	12"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	487.94	
33 31 11 00-0313	EA	15"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	693.18	
33 31 11 00-0314	EA	18"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	1,002.06	
33 31 11 00-0315	EA	21"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	1,148.75	
33 31 11 00-0316	EA	24"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	1,295.38	
33 31 11 00-0317	EA	30"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	2,314.27	
33 31 11 00-0318 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tees (33 31 11 00-0262)					
33 31 11 00-0319	EA	4"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	81.48	
33 31 11 00-0320	EA	6"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	103.49	
33 31 11 00-0321	EA	8"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	172.97	
33 31 11 00-0322	EA	10"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	269.00	
33 31 11 00-0323	EA	12"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	432.93	
33 31 11 00-0324	EA	15"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	613.80	
33 31 11 00-0325	EA	18"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	885.81	
33 31 11 00-0326	EA	21"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	1,013.91	
33 31 11 00-0327	EA	24"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	1,141.98	
33 31 11 00-0328	EA	30"	Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	2,026.07	
33 31 11 00-0329 Cast Iron Service Saddles With U Bolt (33 31 11)					
33 31 11 00-0330	EA	2"	Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	129.46	
33 31 11 00-0331	EA	3"	Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	130.17	

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0332 EA 3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	143.24	
33 31 11 00-0333 EA 4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	138.66	
33 31 11 00-0334 EA 4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	156.56	
33 31 11 00-0335 EA 4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	176.20	
33 31 11 00-0336 EA 4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	208.76	
33 31 11 00-0337 EA 6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	176.82	
33 31 11 00-0338 EA 6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	193.29	
33 31 11 00-0339 EA 6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	222.92	
33 31 11 00-0340 EA 2" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	181.62	
33 31 11 00-0341 EA 4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	142.63	
33 31 11 00-0342 EA 4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	155.71	
33 31 11 00-0343 EA 4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt	185.48	
33 31 11 00-0344 EA 4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	220.16	
33 31 11 00-0345 EA 6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	237.12	
33 31 11 00-0346 Couplings And Plug Fittings (33 31 11)		
33 31 11 00-0347 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (33 31 11 00-0346)		
Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.		
33 31 11 00-0348 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	20.86	7.32
33 31 11 00-0349 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	22.80	8.55
33 31 11 00-0350 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	26.43	9.77
33 31 11 00-0351 EA 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	29.99	10.38
33 31 11 00-0352 EA 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	36.87	10.99
33 31 11 00-0353 EA 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	43.78	12.21
33 31 11 00-0354 EA 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	55.95	13.43
33 31 11 00-0355 EA 10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	69.32	14.04
33 31 11 00-0356 EA 12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212).....	115.39	14.66
33 31 11 00-0357 EA 15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515).....	157.61	15.88
33 31 11 00-0358 EA 18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818).....	305.49	16.48
33 31 11 00-0359 EA 21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121).....	355.14	17.41
33 31 11 00-0360 EA 24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424).....	393.57	18.32
33 31 11 00-0361 EA 27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727).....	471.68	19.55
33 31 11 00-0362 Manhole Inside Bowl Drop (33 31 11)		
33 31 11 00-0363 EA Inside Pipe Drop, 4" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4R96)	355.78	
33 31 11 00-0364 EA Inside Pipe Drop, 4" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4R96)	373.06	
33 31 11 00-0365 EA Inside Pipe Drop, 6" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6R96)	382.51	
33 31 11 00-0366 EA Inside Pipe Drop, 6" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6R96)	395.67	
33 31 11 00-0367 EA Inside Pipe Drop, 8" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8R96)	411.24	
33 31 11 00-0368 EA Inside Pipe Drop, 8" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8R96)	441.12	
33 31 11 00-0369 EA Inside Pipe Drop, 10" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10R96).....	459.42	
33 31 11 00-0370 EA Inside Pipe Drop, 10" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10R96).....	474.36	
33 31 11 00-0371 EA Inside Pipe Drop, 12" Outlet for 4' to 6' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R96).....	817.01	
33 31 11 00-0372 EA Inside Pipe Drop, 12" Outlet for 7' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R96).....	839.42	
33 32 Sanitary Sewerage Equipment (33 30)		
33 32 16 Packaged Wastewater Grinder Pump Assemblies (33 32)		
33 32 16 00-0001 Submersible Grinder Pumps, Cast Iron With Bronze Impeller (33 32 16)		
33 32 16 00-0002 EA 2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge	2,209.22	362.10
Note: Zoeller 840 series.		
33 32 16 00-0003 EA 2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge	2,178.52	362.10
Note: Zoeller 840 series.		
33 32 16 00-0004 EA Simplex Control Panel With Auto Reversing Switch	1,038.44	120.66
Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0005 EA Duplex Control Panel With Auto Reversing Switch	1,608.93	120.66
Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0006 EA Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74).....	14,032.75	
33 32 16 00-0007 Submersible Grinder Pumps (33 32 16)		
Note: Includes 50' of cord with pumps unless otherwise noted.		
33 32 16 00-0008 EA 2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	3,948.49	769.18
33 32 16 00-0009 EA 3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	5,856.69	897.38
33 32 16 00-0010 EA 5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	7,181.81	1,153.77

33 34 Onsite Wastewater Disposal (33 30)

Note: Excludes distribution field piping, trenching or excavation.

33 34 13 Septic Tanks (33 34)**33 34 13 13 Concrete Septic Tanks (33 34 13)**



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Onsite Wastewater Disposal	33 34	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 34 13 13-0001 Precast Concrete Septic Tank (33 34 13 13)					
Note: Includes external coating.					
33 34 13 13-0002	EA 1,000 Gallon Precast Septic Tank	4,382.98		769.18	
	For Non-Traffic Rated, Deduct	-859.59			
33 34 13 13-0003	EA 1,250 Gallon Precast Septic Tank	5,275.99		849.05	
	For Non-Traffic Rated, Deduct	-1,058.40			
33 34 13 13-0004	EA 1,500 Gallon Precast Septic Tank	6,134.21		928.78	
	For Non-Traffic Rated, Deduct	-1,248.47			
33 34 13 13-0005	EA 2,000 Gallon Precast Septic Tank	7,894.76		1,009.54	
	For Non-Traffic Rated, Deduct	-1,664.71			
33 34 13 13-0006	EA 2,500 Gallon Precast Septic Tank	9,385.48		1,394.14	
	For Non-Traffic Rated, Deduct	-1,919.93			
33 34 13 13-0007	EA 4,000 Gallon Precast Septic Tank	25,158.12		1,922.95	
	For Non-Traffic Rated, Deduct	-5,699.83			
33 34 13 13-0008	EA 5,000 Gallon Precast Septic Tank	45,817.43		2,884.42	
	For Non-Traffic Rated, Deduct	-10,572.32			
33 34 13 13-0009	EA 7,500 Gallon Precast Septic Tank	51,284.38		4,038.19	
	For Non-Traffic Rated, Deduct	-11,592.55			
33 34 13 13-0010	EA 10,000 Gallon Precast Septic Tank	62,896.64		4,831.47	
	For Non-Traffic Rated, Deduct	-14,249.90			
33 34 13 13-0011	EA 12,500 Gallon Precast Septic Tank	74,288.56		5,985.24	
	For Non-Traffic Rated, Deduct	-16,729.32			
33 34 13 23 Fiberglass Septic Tank (33 34 13)					
33 34 13 23-0001 Fiberglass Septic Tank (33 34 13 23)					
33 34 13 23-0002	EA 1,000 Gallon Fiberglass Septic Tank	4,816.26		576.88	
33 34 13 23-0003	EA 1,250 Gallon Fiberglass Septic Tank	5,665.99		769.18	
33 34 13 23-0004	EA 1,500 Gallon Fiberglass Septic Tank	6,533.72		697.14	
33 34 13 23-0005	EA 2,000 Gallon Fiberglass Septic Tank	10,949.56		754.69	
33 34 13 23-0006	EA 2,500 Gallon Fiberglass Septic Tank	13,740.90		1,046.08	
33 34 13 23-0007	EA 4,000 Gallon Fiberglass Septic Tank	21,802.32		1,442.21	
33 34 13 23-0008	EA 5,000 Gallon Fiberglass Septic Tank	32,357.26		2,163.31	
33 34 13 23-0009	EA 7,500 Gallon Fiberglass Septic Tank	44,421.94		3,028.64	
33 34 13 23-0010	EA 10,000 Gallon Fiberglass Septic Tank	54,516.16		3,619.88	
33 34 13 33 Polyethylene Septic Tank (33 34 13)					
33 34 13 33-0001 High-Density Polyethylene (HDPE) Septic Tank (33 34 13 33)					
33 34 13 33-0002	EA 300 Gallon One Compartment One Manhole High-Density Polyethylene (HDPE) Septic Tank	1,354.47		222.13	
33 34 13 33-0003	EA 500 Gallon One Compartment One Manhole High-Density Polyethylene (HDPE) Septic Tank	2,108.10		249.90	
33 34 13 33-0004	EA 900 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	2,941.42		305.43	
33 34 13 33-0005	EA 1,000 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,015.75		333.19	
33 34 13 33-0006	EA 1,250 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,500.88		360.96	
33 34 13 33-0007	EA 1,500 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	4,211.55		388.72	
33 34 13 33-0008	EA 750 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	2,969.13		277.66	
33 34 13 33-0009	EA 1,000 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,230.55		333.19	
33 34 13 33-0010	EA 1,250 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,806.97		360.96	
33 34 13 33-0011	EA 1,500 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	4,480.05		388.72	
33 34 51 Drainage Field System (33 34)					
33 34 51 00-0001 Leaching Pit - Precast Concrete (33 34 51)					
Note: Includes external coating.					
33 34 51 00-0002	EA 3' Diameter, 3' High, Precast Concrete Leaching Pit	918.43		112.81	
33 34 51 00-0003	EA 4' Diameter, 3' High, Precast Concrete Leaching Pit	1,284.51		160.24	
33 34 51 00-0004	EA 6' Diameter, 3' High, Precast Concrete Leaching Pit	1,711.13		192.29	
33 34 51 00-0005	EA 8' Diameter, 4' High, Precast Concrete Leaching Pit	2,789.52		320.49	
33 34 51 00-0006	EA 10' Diameter, 4' High, Precast Concrete Leaching Pit	4,061.22		448.68	
33 34 53 Distribution Chambers (33 34)					
33 34 53 13 Drainage Field Concrete Distribution Chambers (33 34 53)					
33 34 53 13-0001 Concrete Distribution Boxes (33 34 53 13)					
Note: Includes internal and external coating.					
33 34 53 13-0002	EA 3 Outlet Concrete Distribution Box.....	375.22		78.86	
33 34 53 13-0003	EA 5 Outlet Concrete Distribution Box.....	436.31		94.64	
33 34 53 13-0004	EA 8 Outlet Concrete Distribution Box.....	771.26		110.41	
33 34 53 13-0005	EA 12 Outlet Concrete Distribution Box.....	1,527.75		189.29	
33 34 53 13-0006 Leaching Field Chambers - Precast Concrete (33 34 53 13)					
33 34 53 13-0007	EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4".....	1,092.07		107.40	
33 34 53 13-0008	EA Heavy-Duty Leaching Field Chamber 13' x 3'-9" x 1'-6".....	1,345.26		146.45	
33 34 53 33 Drainage Field Polyethylene Distribution Chambers (33 34 53)					

33 Utilities**33 30 Sanitary Sewerage Utilities****33 34 Onsite Wastewater Disposal**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 34 53 33-0001	High-Density Polyethylene (HDPE) Leaching Field Chambers (33 34 53 33)			
33 34 53 33-0002	LF	16" Wide x 11" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	23.82	6.67
33 34 53 33-0003	LF	22" Wide x 12" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	30.68	7.23
33 34 53 33-0004	LF	34" Wide x 12" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	41.39	7.88
33 34 53 33-0005	LF	34" Wide x 16" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	60.02	8.67

33 34 56 Drainage Field Dosing Chambers (33 34)

33 34 56 00-0001	Dosing Siphon (33 34 56)			
33 34 56 00-0002	EA	Dosing Siphon With Electrical Connection And Solenoid Valve	6,301.10	
33 34 56 00-0003	EA	Solar Power Control For Dosing Siphon	4,344.07	
33 34 56 00-0004	EA	Electrical Power Control For Dosing Siphon	4,174.44	

33 40 Stormwater Utilities (33)**33 41 Subdrainage (33 40)****33 41 16 Subdrainage Piping (33 41)****33 41 16 13 Subdrainage Piping (33 41 16)**

See CSI section 33 42 11 00-0241 for polyethylene drain pipe.

33 41 16 13-0001	Corrugated High-Density Polyethylene (HDPE) Drainage Piping (33 41 16 13)			
33 41 16 13-0002	Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 41 16 13-0001)			
	Note: Excludes couplings and gaskets.			
33 41 16 13-0003	Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 41 16 13-0002)			
33 41 16 13-0004	LF	4" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	7.06	5.86
		For <100, Add	1.23	
		For >1,000, Deduct	-0.65	
33 41 16 13-0005	LF	6" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	8.96	6.28
		For <100, Add	1.39	
		For >1,000, Deduct	-0.76	
33 41 16 13-0006	LF	8" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	11.33	6.59
		For <100, Add	1.56	
		For >1,000, Deduct	-0.90	
33 41 16 13-0007	LF	10" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	15.56	6.80
		For <100, Add	1.80	
		For >1,000, Deduct	-1.12	
33 41 16 13-0008	LF	12" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	18.36	7.43
		For <100, Add	2.03	
		For >1,000, Deduct	-1.29	
33 41 16 13-0009	LF	15" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	24.28	8.37
		For <100, Add	2.47	
		For >1,000, Deduct	-1.63	
33 41 16 13-0010	LF	18" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	38.19	13.27
		For <100, Add	3.90	
		For >1,000, Deduct	-2.57	
33 41 16 13-0011	LF	24" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	53.47	14.57
		For <100, Add	4.86	
		For >1,000, Deduct	-3.40	

33 41 16 13-0012 Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 41 16 13-0002)

33 41 16 13-0013	LF	4" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	6.89	5.86
For <100, Add			1.22	
For >1,000, Deduct			-0.64	
33 41 16 13-0014	LF	6" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	8.89	6.28
For <100, Add			1.39	
For >1,000, Deduct			-0.76	
33 41 16 13-0015	LF	8" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	14.59	6.59
For <100, Add			1.72	
For >1,000, Deduct			-1.06	
33 41 16 13-0016	LF	10" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	17.28	6.80
For <100, Add			1.88	
For >1,000, Deduct			-1.20	
33 41 16 13-0017	LF	12" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	20.24	7.43
For <100, Add			2.13	
For >1,000, Deduct			-1.38	
33 41 16 13-0018	LF	15" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	24.08	8.37
For <100, Add			2.46	
For >1,000, Deduct			-1.62	
33 41 16 13-0019	LF	18" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	36.95	13.27
For <100, Add			3.84	
For >1,000, Deduct			-2.51	
33 41 16 13-0020	LF	24" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	51.51	14.57
For <100, Add			4.76	
For >1,000, Deduct			-3.30	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Subdrainage	33 41	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 41 16 13-0021	Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings (33 41 16 13-0001) Note: Excludes couplings and gaskets.				
33 41 16 13-0022	Tees, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)				
33 41 16 13-0023	EA 4" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	43.14		26.58	
33 41 16 13-0024	EA 6" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	50.73		31.01	
33 41 16 13-0025	EA 8" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	70.03		37.66	
33 41 16 13-0026	EA 10" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	88.12		46.52	
33 41 16 13-0027	EA 12" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	117.55		55.39	
33 41 16 13-0028	EA 15" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	208.77		72.37	
33 41 16 13-0029	EA 18" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	260.26		97.46	
33 41 16 13-0030	EA 24" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	420.91		110.76	
33 41 16 13-0031	Wyes, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)				
33 41 16 13-0032	EA 4" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	43.63		26.58	
33 41 16 13-0033	EA 6" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	52.34		31.01	
33 41 16 13-0034	EA 8" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	86.82		37.66	
33 41 16 13-0035	45 Degree Bends, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)				
33 41 16 13-0036	EA 4" 45 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	28.93		17.73	
33 41 16 13-0037	90 Degree Bends, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)				
33 41 16 13-0038	EA 4" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	29.45		17.73	
33 41 16 13-0039	EA 6" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	35.90		20.68	
33 41 16 13-0040	EA 8" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	47.88		25.11	
33 41 16 13-0041	EA 10" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	61.09		31.01	
33 41 16 13-0042	Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 (33 41 16 13) Note: Includes fittings, couplings, elbows, etc.				
33 41 16 13-0043	LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	6.95		4.28	
	For <100, Add	0.99			
	For >1,000, Deduct	-0.56			
33 41 16 13-0044	LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	7.59		4.63	
	For <100, Add	1.07			
	For >1,000, Deduct	-0.61			
33 41 16 13-0045	LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	10.65		5.55	
	For <100, Add	1.37			
	For >1,000, Deduct	-0.81			
33 41 16 13-0046	LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	16.46		6.94	
	For <100, Add	1.86			
	For >1,000, Deduct	-1.17			
33 41 16 13-0047	LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	26.27		7.22	
	For <100, Add	2.40			
	For >1,000, Deduct	-1.67			
33 41 16 13-0048	LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	33.38		7.88	
	For <100, Add	2.85			
	For >1,000, Deduct	-2.06			
33 41 16 13-0049	LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	45.87		8.89	
	For <100, Add	3.63			
	For >1,000, Deduct	-2.74			
33 41 16 13-0050	Perforated Non-Reinforced Concrete Drainage Piping, C444 (33 41 16 13)				
33 41 16 13-0051	LF 6" Perforated Non-Reinforced Concrete Drainage Pipe	38.66		14.47	
	For Extra Strength, Add	2.11			
	For >1,000, Deduct	-1.93			
33 41 16 13-0052	LF 8" Perforated Non-Reinforced Concrete Drainage Pipe	45.15		16.08	
	For Extra Strength, Add	2.60			
	For >1,000, Deduct	-2.26			
33 41 16 13-0053	LF 10" Perforated Non-Reinforced Concrete Drainage Pipe	51.07		17.70	
	For Extra Strength, Add	3.03			
	For >1,000, Deduct	-2.55			
33 41 16 13-0054	LF 12" Perforated Non-Reinforced Concrete Drainage Pipe	59.90		19.30	
	For Extra Strength, Add	3.80			
	For >1,000, Deduct	-3.00			
33 41 16 13-0055	Extra Strength Porous Non-Reinforced Concrete Drainage Piping, C654 (33 41 16 13) Note: Bell and spigot or tongue and groove. With seals and gaskets.				
33 41 16 13-0056	LF 6" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	32.11		14.47	
	For >1,000, Deduct	-1.61			
33 41 16 13-0057	LF 8" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	35.54		16.08	
	For >1,000, Deduct	-1.78			

33 Utilities**33 40 Stormwater Utilities****33 41 Subdrainage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0058 LF 10" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	39.20 -1.96	17.70
33 41 16 13-0059 LF 12" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	44.72 -2.24	18.38
33 41 16 13-0060 LF 15" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	51.93 -2.60	20.68
33 41 16 13-0061 LF 18" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	64.27 -3.21	26.42
33 41 16 13-0062 LF 21" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	80.29 -4.01	33.89
33 41 16 13-0063 LF 24" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	97.89 -4.89	41.35
33 41 16 13-0064 Standard Strength Porous Non-Reinforced Concrete Drainage Piping, C654 (33 41 16 13)		
33 41 16 13-0065 LF 6" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	29.95 -1.50	14.47
33 41 16 13-0066 LF 8" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	37.94 -1.90	16.08
33 41 16 13-0067 LF 10" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	47.86 -2.39	17.70
33 41 16 13-0068 LF 12" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	57.99 -2.90	19.30
33 41 16 13-0069 LF 15" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	66.38 -3.32	21.47
33 41 16 13-0070 LF 18" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	85.97 -4.30	26.78
33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 (33 41 16 13)		
33 41 16 13-0072 LF 4" Perforated Vitrified Clay Drainage Pipe	29.67	16.08
33 41 16 13-0073 LF 6" Perforated Vitrified Clay Drainage Pipe	35.34	18.10
33 41 16 13-0074 LF 8" Perforated Vitrified Clay Drainage Pipe	40.08	18.10
33 41 16 13-0075 LF 10" Perforated Vitrified Clay Drainage Pipe	53.54	22.12
33 41 16 13-0076 LF 12" Perforated Vitrified Clay Drainage Pipe	63.44	24.13
33 41 16 13-0077 Geotextile Filter Fabric Sock (33 41 16 13)		
33 41 16 13-0078 LF 3" Geotextile Filter Fabric Sock.....	0.93	
33 41 16 13-0079 LF 4" Geotextile Filter Fabric Sock.....	1.23	
33 41 16 13-0080 LF 6" Geotextile Filter Fabric Sock.....	1.86	
33 41 16 13-0081 LF 8" Geotextile Filter Fabric Sock.....	2.51	
33 41 16 13-0082 LF 10" Geotextile Filter Fabric Sock.....	3.73	
33 41 16 13-0083 LF 12" Geotextile Filter Fabric Sock.....	5.12	
33 41 16 13-0084 LF 15" Geotextile Filter Fabric Sock.....	6.13	
33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe (33 41 16 13)		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0086 LF 6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	27.39 1.36	6.90
33 41 16 13-0087 LF 8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	34.65 1.79	8.35
33 41 16 13-0088 LF 10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	43.71 2.25	10.60
33 41 16 13-0089 LF 12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	48.60 2.35	12.53
33 41 16 13-0090 LF 15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	55.52 2.96	12.97
33 41 16 13-0091 LF 18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	62.61 3.57	13.45
33 41 16 13-0092 LF 21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	71.52 4.25	14.51
33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16 13)		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0094 LF 6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	29.58 1.58	6.90
33 41 16 13-0095 LF 8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	37.62 2.09	8.35
33 41 16 13-0096 LF 10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	47.33 2.61	10.60
33 41 16 13-0097 LF 12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	52.12 2.71	12.53
33 41 16 13-0098 LF 15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	59.87 3.39	12.97
33 41 16 13-0099 LF 18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	67.78 4.09	13.45
33 41 16 13-0100 LF 21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	77.54 4.85	14.51



		Utilities	33	
		Stormwater Utilities	33 40	
		Subdrainage	33 41	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe (33 41 16 13)			
Note: Perforations are located in the bottom quarter points of the pipe.			
33 41 16 13-0102	LF 6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	30.29 1.65	6.90
33 41 16 13-0103	LF 8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	38.53 2.18	8.35
33 41 16 13-0104	LF 10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	48.49 2.73	10.60
33 41 16 13-0105	LF 12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	60.81 3.57	12.53
33 41 16 13-0106	LF 15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	70.69 4.47	12.97
33 41 16 13-0107	LF 18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	80.89 5.40	13.45
33 41 16 13-0108	LF 21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	92.84 6.38	14.51
33 41 16 13-0109 Prefabricated Composite Drains (33 41 16 13)			
33 41 16 13-0110 Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) (33 41 16 13-0109)			
Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.			
33 41 16 13-0111	LF 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)..... <i>For External Typar Geotextile Wrap, Add</i>	12.30 2.23	2.60
33 41 16 13-0112	EA Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	56.15	
33 41 16 13-0113	EA End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	56.15	
33 41 16 13-0114	EA Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	107.75	
33 41 16 13-0115	EA End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	107.75	
33 41 16 13-0116	LF 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)..... <i>For External Typar Geotextile Wrap, Add</i>	19.61 3.34	3.25
33 41 16 13-0117	EA Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	82.64	
33 41 16 13-0118	EA End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	82.64	
33 41 16 13-0119	EA Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	141.23	
33 41 16 13-0120	EA End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	141.23	
33 41 19 Underslab Drainage (33 41)			
33 41 19 13 Underslab Drainage Piping (33 41 19)			
33 41 19 13-0001 Capillary Water Barrier Underslab Drainage (33 41 19 13)			
Note: Consists of a layer of fine granular material overlying a coarse layer.			
33 41 19 13-0002	CY 2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	61.17	
33 41 19 13-0003	CY 4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	58.12	
33 41 19 13-0004	CY 6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	56.89	
33 41 19 13-0005	CY 8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	55.05	
33 42 Stormwater Conveyance (33 42)			
Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.			
33 42 11 Stormwater Gravity Piping (33 42)			
33 42 11 00-0001 Reinforced Concrete Piping (33 42 11)			
Note: Includes detectable tracer wire.			
33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets (33 42 11 00-0001)			
33 42 11 00-0003	LF 12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	57.76 -2.89 2.87 6.04	19.30
33 42 11 00-0004	LF 15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	69.33 -3.47 3.67 7.73	21.47
33 42 11 00-0005	LF 18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	78.92 -3.95 3.86 8.13	26.78
33 42 11 00-0006	LF 21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	101.10 -5.06 5.02 10.57	33.77
33 42 11 00-0007	LF 24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	118.39 -5.92 5.68 11.96	41.02
33 42 11 00-0008	LF 27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	149.77 -7.49 7.17 15.10	52.00

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0009	LF		30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	159.26	53.70
			For >1,000, Deduct	-7.96	
			For Class 4, Add	7.76	
			For Class 5, Add	16.33	
33 42 11 00-0010	LF		36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	197.01	61.02
			For >1,000, Deduct	-9.85	
			For Class 4, Add	10.52	
			For Class 5, Add	22.14	
33 42 11 00-0011	LF		42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	255.15	67.12
			For >1,000, Deduct	-12.76	
			For Class 4, Add	15.22	
			For Class 5, Add	32.04	
33 42 11 00-0012	LF		48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	305.50	74.75
			For >1,000, Deduct	-15.28	
			For Class 4, Add	18.88	
			For Class 5, Add	39.74	
33 42 11 00-0013	LF		54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	380.07	85.43
			For >1,000, Deduct	-19.00	
			For Class 4, Add	24.51	
			For Class 5, Add	51.60	
33 42 11 00-0014	LF		60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	458.90	99.10
			For >1,000, Deduct	-22.95	
			For Class 4, Add	30.15	
			For Class 5, Add	63.46	
33 42 11 00-0015	LF		66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	706.72	109.84
			For >1,000, Deduct	-35.34	
			For Class 4, Add	52.30	
			For Class 5, Add	110.10	
33 42 11 00-0016	LF		72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	824.41	119.60
			For >1,000, Deduct	-41.22	
			For Class 4, Add	62.09	
			For Class 5, Add	130.71	
33 42 11 00-0017	LF		78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	991.24	134.25
			For >1,000, Deduct	-49.56	
			For Class 4, Add	75.91	
			For Class 5, Add	159.80	
33 42 11 00-0018	LF		84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	1,276.51	149.50
			For >1,000, Deduct	-63.83	
			For Class 4, Add	100.98	
			For Class 5, Add	212.59	
33 42 11 00-0019			HE-I Elliptical Reinforced Concrete Piping Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0020	LF		12" x 18" Elliptical Reinforced Concrete Pipe Without Gaskets (15" Diameter Equivalent Round Size).....	93.93	30.34
			For >1,000, Deduct	-4.70	
			For Horizontal Elliptical - II (HE- II), Add	5.06	
			For Horizontal Elliptical - III (HE- III), Add	11.13	
			For Horizontal Elliptical - IV (HE- IV), Add	24.28	
33 42 11 00-0021	LF		14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	138.87	35.62
			For >1,000, Deduct	-6.94	
			For Horizontal Elliptical - II (HE- II), Add	8.80	
			For Horizontal Elliptical - III (HE- III), Add	19.36	
			For Horizontal Elliptical - IV (HE- IV), Add	42.24	
33 42 11 00-0022	LF		19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	193.05	54.55
			For >1,000, Deduct	-9.65	
			For Horizontal Elliptical - II (HE- II), Add	11.51	
			For Horizontal Elliptical - III (HE- III), Add	25.33	
			For Horizontal Elliptical - IV (HE- IV), Add	55.26	
33 42 11 00-0023	LF		22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	227.50	69.16
			For >1,000, Deduct	-11.38	
			For Horizontal Elliptical - II (HE- II), Add	12.87	
			For Horizontal Elliptical - III (HE- III), Add	28.31	
			For Horizontal Elliptical - IV (HE- IV), Add	61.77	
33 42 11 00-0024	LF		24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	241.46	72.26
			For >1,000, Deduct	-12.07	
			For Horizontal Elliptical - II (HE- II), Add	13.82	
			For Horizontal Elliptical - III (HE- III), Add	30.41	
			For Horizontal Elliptical - IV (HE- IV), Add	66.35	
33 42 11 00-0025	LF		27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....	277.09	76.30
			For >1,000, Deduct	-13.85	
			For Horizontal Elliptical - II (HE- II), Add	16.81	
			For Horizontal Elliptical - III (HE- III), Add	36.98	
			For Horizontal Elliptical - IV (HE- IV), Add	80.68	
33 42 11 00-0026	LF		29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....	312.71	80.33
			For >1,000, Deduct	-15.64	
			For Horizontal Elliptical - II (HE- II), Add	19.80	
			For Horizontal Elliptical - III (HE- III), Add	43.55	
			For Horizontal Elliptical - IV (HE- IV), Add	95.02	
33 42 11 00-0027	LF		34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....	380.93	88.40
			For >1,000, Deduct	-19.05	
			For Horizontal Elliptical - II (HE- II), Add	25.47	
			For Horizontal Elliptical - III (HE- III), Add	56.02	
			For Horizontal Elliptical - IV (HE- IV), Add	122.23	



		Utilities	33	
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0028 LF 38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....	458.86	99.42
For >1,000, Deduct	-22.94	
For Horizontal Elliptical - II (HE- II), Add	31.68	
For Horizontal Elliptical - III (HE- III), Add	69.70	
For Horizontal Elliptical - IV (HE- IV), Add	152.07	
33 42 11 00-0029 LF 43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....	522.34	113.62
For >1,000, Deduct	-26.12	
For Horizontal Elliptical - II (HE- II), Add	36.00	
For Horizontal Elliptical - III (HE- III), Add	79.20	
For Horizontal Elliptical - IV (HE- IV), Add	172.81	
33 42 11 00-0030 LF 48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	646.73	131.81
For >1,000, Deduct	-32.34	
For Horizontal Elliptical - II (HE- II), Add	45.84	
For Horizontal Elliptical - III (HE- III), Add	100.86	
For Horizontal Elliptical - IV (HE- IV), Add	220.05	
33 42 11 00-0031 LF 53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	738.05	145.23
33 42 11 00-0032 LF 58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	894.75	158.65
33 42 11 00-0033 LF 63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	1,068.65	179.41
33 42 11 00-0034 LF 68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	1,156.95	198.93
33 42 11 00-0035 LF 72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	1,480.94	208.70
33 42 11 00-0036 LF 77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,715.94	218.46
33 42 11 00-0037 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0038 EA 12" Concrete Reducing Wye Without Gaskets	701.86	73.52
33 42 11 00-0039 EA 15" Concrete Reducing Wye Without Gaskets	841.70	89.61
33 42 11 00-0040 EA 18" Concrete Reducing Wye Without Gaskets	1,039.96	98.80
33 42 11 00-0041 EA 21" Concrete Reducing Wye Without Gaskets	1,193.63	121.77
33 42 11 00-0042 EA 24" Concrete Reducing Wye Without Gaskets	1,349.08	147.05
33 42 11 00-0043 Concrete Pipe Joint Gaskets (33 42 11 00-0001)		
33 42 11 00-0044 EA 12" Diameter Concrete Pipe Joint Gasket	6.70	
33 42 11 00-0045 EA 15" Diameter Concrete Pipe Joint Gasket	7.92	
33 42 11 00-0046 EA 18" Diameter Concrete Pipe Joint Gasket	9.18	
33 42 11 00-0047 EA 21" Diameter Concrete Pipe Joint Gasket	11.09	
33 42 11 00-0048 EA 24" Diameter Concrete Pipe Joint Gasket	12.99	
33 42 11 00-0049 EA 27" Diameter Concrete Pipe Joint Gasket	14.48	
33 42 11 00-0050 EA 30" Diameter Concrete Pipe Joint Gasket	15.91	
33 42 11 00-0051 EA 36" Diameter Concrete Pipe Joint Gasket	19.44	
33 42 11 00-0052 EA 42" Diameter Concrete Pipe Joint Gasket	22.53	
33 42 11 00-0053 EA 48" Diameter Concrete Pipe Joint Gasket	25.99	
33 42 11 00-0054 EA 54" Diameter Concrete Pipe Joint Gasket	31.86	
33 42 11 00-0055 EA 60" Diameter Concrete Pipe Joint Gasket	47.16	
33 42 11 00-0056 EA 66" Diameter Concrete Pipe Joint Gasket	49.02	
33 42 11 00-0057 EA 72" Diameter Concrete Pipe Joint Gasket	50.83	
33 42 11 00-0058 EA 78" Diameter Concrete Pipe Joint Gasket	58.54	
33 42 11 00-0059 EA 84" Diameter Concrete Pipe Joint Gasket	70.17	
33 42 11 00-0060 Couplings (33 42 11 00-0001)		
33 42 11 00-0061 Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (33 42 11 00-0060)		
Note: For concrete to cast iron or plastic pipe. Includes stainless steel clamps. Fernco 1006.		
33 42 11 00-0062 EA 4" x 3" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	37.90	
33 42 11 00-0063 EA 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	35.28	
33 42 11 00-0064 EA 6" x 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	58.15	
33 42 11 00-0065 EA 6" x 5" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	60.25	
33 42 11 00-0066 EA 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	56.22	
33 42 11 00-0067 EA 8" x 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	84.30	
33 42 11 00-0068 EA 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	73.36	
33 42 11 00-0069 EA 10" x 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	105.36	
33 42 11 00-0070 EA 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	93.81	
33 42 11 00-0071 EA 12" x 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	126.72	
33 42 11 00-0072 EA 12" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	106.72	
33 42 11 00-0073 EA 15" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	323.15	
33 42 11 00-0074 Precast Concrete Cut Off Wall (33 42 11 00-0001)		
33 42 11 00-0075 EA 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	288.64	214.80
33 42 11 00-0076 EA 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	356.28	266.05
33 42 11 00-0077 EA 18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	443.47	336.85
33 42 11 00-0078 EA 21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	525.76	402.74
33 42 11 00-0079 EA 24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	605.50	466.09
33 42 11 00-0080 EA 27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	751.37	595.57
33 42 11 00-0081 EA 30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	992.48	820.14
33 42 11 00-0082 EA 36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,240.20	1,034.93
33 42 11 00-0083 EA 42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,536.22	1,298.31
33 42 11 00-0084 EA 48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,721.75	1,463.31
33 42 11 00-0085 EA 54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,923.81	1,640.27

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0086 EA 60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,129.29	1,822.12
33 42 11 00-0087 EA 66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,212.15	1,891.69
33 42 11 00-0088 EA 72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,284.97	1,952.70
33 42 11 00-0089 EA 78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,357.82	2,013.73
33 42 11 00-0090 EA 84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,432.13	2,074.75
33 42 11 00-0091 Strap Assembly (33 42 11 00-0001) Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0092 EA Up To 24" Diameter Pipe, 12' Strap Assembly	267.20	
33 42 11 00-0093 EA >24" Diameter Pipe, 12' Strap Assembly	377.37	
33 42 11 00-0094 Prestressed Concrete Cylinder Piping (33 42 11) Note: Includes detectable tracer wire.		
33 42 11 00-0095 150 PSI Prestressed Concrete Cylinder Pipe And Fittings (33 42 11 00-0094)		
33 42 11 00-0096 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets (33 42 11 00-0095) Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0097 LF 12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	157.65	19.30
For >1,000, Deduct	-7.88	
For 100 PSI, Deduct	-32.52	
33 42 11 00-0098 LF 15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	168.28	21.47
For >1,000, Deduct	-8.41	
For 100 PSI, Deduct	-34.40	
33 42 11 00-0099 LF 18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	183.39	26.78
For >1,000, Deduct	-9.17	
For 100 PSI, Deduct	-36.29	
33 42 11 00-0100 LF 21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	200.92	33.77
For >1,000, Deduct	-10.05	
For 100 PSI, Deduct	-38.17	
33 42 11 00-0101 LF 24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	218.79	41.02
For >1,000, Deduct	-10.94	
For 100 PSI, Deduct	-40.05	
33 42 11 00-0102 LF 30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	256.99	53.70
For >1,000, Deduct	-12.85	
For 100 PSI, Deduct	-44.84	
33 42 11 00-0103 LF 36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	284.83	61.02
For >1,000, Deduct	-14.24	
For 100 PSI, Deduct	-49.64	
33 42 11 00-0104 LF 42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	330.46	67.12
For >1,000, Deduct	-16.52	
For 100 PSI, Deduct	-58.88	
33 42 11 00-0105 LF 48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	379.27	74.75
For >1,000, Deduct	-18.96	
For 100 PSI, Deduct	-68.12	
33 42 11 00-0106 LF 54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	499.67	94.82
For >1,000, Deduct	-24.98	
For 100 PSI, Deduct	-91.06	
33 42 11 00-0107 LF 60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	602.13	109.99
For >1,000, Deduct	-30.11	
For 100 PSI, Deduct	-111.25	
33 42 11 00-0108 LF 66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	676.58	121.91
For >1,000, Deduct	-33.83	
For 100 PSI, Deduct	-125.80	
33 42 11 00-0109 LF 72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	754.44	132.74
For >1,000, Deduct	-37.72	
For 100 PSI, Deduct	-141.20	
33 42 11 00-0110 LF 78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	856.88	149.00
For >1,000, Deduct	-42.84	
For 100 PSI, Deduct	-160.89	
33 42 11 00-0111 LF 84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	959.32	165.93
For >1,000, Deduct	-47.97	
For 100 PSI, Deduct	-180.57	
33 42 11 00-0112 LF 90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,184.80	193.70
For >1,000, Deduct	-59.24	
For 100 PSI, Deduct	-226.78	
33 42 11 00-0113 LF 96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,394.29	221.19
For >1,000, Deduct	-69.71	
For 100 PSI, Deduct	-269.57	
33 42 11 00-0114 LF 102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,626.09	239.70
For >1,000, Deduct	-81.30	
For 100 PSI, Deduct	-320.92	
33 42 11 00-0115 LF 108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,835.57	254.54
For >1,000, Deduct	-91.78	
For 100 PSI, Deduct	-367.98	
33 42 11 00-0116 LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,216.19	269.39
For >1,000, Deduct	-110.81	
For 100 PSI, Deduct	-457.84	
33 42 11 00-0117 LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,577.92	282.98
For >1,000, Deduct	-128.90	
For 100 PSI, Deduct	-543.42	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-0118	LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	2,809.57 -140.48 -596.48		296.56	
33 42 11 00-0119	LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	3,044.64 -152.23 -650.39		310.15	
33 42 11 00-0120	LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	3,277.99 -163.90 -703.88		323.74	
33 42 11 00-0121	LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	3,511.34 -175.57 -757.36		337.34	
33 42 11 00-0122	150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets (33 42 11 00-0095)				
33 42 11 00-0123	EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	536.46		180.94	
33 42 11 00-0124	EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	742.90		258.49	
33 42 11 00-0125	EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	956.31		344.66	
33 42 11 00-0126	EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,169.71		430.81	
33 42 11 00-0127	EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,421.01		535.36	
33 42 11 00-0128	EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,818.78		718.02	
33 42 11 00-0129	EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,255.98		854.31	
33 42 11 00-0130	EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,627.47		997.10	
33 42 11 00-0131	EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,959.36		1,138.67	
33 42 11 00-0132	EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,642.07		1,421.81	
33 42 11 00-0133	EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,708.27		1,896.34	
33 42 11 00-0134	EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,249.11		2,099.52	
33 42 11 00-0135	EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,789.96		2,302.70	
33 42 11 00-0136	EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,973.58		2,641.33	
33 42 11 00-0137	EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,149.72		2,979.97	
33 42 11 00-0138	EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,648.78		3,386.33	
33 42 11 00-0139	EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,140.35		3,792.69	
33 42 11 00-0140	EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,874.82		4,819.06	
33 42 11 00-0141	EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,530.62		5,782.86	
33 42 11 00-0142	EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	24,091.14		7,710.48	
33 42 11 00-0143	EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,560.44		9,638.12	
33 42 11 00-0144	EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	33,339.91		10,395.39	
33 42 11 00-0145	EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	37,124.47		11,152.67	
33 42 11 00-0146	EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	48,337.52		11,909.95	
33 42 11 00-0147	EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	44,770.62		12,667.23	
33 42 11 00-0148	150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets (33 42 11 00-0095)				
33 42 11 00-0149	EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	501.54		180.94	
33 42 11 00-0150	EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	697.72		258.49	
33 42 11 00-0151	EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	902.91		344.66	
33 42 11 00-0152	EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,108.09		430.81	
33 42 11 00-0153	EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,351.17		535.36	
33 42 11 00-0154	EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,722.94		669.77	
33 42 11 00-0155	EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,146.44		854.31	
33 42 11 00-0156	EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,500.82		997.10	
33 42 11 00-0157	EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,823.12		1,138.67	
33 42 11 00-0158	EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,445.77		1,421.81	
33 42 11 00-0159	EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,523.86		1,896.34	
33 42 11 00-0160	EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,051.34		2,099.52	
33 42 11 00-0161	EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,578.83		2,302.70	
33 42 11 00-0162	EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,480.76		2,641.33	
33 42 11 00-0163	EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,375.21		2,979.97	
33 42 11 00-0164	EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,671.35		3,386.33	
33 42 11 00-0165	EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,959.99		3,792.69	
33 42 11 00-0166	EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	12,979.70		4,740.86	
33 42 11 00-0167	EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	16,233.50		5,782.86	
33 42 11 00-0168	EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	21,235.14		7,710.48	
33 42 11 00-0169	EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	26,145.55		9,638.12	
33 42 11 00-0170	EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,173.14		10,395.39	
33 42 11 00-0171	EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	32,205.82		12,667.23	
33 42 11 00-0172	EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	35,249.34		11,909.95	
33 42 11 00-0173	EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	38,665.12		12,667.23	
33 42 11 00-0174	400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0094)				
33 42 11 00-0175	400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0174) Note: AWWA C301				
33 42 11 00-0176	LF 30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	302.01 -15.10		53.70	
33 42 11 00-0177	LF 36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	367.97 -18.40		61.02	
33 42 11 00-0178	LF 42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	429.16 -21.46		67.12	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0179		400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0174) Note: AWWA C301		
33 42 11 00-0180	LF	48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	577.53 -28.88	74.69
33 42 11 00-0181	LF	54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	689.96 -34.50	94.82
33 42 11 00-0182	LF	60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	795.42 -39.77	109.99
33 42 11 00-0183	LF	66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	895.44 -44.77	121.91
33 42 11 00-0184	LF	72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	1,084.30 -54.22	132.74
33 42 11 00-0185		Welded Joints For Prestressed Concrete Cylinder Pipe (33 42 11 00-0174) Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0186	EA	30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,073.25	
33 42 11 00-0187	EA	36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,226.83	
33 42 11 00-0188	EA	42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,303.62	
33 42 11 00-0189	EA	48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,610.76	
33 42 11 00-0190	EA	54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,687.55	
33 42 11 00-0191	EA	60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,841.13	
33 42 11 00-0192	EA	66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,917.91	
33 42 11 00-0193	EA	72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,994.70	
33 42 11 00-0194	EA	30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,839.36	
33 42 11 00-0195	EA	36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,839.36	
33 42 11 00-0196	EA	42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,376.87	
33 42 11 00-0197	EA	48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,376.87	
33 42 11 00-0198	EA	54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,684.02	
33 42 11 00-0199	EA	60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,684.02	
33 42 11 00-0200	EA	66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,067.95	
33 42 11 00-0201	EA	72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,067.95	
33 42 11 00-0202		Quick Test Joints (33 42 11 00-0174)		
33 42 11 00-0203	EA	30" Quick Test Joint.....	658.72	
33 42 11 00-0204	EA	36" Quick Test Joint.....	664.82	
33 42 11 00-0205	EA	42" Quick Test Joint.....	670.92	
33 42 11 00-0206	EA	48" Quick Test Joint.....	684.75	
33 42 11 00-0207	EA	54" Quick Test Joint.....	714.54	
33 42 11 00-0208	EA	60" Quick Test Joint.....	740.96	
33 42 11 00-0209	EA	66" Quick Test Joint.....	780.25	
33 42 11 00-0210	EA	72" Quick Test Joint.....	819.53	
33 42 11 00-0211		Harnessed Joints (33 42 11 00-0174)		
33 42 11 00-0212		Harness Clamp Restrained Joints (33 42 11 00-0211)		
33 42 11 00-0213	EA	30" Harness Clamp Restrained Joint.....	12,736.02	
33 42 11 00-0214	EA	36" Harness Clamp Restrained Joint.....	13,228.21	
33 42 11 00-0215	EA	42" Harness Clamp Restrained Joint.....	13,720.40	
33 42 11 00-0216	EA	48" Harness Clamp Restrained Joint.....	14,212.59	
33 42 11 00-0217	EA	54" Harness Clamp Restrained Joint.....	14,718.19	
33 42 11 00-0218	EA	60" Harness Clamp Restrained Joint.....	15,460.88	
33 42 11 00-0219	EA	66" Harness Clamp Restrained Joint.....	15,960.52	
33 42 11 00-0220	EA	72" Harness Clamp Restrained Joint.....	17,092.07	
33 42 11 00-0221		Snap Ring Restrained Joints (33 42 11 00-0211)		
33 42 11 00-0222	EA	30" Snap Ring Restrained Joint.....	2,042.01	
33 42 11 00-0223	EA	36" Snap Ring Restrained Joint.....	2,339.76	
33 42 11 00-0224	EA	42" Snap Ring Restrained Joint.....	3,172.22	
33 42 11 00-0225	EA	48" Snap Ring Restrained Joint.....	3,615.80	
33 42 11 00-0226	EA	54" Snap Ring Restrained Joint.....	4,072.79	
33 42 11 00-0227	EA	60" Snap Ring Restrained Joint.....	4,621.04	
33 42 11 00-0228	EA	66" Snap Ring Restrained Joint.....	5,120.68	
33 42 11 00-0229	EA	72" Snap Ring Restrained Joint.....	5,717.53	
33 42 11 00-0230		Pipe Repairs (33 42 11 00-0174) Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJD1 sleeve, 20' pipe.		
33 42 11 00-0231		Lined Cylinder Pipe Repair (33 42 11 00-0230)		
33 42 11 00-0232	EA	30" Lined Cylinder Pipe Repair.....	6,018.22	
33 42 11 00-0233	EA	36" Lined Cylinder Pipe Repair.....	7,437.59	
33 42 11 00-0234	EA	42" Lined Cylinder Pipe Repair.....	11,587.57	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 11 00-0235 Embedded Cylinder Pipe Repair (33 42 11 00-0230)					
Note: Field welded concrete enclosure assembly with concrete pipe.					
33 42 11 00-0236	EA 48" Embedded Cylinder Pipe Repair	17,285.45			
33 42 11 00-0237	EA 54" Embedded Cylinder Pipe Repair	20,077.63			
33 42 11 00-0238	EA 60" Embedded Cylinder Pipe Repair	22,890.19			
33 42 11 00-0239	EA 66" Embedded Cylinder Pipe Repair	25,861.87			
33 42 11 00-0240	EA 72" Embedded Cylinder Pipe Repair	31,115.97			
33 42 11 00-0241 High-Density Polyethylene (HDPE) Drainage Piping (33 42 11)					
Note: Includes detectable tracer wire.					
33 42 11 00-0242 Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0241)					
Note: Excludes couplings and gaskets.					
33 42 11 00-0243 Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0242)					
33 42 11 00-0244	LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	17.63		7.83	
	For <100, Add	3.13			
	For >1,000, Deduct	-1.67			
33 42 11 00-0245	LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	23.19		9.11	
	For <100, Add	3.64			
	For >1,000, Deduct	-2.07			
33 42 11 00-0246	LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	28.64		10.59	
	For <100, Add	4.24			
	For >1,000, Deduct	-2.49			
33 42 11 00-0247	LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	32.69		10.97	
	For <100, Add	4.39			
	For >1,000, Deduct	-2.73			
33 42 11 00-0248	LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	34.38		11.35	
	For <100, Add	4.54			
	For >1,000, Deduct	-2.85			
33 42 11 00-0249	LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	39.17		11.75	
	For <100, Add	4.70			
	For >1,000, Deduct	-3.13			
33 42 11 00-0250	LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	47.73		12.18	
	For <100, Add	4.87			
	For >1,000, Deduct	-3.60			
33 42 11 00-0251	LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	65.76		14.27	
	For <100, Add	5.71			
	For >1,000, Deduct	-4.72			
33 42 11 00-0252	LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	93.41		19.21	
	For <100, Add	7.68			
	For >1,000, Deduct	-6.59			
33 42 11 00-0253	LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	122.89		24.28	
	For <100, Add	9.71			
	For >1,000, Deduct	-8.57			
33 42 11 00-0254 Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0242)					
33 42 11 00-0255	LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	34.18		11.35	
	For <100, Add	4.54			
	For >1,000, Deduct	-2.84			
33 42 11 00-0256	LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	40.00		11.75	
	For <100, Add	4.70			
	For >1,000, Deduct	-3.18			
33 42 11 00-0257	LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	48.97		12.18	
	For <100, Add	4.87			
	For >1,000, Deduct	-3.67			
33 42 11 00-0258	LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	67.72		14.27	
	For <100, Add	5.71			
	For >1,000, Deduct	-4.81			
33 42 11 00-0259	LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	98.77		19.21	
	For <100, Add	7.68			
	For >1,000, Deduct	-6.86			
33 42 11 00-0260	LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	126.87		24.28	
	For <100, Add	9.71			
	For >1,000, Deduct	-8.77			
33 42 11 00-0261	LF 42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	166.04		26.48	
	For <100, Add	10.59			
	For >1,000, Deduct	-10.95			
33 42 11 00-0262	LF 48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	180.94		29.88	
	For <100, Add	11.95			
	For >1,000, Deduct	-12.04			
33 42 11 00-0263 Perforated, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0241)					
Note: Excludes couplings and gaskets.					

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-0264	Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0263)				
33 42 11 00-0265	LF 4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	18.66		7.83	
	For <100, Add	3.13			
	For >1,000, Deduct	-1.72			
33 42 11 00-0266	LF 6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	23.23		9.11	
	For <100, Add	3.64			
	For >1,000, Deduct	-2.07			
33 42 11 00-0267	LF 8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	28.64		10.59	
	For <100, Add	4.24			
	For >1,000, Deduct	-2.49			
33 42 11 00-0268	LF 10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	32.72		10.97	
	For <100, Add	4.39			
	For >1,000, Deduct	-2.73			
33 42 11 00-0269	LF 12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	34.38		11.35	
	For <100, Add	4.54			
	For >1,000, Deduct	-2.85			
33 42 11 00-0270	LF 15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	39.21		11.75	
	For <100, Add	4.70			
	For >1,000, Deduct	-3.14			
33 42 11 00-0271	LF 18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	47.76		12.18	
	For <100, Add	4.87			
	For >1,000, Deduct	-3.61			
33 42 11 00-0272	LF 24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	65.76		14.27	
	For <100, Add	5.71			
	For >1,000, Deduct	-4.72			
33 42 11 00-0273	LF 30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	93.75		19.21	
	For <100, Add	7.68			
	For >1,000, Deduct	-6.61			
33 42 11 00-0274	LF 36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	122.89		24.28	
	For <100, Add	9.71			
	For >1,000, Deduct	-8.57			
33 42 11 00-0275	Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0263)				
33 42 11 00-0276	LF 12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	34.21		11.35	
	For <100, Add	4.54			
	For >1,000, Deduct	-2.85			
33 42 11 00-0277	LF 15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	40.03		11.75	
	For <100, Add	4.70			
	For >1,000, Deduct	-3.18			
33 42 11 00-0278	LF 18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	49.00		12.18	
	For <100, Add	4.87			
	For >1,000, Deduct	-3.67			
33 42 11 00-0279	LF 24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	67.72		14.27	
	For <100, Add	5.71			
	For >1,000, Deduct	-4.81			
33 42 11 00-0280	LF 30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	98.77		19.21	
	For <100, Add	7.68			
	For >1,000, Deduct	-6.86			
33 42 11 00-0281	LF 36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	126.87		24.28	
	For <100, Add	9.71			
	For >1,000, Deduct	-8.77			
33 42 11 00-0282	LF 42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	166.04		26.48	
	For <100, Add	10.59			
	For >1,000, Deduct	-10.95			
33 42 11 00-0283	LF 48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	180.94		29.88	
	For <100, Add	11.95			
	For >1,000, Deduct	-12.04			
33 42 11 00-0284	Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0241)				
	Note: Excludes couplings and gaskets.				
33 42 11 00-0285	Tees, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) (33 42 11 00-0284)				
33 42 11 00-0286	EA 4" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	51.13		26.58	
33 42 11 00-0287	EA 6" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	61.94		31.01	
33 42 11 00-0288	EA 8" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	88.02		37.66	
33 42 11 00-0289	EA 10" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	123.72		46.52	
33 42 11 00-0290	EA 12" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	177.83		55.39	
33 42 11 00-0291	EA 15" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	245.39		72.37	
33 42 11 00-0292	EA 18" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	346.53		97.46	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0293 EA 24" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	430.46	111.25
33 42 11 00-0294 EA 30" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	689.36	128.49
33 42 11 00-0295 EA 36" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	869.34	148.42
33 42 11 00-0296 EA 42" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	1,379.81	177.21
33 42 11 00-0297 EA 48" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	1,720.33	210.45
33 42 11 00-0298 Wyes, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) (33 42 11 00-0284)		
33 42 11 00-0299 EA 4" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	62.98	26.58
33 42 11 00-0300 EA 6" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	74.95	31.01
33 42 11 00-0301 EA 8" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	96.24	37.66
33 42 11 00-0302 EA 10" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	132.78	46.52
33 42 11 00-0303 EA 12" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	206.97	55.39
33 42 11 00-0304 EA 15" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	236.45	72.37
33 42 11 00-0305 EA 18" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	329.14	97.46
33 42 11 00-0306 22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) (33 42 11 00-0284)		
33 42 11 00-0307 EA 4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	32.60	17.73
33 42 11 00-0308 EA 6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	39.07	20.68
33 42 11 00-0309 EA 8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	52.11	25.11
33 42 11 00-0310 EA 10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	65.02	31.01
33 42 11 00-0311 EA 12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	86.51	36.92
33 42 11 00-0312 EA 15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	125.95	47.26
33 42 11 00-0313 EA 18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	169.20	64.98
33 42 11 00-0314 EA 24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	273.23	73.84
33 42 11 00-0315 EA 30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	363.24	85.65
33 42 11 00-0316 EA 36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	424.27	98.95
33 42 11 00-0317 EA 42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	534.18	118.14
33 42 11 00-0318 EA 48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	703.34	140.29
33 42 11 00-0319 45 Degree Bends, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) (33 42 11 00-0284)		
33 42 11 00-0320 EA 4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	33.90	17.73
33 42 11 00-0321 EA 6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	41.78	20.68
33 42 11 00-0322 EA 8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	53.49	25.11
33 42 11 00-0323 EA 10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	76.24	31.01
33 42 11 00-0324 EA 12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	86.51	36.92
33 42 11 00-0325 EA 15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	125.73	47.26
33 42 11 00-0326 EA 18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	187.31	64.98
33 42 11 00-0327 EA 24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	287.21	73.84
33 42 11 00-0328 EA 30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	363.90	85.65
33 42 11 00-0329 EA 36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	454.42	98.95
33 42 11 00-0330 EA 42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	650.51	118.14
33 42 11 00-0331 EA 48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	807.61	140.29
33 42 11 00-0332 Couplings And End Caps, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0241)		
Note: For single and double wall high-density polyethylene (HDPE) piping.		
33 42 11 00-0333 Couplings, Corrugated High-Density Polyethylene (HDPE) Pipe (33 42 11 00-0332)		
33 42 11 00-0334 EA 4" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	0.77	
33 42 11 00-0335 EA 6" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	1.39	
33 42 11 00-0336 EA 8" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	2.14	
33 42 11 00-0337 EA 10" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	2.63	
33 42 11 00-0338 EA 12" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	2.83	
33 42 11 00-0339 EA 15" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	4.02	
33 42 11 00-0340 EA 18" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	5.95	
33 42 11 00-0341 EA 24" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	9.48	
33 42 11 00-0342 EA 30" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	14.55	
33 42 11 00-0343 EA 36" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	19.04	
33 42 11 00-0344 EA 42" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	29.93	
33 42 11 00-0345 EA 48" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	40.49	
33 42 11 00-0346 Self-Adhering Gaskets, Corrugated High-Density Polyethylene (HDPE) Pipe (33 42 11 00-0332)		
33 42 11 00-0347 EA 4" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	40.99	
33 42 11 00-0348 EA 6" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	42.92	
33 42 11 00-0349 EA 8" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	44.94	
33 42 11 00-0350 EA 10" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	47.05	
33 42 11 00-0351 EA 12" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	55.81	
33 42 11 00-0352 EA 15" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	57.62	
33 42 11 00-0353 EA 18" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	60.10	
33 42 11 00-0354 EA 24" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	68.46	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 42 11 00-0355	EA	30" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	109.74		
33 42 11 00-0356	EA	36" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	120.20		
33 42 11 00-0357	EA	42" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	130.97		
33 42 11 00-0358	EA	48" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	159.07		
33 42 11 00-0359		End Caps, Corrugated High-Density Polyethylene (HDPE) Pipe (33 42 11 00-0332)			
33 42 11 00-0360	EA	6" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	36.98		
33 42 11 00-0361	EA	8" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	43.24		
33 42 11 00-0362	EA	10" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	69.09		
33 42 11 00-0363	EA	12" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	116.39		
33 42 11 00-0364	EA	15" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	135.23		
33 42 11 00-0365	EA	18" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	182.25		
33 42 11 00-0366	EA	24" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	189.09		
33 42 11 00-0367		Vitrified Clay Piping (33 42 11)			
33 42 11 00-0368		Extra Strength Vitrified Clay Piping (33 42 11 00-0367)			
33 42 11 00-0369		Plain Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0368)			
		Note: ASTM C700.			
33 42 11 00-0370	LF	4" Plain Joint, Extra Strength, Vitrified Clay Pipe	23.52		
		For 3' Lengths, Add	2.03		
		For 2' Lengths, Add	2.70		
		For Standard Strength, Deduct	-0.68		
		For >1,000, Deduct	-1.18		
33 42 11 00-0371	LF	6" Plain Joint, Extra Strength, Vitrified Clay Pipe	39.05		
		For 3' Lengths, Add	3.14		
		For 2' Lengths, Add	4.19		
		For Standard Strength, Deduct	-1.05		
		For >1,000, Deduct	-1.95		
33 42 11 00-0372	LF	8" Plain Joint, Extra Strength, Vitrified Clay Pipe	46.73		
		For 3' Lengths, Add	4.49		
		For 2' Lengths, Add	5.99		
		For Standard Strength, Deduct	-1.50		
		For >1,000, Deduct	-2.34		
33 42 11 00-0373	LF	10" Plain Joint, Extra Strength, Vitrified Clay Pipe	55.96		
		For 3' Lengths, Add	6.88		
		For 2' Lengths, Add	9.18		
		For Standard Strength, Deduct	-2.29		
		For >1,000, Deduct	-2.80		
33 42 11 00-0374	LF	12" Plain Joint, Extra Strength, Vitrified Clay Pipe	68.42		
		For 3' Lengths, Add	9.72		
		For 2' Lengths, Add	12.96		
		For Standard Strength, Deduct	-3.24		
		For >1,000, Deduct	-3.42		
33 42 11 00-0375	LF	15" Plain Joint, Extra Strength, Vitrified Clay Pipe	100.83		
		For 3' Lengths, Add	18.22		
		For 2' Lengths, Add	24.30		
		For Standard Strength, Deduct	-6.07		
		For >1,000, Deduct	-5.04		
33 42 11 00-0376	LF	18" Plain Joint, Extra Strength, Vitrified Clay Pipe	137.04		
		For 3' Lengths, Add	26.12		
		For 2' Lengths, Add	34.82		
		For Standard Strength, Deduct	-8.71		
		For >1,000, Deduct	-6.85		
33 42 11 00-0377	LF	21" Plain Joint, Extra Strength, Vitrified Clay Pipe	202.52		
		For 3' Lengths, Add	41.84		
		For 2' Lengths, Add	55.79		
		For Standard Strength, Deduct	-13.95		
		For >1,000, Deduct	-10.13		
33 42 11 00-0378	LF	24" Plain Joint, Extra Strength, Vitrified Clay Pipe	258.78		
		For 3' Lengths, Add	54.66		
		For 2' Lengths, Add	72.88		
		For Standard Strength, Deduct	-18.22		
		For >1,000, Deduct	-12.94		
33 42 11 00-0379	LF	30" Plain Joint, Extra Strength, Vitrified Clay Pipe	320.17		
		For 3' Lengths, Add	68.16		
		For 2' Lengths, Add	90.88		
		For Standard Strength, Deduct	-22.72		
		For >1,000, Deduct	-16.01		
33 42 11 00-0380	LF	36" Plain Joint, Extra Strength, Vitrified Clay Pipe	387.34		
		For 3' Lengths, Add	82.33		
		For 2' Lengths, Add	109.78		
		For Standard Strength, Deduct	-27.44		
		For >1,000, Deduct	-19.37		
33 42 11 00-0381		Compression Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0368)			
		Note: ASTM C425.			



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0382	LF	4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	33.35	
		For 3' Lengths, Add	2.39	
		For 2' Lengths, Add	3.18	
		For Standard Strength, Deduct	-0.80	
		For >1,000, Deduct	-1.67	
33 42 11 00-0383	LF	6" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	41.57	
		For 3' Lengths, Add	3.90	
		For 2' Lengths, Add	5.20	
		For Standard Strength, Deduct	-1.30	
		For >1,000, Deduct	-2.08	
33 42 11 00-0384	LF	8" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	50.11	
		For 3' Lengths, Add	5.51	
		For 2' Lengths, Add	7.34	
		For Standard Strength, Deduct	-1.84	
		For >1,000, Deduct	-2.51	
33 42 11 00-0385	LF	10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	63.16	
		For 3' Lengths, Add	9.04	
		For 2' Lengths, Add	12.06	
		For Standard Strength, Deduct	-3.01	
		For >1,000, Deduct	-3.16	
33 42 11 00-0386	LF	12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	75.62	
		For 3' Lengths, Add	11.88	
		For 2' Lengths, Add	15.84	
		For Standard Strength, Deduct	-3.96	
		For >1,000, Deduct	-3.78	
33 42 11 00-0387	LF	15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	112.30	
		For 3' Lengths, Add	21.66	
		For 2' Lengths, Add	28.88	
		For Standard Strength, Deduct	-7.22	
		For >1,000, Deduct	-5.62	
33 42 11 00-0388	LF	18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	155.72	
		For 3' Lengths, Add	31.72	
		For 2' Lengths, Add	42.29	
		For Standard Strength, Deduct	-10.57	
		For >1,000, Deduct	-7.79	
33 42 11 00-0389	LF	21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	223.89	
		For 3' Lengths, Add	48.25	
		For 2' Lengths, Add	64.34	
		For Standard Strength, Deduct	-16.08	
		For >1,000, Deduct	-11.19	
33 42 11 00-0390	LF	24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	292.52	
		For 3' Lengths, Add	64.79	
		For 2' Lengths, Add	86.38	
		For Standard Strength, Deduct	-21.60	
		For >1,000, Deduct	-14.63	
33 42 11 00-0391	LF	30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	468.63	
		For 3' Lengths, Add	112.70	
		For 2' Lengths, Add	150.26	
		For Standard Strength, Deduct	-37.57	
		For >1,000, Deduct	-23.43	
33 42 11 00-0392	LF	36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	666.27	
		For 3' Lengths, Add	166.01	
		For 2' Lengths, Add	221.35	
		For Standard Strength, Deduct	-55.34	
		For >1,000, Deduct	-33.31	
33 42 11 00-0393		Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0367)		
33 42 11 00-0394		1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0393)		
33 42 11 00-0395		Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0394)		
33 42 11 00-0396	EA	4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	98.47	
33 42 11 00-0397	EA	6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	132.99	
33 42 11 00-0398	EA	8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	190.12	
33 42 11 00-0399	EA	10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	261.21	
33 42 11 00-0400	EA	12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	345.19	
33 42 11 00-0401	EA	15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	825.03	
33 42 11 00-0402	EA	18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,163.75	
33 42 11 00-0403	EA	21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,815.94	
33 42 11 00-0404	EA	24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,095.81	
33 42 11 00-0405	EA	30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,433.65	
33 42 11 00-0406	EA	36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	3,651.45	
33 42 11 00-0407		Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0394)		
33 42 11 00-0408	EA	4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	111.29	
33 42 11 00-0409	EA	6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	158.29	
33 42 11 00-0410	EA	8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	214.48	
33 42 11 00-0411	EA	10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	287.29	
33 42 11 00-0412	EA	12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	364.74	
33 42 11 00-0413	EA	15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	925.48	
33 42 11 00-0414	EA	18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,346.51	
33 42 11 00-0415	EA	21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,384.13	
33 42 11 00-0416	EA	24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,684.03	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0417 EA 30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,989.03	
33 42 11 00-0418 EA 36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	4,439.38	
33 42 11 00-0419 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0393)		
33 42 11 00-0420 Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0419)		
33 42 11 00-0421 EA 4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	115.22	
33 42 11 00-0422 EA 6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	153.18	
33 42 11 00-0423 EA 8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	213.73	
33 42 11 00-0424 EA 10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	286.79	
33 42 11 00-0425 EA 12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	374.02	
33 42 11 00-0426 EA 15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	857.10	
33 42 11 00-0427 EA 18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,203.74	
33 42 11 00-0428 EA 21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,866.38	
33 42 11 00-0429 EA 24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,157.07	
33 42 11 00-0430 EA 30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,510.03	
33 42 11 00-0431 EA 36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	3,736.37	
33 42 11 00-0432 Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0419)		
33 42 11 00-0433 EA 4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	131.41	
33 42 11 00-0434 EA 6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	182.52	
33 42 11 00-0435 EA 8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	242.82	
33 42 11 00-0436 EA 10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	318.00	
33 42 11 00-0437 EA 12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	399.33	
33 42 11 00-0438 EA 15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	963.97	
33 42 11 00-0439 EA 18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	1,394.50	
33 42 11 00-0440 EA 21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,705.65	
33 42 11 00-0441 EA 24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,757.54	
33 42 11 00-0442 EA 30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	3,080.70	
33 42 11 00-0443 EA 36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	4,541.29	
33 42 11 00-0444 Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0393)		
33 42 11 00-0445 Plain End Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0444)		
33 42 11 00-0446 EA 4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	126.63	
33 42 11 00-0447 EA 6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	165.29	
33 42 11 00-0448 EA 8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	224.58	
33 42 11 00-0449 EA 10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	296.50	
33 42 11 00-0450 EA 12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	374.81	
33 42 11 00-0451 EA 15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	865.73	
33 42 11 00-0452 EA 18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,211.48	
33 42 11 00-0453 EA 21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,750.37	
33 42 11 00-0454 EA 24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,435.74	
33 42 11 00-0455 EA 30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,577.96	
33 42 11 00-0456 EA 36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	3,707.52	
33 42 11 00-0457 Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0444)		
33 42 11 00-0458 EA 4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	154.70	
33 42 11 00-0459 EA 6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	212.10	
33 42 11 00-0460 EA 8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	279.26	
33 42 11 00-0461 EA 10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	360.89	
33 42 11 00-0462 EA 12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	450.23	
33 42 11 00-0463 EA 15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,053.08	
33 42 11 00-0464 EA 18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,517.66	
33 42 11 00-0465 EA 21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,253.10	
33 42 11 00-0466 EA 24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,985.01	
33 42 11 00-0467 EA 30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	3,452.89	
33 42 11 00-0468 EA 36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee.....	4,901.53	
33 42 11 00-0469 Vitrified Clay Couplings (33 42 11 00-0367)		
33 42 11 00-0470 Vitrified Clay To Cast Iron Or Plastic Pipe Couplings (33 42 11 00-0469)		
Note: Stainless steel tightening band at each end (Fernco #1002)		
33 42 11 00-0471 EA 4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	35.60	
33 42 11 00-0472 EA 4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	35.28	
33 42 11 00-0473 EA 5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	47.89	
33 42 11 00-0474 EA 5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	45.32	
33 42 11 00-0475 EA 6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	58.15	
33 42 11 00-0476 EA 6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	60.38	
33 42 11 00-0477 EA 6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	55.45	
33 42 11 00-0478 EA 8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	78.99	
33 42 11 00-0479 EA 8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	73.36	
33 42 11 00-0480 EA 10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	102.52	
33 42 11 00-0481 EA 10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	93.81	
33 42 11 00-0482 EA 12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	126.72	
33 42 11 00-0483 EA 12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	106.72	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0484	EA	15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	211.56	
33 42 11 00-0485	EA	15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	163.89	
33 42 11 00-0486		Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings (33 42 11 00-0469) Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0487	EA	4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	76.82	
33 42 11 00-0488	EA	6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	102.54	
33 42 11 00-0489	EA	6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	108.54	
33 42 11 00-0490	EA	8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	113.79	
33 42 11 00-0491	EA	10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	140.80	
33 42 11 00-0492	EA	12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	163.57	
33 42 11 00-0493		Vitrified Clay To Plastic Pipe Non-Shear Couplings (33 42 11 00-0469) Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0494	EA	4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	78.83	
33 42 11 00-0495	EA	6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	104.55	
33 42 11 00-0496	EA	6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling	95.61	
33 42 11 00-0497	EA	8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling	125.81	
33 42 11 00-0498	EA	10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling	182.90	
33 42 11 00-0499	EA	12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling	206.80	
33 42 11 00-0500		Corrugated Metal Piping (33 42 11)		
33 42 11 00-0501		Galvanized Corrugated Steel Piping (33 42 11 00-0500)		
33 42 11 00-0502		2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0501)		
33 42 11 00-0503		16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0502)		
33 42 11 00-0504	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	45.03	12.07
		For Bituminous Coated Pipe, Add	4.83	
		For Bituminous Coated And 25% Paved, Add	9.88	
		For Smooth-Flo, Add	17.64	
33 42 11 00-0505	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	51.08	12.64
		For Bituminous Coated Pipe, Add	6.08	
		For Bituminous Coated And 25% Paved, Add	12.44	
		For Smooth-Flo, Add	22.21	
33 42 11 00-0506	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	57.35	13.78
		For Bituminous Coated Pipe, Add	7.37	
		For Bituminous Coated And 25% Paved, Add	15.07	
		For Smooth-Flo, Add	26.92	
33 42 11 00-0507	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	65.44	14.93
		For Bituminous Coated Pipe, Add	8.81	
		For Bituminous Coated And 25% Paved, Add	18.03	
		For Smooth-Flo, Add	32.20	
33 42 11 00-0508	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	72.49	16.08
		For Bituminous Coated Pipe, Add	9.92	
		For Bituminous Coated And 25% Paved, Add	20.29	
		For Smooth-Flo, Add	36.23	
33 42 11 00-0509	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	95.59	20.68
		For Bituminous Coated Pipe, Add	12.87	
		For Bituminous Coated And 25% Paved, Add	26.32	
		For Smooth-Flo, Add	47.00	
33 42 11 00-0510	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	124.02	26.85
		For Bituminous Coated Pipe, Add	16.23	
		For Bituminous Coated And 25% Paved, Add	33.20	
		For Smooth-Flo, Add	59.29	
33 42 11 00-0511	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	141.49	31.73
		For Bituminous Coated Pipe, Add	19.21	
		For Bituminous Coated And 25% Paved, Add	39.28	
		For Smooth-Flo, Add	70.15	
33 42 11 00-0512	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	158.98	36.62
		For Bituminous Coated Pipe, Add	21.51	
		For Bituminous Coated And 25% Paved, Add	44.00	
		For Smooth-Flo, Add	78.58	
33 42 11 00-0513		14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0502)		
33 42 11 00-0514	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	49.35	12.07
		For Bituminous Coated Pipe, Add	4.90	
		For Bituminous Coated And 25% Paved, Add	11.36	
		For Smooth-Flo, Add	22.97	
33 42 11 00-0515	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	56.40	12.64
		For Bituminous Coated Pipe, Add	6.15	
		For Bituminous Coated And 25% Paved, Add	14.25	
		For Smooth-Flo, Add	28.81	
33 42 11 00-0516	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	63.77	13.78
		For Bituminous Coated Pipe, Add	7.45	
		For Bituminous Coated And 25% Paved, Add	17.26	
		For Smooth-Flo, Add	34.88	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0517 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	72.86	14.93
For Bituminous Coated Pipe, Add	8.86	
For Bituminous Coated And 25% Paved, Add	20.52	
For Smooth-Flo, Add	41.47	
33 42 11 00-0518 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	81.12	16.08
For Bituminous Coated Pipe, Add	10.02	
For Bituminous Coated And 25% Paved, Add	23.22	
For Smooth-Flo, Add	46.93	
33 42 11 00-0519 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	106.13	20.68
For Bituminous Coated Pipe, Add	12.87	
For Bituminous Coated And 25% Paved, Add	29.82	
For Smooth-Flo, Add	60.27	
33 42 11 00-0520 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	136.81	26.85
For Bituminous Coated Pipe, Add	16.13	
For Bituminous Coated And 25% Paved, Add	37.37	
For Smooth-Flo, Add	75.55	
33 42 11 00-0521 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	156.14	31.73
For Bituminous Coated Pipe, Add	18.99	
For Bituminous Coated And 25% Paved, Add	44.00	
For Smooth-Flo, Add	88.93	
33 42 11 00-0522 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	175.73	36.62
For Bituminous Coated Pipe, Add	21.34	
For Bituminous Coated And 25% Paved, Add	49.44	
For Smooth-Flo, Add	99.94	
33 42 11 00-0523 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	210.32	41.49
For Bituminous Coated Pipe, Add	26.24	
For Bituminous Coated And 25% Paved, Add	60.80	
For Smooth-Flo, Add	122.90	
33 42 11 00-0524 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾		
^{42 11 00-0502} LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	77.06	13.78
For Bituminous Coated Pipe, Add	8.53	
For Bituminous Coated And 25% Paved, Add	15.40	
For Smooth-Flo, Add	29.59	
33 42 11 00-0526 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	88.31	14.93
For Bituminous Coated Pipe, Add	10.08	
For Bituminous Coated And 25% Paved, Add	18.20	
For Smooth-Flo, Add	34.98	
33 42 11 00-0527 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	98.73	14.93
For Bituminous Coated Pipe, Add	11.43	
For Bituminous Coated And 25% Paved, Add	20.64	
For Smooth-Flo, Add	39.66	
33 42 11 00-0528 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	127.90	20.68
For Bituminous Coated Pipe, Add	14.53	
For Bituminous Coated And 25% Paved, Add	26.24	
For Smooth-Flo, Add	50.43	
33 42 11 00-0529 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	162.64	26.85
For Bituminous Coated Pipe, Add	17.97	
For Bituminous Coated And 25% Paved, Add	32.45	
For Smooth-Flo, Add	62.36	
33 42 11 00-0530 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	185.98	31.73
For Bituminous Coated Pipe, Add	21.05	
For Bituminous Coated And 25% Paved, Add	38.02	
For Smooth-Flo, Add	73.07	
33 42 11 00-0531 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	209.94	36.62
For Bituminous Coated Pipe, Add	23.77	
For Bituminous Coated And 25% Paved, Add	42.93	
For Smooth-Flo, Add	82.51	
33 42 11 00-0532 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	248.09	41.49
For Bituminous Coated Pipe, Add	28.51	
For Bituminous Coated And 25% Paved, Add	51.48	
For Smooth-Flo, Add	98.94	
33 42 11 00-0533 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	271.27	43.94
For Bituminous Coated Pipe, Add	31.22	
For Bituminous Coated And 25% Paved, Add	56.38	
For Smooth-Flo, Add	108.35	
33 42 11 00-0534 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	328.73	53.70
For Bituminous Coated Pipe, Add	38.01	
For Bituminous Coated And 25% Paved, Add	68.64	
For Smooth-Flo, Add	131.91	
33 42 11 00-0535 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾		
^{42 11 00-0502} LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	186.82	26.85
For Bituminous Coated Pipe, Add	22.86	
For Bituminous Coated And 25% Paved, Add	38.18	
For Smooth-Flo, Add	54.48	
33 42 11 00-0537 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	214.27	31.73
For Bituminous Coated Pipe, Add	26.78	
For Bituminous Coated And 25% Paved, Add	44.73	
For Smooth-Flo, Add	63.82	



Utilities			33	33
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 42 11 00-0538	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	242.05 30.26 50.56 72.14	36.62
33 42 11 00-0539	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	284.06 35.84 59.88 85.44	41.49
33 42 11 00-0540	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	311.30 39.37 65.76 93.83	43.94
33 42 11 00-0541	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	372.72 47.09 78.67 112.25	53.70
33 42 11 00-0542	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	442.61 50.56 84.46 120.51	78.11
33 42 11 00-0543		3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0501)		
33 42 11 00-0544		16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0543)		
33 42 11 00-0545	LF	36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	146.19 17.85 40.51 80.67	26.85
33 42 11 00-0546	LF	42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	166.92 20.96 47.57 94.73	31.73
33 42 11 00-0547	LF	48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	187.62 23.51 53.36 106.25	36.62
33 42 11 00-0548	LF	54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	223.97 28.71 65.18 129.79	41.49
33 42 11 00-0549	LF	60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	244.03 31.28 71.01 141.39	43.94
33 42 11 00-0550	LF	66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	306.05 40.18 91.21 181.61	53.70
33 42 11 00-0551	LF	72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	369.48 42.83 97.22 193.59	78.11
33 42 11 00-0552	LF	78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	398.31 45.49 103.26 205.61	85.43
33 42 11 00-0553	LF	84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	423.80 48.15 109.29 217.62	91.53
33 42 11 00-0554	LF	90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	449.35 50.82 115.35 229.69	97.64
33 42 11 00-0555	LF	96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	475.69 53.46 121.36 241.66	103.74
33 42 11 00-0556	LF	102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	505.53 56.14 127.44 253.76	109.84
33 42 11 00-0557		14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0543)		
33 42 11 00-0558	LF	54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	246.59 33.24 65.15 131.62	41.49
33 42 11 00-0559	LF	60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	269.06 36.29 71.12 143.70	43.94

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0560	LF	66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	333.59	53.70
		For Bituminous Coated Pipe, Add	45.69	
		For Bituminous Coated And 25% Paved, Add	89.55	
		For Smooth-Flo, Add	180.92	
33 42 11 00-0561	LF	72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	399.47	78.11
		For Bituminous Coated Pipe, Add	48.83	
		For Bituminous Coated And 25% Paved, Add	95.70	
		For Smooth-Flo, Add	193.36	
33 42 11 00-0562	LF	78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	430.71	85.43
		For Bituminous Coated Pipe, Add	51.97	
		For Bituminous Coated And 25% Paved, Add	101.86	
		For Smooth-Flo, Add	205.79	
33 42 11 00-0563	LF	84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	458.77	91.53
		For Bituminous Coated Pipe, Add	55.14	
		For Bituminous Coated And 25% Paved, Add	108.07	
		For Smooth-Flo, Add	218.35	
33 42 11 00-0564	LF	90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	486.67	97.64
		For Bituminous Coated Pipe, Add	58.28	
		For Bituminous Coated And 25% Paved, Add	114.23	
		For Smooth-Flo, Add	230.79	
33 42 11 00-0565	LF	96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	515.47	103.74
		For Bituminous Coated Pipe, Add	61.42	
		For Bituminous Coated And 25% Paved, Add	120.38	
		For Smooth-Flo, Add	243.22	
33 42 11 00-0566	LF	102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	547.72	109.84
		For Bituminous Coated Pipe, Add	64.58	
		For Bituminous Coated And 25% Paved, Add	126.58	
		For Smooth-Flo, Add	255.74	
33 42 11 00-0567	LF	108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	582.79	122.05
		For Bituminous Coated Pipe, Add	67.74	
		For Bituminous Coated And 25% Paved, Add	132.77	
		For Smooth-Flo, Add	268.25	
33 42 11 00-0568	LF	114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	617.06	134.25
		For Bituminous Coated Pipe, Add	70.84	
		For Bituminous Coated And 25% Paved, Add	138.85	
		For Smooth-Flo, Add	280.53	
33 42 11 00-0569	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0543)			
33 42 11 00-0570	LF	60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	324.59	43.94
		For Bituminous Coated Pipe, Add	47.39	
		For Bituminous Coated And 25% Paved, Add	90.29	
		For Smooth-Flo, Add	147.16	
33 42 11 00-0571	LF	66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	395.09	53.70
		For Bituminous Coated Pipe, Add	57.99	
		For Bituminous Coated And 25% Paved, Add	110.47	
		For Smooth-Flo, Add	180.05	
33 42 11 00-0572	LF	72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	466.34	78.11
		For Bituminous Coated Pipe, Add	62.20	
		For Bituminous Coated And 25% Paved, Add	118.49	
		For Smooth-Flo, Add	193.14	
33 42 11 00-0573	LF	78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	503.00	85.43
		For Bituminous Coated Pipe, Add	66.43	
		For Bituminous Coated And 25% Paved, Add	126.54	
		For Smooth-Flo, Add	206.25	
33 42 11 00-0574	LF	84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	536.42	91.53
		For Bituminous Coated Pipe, Add	70.67	
		For Bituminous Coated And 25% Paved, Add	134.63	
		For Smooth-Flo, Add	219.43	
33 42 11 00-0575	LF	90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	569.74	97.64
		For Bituminous Coated Pipe, Add	74.89	
		For Bituminous Coated And 25% Paved, Add	142.67	
		For Smooth-Flo, Add	232.55	
33 42 11 00-0576	LF	96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	604.01	103.74
		For Bituminous Coated Pipe, Add	79.13	
		For Bituminous Coated And 25% Paved, Add	150.74	
		For Smooth-Flo, Add	245.69	
33 42 11 00-0577	LF	102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	641.67	109.84
		For Bituminous Coated Pipe, Add	83.37	
		For Bituminous Coated And 25% Paved, Add	158.82	
		For Smooth-Flo, Add	258.86	
33 42 11 00-0578	LF	108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	682.06	122.05
		For Bituminous Coated Pipe, Add	87.59	
		For Bituminous Coated And 25% Paved, Add	166.87	
		For Smooth-Flo, Add	271.98	
33 42 11 00-0579	LF	114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	721.80	134.25
		For Bituminous Coated Pipe, Add	91.79	
		For Bituminous Coated And 25% Paved, Add	174.86	
		For Smooth-Flo, Add	285.00	
33 42 11 00-0580	LF	120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	760.26	146.45
		For Bituminous Coated Pipe, Add	96.03	
		For Bituminous Coated And 25% Paved, Add	182.94	
		For Smooth-Flo, Add	298.18	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0581		10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0543)		
33 42 11 00-0582	LF	72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	528.69	78.11
		For Bituminous Coated Pipe, Add	74.67	
		For Bituminous Coated And 25% Paved, Add	141.88	
		For Smooth-Flo, Add	189.67	
33 42 11 00-0583	LF	78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	570.47	85.43
		For Bituminous Coated Pipe, Add	79.92	
		For Bituminous Coated And 25% Paved, Add	151.85	
		For Smooth-Flo, Add	203.00	
33 42 11 00-0584	LF	84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	609.00	91.53
		For Bituminous Coated Pipe, Add	85.19	
		For Bituminous Coated And 25% Paved, Add	161.85	
		For Smooth-Flo, Add	216.37	
33 42 11 00-0585	LF	90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	647.44	97.64
		For Bituminous Coated Pipe, Add	90.43	
		For Bituminous Coated And 25% Paved, Add	171.82	
		For Smooth-Flo, Add	229.70	
33 42 11 00-0586	LF	96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	686.82	103.74
		For Bituminous Coated Pipe, Add	95.69	
		For Bituminous Coated And 25% Paved, Add	181.81	
		For Smooth-Flo, Add	243.05	
33 42 11 00-0587	LF	102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	729.61	109.84
		For Bituminous Coated Pipe, Add	100.96	
		For Bituminous Coated And 25% Paved, Add	191.82	
		For Smooth-Flo, Add	256.43	
33 42 11 00-0588	LF	108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	775.12	122.05
		For Bituminous Coated Pipe, Add	106.21	
		For Bituminous Coated And 25% Paved, Add	201.79	
		For Smooth-Flo, Add	269.76	
33 42 11 00-0589	LF	114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	819.92	134.25
		For Bituminous Coated Pipe, Add	111.41	
		For Bituminous Coated And 25% Paved, Add	211.68	
		For Smooth-Flo, Add	282.99	
33 42 11 00-0590	LF	120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	863.55	146.45
		For Bituminous Coated Pipe, Add	116.69	
		For Bituminous Coated And 25% Paved, Add	221.71	
		For Smooth-Flo, Add	296.39	
33 42 11 00-0591	LF	126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	909.34	158.65
		For Bituminous Coated Pipe, Add	121.92	
		For Bituminous Coated And 25% Paved, Add	231.64	
		For Smooth-Flo, Add	309.67	
33 42 11 00-0592	LF	132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	958.30	170.87
		For Bituminous Coated Pipe, Add	127.18	
		For Bituminous Coated And 25% Paved, Add	241.65	
		For Smooth-Flo, Add	323.05	
33 42 11 00-0593	LF	138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	1,011.00	183.07
		For Bituminous Coated Pipe, Add	132.46	
		For Bituminous Coated And 25% Paved, Add	251.67	
		For Smooth-Flo, Add	336.45	
33 42 11 00-0594		125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0501)		
33 42 11 00-0595		16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0594)		
33 42 11 00-0596	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	188.27	36.62
		For Bituminous Coated Pipe, Add	29.55	
		For Bituminous Coated And 25% Paved, Add	67.36	
		For Smooth-Flo, Add	106.95	
33 42 11 00-0597	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	225.22	41.49
		For Bituminous Coated Pipe, Add	36.21	
		For Bituminous Coated And 25% Paved, Add	82.55	
		For Smooth-Flo, Add	131.06	
33 42 11 00-0598	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	245.13	43.94
		For Bituminous Coated Pipe, Add	39.38	
		For Bituminous Coated And 25% Paved, Add	89.78	
		For Smooth-Flo, Add	142.55	
33 42 11 00-0599	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	303.44	53.70
		For Bituminous Coated Pipe, Add	49.57	
		For Bituminous Coated And 25% Paved, Add	113.03	
		For Smooth-Flo, Add	179.45	
33 42 11 00-0600	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	366.57	78.11
		For Bituminous Coated Pipe, Add	52.81	
		For Bituminous Coated And 25% Paved, Add	120.41	
		For Smooth-Flo, Add	191.17	
33 42 11 00-0601	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	395.00	85.43
		For Bituminous Coated Pipe, Add	56.03	
		For Bituminous Coated And 25% Paved, Add	127.75	
		For Smooth-Flo, Add	202.84	
33 42 11 00-0602	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	420.04	91.53
		For Bituminous Coated Pipe, Add	59.24	
		For Bituminous Coated And 25% Paved, Add	135.07	
		For Smooth-Flo, Add	214.46	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0603 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	445.03	97.64
For Bituminous Coated Pipe, Add	62.44	
For Bituminous Coated And 25% Paved, Add	142.36	
For Smooth-Flo, Add	226.03	
33 42 11 00-0604 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	471.12	103.74
For Bituminous Coated Pipe, Add	65.69	
For Bituminous Coated And 25% Paved, Add	149.77	
For Smooth-Flo, Add	237.79	
33 42 11 00-0605 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	500.87	109.84
For Bituminous Coated Pipe, Add	69.01	
For Bituminous Coated And 25% Paved, Add	157.35	
For Smooth-Flo, Add	249.83	
33 42 11 00-0606 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0594)		
33 42 11 00-0607 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	253.51	41.49
For Bituminous Coated Pipe, Add	34.62	
For Bituminous Coated And 25% Paved, Add	81.36	
For Smooth-Flo, Add	147.32	
33 42 11 00-0608 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	276.58	43.94
For Bituminous Coated Pipe, Add	37.79	
For Bituminous Coated And 25% Paved, Add	88.81	
For Smooth-Flo, Add	160.80	
33 42 11 00-0609 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	337.76	53.70
For Bituminous Coated Pipe, Add	46.52	
For Bituminous Coated And 25% Paved, Add	109.33	
For Smooth-Flo, Add	197.95	
33 42 11 00-0610 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	403.64	78.11
For Bituminous Coated Pipe, Add	49.66	
For Bituminous Coated And 25% Paved, Add	116.71	
For Smooth-Flo, Add	211.31	
33 42 11 00-0611 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	435.43	85.43
For Bituminous Coated Pipe, Add	52.91	
For Bituminous Coated And 25% Paved, Add	124.34	
For Smooth-Flo, Add	225.14	
33 42 11 00-0612 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	463.63	91.53
For Bituminous Coated Pipe, Add	56.11	
For Bituminous Coated And 25% Paved, Add	131.86	
For Smooth-Flo, Add	238.76	
33 42 11 00-0613 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	490.18	97.64
For Bituminous Coated Pipe, Add	58.98	
For Bituminous Coated And 25% Paved, Add	138.61	
For Smooth-Flo, Add	250.97	
33 42 11 00-0614 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	520.84	103.74
For Bituminous Coated Pipe, Add	62.49	
For Bituminous Coated And 25% Paved, Add	146.86	
For Smooth-Flo, Add	265.91	
33 42 11 00-0615 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	553.24	109.84
For Bituminous Coated Pipe, Add	65.68	
For Bituminous Coated And 25% Paved, Add	154.36	
For Smooth-Flo, Add	279.49	
33 42 11 00-0616 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	588.31	122.05
For Bituminous Coated Pipe, Add	68.84	
For Bituminous Coated And 25% Paved, Add	161.78	
For Smooth-Flo, Add	292.93	
33 42 11 00-0617 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	623.28	134.25
For Bituminous Coated Pipe, Add	72.08	
For Bituminous Coated And 25% Paved, Add	169.40	
For Smooth-Flo, Add	306.72	
33 42 11 00-0618 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0594)		
33 42 11 00-0619 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	335.48	43.94
For Bituminous Coated Pipe, Add	49.57	
For Bituminous Coated And 25% Paved, Add	94.19	
For Smooth-Flo, Add	170.03	
33 42 11 00-0620 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	402.62	53.70
For Bituminous Coated Pipe, Add	59.49	
For Bituminous Coated And 25% Paved, Add	113.04	
For Smooth-Flo, Add	204.06	
33 42 11 00-0621 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	474.67	78.11
For Bituminous Coated Pipe, Add	63.87	
For Bituminous Coated And 25% Paved, Add	121.35	
For Smooth-Flo, Add	219.07	
33 42 11 00-0622 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	511.93	85.43
For Bituminous Coated Pipe, Add	68.21	
For Bituminous Coated And 25% Paved, Add	129.60	
For Smooth-Flo, Add	233.97	
33 42 11 00-0623 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	545.65	91.53
For Bituminous Coated Pipe, Add	72.52	
For Bituminous Coated And 25% Paved, Add	137.78	
For Smooth-Flo, Add	248.73	



Utilities			33	CS
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0624	LF	90"	12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	579.67 76.88 146.07 263.70	97.64
33 42 11 00-0625	LF	96"	12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	614.44 81.21 154.31 278.56	103.74
33 42 11 00-0626	LF	102"	12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	652.51 85.54 162.52 293.40	109.84
33 42 11 00-0627	LF	108"	12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	693.60 89.90 170.81 308.36	122.05
33 42 11 00-0628	LF	114"	12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	734.04 94.24 179.05 323.23	134.25
33 42 11 00-0629	LF	120"	12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	772.95 98.57 187.28 338.10	146.45
33 42 11 00-0630			10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0594)		
33 42 11 00-0631	LF	72"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	542.69 77.47 147.20 231.25	78.11
33 42 11 00-0632	LF	78"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	586.27 83.08 157.85 247.99	85.43
33 42 11 00-0633	LF	84"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	625.91 88.57 168.28 264.38	91.53
33 42 11 00-0634	LF	90"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	665.30 94.01 178.61 280.61	97.64
33 42 11 00-0635	LF	96"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	705.89 99.50 189.06 297.02	103.74
33 42 11 00-0636	LF	102"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	749.58 104.95 199.41 313.28	109.84
33 42 11 00-0637	LF	108"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	796.28 110.44 209.83 329.66	122.05
33 42 11 00-0638	LF	114"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	842.44 115.92 220.24 346.01	134.25
33 42 11 00-0639	LF	120"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	886.92 121.36 230.59 362.27	146.45
33 42 11 00-0640	LF	126"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	942.55 128.56 244.26 383.75	158.65
33 42 11 00-0641	LF	132"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	994.82 134.49 255.53 401.45	170.87
33 42 11 00-0642	LF	138"	10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	1,051.94 140.65 267.23 419.83	183.07
33 42 11 00-0643			Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0501)		
33 42 11 00-0644			16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0643)		
33 42 11 00-0645	LF	18"	16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	65.98 9.11	13.78
33 42 11 00-0646	LF	21"	16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	75.57 10.85	14.93

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0647 LF 24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	84.38 12.32	16.08
33 42 11 00-0648 LF 30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	110.54 15.87	20.68
33 42 11 00-0649 LF 36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	142.33 19.89	26.85
33 42 11 00-0650 LF 42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	162.81 23.46	31.73
33 42 11 00-0651 LF 48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	183.41 26.40	36.62
33 42 11 00-0652 LF 54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	219.20 32.34	41.49
33 42 11 00-0653 LF 60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	239.16 35.31	43.94
33 42 11 00-0654 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0643)		
33 42 11 00-0655 LF 18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	72.50 10.53	13.78
33 42 11 00-0656 LF 21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	83.20 12.52	14.93
33 42 11 00-0657 LF 24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	93.06 14.22	16.08
33 42 11 00-0658 LF 30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	121.33 18.23	20.68
33 42 11 00-0659 LF 36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	155.32 22.72	26.85
33 42 11 00-0660 LF 42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	178.01 26.77	31.73
33 42 11 00-0661 LF 48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	200.76 30.18	36.62
33 42 11 00-0662 LF 54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	238.71 36.57	41.49
33 42 11 00-0663 LF 60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	260.88 40.02	43.94
33 42 11 00-0664 LF 66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	320.40 49.72	53.70
33 42 11 00-0665 LF 72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	385.33 53.13	78.11
33 42 11 00-0666 LF 78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	415.87 56.60	85.43
33 42 11 00-0667 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0643)		
33 42 11 00-0668 LF 30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	143.20 19.05	20.68
33 42 11 00-0669 LF 36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	181.45 23.53	26.85
33 42 11 00-0670 LF 42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	208.61 27.68	31.73
33 42 11 00-0671 LF 48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	235.68 31.30	36.62
33 42 11 00-0672 LF 54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	278.04 37.35	41.49
33 42 11 00-0673 LF 60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	304.63 41.01	43.94
33 42 11 00-0674 LF 66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	368.41 49.76	53.70
33 42 11 00-0675 LF 72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	437.65 53.36	78.11
33 42 11 00-0676 LF 78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	472.50 57.01	85.43
33 42 11 00-0677 LF 84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	503.91 60.64	91.53
33 42 11 00-0678 LF 90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	535.27 64.26	97.64
33 42 11 00-0679 LF 96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	567.54 67.88	103.74
33 42 11 00-0680 LF 102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	601.04 71.11	109.84
33 42 11 00-0681 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0501)		
33 42 11 00-0682 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0681)		
33 42 11 00-0683 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	23.28 2.33	6.90
33 42 11 00-0684 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	25.22 2.80	6.90
33 42 11 00-0685 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	29.28 3.08	8.62
33 42 11 00-0686 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	31.74 3.68	8.62



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0687	LF	10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	37.00 3.87	10.34
33 42 11 00-0688	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	40.13 4.64	10.34
33 42 11 00-0689 Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0681)				
33 42 11 00-0690	LF	6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	23.55 2.30	6.90
33 42 11 00-0691	LF	6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	25.43 2.74	6.90
33 42 11 00-0692	LF	8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	29.55 3.02	8.62
33 42 11 00-0693	LF	8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	32.17 3.63	8.62
33 42 11 00-0694	LF	10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	37.46 3.82	10.34
33 42 11 00-0695	LF	10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	40.67 4.57	10.34
33 42 11 00-0696 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00-0681)				
33 42 11 00-0697	EA	6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	14.37 3.23	
33 42 11 00-0698	EA	8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	19.02 4.28	
33 42 11 00-0699	EA	10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	23.33 5.25	
33 42 11 00-0700	EA	6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	51.83 7.15	
33 42 11 00-0701	EA	6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	11.08 1.63	
33 42 11 00-0702	EA	8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	14.12 2.45	
33 42 11 00-0703 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0501)				
33 42 11 00-0704 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0703)				
33 42 11 00-0705	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	73.56	12.07
33 42 11 00-0706	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	87.03	12.64
33 42 11 00-0707	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	100.94	13.78
33 42 11 00-0708	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	117.53	14.93
33 42 11 00-0709	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	131.19	16.08
33 42 11 00-0710	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	171.63	20.68
33 42 11 00-0711	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	220.04	26.85
33 42 11 00-0712	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	255.06	31.73
33 42 11 00-0713	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	286.23	36.62
33 42 11 00-0714 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0703)				
33 42 11 00-0715	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	84.05	12.07
33 42 11 00-0716	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	100.04	12.64
33 42 11 00-0717	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	116.52	13.78
33 42 11 00-0718	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	135.57	14.93
33 42 11 00-0719	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	152.14	16.08
33 42 11 00-0720	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	197.34	20.68
33 42 11 00-0721	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	251.08	26.85
33 42 11 00-0722	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	290.69	31.73
33 42 11 00-0723	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	326.88	36.62
33 42 11 00-0724	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	396.25	41.49
33 42 11 00-0725 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0703)				
33 42 11 00-0726	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	148.98	13.78
33 42 11 00-0727	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	173.47	14.93
33 42 11 00-0728	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	195.23	16.08
33 42 11 00-0729	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	251.18	20.68
33 42 11 00-0730	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	302.48	26.85
33 42 11 00-0731	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	365.99	31.73
33 42 11 00-0732	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	412.82	36.62
33 42 11 00-0733	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	494.30	41.49
33 42 11 00-0734	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	540.17	43.94
33 42 11 00-0735	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	661.79	53.70
33 42 11 00-0736 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0703)				
33 42 11 00-0737	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	374.69	26.85

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0738 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	434.59	31.73
33 42 11 00-0739 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	490.74	36.62
33 42 11 00-0740 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	581.60	41.49
33 42 11 00-0741 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	637.35	43.94
33 42 11 00-0742 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	768.51	53.70
33 42 11 00-0743 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	866.55	78.11
33 42 11 00-0744 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0501)		
33 42 11 00-0745 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0744)		
33 42 11 00-0746 LF 36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	279.64	26.85
33 42 11 00-0747 LF 42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	323.78	31.73
33 42 11 00-0748 LF 48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	363.27	36.62
33 42 11 00-0749 LF 54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	440.06	41.49
33 42 11 00-0750 LF 60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	479.15	43.94
33 42 11 00-0751 LF 66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	610.70	53.70
33 42 11 00-0752 LF 72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	693.79	78.11
33 42 11 00-0753 LF 78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	742.22	85.43
33 42 11 00-0754 LF 84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	787.43	91.53
33 42 11 00-0755 LF 90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	832.67	97.64
33 42 11 00-0756 LF 96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	878.66	103.74
33 42 11 00-0757 LF 102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	928.30	109.84
33 42 11 00-0758 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0744)		
33 42 11 00-0759 LF 54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	496.18	41.49
33 42 11 00-0760 LF 60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	541.19	43.94
33 42 11 00-0761 LF 66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	679.03	53.70
33 42 11 00-0762 LF 72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	768.11	78.11
33 42 11 00-0763 LF 78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	822.61	85.43
33 42 11 00-0764 LF 84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	874.11	91.53
33 42 11 00-0765 LF 90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	925.25	97.64
33 42 11 00-0766 LF 96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	977.26	103.74
33 42 11 00-0767 LF 102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,033.01	109.84
33 42 11 00-0768 LF 108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,091.43	122.05
33 42 11 00-0769 LF 114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,148.62	134.25
33 42 11 00-0770 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0744)		
33 42 11 00-0771 LF 60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	682.31	43.94
33 42 11 00-0772 LF 66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	836.03	53.70
33 42 11 00-0773 LF 72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	938.72	78.11
33 42 11 00-0774 LF 78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,006.90	85.43
33 42 11 00-0775 LF 84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,072.01	91.53
33 42 11 00-0776 LF 90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,136.85	97.64
33 42 11 00-0777 LF 96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,202.66	103.74
33 42 11 00-0778 LF 102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,272.00	109.84
33 42 11 00-0779 LF 108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,343.91	122.05
33 42 11 00-0780 LF 114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,414.98	134.25
33 42 11 00-0781 LF 120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,485.13	146.45
33 42 11 00-0782 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0744)		
33 42 11 00-0783 LF 72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,094.18	78.11
33 42 11 00-0784 LF 78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,175.02	85.43
33 42 11 00-0785 LF 84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,252.91	91.53
33 42 11 00-0786 LF 90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,330.46	97.64
33 42 11 00-0787 LF 96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,409.07	103.74
33 42 11 00-0788 LF 102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,491.16	109.84
33 42 11 00-0789 LF 108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,575.85	122.05
33 42 11 00-0790 LF 114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,659.61	134.25
33 42 11 00-0791 LF 120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,742.51	146.45
33 42 11 00-0792 LF 126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,827.37	158.65
33 42 11 00-0793 LF 132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,915.63	170.87
33 42 11 00-0794 LF 138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	2,007.66	183.07
33 42 11 00-0795 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0501)		
33 42 11 00-0796 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0795)		
33 42 11 00-0797 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	351.17	36.62
33 42 11 00-0798 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	426.74	41.49
33 42 11 00-0799 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	463.90	43.94
33 42 11 00-0800 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	582.35	53.70
33 42 11 00-0801 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	663.12	78.11
33 42 11 00-0802 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	709.13	85.43
33 42 11 00-0803 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	751.60	91.53
33 42 11 00-0804 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	793.96	97.64



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0805	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	837.67	103.74
33 42 11 00-0806	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	885.61	109.84
33 42 11 00-0807		14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0795)		
33 42 11 00-0808	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	493.40	41.49
33 42 11 00-0809	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	538.14	43.94
33 42 11 00-0810	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	663.32	53.70
33 42 11 00-0811	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	750.61	78.11
33 42 11 00-0812	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	804.53	85.43
33 42 11 00-0813	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	854.42	91.53
33 42 11 00-0814	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	900.51	97.64
33 42 11 00-0815	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	955.03	103.74
33 42 11 00-0816	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,009.18	109.84
33 42 11 00-0817	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,065.69	122.05
33 42 11 00-0818	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,122.70	134.25
33 42 11 00-0819		12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0795)		
33 42 11 00-0820	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	686.94	43.94
33 42 11 00-0821	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	827.95	53.70
33 42 11 00-0822	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	930.79	78.11
33 42 11 00-0823	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	998.39	85.43
33 42 11 00-0824	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,062.23	91.53
33 42 11 00-0825	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,126.89	97.64
33 42 11 00-0826	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,192.05	103.74
33 42 11 00-0827	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,260.35	109.84
33 42 11 00-0828	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,332.06	122.05
33 42 11 00-0829	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,402.88	134.25
33 42 11 00-0830	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,472.13	146.45
33 42 11 00-0831		10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0795)		
33 42 11 00-0832	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,094.11	78.11
33 42 11 00-0833	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,176.90	85.43
33 42 11 00-0834	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,255.06	91.53
33 42 11 00-0835	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,332.56	97.64
33 42 11 00-0836	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,411.55	103.74
33 42 11 00-0837	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,493.51	109.84
33 42 11 00-0838	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,578.58	122.05
33 42 11 00-0839	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,663.11	134.25
33 42 11 00-0840	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,745.83	146.45
33 42 11 00-0841	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,851.81	158.65
33 42 11 00-0842	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,945.67	170.87
33 42 11 00-0843	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	2,045.92	183.07
33 42 11 00-0844		Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0500)		
33 42 11 00-0845		2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0844)		
33 42 11 00-0846		16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0845)		
33 42 11 00-0847	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	52.54	12.64
		For Bituminous Coated Pipe, Add	6.62	
		For Bituminous Coated And 25% Paved, Add	16.01	
		For Smooth-Flo, Add	26.40	
33 42 11 00-0848	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	58.65	13.78
		For Bituminous Coated Pipe, Add	7.91	
		For Bituminous Coated And 25% Paved, Add	19.11	
		For Smooth-Flo, Add	31.53	
33 42 11 00-0849	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	67.24	14.93
		For Bituminous Coated Pipe, Add	9.52	
		For Bituminous Coated And 25% Paved, Add	23.01	
		For Smooth-Flo, Add	37.95	
33 42 11 00-0850	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	75.55	16.08
		For Bituminous Coated Pipe, Add	10.97	
		For Bituminous Coated And 25% Paved, Add	26.51	
		For Smooth-Flo, Add	43.73	
33 42 11 00-0851	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	98.35	20.68
		For Bituminous Coated Pipe, Add	13.93	
		For Bituminous Coated And 25% Paved, Add	33.67	
		For Smooth-Flo, Add	55.54	
33 42 11 00-0852	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	129.08	26.85
		For Bituminous Coated Pipe, Add	17.96	
		For Bituminous Coated And 25% Paved, Add	43.42	
		For Smooth-Flo, Add	71.63	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-0853	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0845)				
33 42 11 00-0854	LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	57.90 6.87 16.07 26.36		12.64	
33 42 11 00-0855	LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	65.22 8.24 19.27 31.61		13.78	
33 42 11 00-0856	LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	74.57 9.79 22.91 37.58		14.93	
33 42 11 00-0857	LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	84.03 11.29 26.42 43.33		16.08	
33 42 11 00-0858	LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	108.94 14.30 33.46 54.88		20.68	
33 42 11 00-0859	LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	141.68 18.22 42.62 69.90		26.85	
33 42 11 00-0860	LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	163.06 21.70 50.77 83.27		31.73	
33 42 11 00-0861	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0845)				
33 42 11 00-0862	LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	84.86 8.91 19.84 30.50		14.65	
33 42 11 00-0863	LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	97.07 10.57 23.52 36.17		15.86	
33 42 11 00-0864	LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	109.13 12.12 26.98 41.49		17.09	
33 42 11 00-0865	LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	140.81 15.27 33.97 52.24		21.97	
33 42 11 00-0866	LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	167.36 19.10 42.51 65.36		26.85	
33 42 11 00-0867	LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	192.70 22.59 50.27 77.30		31.73	
33 42 11 00-0868	LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	224.94 26.79 59.62 91.67		36.62	
33 42 11 00-0869	LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	251.41 29.58 65.84 101.24		41.49	
33 42 11 00-0870	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0845)				
33 42 11 00-0871	LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	191.54 23.01 48.45 61.10		26.85	
33 42 11 00-0872	LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	220.90 27.15 57.16 72.08		31.73	
33 42 11 00-0873	LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	256.90 31.94 67.25 84.81		36.62	



Utilities			33	33
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0874	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	287.52	41.49	
		For Bituminous Coated Pipe, Add	35.42		
		For Bituminous Coated And 25% Paved, Add	74.56		
		For Smooth-Flo, Add	94.03		
33 42 11 00-0875	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	315.01	43.94	
		For Bituminous Coated Pipe, Add	38.88		
		For Bituminous Coated And 25% Paved, Add	81.86		
		For Smooth-Flo, Add	103.24		
33 42 11 00-0876		3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch			
33 42 11 00-0877		14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch			
33 42 11 00-0878	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	251.05	41.49	
		For Bituminous Coated Pipe, Add	34.13		
		For Bituminous Coated And 25% Paved, Add	103.76		
		For Smooth-Flo, Add	116.04		
33 42 11 00-0879	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	274.38	43.94	
		For Bituminous Coated Pipe, Add	37.35		
		For Bituminous Coated And 25% Paved, Add	113.55		
		For Smooth-Flo, Add	127.00		
33 42 11 00-0880	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	339.71	53.70	
		For Bituminous Coated Pipe, Add	46.91		
		For Bituminous Coated And 25% Paved, Add	142.61		
		For Smooth-Flo, Add	159.50		
33 42 11 00-0881	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	406.80	78.11	
		For Bituminous Coated Pipe, Add	50.29		
		For Bituminous Coated And 25% Paved, Add	152.89		
		For Smooth-Flo, Add	171.00		
33 42 11 00-0882	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	440.09	85.43	
		For Bituminous Coated Pipe, Add	53.84		
		For Bituminous Coated And 25% Paved, Add	163.69		
		For Smooth-Flo, Add	183.07		
33 42 11 00-0883	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	470.15	91.53	
		For Bituminous Coated Pipe, Add	57.42		
		For Bituminous Coated And 25% Paved, Add	174.54		
		For Smooth-Flo, Add	195.21		
33 42 11 00-0884	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	500.11	97.64	
		For Bituminous Coated Pipe, Add	60.97		
		For Bituminous Coated And 25% Paved, Add	185.34		
		For Smooth-Flo, Add	207.29		
33 42 11 00-0885	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	530.92	103.74	
		For Bituminous Coated Pipe, Add	64.51		
		For Bituminous Coated And 25% Paved, Add	196.11		
		For Smooth-Flo, Add	219.33		
33 42 11 00-0886		12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch			
33 42 11 00-0887	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	329.96	43.94	
		For Bituminous Coated Pipe, Add	48.47		
		For Bituminous Coated And 25% Paved, Add	126.99		
		For Smooth-Flo, Add	150.25		
33 42 11 00-0888	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	401.36	53.70	
		For Bituminous Coated Pipe, Add	59.24		
		For Bituminous Coated And 25% Paved, Add	155.21		
		For Smooth-Flo, Add	183.65		
33 42 11 00-0889	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	473.92	78.11	
		For Bituminous Coated Pipe, Add	63.72		
		For Bituminous Coated And 25% Paved, Add	166.94		
		For Smooth-Flo, Add	197.53		
33 42 11 00-0890	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	512.63	85.43	
		For Bituminous Coated Pipe, Add	68.35		
		For Bituminous Coated And 25% Paved, Add	179.08		
		For Smooth-Flo, Add	211.89		
33 42 11 00-0891	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	548.11	91.53	
		For Bituminous Coated Pipe, Add	73.01		
		For Bituminous Coated And 25% Paved, Add	191.28		
		For Smooth-Flo, Add	226.32		
33 42 11 00-0892	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	583.53	97.64	
		For Bituminous Coated Pipe, Add	77.65		
		For Bituminous Coated And 25% Paved, Add	203.45		
		For Smooth-Flo, Add	240.72		
33 42 11 00-0893	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	619.76	103.74	
		For Bituminous Coated Pipe, Add	82.28		
		For Bituminous Coated And 25% Paved, Add	215.57		
		For Smooth-Flo, Add	255.06		
33 42 11 00-0894	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	659.58	109.84	
		For Bituminous Coated Pipe, Add	86.95		
		For Bituminous Coated And 25% Paved, Add	227.81		
		For Smooth-Flo, Add	269.55		
33 42 11 00-0895	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	702.08	122.05	
		For Bituminous Coated Pipe, Add	91.60		
		For Bituminous Coated And 25% Paved, Add	239.99		
		For Smooth-Flo, Add	283.95		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0896	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	746.38	134.25
		For Bituminous Coated Pipe, Add	.....	96.70	
		For Bituminous Coated And 25% Paved, Add	.....	253.36	
		For Smooth-Flo, Add	.....	299.78	
33 42 11 00-0897 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0896)					
33 42 11 00-0898	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	536.27	78.11
		For Bituminous Coated Pipe, Add	.....	76.19	
		For Bituminous Coated And 25% Paved, Add	.....	181.33	
		For Smooth-Flo, Add	.....	196.95	
33 42 11 00-0899	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	580.15	85.43
		For Bituminous Coated Pipe, Add	.....	81.86	
		For Bituminous Coated And 25% Paved, Add	.....	194.82	
		For Smooth-Flo, Add	.....	211.60	
33 42 11 00-0900	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	620.74	91.53
		For Bituminous Coated Pipe, Add	.....	87.53	
		For Bituminous Coated And 25% Paved, Add	.....	208.33	
		For Smooth-Flo, Add	.....	226.28	
33 42 11 00-0901	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	661.18	97.64
		For Bituminous Coated Pipe, Add	.....	93.18	
		For Bituminous Coated And 25% Paved, Add	.....	221.77	
		For Smooth-Flo, Add	.....	240.88	
33 42 11 00-0902	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	702.58	103.74
		For Bituminous Coated Pipe, Add	.....	98.84	
		For Bituminous Coated And 25% Paved, Add	.....	235.24	
		For Smooth-Flo, Add	.....	255.51	
33 42 11 00-0903	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	747.47	109.84
		For Bituminous Coated Pipe, Add	.....	104.53	
		For Bituminous Coated And 25% Paved, Add	.....	248.78	
		For Smooth-Flo, Add	.....	270.21	
33 42 11 00-0904	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	795.08	122.05
		For Bituminous Coated Pipe, Add	.....	110.20	
		For Bituminous Coated And 25% Paved, Add	.....	262.27	
		For Smooth-Flo, Add	.....	284.86	
33 42 11 00-0905	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	844.10	134.25
		For Bituminous Coated Pipe, Add	.....	116.25	
		For Bituminous Coated And 25% Paved, Add	.....	276.67	
		For Smooth-Flo, Add	.....	300.50	
33 42 11 00-0906	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	897.66	146.45
		For Bituminous Coated Pipe, Add	.....	123.51	
		For Bituminous Coated And 25% Paved, Add	.....	293.96	
		For Smooth-Flo, Add	.....	319.28	
33 42 11 00-0907 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0844)					
33 42 11 00-0908 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0907)					
33 42 11 00-0909	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	480.04	78.11
		For Bituminous Coated Pipe, Add	.....	64.94	
		For Bituminous Coated And 25% Paved, Add	.....	158.46	
		For Smooth-Flo, Add	.....	201.64	
33 42 11 00-0910	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	518.15	85.43
		For Bituminous Coated Pipe, Add	.....	69.46	
		For Bituminous Coated And 25% Paved, Add	.....	169.47	
		For Smooth-Flo, Add	.....	215.66	
33 42 11 00-0911	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	552.67	91.53
		For Bituminous Coated Pipe, Add	.....	73.92	
		For Bituminous Coated And 25% Paved, Add	.....	180.36	
		For Smooth-Flo, Add	.....	229.52	
33 42 11 00-0912	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	587.19	97.64
		For Bituminous Coated Pipe, Add	.....	78.38	
		For Bituminous Coated And 25% Paved, Add	.....	191.26	
		For Smooth-Flo, Add	.....	243.38	
33 42 11 00-0913	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	622.77	103.74
		For Bituminous Coated Pipe, Add	.....	82.88	
		For Bituminous Coated And 25% Paved, Add	.....	202.23	
		For Smooth-Flo, Add	.....	257.34	
33 42 11 00-0914	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	662.09	109.84
		For Bituminous Coated Pipe, Add	.....	87.45	
		For Bituminous Coated And 25% Paved, Add	.....	213.39	
		For Smooth-Flo, Add	.....	271.54	
33 42 11 00-0915	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	704.08	122.05
		For Bituminous Coated Pipe, Add	.....	92.00	
		For Bituminous Coated And 25% Paved, Add	.....	224.48	
		For Smooth-Flo, Add	.....	285.65	
33 42 11 00-0916	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	751.35	134.25
		For Bituminous Coated Pipe, Add	.....	97.70	
		For Bituminous Coated And 25% Paved, Add	.....	238.38	
		For Smooth-Flo, Add	.....	303.35	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0917		10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0907)		
33 42 11 00-0918	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	549.06	78.11
		For Bituminous Coated Pipe, Add	78.75	
		For Bituminous Coated And 25% Paved, Add	177.97	
		For Smooth-Flo, Add	193.32	
33 42 11 00-0919	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	592.69	85.43
		For Bituminous Coated Pipe, Add	84.36	
		For Bituminous Coated And 25% Paved, Add	190.66	
		For Smooth-Flo, Add	207.11	
33 42 11 00-0920	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	632.83	91.53
		For Bituminous Coated Pipe, Add	89.95	
		For Bituminous Coated And 25% Paved, Add	203.29	
		For Smooth-Flo, Add	220.83	
33 42 11 00-0921	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	673.12	97.64
		For Bituminous Coated Pipe, Add	95.57	
		For Bituminous Coated And 25% Paved, Add	215.99	
		For Smooth-Flo, Add	234.62	
33 42 11 00-0922	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	713.36	103.74
		For Bituminous Coated Pipe, Add	101.00	
		For Bituminous Coated And 25% Paved, Add	228.26	
		For Smooth-Flo, Add	247.95	
33 42 11 00-0923	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	759.06	109.84
		For Bituminous Coated Pipe, Add	106.85	
		For Bituminous Coated And 25% Paved, Add	241.48	
		For Smooth-Flo, Add	262.31	
33 42 11 00-0924	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	806.77	122.05
		For Bituminous Coated Pipe, Add	112.54	
		For Bituminous Coated And 25% Paved, Add	254.33	
		For Smooth-Flo, Add	276.28	
33 42 11 00-0925	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	859.70	134.25
		For Bituminous Coated Pipe, Add	119.37	
		For Bituminous Coated And 25% Paved, Add	269.77	
		For Smooth-Flo, Add	293.05	
33 42 11 00-0926	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	909.19	146.45
		For Bituminous Coated Pipe, Add	125.82	
		For Bituminous Coated And 25% Paved, Add	284.35	
		For Smooth-Flo, Add	308.88	
33 42 11 00-0927		2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0844)		
33 42 11 00-0928		16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0927)		
33 42 11 00-0929	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	87.12	12.64
33 42 11 00-0930	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	99.99	13.78
33 42 11 00-0931	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	117.12	14.93
33 42 11 00-0932	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	133.11	16.08
33 42 11 00-0933	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	171.68	20.68
33 42 11 00-0934	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	224.33	26.85
33 42 11 00-0935		14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0927)		
33 42 11 00-0936	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	99.47	12.64
33 42 11 00-0937	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	115.07	13.78
33 42 11 00-0938	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	133.96	14.93
33 42 11 00-0939	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	152.68	16.08
33 42 11 00-0940	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	196.01	20.68
33 42 11 00-0941	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	253.27	26.85
33 42 11 00-0942	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	296.28	31.73
33 42 11 00-0943		12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0927)		
33 42 11 00-0944	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	152.05	13.78
33 42 11 00-0945	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	177.76	14.93
33 42 11 00-0946	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	202.28	16.08
33 42 11 00-0947	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	257.91	20.68
33 42 11 00-0948	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	328.03	26.85
33 42 11 00-0949	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	383.35	31.73
33 42 11 00-0950	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	452.57	36.62
33 42 11 00-0951	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	502.09	41.49
33 42 11 00-0952		10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0927)		
33 42 11 00-0953	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	386.68	26.85
33 42 11 00-0954	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	451.77	31.73
33 42 11 00-0955	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	530.13	36.62
33 42 11 00-0956	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	589.79	41.49
33 42 11 00-0957	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	646.18	43.94

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0958		3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0844)		
33 42 11 00-0959		14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0958)		
33 42 11 00-0960	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	507.19	41.49
33 42 11 00-0961	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	554.14	43.94
33 42 11 00-0962	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	694.07	53.70
33 42 11 00-0963	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	786.16	78.11
33 42 11 00-0964	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	845.79	85.43
33 42 11 00-0965	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	902.26	91.53
33 42 11 00-0966	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	958.47	97.64
33 42 11 00-0967	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,015.71	103.74
33 42 11 00-0968		12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0958)		
33 42 11 00-0969	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	695.54	43.94
33 42 11 00-0970	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	851.47	53.70
33 42 11 00-0971	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	957.47	78.11
33 42 11 00-0972	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,030.75	85.43
33 42 11 00-0973	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,100.95	91.53
33 42 11 00-0974	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,171.05	97.64
33 42 11 00-0975	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,241.87	103.74
33 42 11 00-0976	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,316.51	109.84
33 42 11 00-0977	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,393.68	122.05
33 42 11 00-0978	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,476.13	134.25
33 42 11 00-0979		10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0958)		
33 42 11 00-0980	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,112.89	78.11
33 42 11 00-0981	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,199.02	85.43
33 42 11 00-0982	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,282.05	91.53
33 42 11 00-0983	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,364.64	97.64
33 42 11 00-0984	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,448.26	103.74
33 42 11 00-0985	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,535.61	109.84
33 42 11 00-0986	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,625.58	122.05
33 42 11 00-0987	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,719.70	134.25
33 42 11 00-0988	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,827.44	146.45
33 42 11 00-0989		125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0844)		
33 42 11 00-0990		12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0989)		
33 42 11 00-0991	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	943.50	78.11
33 42 11 00-0992	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,013.28	85.43
33 42 11 00-0993	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,079.12	91.53
33 42 11 00-0994	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,144.86	97.64
33 42 11 00-0995	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,211.91	103.74
33 42 11 00-0996	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,283.31	109.84
33 42 11 00-0997	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,357.11	122.05
33 42 11 00-0998	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,444.28	134.25
33 42 11 00-0999		10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0989)		
33 42 11 00-1000	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,109.26	78.11
33 42 11 00-1001	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,192.20	85.43
33 42 11 00-1002	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,271.49	91.53
33 42 11 00-1003	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,351.14	97.64
33 42 11 00-1004	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,429.50	103.74
33 42 11 00-1005	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,516.08	109.84
33 42 11 00-1006	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,603.68	122.05
33 42 11 00-1007	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,704.64	134.25
33 42 11 00-1008	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,799.08	146.45
33 42 11 00-1009		Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0500)		
33 42 11 00-1010		2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1009)		
33 42 11 00-1011		16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1010)		
33 42 11 00-1012	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	49.45	12.07
		For 1/2 Bituminous Coated And 25% Paved, Add	9.85	
33 42 11 00-1013	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	56.65	12.64
		For 1/2 Bituminous Coated And 25% Paved, Add	12.40	
33 42 11 00-1014	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	64.12	13.78
		For 1/2 Bituminous Coated And 25% Paved, Add	15.04	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-1015	LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	73.51 17.97		14.93	
33 42 11 00-1016	LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	81.62 20.24		16.08	
33 42 11 00-1017	LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	107.43 26.26		20.68	
33 42 11 00-1018	LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	138.97 33.14		26.85	
33 42 11 00-1019	LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	159.15 39.20		31.73	
33 42 11 00-1020	LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	178.79 43.91		36.62	
33 42 11 00-1021	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1010)				
33 42 11 00-1022	LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	54.77 9.36		12.07	
33 42 11 00-1023	LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	63.22 11.74		12.64	
33 42 11 00-1024	LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	71.95 14.19		13.78	
33 42 11 00-1025	LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	82.59 16.87		14.93	
33 42 11 00-1026	LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	92.16 19.10		16.08	
33 42 11 00-1027	LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	120.32 24.54		20.68	
33 42 11 00-1028	LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	154.57 30.75		26.85	
33 42 11 00-1029	LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	177.10 36.22		31.73	
33 42 11 00-1030	LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	199.26 40.69		36.62	
33 42 11 00-1031	LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	239.22 50.03		41.49	
33 42 11 00-1032	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1010)				
33 42 11 00-1033	LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	88.40 13.22		13.78	
33 42 11 00-1034	LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	101.81 15.65		14.93	
33 42 11 00-1035	LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	113.98 17.73		16.08	
33 42 11 00-1036	LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	147.56 22.61		20.68	
33 42 11 00-1037	LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	187.42 28.05		26.85	
33 42 11 00-1038	LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	215.18 32.91		31.73	
33 42 11 00-1039	LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	242.70 37.11		36.62	
33 42 11 00-1040	LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	288.83 44.81		41.49	
33 42 11 00-1041	LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	315.51 49.00		43.94	
33 42 11 00-1042	LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	385.41 60.26		53.70	
33 42 11 00-1043	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1010)				
33 42 11 00-1044	LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	216.97 30.72		26.85	
33 42 11 00-1045	LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	249.74 36.02		31.73	
33 42 11 00-1046	LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	281.93 40.67		36.62	
33 42 11 00-1047	LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	332.82 48.46		41.49	
33 42 11 00-1048	LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	364.47 53.16		43.94	
33 42 11 00-1049	LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	439.19 64.14		53.70	
33 42 11 00-1050	LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	513.44 68.76		78.11	
33 42 11 00-1051	3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1009)				

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1052		16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1051)		
33 42 11 00-1053	LF	36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	162.19 36.83	26.85
33 42 11 00-1054	LF	42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	185.73 43.26	31.73
33 42 11 00-1055	LF	48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	208.69 48.51	36.62
33 42 11 00-1056	LF	54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	249.70 59.26	41.49
33 42 11 00-1057	LF	60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	272.07 64.56	43.94
33 42 11 00-1058	LF	66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	342.07 82.92	53.70
33 42 11 00-1059	LF	72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	407.85 88.38	78.11
33 42 11 00-1060	LF	78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	439.04 93.86	85.43
33 42 11 00-1061	LF	84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	466.94 99.35	91.53
33 42 11 00-1062	LF	90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	494.84 104.85	97.64
33 42 11 00-1063	LF	96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	523.59 110.33	103.74
33 42 11 00-1064	LF	102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	555.85 115.86	109.84
33 42 11 00-1065		14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1061)		
33 42 11 00-1066	LF	54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	276.39 51.35	41.49
33 42 11 00-1067	LF	60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	301.57 56.05	43.94
33 42 11 00-1068	LF	66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	374.53 70.58	53.70
33 42 11 00-1069	LF	72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	443.22 75.43	78.11
33 42 11 00-1070	LF	78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	477.27 80.28	85.43
33 42 11 00-1071	LF	84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	508.18 85.18	91.53
33 42 11 00-1072	LF	90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	538.89 90.03	97.64
33 42 11 00-1073	LF	96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	570.50 94.88	103.74
33 42 11 00-1074	LF	102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	605.61 99.77	109.84
33 42 11 00-1075	LF	108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	643.49 104.64	122.05
33 42 11 00-1076	LF	114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	680.57 109.44	134.25
33 42 11 00-1077		12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1061)		
33 42 11 00-1078	LF	60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	367.13 75.19	43.94
33 42 11 00-1079	LF	66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	447.11 91.99	53.70
33 42 11 00-1080	LF	72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	522.12 98.67	78.11
33 42 11 00-1081	LF	78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	562.59 105.37	85.43
33 42 11 00-1082	LF	84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	599.82 112.11	91.53
33 42 11 00-1083	LF	90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	636.96 118.81	97.64
33 42 11 00-1084	LF	96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	674.94 125.51	103.74
33 42 11 00-1085	LF	102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	716.42 132.24	109.84
33 42 11 00-1086	LF	108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	760.62 138.95	122.05
33 42 11 00-1087	LF	114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	804.12 145.60	134.25
33 42 11 00-1088	LF	120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	846.39 152.33	146.45
33 42 11 00-1089		10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1061)		
33 42 11 00-1090	LF	72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	595.71 121.10	78.11



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1091	LF	78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	642.10	85.43
		For 1/2 Bituminous Coated And 25% Paved, Add	129.59	
33 42 11 00-1092	LF	84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	685.40	91.53
		For 1/2 Bituminous Coated And 25% Paved, Add	138.14	
33 42 11 00-1093	LF	90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	728.50	97.64
		For 1/2 Bituminous Coated And 25% Paved, Add	146.64	
33 42 11 00-1094	LF	96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	772.60	103.74
		For 1/2 Bituminous Coated And 25% Paved, Add	155.16	
33 42 11 00-1095	LF	102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	820.15	109.84
		For 1/2 Bituminous Coated And 25% Paved, Add	163.72	
33 42 11 00-1096	LF	108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	870.32	122.05
		For 1/2 Bituminous Coated And 25% Paved, Add	172.21	
33 42 11 00-1097	LF	114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	919.84	134.25
		For 1/2 Bituminous Coated And 25% Paved, Add	180.67	
33 42 11 00-1098	LF	120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	968.19	146.45
		For 1/2 Bituminous Coated And 25% Paved, Add	189.22	
33 42 11 00-1099	LF	126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,018.70	158.65
		For 1/2 Bituminous Coated And 25% Paved, Add	197.71	
33 42 11 00-1100	LF	132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,072.37	170.87
		For 1/2 Bituminous Coated And 25% Paved, Add	206.25	
33 42 11 00-1101	LF	138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,129.79	183.07
		For 1/2 Bituminous Coated And 25% Paved, Add	214.80	
33 42 11 00-1102		125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		(33 42 11 00-1009)		
33 42 11 00-1103		16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		(33 42 11 00-1102)		
33 42 11 00-1104	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	209.54	36.62
		For 1/2 Bituminous Coated And 25% Paved, Add	60.10	
33 42 11 00-1105	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	251.26	41.49
		For 1/2 Bituminous Coated And 25% Paved, Add	73.64	
33 42 11 00-1106	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	273.42	43.94
		For 1/2 Bituminous Coated And 25% Paved, Add	80.08	
33 42 11 00-1107	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	339.06	53.70
		For 1/2 Bituminous Coated And 25% Paved, Add	100.82	
33 42 11 00-1108	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	404.49	78.11
		For 1/2 Bituminous Coated And 25% Paved, Add	107.39	
33 42 11 00-1109	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	435.28	85.43
		For 1/2 Bituminous Coated And 25% Paved, Add	113.96	
33 42 11 00-1110	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	462.63	91.53
		For 1/2 Bituminous Coated And 25% Paved, Add	120.49	
33 42 11 00-1111	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	489.88	97.64
		For 1/2 Bituminous Coated And 25% Paved, Add	126.98	
33 42 11 00-1112	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	518.33	103.74
		For 1/2 Bituminous Coated And 25% Paved, Add	133.59	
33 42 11 00-1113	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	550.48	109.84
		For 1/2 Bituminous Coated And 25% Paved, Add	140.36	
33 42 11 00-1114		14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		(33 42 11 00-1102)		
33 42 11 00-1115	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	284.61	41.49
		For 1/2 Bituminous Coated And 25% Paved, Add	69.43	
33 42 11 00-1116	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	310.59	43.94
		For 1/2 Bituminous Coated And 25% Paved, Add	75.81	
33 42 11 00-1117	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	379.54	53.70
		For 1/2 Bituminous Coated And 25% Paved, Add	93.29	
33 42 11 00-1118	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	448.28	78.11
		For 1/2 Bituminous Coated And 25% Paved, Add	99.60	
33 42 11 00-1119	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	482.98	85.43
		For 1/2 Bituminous Coated And 25% Paved, Add	106.12	
33 42 11 00-1120	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	514.05	91.53
		For 1/2 Bituminous Coated And 25% Paved, Add	112.53	
33 42 11 00-1121	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	543.20	97.64
		For 1/2 Bituminous Coated And 25% Paved, Add	118.30	
33 42 11 00-1122	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	576.97	103.74
		For 1/2 Bituminous Coated And 25% Paved, Add	125.32	
33 42 11 00-1123	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	612.28	109.84
		For 1/2 Bituminous Coated And 25% Paved, Add	131.74	
33 42 11 00-1124	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	650.21	122.05
		For 1/2 Bituminous Coated And 25% Paved, Add	138.08	
33 42 11 00-1125	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	688.09	134.25
		For 1/2 Bituminous Coated And 25% Paved, Add	144.58	
33 42 11 00-1126		12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		(33 42 11 00-1102)		
33 42 11 00-1127	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	380.07	43.94
		For 1/2 Bituminous Coated And 25% Paved, Add	83.64	
33 42 11 00-1128	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	456.14	53.70
		For 1/2 Bituminous Coated And 25% Paved, Add	100.38	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1129	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	532.15 107.77	78.11
33 42 11 00-1130	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	573.28 115.09	85.43
33 42 11 00-1131	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	610.91 122.36	91.53
33 42 11 00-1132	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	648.89 129.74	97.64
33 42 11 00-1133	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	687.53 137.04	103.74
33 42 11 00-1134	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	729.51 144.34	109.84
33 42 11 00-1135	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	774.51 151.70	122.05
33 42 11 00-1136	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	818.87 159.02	134.25
33 42 11 00-1137	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	861.69 166.33	146.45
33 42 11 00-1138 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1102)				
33 42 11 00-1139	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	612.47 130.74	78.11
33 42 11 00-1140	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	661.06 140.19	85.43
33 42 11 00-1141	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	705.67 149.46	91.53
33 42 11 00-1142	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	749.97 158.64	97.64
33 42 11 00-1143	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	795.43 167.90	103.74
33 42 11 00-1144	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	844.08 177.11	109.84
33 42 11 00-1145	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	895.71 186.36	122.05
33 42 11 00-1146	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	946.78 195.60	134.25
33 42 11 00-1147	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	996.18 204.80	146.45
33 42 11 00-1148	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,058.32 216.95	158.65
33 42 11 00-1149	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,115.91 226.95	170.87
33 42 11 00-1150	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,178.55 237.34	183.07
33 42 11 00-1151 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1009)				
33 42 11 00-1152 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1151)				
33 42 11 00-1153	LF	18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	73.10	13.78
33 42 11 00-1154	LF	21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	83.90	14.93
33 42 11 00-1155	LF	24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	93.91	16.08
33 42 11 00-1156	LF	30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	122.43	20.68
33 42 11 00-1157	LF	36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	156.57	26.85
33 42 11 00-1158	LF	42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	179.46	31.73
33 42 11 00-1159	LF	48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	202.42	36.62
33 42 11 00-1160	LF	54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	240.62	41.49
33 42 11 00-1161	LF	60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	262.94	43.94
33 42 11 00-1162 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1151)				
33 42 11 00-1163	LF	18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	80.83	13.78
33 42 11 00-1164	LF	21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	92.93	14.93
33 42 11 00-1165	LF	24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	104.15	16.08
33 42 11 00-1166	LF	30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	135.22	20.68
33 42 11 00-1167	LF	36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	171.97	26.85
33 42 11 00-1168	LF	42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	197.47	31.73
33 42 11 00-1169	LF	48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	222.99	36.62
33 42 11 00-1170	LF	54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	263.75	41.49
33 42 11 00-1171	LF	60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	288.72	43.94
33 42 11 00-1172	LF	66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	351.30	53.70
33 42 11 00-1173	LF	72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	418.99	78.11
33 42 11 00-1174	LF	78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	452.28	85.43
33 42 11 00-1175 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1151)				
33 42 11 00-1176	LF	30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	161.16	20.68
33 42 11 00-1177	LF	36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	203.02	26.85
33 42 11 00-1178	LF	42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	233.84	31.73



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1179	LF	48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	264.47	36.62
33 42 11 00-1180	LF	54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	310.40	41.49
33 42 11 00-1181	LF	60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	340.64	43.94
33 42 11 00-1182	LF	66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	408.29	53.70
33 42 11 00-1183	LF	72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	481.09	78.11
33 42 11 00-1184	LF	78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	519.55	85.43
33 42 11 00-1185	LF	84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	554.53	91.53
33 42 11 00-1186	LF	90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	589.55	97.64
33 42 11 00-1187	LF	96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	625.32	103.74
33 42 11 00-1188	LF	102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	662.04	109.84
33 42 11 00-1189		Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0500)		
33 42 11 00-1190		2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1189)		
33 42 11 00-1191		16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1190)		
33 42 11 00-1192	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	58.46	12.64
		For 1/2 Bituminous Coated And 40% Paved, Add	16.03	
33 42 11 00-1193	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	65.73	13.78
		For 1/2 Bituminous Coated And 40% Paved, Add	19.14	
33 42 11 00-1194	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	75.72	14.93
		For 1/2 Bituminous Coated And 40% Paved, Add	23.02	
33 42 11 00-1195	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	85.33	16.08
		For 1/2 Bituminous Coated And 40% Paved, Add	26.53	
33 42 11 00-1196	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	110.79	20.68
		For 1/2 Bituminous Coated And 40% Paved, Add	33.71	
33 42 11 00-1197	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	145.14	26.85
		For 1/2 Bituminous Coated And 40% Paved, Add	43.48	
33 42 11 00-1198		14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1190)		
33 42 11 00-1199	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	65.03	12.64
		For 1/2 Bituminous Coated And 40% Paved, Add	16.61	
33 42 11 00-1200	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	73.70	13.78
		For 1/2 Bituminous Coated And 40% Paved, Add	19.89	
33 42 11 00-1201	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	84.70	14.93
		For 1/2 Bituminous Coated And 40% Paved, Add	23.66	
33 42 11 00-1202	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	95.72	16.08
		For 1/2 Bituminous Coated And 40% Paved, Add	27.29	
33 42 11 00-1203	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	123.73	20.68
		For 1/2 Bituminous Coated And 40% Paved, Add	34.56	
33 42 11 00-1204	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	160.54	26.85
		For 1/2 Bituminous Coated And 40% Paved, Add	44.03	
33 42 11 00-1205	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	185.53	31.73
		For 1/2 Bituminous Coated And 40% Paved, Add	52.45	
33 42 11 00-1206		12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1190)		
33 42 11 00-1207	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	89.95	13.78
		For 1/2 Bituminous Coated And 40% Paved, Add	18.22	
33 42 11 00-1208	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	103.96	14.93
		For 1/2 Bituminous Coated And 40% Paved, Add	21.66	
33 42 11 00-1209	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	117.54	16.08
		For 1/2 Bituminous Coated And 40% Paved, Add	24.86	
33 42 11 00-1210	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	150.97	20.68
		For 1/2 Bituminous Coated And 40% Paved, Add	31.37	
33 42 11 00-1211	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	193.44	26.85
		For 1/2 Bituminous Coated And 40% Paved, Add	39.45	
33 42 11 00-1212	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	223.91	31.73
		For 1/2 Bituminous Coated And 40% Paved, Add	46.75	
33 42 11 00-1213	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	262.72	36.62
		For 1/2 Bituminous Coated And 40% Paved, Add	55.67	
33 42 11 00-1214	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	292.74	41.49
		For 1/2 Bituminous Coated And 40% Paved, Add	61.37	
33 42 11 00-1215		10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1190)		
33 42 11 00-1216	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	222.99	26.85
		For 1/2 Bituminous Coated And 40% Paved, Add	41.51	
33 42 11 00-1217	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	258.37	31.73
		For 1/2 Bituminous Coated And 40% Paved, Add	49.06	
33 42 11 00-1218	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	301.79	36.62
		For 1/2 Bituminous Coated And 40% Paved, Add	57.93	
33 42 11 00-1219	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	336.93	41.49
		For 1/2 Bituminous Coated And 40% Paved, Add	64.13	
33 42 11 00-1220	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	368.93	43.94
		For 1/2 Bituminous Coated And 40% Paved, Add	70.33	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1221	3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1189)		
33 42 11 00-1222	14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1221)		
33 42 11 00-1223	LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	281.65 92.17	41.49
33 42 11 00-1224	LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	307.84 100.86	43.94
33 42 11 00-1225	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	381.75 126.68	53.70
33 42 11 00-1226	LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	451.84 135.80	78.11
33 42 11 00-1227	LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	488.35 145.41	85.43
33 42 11 00-1228	LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	521.57 155.03	91.53
33 42 11 00-1229	LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	554.69 164.61	97.64
33 42 11 00-1230	LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	588.76 174.22	103.74
33 42 11 00-1231	12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1221)		
33 42 11 00-1232	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	373.45 114.62	43.94
33 42 11 00-1233	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	454.49 140.09	53.70
33 42 11 00-1234	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	531.05 150.66	78.11
33 42 11 00-1235	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	573.88 161.61	85.43
33 42 11 00-1236	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	613.57 172.63	91.53
33 42 11 00-1237	LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	653.16 183.61	97.64
33 42 11 00-1238	LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	693.55 194.56	103.74
33 42 11 00-1239	LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	737.54 205.60	109.84
33 42 11 00-1240	LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	784.19 216.58	122.05
33 42 11 00-1241	LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	833.11 228.67	134.25
33 42 11 00-1242	10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1221)		
33 42 11 00-1243	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	604.59 163.08	78.11
33 42 11 00-1244	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	653.54 175.21	85.43
33 42 11 00-1245	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	699.25 187.37	91.53
33 42 11 00-1246	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	744.76 199.46	97.64
33 42 11 00-1247	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	795.28 213.05	103.74
33 42 11 00-1248	LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	841.22 223.75	109.84
33 42 11 00-1249	LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	893.95 235.90	122.05
33 42 11 00-1250	LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	948.34 248.83	134.25
33 42 11 00-1251	LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	1,008.42 264.38	146.45
33 42 11 00-1252	125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1189)		
33 42 11 00-1253	12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1252)		
33 42 11 00-1254	LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	538.47 148.28	78.11
33 42 11 00-1255	LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	580.65 158.58	85.43
33 42 11 00-1256	LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	619.24 168.80	91.53



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		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1257	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	657.77 178.99	97.64
33 42 11 00-1258	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	697.36 189.24	103.74
33 42 11 00-1259	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	740.80 199.68	109.84
33 42 11 00-1260	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	786.90 210.07	122.05
33 42 11 00-1261	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	839.28 223.07	134.25
33 42 11 00-1262 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1252)				
33 42 11 00-1263	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	619.94 164.47	78.11
33 42 11 00-1264	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	668.64 176.21	85.43
33 42 11 00-1265	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	713.79 187.87	91.53
33 42 11 00-1266	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	759.15 199.61	97.64
33 42 11 00-1267	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	804.31 210.96	103.74
33 42 11 00-1268	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	855.22 223.16	109.84
33 42 11 00-1269	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	908.10 235.06	122.05
33 42 11 00-1270	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	967.15 249.32	134.25
33 42 11 00-1271	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	1,022.46 262.80	146.45
33 42 11 00-1272 Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-0500)				
33 42 11 00-1273 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1272)				
33 42 11 00-1274 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1273)				
33 42 11 00-1275	LF	6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	29.65 3.05	6.90
33 42 11 00-1276	LF	8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	38.27 4.14	8.62
33 42 11 00-1277	LF	10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	49.61 5.45	10.34
33 42 11 00-1278 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1273)				
33 42 11 00-1279	LF	6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	33.15 3.02	6.90
33 42 11 00-1280	LF	8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	43.21 4.13	8.62
33 42 11 00-1281	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	56.20 5.46	10.34
33 42 11 00-1282 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1272)				
33 42 11 00-1283 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1282)				
33 42 11 00-1284	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	57.49 6.00	12.07
33 42 11 00-1285	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	66.63 7.53	12.64
33 42 11 00-1286	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	76.34 9.15	13.78
33 42 11 00-1287	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	88.03 10.92	14.93
33 42 11 00-1288	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	98.42 12.38	16.08
33 42 11 00-1289 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1282)				
33 42 11 00-1290	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	64.98 5.87	12.07
33 42 11 00-1291	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	76.18 7.38	12.64

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1292	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	87.78 8.95	13.78
33 42 11 00-1293	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	101.30 10.63	14.93
33 42 11 00-1294	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	113.65 12.07	16.08
33 42 11 00-1295	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	147.70 15.48	20.68
33 42 11 00-1296	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	187.85 19.24	26.85
33 42 11 00-1297 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1282)				
33 42 11 00-1298	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	142.77 11.46	16.08
33 42 11 00-1299	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	183.95 14.58	20.68
33 42 11 00-1300	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	231.40 17.97	26.85
33 42 11 00-1301	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	267.30 21.13	31.73
33 42 11 00-1302	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	302.32 23.92	36.62
33 42 11 00-1303	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	355.91 28.38	41.49
33 42 11 00-1304 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1282)				
33 42 11 00-1305	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	277.81 17.67	26.85
33 42 11 00-1306	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	321.36 20.74	31.73
33 42 11 00-1307	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	364.29 23.54	36.62
33 42 11 00-1308	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	425.61 27.62	41.49
33 42 11 00-1309	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	468.03 30.43	43.94
33 42 11 00-1310 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1272)				
33 42 11 00-1311 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1310)				
33 42 11 00-1312	LF	30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	145.33	20.68
33 42 11 00-1313	LF	36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	184.90	26.85
33 42 11 00-1314	LF	42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	212.08	31.73
33 42 11 00-1315	LF	48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	240.20	36.62
33 42 11 00-1316	LF	54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	283.94	41.49
33 42 11 00-1317 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1310)				
33 42 11 00-1318	LF	30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	164.43	20.68
33 42 11 00-1319	LF	36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	212.14	26.85
33 42 11 00-1320	LF	42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	243.71	31.73
33 42 11 00-1321	LF	48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	274.72	36.62
33 42 11 00-1322	LF	54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	324.37	41.49
33 42 11 00-1323	LF	60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	354.71	43.94
33 42 11 00-1324	LF	66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	431.65	53.70
33 42 11 00-1325	LF	72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	505.19	78.11
33 42 11 00-1326	LF	78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	544.17	85.43
33 42 11 00-1327 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1310)				
33 42 11 00-1328	LF	30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	209.01	20.68
33 42 11 00-1329	LF	36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	262.28	26.85
33 42 11 00-1330	LF	42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	303.62	31.73
33 42 11 00-1331	LF	48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	343.43	36.62
33 42 11 00-1332	LF	54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	401.51	41.49
33 42 11 00-1333	LF	60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	440.13	43.94
33 42 11 00-1334	LF	66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	525.33	53.70
33 42 11 00-1335	LF	72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	607.36	78.11
33 42 11 00-1336	LF	78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	654.68	85.43
33 42 11 00-1337	LF	84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	698.80	91.53
33 42 11 00-1338	LF	90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	742.79	97.64
33 42 11 00-1339	LF	96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	787.67	103.74



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 11 00-1340	10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1310)				
33 42 11 00-1341	LF 60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	529.97		43.94	
33 42 11 00-1342	LF 66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	620.36		53.70	
33 42 11 00-1343	LF 72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	710.93		78.11	
33 42 11 00-1344	LF 78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	766.78		85.43	
33 42 11 00-1345	LF 84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	819.30		91.53	
33 42 11 00-1346	LF 90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	871.79		97.64	
33 42 11 00-1347	LF 96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	925.14		103.74	
33 42 11 00-1348	LF 102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	982.04		109.84	
33 42 11 00-1349	LF 108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	1,041.63		122.05	
33 42 11 00-1350	Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1272)				
	Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.				
33 42 11 00-1351	16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1350)				
33 42 11 00-1352	LF 18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	102.04		13.78	
33 42 11 00-1353	LF 21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	109.73		14.93	
33 42 11 00-1354	LF 24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	132.59		16.08	
33 42 11 00-1355	LF 27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	153.11		18.38	
33 42 11 00-1356	LF 30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	171.49		20.68	
33 42 11 00-1357	LF 33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	191.65		22.98	
33 42 11 00-1358	14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1350)				
33 42 11 00-1359	LF 18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	118.20		13.78	
33 42 11 00-1360	LF 21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	136.82		14.93	
33 42 11 00-1361	LF 24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	154.31		16.08	
33 42 11 00-1362	LF 27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	177.49		18.38	
33 42 11 00-1363	LF 30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	198.53		20.68	
33 42 11 00-1364	LF 33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	221.45		22.98	
33 42 11 00-1365	LF 36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	249.22		26.85	
33 42 11 00-1366	LF 42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	288.06		31.73	
33 42 11 00-1367	LF 48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	325.97		36.62	
33 42 11 00-1368	12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1350)				
33 42 11 00-1369	LF 30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	251.40		20.68	
33 42 11 00-1370	LF 33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	279.48		22.98	
33 42 11 00-1371	LF 36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	312.63		26.85	
33 42 11 00-1372	LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	362.10		31.73	
33 42 11 00-1373	LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	410.60		36.62	
33 42 11 00-1374	LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	569.59		41.49	
33 42 11 00-1375	LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	626.97		43.94	
33 42 11 00-1376	10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1350)				
33 42 11 00-1377	LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	583.01		36.62	
33 42 11 00-1378	LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	675.88		41.49	
33 42 11 00-1379	LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	745.21		43.94	
33 42 11 00-1380	LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	865.47		53.70	
33 42 11 00-1381	LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	976.40		78.11	
33 42 11 00-1382	LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,053.59		85.43	
33 42 11 00-1383	LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,126.79		91.53	
33 42 11 00-1384	Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-0500)				
33 42 11 00-1385	2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1384)				
33 42 11 00-1386	16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1385)				
33 42 11 00-1387	LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	70.04		12.64	
	For Bituminous Coated Pipe, Add	7.54			
33 42 11 00-1388	LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	79.56		13.78	
	For Bituminous Coated Pipe, Add	9.00			
33 42 11 00-1389	LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	91.71		14.93	
	For Bituminous Coated Pipe, Add	10.72			
33 42 11 00-1390	14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1385)				

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1391	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	79.61 7.51	12.64
33 42 11 00-1392	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	88.75 8.66	13.78
33 42 11 00-1393	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	104.98 10.63	14.93
33 42 11 00-1394	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	118.64 12.20	16.08
33 42 11 00-1395	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	152.67 15.44	20.68
33 42 11 00-1396 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch				
33 42 11 00-1397	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	147.79 11.63	16.08
33 42 11 00-1398	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	189.01 14.66	20.68
33 42 11 00-1399	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	239.95 18.30	26.85
33 42 11 00-1400	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	278.56 21.64	31.73
33 42 11 00-1401 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch				
33 42 11 00-1402	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	286.30 17.66	26.85
33 42 11 00-1403	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	332.72 20.84	31.73
33 42 11 00-1404	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	387.09 24.41	36.62
33 42 11 00-1405	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	433.11 27.16	41.49
33 42 11 00-1406 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch				
33 42 11 00-1407 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch				
33 42 11 00-1408	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	331.87	41.49
33 42 11 00-1409	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	363.42	43.94
33 42 11 00-1410	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	442.42	53.70
33 42 11 00-1411 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch				
33 42 11 00-1412	LF	60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	409.00	41.49
33 42 11 00-1413	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	448.84	43.94
33 42 11 00-1414	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	535.71	53.70
33 42 11 00-1415	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	618.54	78.11
33 42 11 00-1416	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	666.65	85.43
33 42 11 00-1417	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	711.56	91.53
33 42 11 00-1418 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch				
33 42 11 00-1419	LF	66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	538.55	43.94
33 42 11 00-1420	LF	73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	630.36	53.70
33 42 11 00-1421	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	721.70	78.11
33 42 11 00-1422	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	778.34	85.43
33 42 11 00-1423	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	831.65	91.53
33 42 11 00-1424	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	884.91	97.64
33 42 11 00-1425 Corrugated Steel Pipe Fittings				
Note: Equivalent pipe-arch sizes are approximate.				
33 42 11 00-1426 Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings				
Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.				
33 42 11 00-1427	EA	Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	94.86	
33 42 11 00-1428	EA	Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	118.96	
33 42 11 00-1429	EA	Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	143.06	
33 42 11 00-1430	EA	Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	168.68	
33 42 11 00-1431	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	204.81	
33 42 11 00-1432	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	240.92	
33 42 11 00-1433	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	277.08	
33 42 11 00-1434	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	313.20	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1435	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	408.08	
33 42 11 00-1436	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	486.37	
33 42 11 00-1437	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	564.68	
33 42 11 00-1438	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	730.33	
33 42 11 00-1439	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	823.70	
33 42 11 00-1440	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	920.07	
33 42 11 00-1441	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	1,019.46	
33 42 11 00-1442	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,242.32	
33 42 11 00-1443	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,355.24	
33 42 11 00-1444	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,471.19	
33 42 11 00-1445	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,805.49	
33 42 11 00-1446	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,938.01	
33 42 11 00-1447	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	2,072.03	
33 42 11 00-1448	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,206.04	
33 42 11 00-1449	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,338.54	
33 42 11 00-1450	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,472.58	
33 42 11 00-1451	EA	Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,613.87	
33 42 11 00-1452	EA	Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,763.25	
33 42 11 00-1453	EA	Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,921.14	

33 42 11 00-1454 Fabricate Corrugated Steel Pipe Tees Or Laterals (33 42 11 00-1425)

Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.

33 42 11 00-1455	EA	Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	123.48	
33 42 11 00-1456	EA	Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	158.11	
33 42 11 00-1457	EA	Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	192.73	
33 42 11 00-1458	EA	Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	227.38	
33 42 11 00-1459	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	277.08	
33 42 11 00-1460	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	328.26	
33 42 11 00-1461	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	379.48	
33 42 11 00-1462	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	430.65	
33 42 11 00-1463	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	564.68	
33 42 11 00-1464	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	673.11	
33 42 11 00-1465	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	783.02	
33 42 11 00-1466	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	1,016.43	
33 42 11 00-1467	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,144.42	
33 42 11 00-1468	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,276.92	
33 42 11 00-1469	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,412.46	
33 42 11 00-1470	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,722.65	
33 42 11 00-1471	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,876.27	
33 42 11 00-1472	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,032.87	
33 42 11 00-1473	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,501.15	
33 42 11 00-1474	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,680.36	
33 42 11 00-1475	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,859.56	
33 42 11 00-1476	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	3,040.24	
33 42 11 00-1477	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	3,220.96	
33 42 11 00-1478	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	3,400.12	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1479	EA	Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe)	.....	3,589.28	
33 42 11 00-1480	EA	Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe)	.....	3,788.96	
33 42 11 00-1481	EA	Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe)	.....	3,999.72	
33 42 11 00-1482 Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1425)					
Note: Applied to pipe tasks.					
33 42 11 00-1483	EA	Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		47.95	
33 42 11 00-1484	EA	Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		60.32	
33 42 11 00-1485	EA	Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		75.88	
33 42 11 00-1486	EA	Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		92.91	
33 42 11 00-1487	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		117.57	
33 42 11 00-1488	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		143.96	
33 42 11 00-1489	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		168.63	
33 42 11 00-1490	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		195.92	
33 42 11 00-1491	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		240.63	
33 42 11 00-1492	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		286.91	
33 42 11 00-1493	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		342.34	
33 42 11 00-1494	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		421.11	
33 42 11 00-1495	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		476.65	
33 42 11 00-1496	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		536.79	
33 42 11 00-1497	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		650.95	
33 42 11 00-1498	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		721.89	
33 42 11 00-1499	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		880.78	
33 42 11 00-1500	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting		959.47	
33 42 11 00-1501	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,042.80	
33 42 11 00-1502	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,124.49	
33 42 11 00-1503	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,207.79	
33 42 11 00-1504	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,292.62	
33 42 11 00-1505	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,375.95	
33 42 11 00-1506	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,459.22	
33 42 11 00-1507	EA	Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,547.54	
33 42 11 00-1508	EA	Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,641.19	
33 42 11 00-1509	EA	Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,740.52	
33 42 11 00-1510 Saddles, Corrugated Steel Pipe Fitting (33 42 11 00-1425)					
Note: For Field Tap					
33 42 11 00-1511	EA	6" Saddle, Corrugated Steel Pipe Fitting		289.56	
33 42 11 00-1512	EA	8" Saddle, Corrugated Steel Pipe Fitting		326.85	
33 42 11 00-1513	EA	10" Saddle, Corrugated Steel Pipe Fitting		376.13	
33 42 11 00-1514	EA	12" Saddle, Corrugated Steel Pipe Fitting		460.25	
33 42 11 00-1515	EA	15" Saddle, Corrugated Steel Pipe Fitting		567.58	
33 42 11 00-1516	EA	18" Saddle, Corrugated Steel Pipe Fitting		677.18	
33 42 11 00-1517	EA	21" Saddle, Corrugated Steel Pipe Fitting		853.48	
33 42 11 00-1518	EA	24" Saddle, Corrugated Steel Pipe Fitting		1,014.27	
33 42 11 00-1519	EA	30" Saddle, Corrugated Steel Pipe Fitting		1,275.17	
33 42 11 00-1520	EA	36" Saddle, Corrugated Steel Pipe Fitting		1,644.13	
33 42 11 00-1521	EA	42" Saddle, Corrugated Steel Pipe Fitting		1,941.17	
33 42 11 00-1522	EA	48" Saddle, Corrugated Steel Pipe Fitting		2,283.13	
33 42 11 00-1523	EA	54" Saddle, Corrugated Steel Pipe Fitting		2,716.62	
33 42 11 00-1524	EA	60" Saddle, Corrugated Steel Pipe Fitting		3,219.56	
33 42 11 00-1525	EA	66" Saddle, Corrugated Steel Pipe Fitting		3,667.81	
33 42 11 00-1526	EA	72" Saddle, Corrugated Steel Pipe Fitting		4,091.07	
33 42 11 00-1527	EA	78" Saddle, Corrugated Steel Pipe Fitting		4,802.45	
33 42 11 00-1528	EA	84" Saddle, Corrugated Steel Pipe Fitting		5,304.54	
33 42 11 00-1529	EA	90" Saddle, Corrugated Steel Pipe Fitting		6,278.48	
33 42 11 00-1530	EA	96" Saddle, Corrugated Steel Pipe Fitting		6,939.82	
33 42 11 00-1531	EA	102" Saddle, Corrugated Steel Pipe Fitting		7,873.58	
33 42 11 00-1532	EA	108" Saddle, Corrugated Steel Pipe Fitting		8,934.79	
33 42 11 00-1533	EA	114" Saddle, Corrugated Steel Pipe Fitting		10,137.65	
33 42 11 00-1534	EA	120" Saddle, Corrugated Steel Pipe Fitting		11,500.68	
33 42 11 00-1535 Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1425)					
33 42 11 00-1536	EA	6" Coupling Band, Corrugated Metal Pipe Fitting.....		17.46	
		For Bituminous Coated, Add		5.06	
33 42 11 00-1537	EA	8" Coupling Band, Corrugated Metal Pipe Fitting.....		23.18	
		For Bituminous Coated, Add		6.72	
33 42 11 00-1538	EA	10" Coupling Band, Corrugated Metal Pipe Fitting.....		29.19	
		For Bituminous Coated, Add		8.47	
33 42 11 00-1539	EA	12" Coupling Band, Corrugated Metal Pipe Fitting.....		48.46	
		For Bituminous Coated, Add		14.05	
33 42 11 00-1540	EA	15" Coupling Band, Corrugated Metal Pipe Fitting.....		61.10	
		For Bituminous Coated, Add		17.72	
33 42 11 00-1541	EA	18" Coupling Band, Corrugated Metal Pipe Fitting.....		89.64	
		For Bituminous Coated, Add		26.00	
33 42 11 00-1542	EA	21" Coupling Band, Corrugated Metal Pipe Fitting.....		106.40	
		For Bituminous Coated, Add		30.86	
33 42 11 00-1543	EA	24" Coupling Band, Corrugated Metal Pipe Fitting.....		120.64	
		For Bituminous Coated, Add		34.99	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1544	EA	30" Coupling Band, Corrugated Metal Pipe Fitting	208.78	
		<i>For Bituminous Coated, Add</i>	60.55	
33 42 11 00-1545	EA	36" Coupling Band, Corrugated Metal Pipe Fitting	334.04	
		<i>For Bituminous Coated, Add</i>	80.17	
33 42 11 00-1546	EA	42" Coupling Band, Corrugated Metal Pipe Fitting	392.48	
		<i>For Bituminous Coated, Add</i>	94.20	
33 42 11 00-1547	EA	48" Coupling Band, Corrugated Metal Pipe Fitting	439.78	
		<i>For Bituminous Coated, Add</i>	105.55	
33 42 11 00-1548	EA	54" Coupling Band, Corrugated Metal Pipe Fitting	623.68	
		<i>For Bituminous Coated, Add</i>	149.68	
33 42 11 00-1549	EA	60" Coupling Band, Corrugated Metal Pipe Fitting	892.05	
		<i>For Bituminous Coated, Add</i>	160.57	
33 42 11 00-1550	EA	66" Coupling Band, Corrugated Metal Pipe Fitting	1,096.31	
		<i>For Bituminous Coated, Add</i>	197.34	
33 42 11 00-1551	EA	72" Coupling Band, Corrugated Metal Pipe Fitting	1,408.28	
		<i>For Bituminous Coated, Add</i>	197.16	
33 42 11 00-1552	EA	78" Coupling Band, Corrugated Metal Pipe Fitting	1,506.24	
		<i>For Bituminous Coated, Add</i>	210.87	
33 42 11 00-1553	EA	84" Coupling Band, Corrugated Metal Pipe Fitting	1,604.76	
		<i>For Bituminous Coated, Add</i>	224.67	
33 42 11 00-1554	EA	90" Coupling Band, Corrugated Metal Pipe Fitting	1,702.78	
		<i>For Bituminous Coated, Add</i>	238.39	
33 42 11 00-1555	EA	96" Coupling Band, Corrugated Metal Pipe Fitting	1,801.05	
		<i>For Bituminous Coated, Add</i>	252.15	
33 42 11 00-1556	EA	102" Coupling Band, Corrugated Metal Pipe Fitting	1,899.57	
		<i>For Bituminous Coated, Add</i>	265.94	
33 42 11 00-1557	EA	108" Coupling Band, Corrugated Metal Pipe Fitting	1,997.64	
		<i>For Bituminous Coated, Add</i>	279.67	
33 42 11 00-1558	EA	114" Coupling Band, Corrugated Metal Pipe Fitting	2,365.99	
		<i>For Bituminous Coated, Add</i>	283.92	
33 42 11 00-1559	EA	120" Coupling Band, Corrugated Metal Pipe Fitting	2,193.63	
		<i>For Bituminous Coated, Add</i>	263.24	
33 42 11 00-1560	EA	126" Coupling Band, Corrugated Metal Pipe Fitting	2,291.40	
		<i>For Bituminous Coated, Add</i>	274.97	
33 42 11 00-1561	EA	132" Coupling Band, Corrugated Metal Pipe Fitting	2,389.87	
		<i>For Bituminous Coated, Add</i>	286.78	
33 42 11 00-1562	EA	138" Coupling Band, Corrugated Metal Pipe Fitting	2,488.44	
		<i>For Bituminous Coated, Add</i>	298.61	
33 42 11 00-1563 Wyes Or Tees, Galvanized Corrugated Metal Pipe Fitting (33 42 11 00-1425)				
33 42 11 00-1564	EA	12" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	667.84	183.82
33 42 11 00-1565	EA	15" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	771.04	229.77
33 42 11 00-1566	EA	18" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	900.34	298.70
33 42 11 00-1567	EA	24" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	1,286.42	413.58
33 42 11 00-1568	EA	30" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	1,694.04	482.52
33 42 11 00-1569	EA	36" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	2,322.55	561.41
33 42 11 00-1570	EA	42" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	2,751.73	659.04
33 42 11 00-1571	EA	48" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	3,206.31	659.04
33 42 11 00-1572	EA	54" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	3,846.00	903.13
33 42 11 00-1573	EA	60" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	4,323.05	903.13
33 42 11 00-1574	EA	66" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	5,121.95	1,147.22
33 42 11 00-1575	EA	72" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	5,400.23	1,220.44
33 42 11 00-1576	EA	78" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	6,879.66	1,519.45
33 42 11 00-1577	EA	84" Wye Or Tee, Galvanized Corrugated Metal Pipe Fitting	7,968.59	1,635.40
33 42 11 00-1578 90 Degree Bends, Galvanized Corrugated Metal Pipe Fitting (33 42 11 00-1425)				
33 42 11 00-1579	EA	12" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	460.14	137.86
33 42 11 00-1580	EA	15" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	560.50	172.32
33 42 11 00-1581	EA	18" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	659.37	229.77
33 42 11 00-1582	EA	24" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	941.60	321.68
33 42 11 00-1583	EA	30" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	1,159.21	367.63
33 42 11 00-1584	EA	36" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	1,599.81	414.95
33 42 11 00-1585	EA	42" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	1,892.39	488.18
33 42 11 00-1586	EA	48" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	2,166.21	488.18
33 42 11 00-1587	EA	54" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	2,636.12	683.45
33 42 11 00-1588	EA	60" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	2,983.95	683.45
33 42 11 00-1589	EA	66" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	3,613.02	854.31
33 42 11 00-1590	EA	72" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	3,851.55	909.23
33 42 11 00-1591	EA	78" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	4,733.75	1,139.04
33 42 11 00-1592	EA	84" 90 Degree Bend, Galvanized Corrugated Metal Pipe Fitting	5,261.73	1,220.44
33 42 11 00-1593 Galvanized Culvert-End Bar Grate System (33 42 11 00-0500)				
33 42 11 00-1594	SF	Galvanized Culvert-End Bar Grate System	671.49	3.07
33 42 11 00-1595	SF	Heavy-Duty Galvanized Culvert-End Bar Grate System	39.12	3.07
33 42 11 00-1596 Galvanized Tapered Adapter Sleeves (33 42 11 00-0500)				
33 42 11 00-1597	EA	12" Galvanized Tapered Adapter Sleeves	515.47	80.42
33 42 11 00-1598	EA	15" Galvanized Tapered Adapter Sleeves	636.06	86.17

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1599	EA	18" Galvanized Tapered Adapter Sleeves	715.76	91.90	
33 42 11 00-1600	EA	21" Galvanized Tapered Adapter Sleeves	808.62	100.52	
33 42 11 00-1601	EA	24" Galvanized Tapered Adapter Sleeves	900.25	109.14	
33 42 11 00-1602	EA	30" Galvanized Tapered Adapter Sleeves	1,092.66	123.50	
33 42 11 00-1603	EA	36" Galvanized Tapered Adapter Sleeves	1,318.06	140.74	
33 42 11 00-1604 Concrete Pipe Collar (33 42 11)					
33 42 11 00-1605	EA	8" Diameter Pipe, Concrete Pipe Collar	673.82		
33 42 11 00-1606	EA	10" Diameter Pipe, Concrete Pipe Collar	754.63		
33 42 11 00-1607	EA	12" Diameter Pipe, Concrete Pipe Collar	841.31		
33 42 11 00-1608	EA	15" Diameter Pipe, Concrete Pipe Collar	944.24		
33 42 11 00-1609	EA	18" Diameter Pipe, Concrete Pipe Collar	1,054.35		
33 42 11 00-1610	EA	21" Diameter Pipe, Concrete Pipe Collar	1,172.03		
33 42 11 00-1611	EA	24" Diameter Pipe, Concrete Pipe Collar	1,296.80		
33 42 11 00-1612	EA	27" Diameter Pipe, Concrete Pipe Collar	1,425.72		
33 42 11 00-1613	EA	30" Diameter Pipe, Concrete Pipe Collar	1,554.66		
33 42 11 00-1614	EA	36" Diameter Pipe, Concrete Pipe Collar	1,812.68		
33 42 11 00-1615	EA	42" Diameter Pipe, Concrete Pipe Collar	2,071.62		
33 42 11 00-1616	EA	48" Diameter Pipe, Concrete Pipe Collar	2,331.70		
33 42 11 00-1617	EA	54" Diameter Pipe, Concrete Pipe Collar	2,589.72		
33 42 11 00-1618	EA	60" Diameter Pipe, Concrete Pipe Collar	2,848.66		
33 42 11 00-1619	EA	66" Diameter Pipe, Concrete Pipe Collar	3,137.25		
33 42 11 00-1620	EA	72" Diameter Pipe, Concrete Pipe Collar	3,425.83		
33 42 11 00-1621	EA	78" Diameter Pipe, Concrete Pipe Collar	3,714.43		
33 42 11 00-1622	EA	84" Diameter Pipe, Concrete Pipe Collar	4,003.02		
33 42 11 00-1623	EA	90" Diameter Pipe, Concrete Pipe Collar	4,291.61		
33 42 11 00-1624	EA	96" Diameter Pipe, Concrete Pipe Collar	4,580.19		
33 42 11 00-1625	EA	102" Diameter Pipe, Concrete Pipe Collar	4,868.78		
33 42 11 00-1626	EA	108" Diameter Pipe, Concrete Pipe Collar	5,157.37		
33 42 11 00-1627	EA	114" Diameter Pipe, Concrete Pipe Collar	5,445.96		
33 42 11 00-1628	EA	120" Diameter Pipe, Concrete Pipe Collar	5,734.56		
33 42 11 00-1629 Concrete Drainage Pipe Lug (33 42 11)					
33 42 11 00-1630	EA	12" Diameter Pipe, Concrete Pipe Lug	401.93		
33 42 11 00-1631	EA	15" Diameter Pipe, Concrete Pipe Lug	468.78		
33 42 11 00-1632	EA	18" Diameter Pipe, Concrete Pipe Lug	535.34		
33 42 11 00-1633	EA	21" Diameter Pipe, Concrete Pipe Lug	602.18		
33 42 11 00-1634	EA	24" Diameter Pipe, Concrete Pipe Lug	668.74		
33 42 11 00-1635	EA	27" Diameter Pipe, Concrete Pipe Lug	735.52		
33 42 11 00-1636	EA	30" Diameter Pipe, Concrete Pipe Lug	802.30		
33 42 11 00-1637	EA	36" Diameter Pipe, Concrete Pipe Lug	935.70		
33 42 11 00-1638	EA	42" Diameter Pipe, Concrete Pipe Lug	1,068.03		
33 42 11 00-1639	EA	48" Diameter Pipe, Concrete Pipe Lug	1,201.44		
33 42 11 00-1640	EA	54" Diameter Pipe, Concrete Pipe Lug	1,334.84		
33 42 11 00-1641	EA	60" Diameter Pipe, Concrete Pipe Lug	1,468.25		
33 42 11 00-1642	EA	66" Diameter Pipe, Concrete Pipe Lug	1,601.65		
33 42 13 Stormwater Culverts (33 42)					
33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)					
33 42 13 13-0001 Precast Reinforced Concrete Box Culvert (33 42 13 13)					
Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-1037 for crane lifting equipment.					
33 42 13 13-0002	LF	3' x 3' Precast Reinforced Concrete Box Culvert	465.42	61.02	
		For Each LF Of Cut-Off Section, Add	18.62		
33 42 13 13-0003	LF	4' x 2' Precast Reinforced Concrete Box Culvert	522.78	61.02	
		For Each LF Of Cut-Off Section, Add	20.91		
33 42 13 13-0004	LF	4' x 3' Precast Reinforced Concrete Box Culvert	615.43	61.02	
		For Each LF Of Cut-Off Section, Add	24.62		
33 42 13 13-0005	LF	5' x 3' Precast Reinforced Concrete Box Culvert	739.50	76.28	
		For Each LF Of Cut-Off Section, Add	29.58		
33 42 13 13-0006	LF	5' x 4' Precast Reinforced Concrete Box Culvert	757.15	76.28	
		For Each LF Of Cut-Off Section, Add	30.29		
33 42 13 13-0007	LF	5' x 5' Precast Reinforced Concrete Box Culvert	765.98	76.28	
		For Each LF Of Cut-Off Section, Add	30.64		
33 42 13 13-0008	LF	6' x 3' Precast Reinforced Concrete Box Culvert	789.91	79.33	
		For Each LF Of Cut-Off Section, Add	31.60		
33 42 13 13-0009	LF	6' x 4' Precast Reinforced Concrete Box Culvert	794.33	79.33	
		For Each LF Of Cut-Off Section, Add	31.77		
33 42 13 13-0010	LF	6' x 6' Precast Reinforced Concrete Box Culvert	873.74	79.33	
		For Each LF Of Cut-Off Section, Add	34.95		
33 42 13 13-0011	LF	7' x 4' Precast Reinforced Concrete Box Culvert	898.89	91.53	
		For Each LF Of Cut-Off Section, Add	35.96		
33 42 13 13-0012	LF	7' x 6' Precast Reinforced Concrete Box Culvert	966.76	124.49	
		For Each LF Of Cut-Off Section, Add	38.67		
33 42 13 13-0013	LF	8' x 2' Precast Reinforced Concrete Box Culvert	878.15	79.33	
		For Each LF Of Cut-Off Section, Add	35.13		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0014	LF	8' x 3' Precast Reinforced Concrete Box Culvert	903.30	91.53
		For Each LF Of Cut-Off Section, Add	36.13	
33 42 13 13-0015	LF	8' x 4' Precast Reinforced Concrete Box Culvert	916.54	91.53
		For Each LF Of Cut-Off Section, Add	36.66	
33 42 13 13-0016	LF	8' x 5' Precast Reinforced Concrete Box Culvert	1,108.21	122.05
		For Each LF Of Cut-Off Section, Add	44.33	
33 42 13 13-0017	LF	8' x 6' Precast Reinforced Concrete Box Culvert	1,111.74	122.05
		For Each LF Of Cut-Off Section, Add	44.47	
33 42 13 13-0018	LF	8' x 8' Precast Reinforced Concrete Box Culvert	1,233.72	152.55
		For Each LF Of Cut-Off Section, Add	49.35	
33 42 13 13-0019	LF	9' x 4' Precast Reinforced Concrete Box Culvert	1,222.04	122.05
		For Each LF Of Cut-Off Section, Add	48.88	
33 42 13 13-0020	LF	9' x 6' Precast Reinforced Concrete Box Culvert	1,298.14	152.55
		For Each LF Of Cut-Off Section, Add	51.93	
33 42 13 13-0021	LF	10' x 3' Precast Reinforced Concrete Box Culvert	1,302.55	152.55
		For Each LF Of Cut-Off Section, Add	52.10	
33 42 13 13-0022	LF	10' x 4' Precast Reinforced Concrete Box Culvert	1,576.09	152.55
		For Each LF Of Cut-Off Section, Add	63.04	
33 42 13 13-0023	LF	10' x 5' Precast Reinforced Concrete Box Culvert	1,656.59	183.07
		For Each LF Of Cut-Off Section, Add	66.26	
33 42 13 13-0024	LF	10' x 6' Precast Reinforced Concrete Box Culvert	1,674.24	183.07
		For Each LF Of Cut-Off Section, Add	66.97	
33 42 13 13-0025	LF	10' x 7' Precast Reinforced Concrete Box Culvert	1,678.65	183.07
		For Each LF Of Cut-Off Section, Add	67.15	
33 42 13 13-0026	LF	10' x 8' Precast Reinforced Concrete Box Culvert	1,684.83	183.07
		For Each LF Of Cut-Off Section, Add	67.39	
33 42 13 13-0027	LF	12' x 3' Precast Reinforced Concrete Box Culvert	1,754.74	213.57
		For Each LF Of Cut-Off Section, Add	70.19	
33 42 13 13-0028	LF	12' x 4' Precast Reinforced Concrete Box Culvert	1,754.74	213.57
		For Each LF Of Cut-Off Section, Add	70.19	
33 42 13 13-0029	LF	12' x 6' Precast Reinforced Concrete Box Culvert	1,754.74	213.57
		For Each LF Of Cut-Off Section, Add	70.19	
33 42 13 13-0030	LF	12' x 8' Precast Reinforced Concrete Box Culvert	1,754.74	213.57
		For Each LF Of Cut-Off Section, Add	70.19	
33 42 13 13-0031	LF	16' x 10' Precast Reinforced Concrete Box Culvert	2,541.15	244.09
		For Each LF Of Cut-Off Section, Add	101.65	
33 42 13 13-0032	LF	24' x 10' Precast Reinforced Concrete Box Culvert	3,511.79	244.09
		For Each LF Of Cut-Off Section, Add	140.47	

33 42 13 13-0033 Precast Reinforced Concrete Box Culvert For Roadways (33 42 13 13)

Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-1037 for crane lifting equipment.

33 42 13 13-0034	LF	3' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,140.90	61.02
		For Each LF Of Cut-Off Section, Add	45.64	
33 42 13 13-0035	LF	4' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,225.66	61.02
		For Each LF Of Cut-Off Section, Add	49.03	
33 42 13 13-0036	LF	4' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,375.65	61.02
		For Each LF Of Cut-Off Section, Add	55.03	
33 42 13 13-0037	LF	5' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,557.04	76.28
		For Each LF Of Cut-Off Section, Add	62.28	
33 42 13 13-0038	LF	5' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,707.04	76.28
		For Each LF Of Cut-Off Section, Add	68.28	
33 42 13 13-0039	LF	5' x 5' Precast Reinforced Concrete Box Culvert For Roadways	1,857.04	76.28
		For Each LF Of Cut-Off Section, Add	74.28	
33 42 13 13-0040	LF	6' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,713.33	79.33
		For Each LF Of Cut-Off Section, Add	68.53	
33 42 13 13-0041	LF	6' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,863.33	79.33
		For Each LF Of Cut-Off Section, Add	74.53	
33 42 13 13-0042	LF	6' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,163.33	79.33
		For Each LF Of Cut-Off Section, Add	86.53	
33 42 13 13-0043	LF	7' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,038.48	91.53
		For Each LF Of Cut-Off Section, Add	81.54	
33 42 13 13-0044	LF	7' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,406.31	124.49
		For Each LF Of Cut-Off Section, Add	96.25	
33 42 13 13-0045	LF	8' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,863.33	79.33
		For Each LF Of Cut-Off Section, Add	74.53	
33 42 13 13-0046	LF	8' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,038.48	91.53
		For Each LF Of Cut-Off Section, Add	81.54	
33 42 13 13-0047	LF	8' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,188.48	91.53
		For Each LF Of Cut-Off Section, Add	87.54	
33 42 13 13-0048	LF	8' x 5' Precast Reinforced Concrete Box Culvert For Roadways	2,401.28	122.05
		For Each LF Of Cut-Off Section, Add	96.05	
33 42 13 13-0049	LF	8' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,551.28	122.05
		For Each LF Of Cut-Off Section, Add	102.05	
33 42 13 13-0050	LF	8' x 8' Precast Reinforced Concrete Box Culvert For Roadways	2,914.14	152.55
		For Each LF Of Cut-Off Section, Add	116.57	
33 42 13 13-0051	LF	9' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,575.83	122.05
		For Each LF Of Cut-Off Section, Add	103.03	
33 42 13 13-0052	LF	9' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,959.28	152.55
		For Each LF Of Cut-Off Section, Add	118.37	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0053 LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,926.64 117.07	152.55
33 42 13 13-0054 LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,104.75 124.19	152.55
33 42 13 13-0055 LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,345.71 133.83	183.07
33 42 13 13-0056 LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,523.82 140.95	183.07
33 42 13 13-0057 LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,701.96 148.08	183.07
33 42 13 13-0058 LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,880.07 155.20	183.07
33 42 13 13-0059 LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,882.31 155.29	213.57
33 42 13 13-0060 LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	4,084.77 163.39	213.57
33 42 13 13-0061 LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	4,489.75 179.59	213.57
33 42 13 13-0062 LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	4,894.74 195.79	213.57
33 42 13 13-0063 LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	5,857.55 234.30	244.09
33 42 13 13-0064 LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	7,387.47 295.50	244.09

33 42 23 Headwalls and Endwalls for Stormwater Piping (33 42)**33 42 23 00-0001 Headwalls (33 42 23)**

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 42 23 00-0002 Cast In Place Concrete Headwalls (33 42 23 00-0001)

Note: Includes concrete, forms, rebar (where required), finish and curing.

33 42 23 00-0003 Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002)

Note: Sized by pipe diameter.

33 42 23 00-0004 EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,654.84	735.19
33 42 23 00-0005 EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,084.04	784.20
33 42 23 00-0006 EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,723.92	1,027.20
33 42 23 00-0007 EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	4,263.16	1,470.37
33 42 23 00-0008 EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	5,927.27	1,960.50
33 42 23 00-0009 EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	7,171.87	2,584.16
33 42 23 00-0010 EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	9,864.26	3,564.52
33 42 23 00-0011 EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	11,729.11	4,201.04
33 42 23 00-0012 EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	14,108.00	5,114.41
33 42 23 00-0013 EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	16,925.07	6,191.06

33 42 23 00-0014 Straight, Double Pipe, Cast In Place Concrete Headwall (33 42 23 00-0002)

Note: Sized by pipe diameter.

33 42 23 00-0015 EA 12" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	1,303.48	790.72
33 42 23 00-0016 EA 15" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	1,668.23	1,019.19
33 42 23 00-0017 EA 18" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	2,220.79	1,338.95
33 42 23 00-0018 EA 24" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	3,420.39	2,016.22
33 42 23 00-0019 EA 30" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	4,740.02	2,720.52
33 42 23 00-0020 EA 36" Pipes, Straight, Double Pipe, Cast In Place Concrete Headwall	6,675.00	3,761.92

33 42 23 00-0021 Straight, Single Pipe, Cast In Place Concrete Headwall (33 42 23 00-0002)

Note: Sized by pipe diameter.

33 42 23 00-0022 EA 12" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	974.71	632.53
33 42 23 00-0023 EA 15" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	1,260.22	738.46
33 42 23 00-0024 EA 18" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	1,619.94	977.13
33 42 23 00-0025 EA 24" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	2,529.53	1,487.51
33 42 23 00-0026 EA 30" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	3,482.45	2,000.03
33 42 23 00-0027 EA 36" Pipe, Straight, Single Pipe, Cast In Place Concrete Headwall	4,896.35	2,757.93

33 42 23 00-0028 Precast Concrete Headwalls (33 42 23 00-0001)

33 42 23 00-0029 EA 12" Pipe, Precast Concrete Headwall	958.37	206.79
33 42 23 00-0030 EA 15" Pipe, Precast Concrete Headwall	992.84	218.28
33 42 23 00-0031 EA 18" Pipe, Precast Concrete Headwall	1,093.39	248.15
33 42 23 00-0032 EA 24" Pipe, Precast Concrete Headwall	1,207.09	264.24
33 42 23 00-0033 EA 30" Pipe, Precast Concrete Headwall	1,613.09	310.19
33 42 23 00-0034 EA 36" Pipe, Precast Concrete Headwall	1,814.16	321.68
33 42 23 00-0035 EA 42" Pipe, Precast Concrete Headwall	2,374.39	376.63
33 42 23 00-0036 EA 48" Pipe, Precast Concrete Headwall	2,620.00	414.95
33 42 23 00-0037 EA 54" Pipe, Precast Concrete Headwall	2,890.19	439.36
33 42 23 00-0038 EA 60" Pipe, Precast Concrete Headwall	3,277.16	439.36
33 42 23 00-0039 EA 72" Pipe, Precast Concrete Headwall	3,953.47	549.20
33 42 23 00-0040 EA 84" Pipe, Precast Concrete Headwall	5,588.49	659.04



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 23 00-0041 Precast Concrete Wingwalls (33 42 23 00-0001)					
33 42 23 00-0042	EA	18" ID Pipe (26" Hole) Precast Concrete Wingwall	5,988.69		2,174.83
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.					
33 42 23 00-0043	EA	24" ID Pipe (32" Hole) Precast Concrete Wingwall	6,354.83		2,416.48
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.					
33 42 23 00-0044	EA	30" ID Pipe (42" Hole) Precast Concrete Wingwall	6,965.05		2,819.22
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.					
33 42 23 00-0045	EA	33" ID Pipe (46" Hole) Precast Concrete Wingwall	7,575.27		3,221.97
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.					
33 42 23 00-0046	EA	36" ID Pipe (50" Hole) Precast Concrete Wingwall	7,575.27		3,221.97
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.					
33 42 23 00-0047	EA	44" ID Pipe (58" Hole) Precast Concrete Wingwall	7,819.36		3,383.07
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.					
33 42 23 00-0048	EA	48" ID Pipe (62" Hole) Precast Concrete Wingwall	13,272.38		3,463.61
Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.					
33 42 23 00-0049	EA	52" ID Pipe (66" Hole) Precast Concrete Wingwall	13,638.52		3,705.26
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.					
33 42 23 00-0050 Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)					
33 42 23 00-0051	EA	34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate	3,472.57		854.31
33 42 26 End Sections for Stormwater Piping (33 42)					
33 42 26 16 Corrugated Metal End Sections for Stormwater Piping (33 42 26)					
33 42 26 16-0001 Corrugated Metal Pipe End Sections (33 42 26 16)					
33 42 26 16-0002 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)					
33 42 26 16-0003 Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)					
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.					
33 42 26 16-0004	EA	12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	337.71		80.42
33 42 26 16-0005	EA	15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	393.54		86.17
33 42 26 16-0006	EA	18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	461.42		91.90
33 42 26 16-0007	EA	21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	561.21		100.52
33 42 26 16-0008	EA	24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	622.19		109.14
33 42 26 16-0009 Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)					
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.					
33 42 26 16-0010	EA	30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,015.01		123.50
33 42 26 16-0011	EA	36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,318.86		146.45
33 42 26 16-0012	EA	42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	2,037.98		170.87
33 42 26 16-0013	EA	48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	2,492.72		195.27
33 42 26 16-0014	EA	54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	2,966.83		244.09
33 42 26 16-0015	EA	60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	3,462.97		292.91
33 42 26 16-0016 Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)					
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.					
33 42 26 16-0017	EA	12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	353.52		80.42
33 42 26 16-0018	EA	15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	409.79		86.17
33 42 26 16-0019	EA	18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	486.40		91.90
33 42 26 16-0020	EA	21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	591.21		100.52
33 42 26 16-0021	EA	24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	656.20		109.14
33 42 26 16-0022	EA	30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	1,119.44		123.50
33 42 26 16-0023	EA	36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	1,448.82		146.45
33 42 26 16-0024	EA	42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	2,321.15		170.87
33 42 26 16-0025	EA	48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	2,858.16		195.27
33 42 26 16-0026	EA	54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	3,336.38		244.09
33 42 26 16-0027	EA	60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	4,633.42		292.91
33 42 26 16-0028	EA	66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	5,234.79		439.36
33 42 26 16-0029	EA	72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	6,109.87		585.81
33 42 26 16-0030	EA	78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	6,657.41		628.53
33 42 26 16-0031	EA	84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	7,218.50		671.24
33 42 26 16-0032 Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section (33 42 26 16-0002)					
33 42 26 16-0033	EA	Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	45.20		
33 42 26 16-0034	EA	Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	50.49		
33 42 26 16-0035	EA	Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	56.98		
33 42 26 16-0036	EA	Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	61.96		
33 42 26 16-0037	EA	Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	69.40		
33 42 26 16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	121.84		
33 42 26 16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	131.10		
33 42 26 16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	180.21		
33 42 26 16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	192.76		
33 42 26 16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	235.59		
33 42 26 16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	241.14		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0044 EA Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	256.98	
33 42 26 16-0045 EA Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	290.96	
33 42 26 16-0046 EA Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	325.56	
33 42 26 16-0047 EA 84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension	333.25	
33 42 26 16-0048 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26 16-0049 Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)		
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0050 EA 17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	393.54	86.17
33 42 26 16-0051 EA 21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	461.42	91.90
33 42 26 16-0052 EA 24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	561.21	100.52
33 42 26 16-0053 EA 28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	622.19	109.14
33 42 26 16-0054 Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)		
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0055 EA 17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	379.89	86.17
33 42 26 16-0056 EA 21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	436.19	91.90
33 42 26 16-0057 EA 24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	488.98	100.52
33 42 26 16-0058 EA 28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	553.22	109.14
33 42 26 16-0059 EA 35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	818.37	123.50
33 42 26 16-0060 EA 42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,200.96	146.45
33 42 26 16-0061 EA 49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,882.53	170.87
33 42 26 16-0062 EA 57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	2,389.13	195.27
33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)		
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0064 EA 17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	386.82	86.17
33 42 26 16-0065 EA 21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	451.24	91.90
33 42 26 16-0066 EA 24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	512.50	100.52
33 42 26 16-0067 EA 28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	581.11	109.14
33 42 26 16-0068 EA 35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	865.77	123.50
33 42 26 16-0069 EA 42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,265.62	146.45
33 42 26 16-0070 EA 49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,985.96	170.87
33 42 26 16-0071 EA 57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,508.17	195.27
33 42 26 16-0072 EA 64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,015.74	244.09
33 42 26 16-0073 EA 71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,970.81	292.91
33 42 26 16-0074 EA 77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	5,535.15	439.36
33 42 26 16-0075 EA 83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	6,105.85	585.81
33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section (33 42 26 16-0048)		
33 42 26 16-0077 EA Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	50.49	
33 42 26 16-0078 EA Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	56.98	
33 42 26 16-0079 EA Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	61.96	
33 42 26 16-0080 EA Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	69.40	
33 42 26 16-0081 EA Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	121.84	
33 42 26 16-0082 EA Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	131.10	
33 42 26 16-0083 EA Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	180.21	
33 42 26 16-0084 EA Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	200.58	
33 42 26 16-0085 EA Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	235.59	
33 42 26 16-0086 EA Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	244.25	
33 42 26 16-0087 EA Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	282.36	
33 42 26 16-0088 EA Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	318.90	
33 42 26 16-0089 Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0090 Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)		
33 42 26 16-0091 EA 12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	521.38	80.42
33 42 26 16-0092 EA 15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	602.66	86.17
33 42 26 16-0093 EA 18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	717.35	91.90
33 42 26 16-0094 EA 21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	892.99	100.52
33 42 26 16-0095 EA 24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,172.44	109.14
33 42 26 16-0096 EA 30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,769.30	123.50
33 42 26 16-0097 EA 36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	2,410.64	146.45
33 42 26 16-0098 EA 36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,011.54	146.45
33 42 26 16-0099 EA 42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,845.83	170.87
33 42 26 16-0100 EA 48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	5,503.67	195.27
33 42 26 16-0101 EA 54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	6,088.00	244.09
33 42 26 16-0102 EA 60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	8,216.45	292.91
33 42 26 16-0103 EA 66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	9,274.20	439.36
33 42 26 16-0104 EA 72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	10,825.79	585.81
33 42 26 16-0105 EA 78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	11,826.99	628.53
33 42 26 16-0106 EA 84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	12,477.23	671.24
33 42 26 16-0107 EA 90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	17,125.74	732.26
33 42 26 16-0108 EA 96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	18,964.09	793.28



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 26 16-0109 Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)					
33 42 26 16-0110	EA	Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section.....	81.63		
33 42 26 16-0111	EA	Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section.....	86.65		
33 42 26 16-0112	EA	Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section.....	94.22		
33 42 26 16-0113	EA	Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section.....	106.27		
33 42 26 16-0114	EA	Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section.....	112.62		
33 42 26 16-0115	EA	Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section.....	145.61		
33 42 26 16-0116	EA	Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section.....	172.83		
33 42 26 16-0117	EA	Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section.....	182.86		
33 42 26 16-0118	EA	Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section.....	200.63		
33 42 26 16-0119	EA	Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section.....	226.80		
33 42 26 16-0120	EA	Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section.....	268.56		
33 42 26 16-0121	EA	Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	379.52		
33 42 26 16-0122	EA	Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	407.26		
33 42 26 16-0123	EA	Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section.....	512.89		
33 42 26 16-0124	EA	Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section.....	554.64		
33 42 26 16-0125	EA	Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	590.85		
33 42 26 16-0126	EA	Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	628.98		
33 42 26 16-0127	EA	Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	667.46		
33 42 26 16-0128 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)					
33 42 26 16-0129 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)					
33 42 26 16-0130	EA	17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	622.09	86.17	
33 42 26 16-0131	EA	21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	764.69	91.90	
33 42 26 16-0132	EA	24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	830.19	100.52	
33 42 26 16-0133	EA	28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	895.66	109.14	
33 42 26 16-0134	EA	35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	1,354.13	123.50	
33 42 26 16-0135	EA	42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	2,438.25	146.45	
33 42 26 16-0136	EA	42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	2,590.60	146.45	
33 42 26 16-0137	EA	49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	3,470.06	170.87	
33 42 26 16-0138	EA	57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	5,357.34	195.27	
33 42 26 16-0139	EA	64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	6,127.73	244.09	
33 42 26 16-0140	EA	71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	7,409.61	292.91	
33 42 26 16-0141	EA	77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	12,427.97	439.36	
33 42 26 16-0142	EA	83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	13,006.92	585.81	
33 42 26 16-0143	EA	87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	14,165.04	628.53	
33 42 26 16-0144	EA	95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	14,780.19	671.24	
33 42 26 16-0145	EA	103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	16,110.33	732.26	
33 42 26 16-0146	EA	112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	17,061.72	793.28	
33 42 26 16-0147 Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)					
33 42 26 16-0148	EA	Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	86.65		
33 42 26 16-0149	EA	Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	94.22		
33 42 26 16-0150	EA	Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	99.25		
33 42 26 16-0151	EA	Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	108.76		
33 42 26 16-0152	EA	Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	123.53		
33 42 26 16-0153	EA	Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	160.14		
33 42 26 16-0154	EA	Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	176.14		
33 42 26 16-0155	EA	Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	200.63		
33 42 26 16-0156	EA	Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	226.80		
33 42 26 16-0157	EA	Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	268.56		
33 42 26 16-0158	EA	Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	343.93		
33 42 26 16-0159	EA	Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	437.05		
33 42 26 16-0160	EA	Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	587.38		
33 42 26 16-0161	EA	Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	668.04		
33 42 26 16-0162	EA	Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	699.00		
33 42 26 16-0163	EA	Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	723.89		
33 42 26 16-0164	EA	Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	754.65		
33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)					
33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)					
33 42 26 16-0167	EA	15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	808.62	86.17	
33 42 26 16-0168	EA	18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,047.48	91.90	
33 42 26 16-0169	EA	21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,286.41	100.52	
33 42 26 16-0170	EA	24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,542.52	109.14	
33 42 26 16-0171	EA	30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,629.40	123.50	
33 42 26 16-0172	EA	36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	2,132.31	146.45	
33 42 26 16-0173	EA	42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	3,394.99	170.87	
33 42 26 16-0174 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)					
Note: Includes nut and bolt set.					

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0175	EA	3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	582.24	
33 42 26 16-0176	EA	3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	1,180.61	
33 42 26 16-0177	EA	3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	1,295.64	
33 42 26 16-0178	EA	3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	1,346.25	
33 42 26 16-0179		6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0180	EA	15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	848.08	86.17
33 42 26 16-0181	EA	18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,118.45	91.90
33 42 26 16-0182	EA	21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,495.26	100.52
33 42 26 16-0183	EA	24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,759.59	109.14
33 42 26 16-0184	EA	30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,090.20	123.50
33 42 26 16-0185	EA	36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,539.03	146.45
33 42 26 16-0186	EA	42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	3,903.87	170.87
33 42 26 16-0187		3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.				
33 42 26 16-0188	EA	3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section	1,143.27	
33 42 26 16-0189	EA	3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section	1,212.21	
33 42 26 16-0190	EA	3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section	1,332.98	
33 42 26 16-0191	EA	3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section	1,397.95	
33 42 26 16-0192		Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section (33 42 26 16-0165)		
33 42 26 16-0193	EA	Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section	97.10	
33 42 26 16-0194	EA	Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section	109.38	
33 42 26 16-0195	EA	Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section	119.09	
33 42 26 16-0196	EA	Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section	133.14	
33 42 26 16-0197	EA	Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section	204.13	
33 42 26 16-0198	EA	Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section	219.13	
33 42 26 16-0199	EA	Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section	295.62	
33 42 26 16-0200		Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0201		4:1 Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0202	EA	21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	964.36	91.90
33 42 26 16-0203	EA	24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,214.81	100.52
33 42 26 16-0204	EA	28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,441.12	109.14
33 42 26 16-0205	EA	35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	2,742.67	123.50
33 42 26 16-0206		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0200)		
Note: Includes nut and bolt set.				
33 42 26 16-0207	EA	3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section	695.47	
33 42 26 16-0208	EA	3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section	1,278.26	
33 42 26 16-0209	EA	3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section	1,346.25	
33 42 26 16-0210	EA	3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section	1,987.70	
33 42 26 16-0211		Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0212	EA	Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section	98.05	
33 42 26 16-0213	EA	Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section	111.50	
33 42 26 16-0214	EA	Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section	121.58	
33 42 26 16-0215	EA	Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section	144.05	
33 42 26 19		Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping (33 42 26)		
33 42 26 19-0001		Corrugated High-Density Polyethylene (HDPE) Pipe End Sections (33 42 26 19)		
33 42 26 19-0002	EA	4" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	52.50	22.14
33 42 26 19-0003	EA	6" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	87.78	33.22
33 42 26 19-0004	EA	8" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	114.73	41.51
33 42 26 19-0005	EA	10" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	181.98	66.42
33 42 26 19-0006	EA	12" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	210.94	74.72
33 42 26 19-0007	EA	15" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	225.08	80.26
33 42 26 19-0008	EA	18" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	259.37	88.57
33 42 26 19-0009	EA	24" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	323.57	105.17
33 42 26 19-0010	EA	30" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	545.34	119.01
33 42 26 19-0011	EA	36" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	649.84	132.84
33 42 26 23		Concrete End Sections for Stormwater Piping (33 42 26)		



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 42 26 23-0001 Precast Concrete End Sections (33 42 26 23)				
33 42 26 23-0002 Precast Concrete End Sections (33 42 26 23-0001)				
33 42 26 23-0003	EA	12" Diameter Pipe, Precast Concrete End Section	760.37	134.76
33 42 26 23-0004	EA	15" Diameter Pipe, Precast Concrete End Section	1,019.20	166.81
33 42 26 23-0005	EA	18" Diameter Pipe, Precast Concrete End Section	1,262.46	211.16
33 42 26 23-0006	EA	21" Diameter Pipe, Precast Concrete End Section	1,449.87	252.51
33 42 26 23-0007	EA	24" Diameter Pipe, Precast Concrete End Section	1,543.52	292.26
33 42 26 23-0008	EA	27" Diameter Pipe, Precast Concrete End Section	1,941.97	363.69
33 42 26 23-0009	EA	30" Diameter Pipe, Precast Concrete End Section	2,413.09	546.27
33 42 26 23-0010	EA	36" Diameter Pipe, Precast Concrete End Section	2,980.96	689.31
33 42 26 23-0011	EA	42" Diameter Pipe, Precast Concrete End Section	3,609.74	864.68
33 42 26 23-0012	EA	48" Diameter Pipe, Precast Concrete End Section	3,959.07	975.14
33 42 26 23-0013	EA	54" Diameter Pipe, Precast Concrete End Section	4,321.27	1,092.30
33 42 26 23-0014	EA	60" Diameter Pipe, Precast Concrete End Section	4,692.74	1,214.34
33 42 26 23-0015	EA	66" Diameter Pipe Precast Concrete End Section	4,658.46	979.38
33 42 26 23-0016	EA	72" Diameter Pipe Precast Concrete End Section	5,346.68	1,224.21
33 42 26 23-0017	EA	78" Diameter Pipe Precast Concrete End Section	6,365.08	1,530.26
33 42 26 23-0018	EA	84" Diameter Pipe Precast Concrete End Section	7,534.35	1,836.31
33 42 26 23-0019 Flared Precast Concrete End Sections (33 42 26 23-0001)				
33 42 26 23-0020	EA	12" Diameter Pipe, Flared Precast Concrete End Section	952.46	142.18
33 42 26 23-0021	EA	15" Diameter Pipe, Flared Precast Concrete End Section	1,147.49	177.21
33 42 26 23-0022	EA	18" Diameter Pipe, Flared Precast Concrete End Section	1,394.07	224.32
33 42 26 23-0023	EA	21" Diameter Pipe, Flared Precast Concrete End Section	1,594.21	268.25
33 42 26 23-0024	EA	24" Diameter Pipe, Flared Precast Concrete End Section	1,943.53	310.48
33 42 26 23-0025	EA	27" Diameter Pipe, Flared Precast Concrete End Section	2,356.59	495.86
33 42 26 23-0026	EA	30" Diameter Pipe, Flared Precast Concrete End Section	2,469.36	682.71
33 42 26 23-0027	EA	36" Diameter Pipe, Flared Precast Concrete End Section	3,329.99	861.63
33 42 26 23-0028	EA	42" Diameter Pipe, Flared Precast Concrete End Section	4,000.88	1,081.07
33 42 26 23-0029	EA	48" Diameter Pipe, Flared Precast Concrete End Section	4,334.35	1,219.23
33 42 26 23-0030	EA	54" Diameter Pipe, Flared Precast Concrete End Section	4,848.21	1,365.55
33 42 26 23-0031	EA	60" Diameter Pipe, Flared Precast Concrete End Section	5,372.05	1,516.77
33 42 26 23-0032	EA	66" Diameter Pipe, Flared Precast Concrete End Section	6,263.52	1,747.55
33 42 26 23-0033	EA	72" Diameter Pipe, Flared Precast Concrete End Section	7,296.39	1,950.51
33 42 26 23-0034	EA	78" Diameter Pipe, Flared Precast Concrete End Section	8,272.00	2,194.23
33 42 26 23-0035	EA	84" Diameter Pipe, Flared Precast Concrete End Section	9,532.36	2,437.71
33 42 26 23-0036 Elliptical Precast Concrete End Sections (33 42 26 23-0001)				
33 42 26 23-0037	EA	14" x 23" Elliptical Precast Concrete End Section	1,658.38	224.32
33 42 26 23-0038	EA	18" x 24" Elliptical Precast Concrete End Section	1,892.08	268.25
33 42 26 23-0039	EA	19" x 30" Elliptical Precast Concrete End Section	2,312.87	310.48
33 42 26 23-0040	EA	22" x 34" Elliptical Precast Concrete End Section	2,759.62	495.86
33 42 26 23-0041	EA	24" x 38" Elliptical Precast Concrete End Section	2,830.40	682.71
33 42 26 23-0042	EA	27" x 42" Elliptical Precast Concrete End Section	3,334.74	772.54
33 42 26 23-0043	EA	29" x 45" Elliptical Precast Concrete End Section	3,839.08	861.63
33 42 26 23-0044	EA	34" x 53" Elliptical Precast Concrete End Section	4,595.37	1,081.07
33 42 26 23-0045	EA	38" x 60" Elliptical Precast Concrete End Section	4,960.30	1,219.23
33 42 26 23-0046	EA	43" x 68" Elliptical Precast Concrete End Section	5,547.72	1,365.55
33 42 26 23-0047	EA	48" x 76" Elliptical Precast Concrete End Section	6,145.52	1,516.77
33 42 26 23-0048 Mitered Precast Concrete End Sections (33 42 26 23-0001)				
33 42 26 23-0049	EA	12" Round Mitered Precast Concrete End Sections	559.07	142.18
33 42 26 23-0050	EA	15" Round Mitered Precast Concrete End Sections	610.32	177.21
33 42 26 23-0051	EA	18" Round Mitered Precast Concrete End Sections	736.49	224.32
33 42 26 23-0052	EA	24" Round Mitered Precast Concrete End Sections	1,065.68	310.48
33 42 26 23-0053	EA	12" x 18" Elliptical Mitered Precast Concrete End Sections.....	653.66	177.21
33 42 26 23-0054	EA	14" x 23" Elliptical Mitered Precast Concrete End Sections.....	813.53	224.32
33 42 26 23-0055	EA	19" x 30" Elliptical Mitered Precast Concrete End Sections.....	1,159.56	310.48
33 42 31 Stormwater Area Drains and Inlets (33 42)				
33 42 31 00-0001 Storm Drains (33 42 31)				
33 42 31 00-0002 Catch Basins And Inlet Basins (33 42 31 00-0001)				
Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.				
33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002)				
Note: Inside dimensions.				
33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)				
33 42 31 00-0005	EA	2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,832.57	361.60
33 42 31 00-0006	EA	3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,181.02	423.69
33 42 31 00-0007	EA	4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,529.47	485.66
33 42 31 00-0008	EA	5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,877.92	547.75
33 42 31 00-0009	EA	6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,226.37	609.72

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)				
33 42 31 00-0011	EA	2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,270.85	359.43
33 42 31 00-0012	EA	3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,830.55	479.23
33 42 31 00-0013	EA	4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,646.64	653.50
33 42 31 00-0014	EA	5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,416.67	762.42
33 42 31 00-0015	EA	6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,063.00	871.34
33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)				
33 42 31 00-0017	EA	2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,435.91	392.10
33 42 31 00-0018	EA	3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,370.67	544.58
33 42 31 00-0019	EA	4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,156.06	707.95
33 42 31 00-0020	EA	5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,800.49	816.87
33 42 31 00-0021	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	6,097.31	1,045.61
33 42 31 00-0022 Cast In Place, Catch Basin (33 42 31 00-0002)				
Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.				
33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0024	EA	3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,321.62	437.19
33 42 31 00-0025	EA	3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,463.35	464.86
33 42 31 00-0026	EA	4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,692.43	499.28
33 42 31 00-0027	EA	4'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	3,015.11	552.65
33 42 31 00-0028	EA	5' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	3,252.24	588.26
33 42 31 00-0029	EA	5'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	3,406.65	616.91
33 42 31 00-0030	EA	6' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	3,644.00	652.52
33 42 31 00-0031	EA	6'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	3,794.62	681.28
33 42 31 00-0032	EA	7' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	4,034.19	716.78
33 42 31 00-0033	EA	7'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	4,186.38	745.54
33 42 31 00-0034	EA	8' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	4,423.62	781.15
33 42 31 00-0035	VLF	>8' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	552.98	97.59
33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0037	EA	3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,672.45	505.37
33 42 31 00-0038	EA	3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,852.53	540.88
33 42 31 00-0039	EA	4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,090.55	576.49
33 42 31 00-0040	EA	4'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,467.53	638.47
33 42 31 00-0041	EA	5' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,728.18	678.77
33 42 31 00-0042	EA	5'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,905.90	712.21
33 42 31 00-0043	EA	6' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,170.13	752.50
33 42 31 00-0044	EA	6'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,347.85	785.94
33 42 31 00-0045	EA	7' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,610.60	826.24
33 42 31 00-0046	EA	7'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,787.58	859.68
33 42 31 00-0047	EA	8' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,050.44	899.98
33 42 31 00-0048	VLF	>8' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	631.34	112.51
33 42 31 00-0049 4' x 4', Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0050	EA	3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,048.36	578.13
33 42 31 00-0051	EA	3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,237.36	614.84
33 42 31 00-0052	EA	4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,511.52	658.29
33 42 31 00-0053	EA	4'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,943.49	728.98
33 42 31 00-0054	EA	5' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	4,231.12	773.96
33 42 31 00-0055	EA	5'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	4,433.51	812.19
33 42 31 00-0056	EA	6' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	4,721.15	857.18
33 42 31 00-0057	EA	6'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	4,924.28	895.41
33 42 31 00-0058	EA	7' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	5,211.92	940.39
33 42 31 00-0059	EA	7'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	5,414.31	978.62
33 42 31 00-0060	EA	8' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	5,701.95	1,023.71
33 42 31 00-0061	VLF	>8' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	712.70	127.97
33 42 31 00-0062 4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0063	EA	3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,537.13	670.38
33 42 31 00-0064	EA	3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,759.25	708.29
33 42 31 00-0065	EA	4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,065.16	757.30
33 42 31 00-0066	EA	4'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,557.90	837.68
33 42 31 00-0067	EA	5' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,879.42	888.43
33 42 31 00-0068	EA	5'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,115.80	932.33
33 42 31 00-0069	EA	6' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,436.57	983.09
33 42 31 00-0070	EA	6'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,672.94	1,027.09
33 42 31 00-0071	EA	7' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,994.46	1,077.84
33 42 31 00-0072	EA	7'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	6,228.61	1,121.73
33 42 31 00-0073	EA	8' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	6,551.61	1,172.49
33 42 31 00-0074	VLF	>8' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	819.01	146.60
33 42 31 00-0075 5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)				



		Utilities	33	
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 31 00-0076	EA	4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	4,552.27		850.31
33 42 31 00-0077	EA	4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,101.18		939.63
33 42 31 00-0078	EA	5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,450.13		995.29
33 42 31 00-0079	EA	5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,711.71		1,044.08
33 42 31 00-0080	EA	6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,056.97		1,099.63
33 42 31 00-0081	EA	6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,320.77		1,148.42
33 42 31 00-0082	EA	7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,667.51		1,204.08
33 42 31 00-0083	EA	7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,927.60		1,252.87
33 42 31 00-0084	EA	8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,276.56		1,308.42
33 42 31 00-0085	VLF	>8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	1,264.37		163.60
33 42 31 00-0086	5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0087	EA	4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,063.55		948.23
33 42 31 00-0088	EA	4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,895.21		1,073.38
33 42 31 00-0089	EA	5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,284.06		1,135.24
33 42 31 00-0090	EA	5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,585.55		1,190.68
33 42 31 00-0091	EA	6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,975.89		1,252.98
33 42 31 00-0092	EA	6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,279.60		1,308.42
33 42 31 00-0093	EA	7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,668.46		1,370.71
33 42 31 00-0094	EA	7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,969.94		1,426.16
33 42 31 00-0095	EA	8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,358.80		1,488.46
33 42 31 00-0096	VLF	>8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,044.85		186.03
33 42 31 00-0097	6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0098	EA	4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	5,601.83		1,050.72
33 42 31 00-0099	EA	4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,518.81		1,188.07
33 42 31 00-0100	EA	5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,935.75		1,255.38
33 42 31 00-0101	EA	5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,266.06		1,315.83
33 42 31 00-0102	EA	6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,680.78		1,383.14
33 42 31 00-0103	EA	6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,012.58		1,443.59
33 42 31 00-0104	EA	7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,428.04		1,510.90
33 42 31 00-0105	EA	7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,757.62		1,571.35
33 42 31 00-0106	EA	8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	9,174.56		1,638.66
33 42 31 00-0107	VLF	>8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	1,146.87		204.87
33 42 31 00-0108	6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0109	EA	4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin	6,163.40		1,158.11
33 42 31 00-0110	EA	4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,455.37		1,341.74
33 42 31 00-0111	EA	5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,916.51		1,416.24
33 42 31 00-0112	EA	5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,292.38		1,483.89
33 42 31 00-0113	EA	6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,753.52		1,558.28
33 42 31 00-0114	EA	6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,129.40		1,626.02
33 42 31 00-0115	EA	7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,590.53		1,700.41
33 42 31 00-0116	EA	7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,966.41		1,768.05
33 42 31 00-0117	EA	8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,429.01		1,842.55
33 42 31 00-0118	VLF	>8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,303.57		230.36
33 42 31 00-0119	7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0120	EA	4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	6,750.70		1,270.19
33 42 31 00-0121	EA	4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,166.33		1,470.60
33 42 31 00-0122	EA	5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,656.20		1,550.32
33 42 31 00-0123	EA	5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,059.45		1,623.08
33 42 31 00-0124	EA	6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,551.42		1,702.70
33 42 31 00-0125	EA	6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,954.68		1,775.57
33 42 31 00-0126	EA	7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,444.56		1,855.18
33 42 31 00-0127	EA	7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,850.01		1,928.04
33 42 31 00-0128	EA	8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	11,339.78		2,007.67
33 42 31 00-0129	VLF	>8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,417.53		250.94
33 42 31 00-0130	7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0131	EA	4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin	7,690.03		1,425.61
33 42 31 00-0132	EA	4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,906.13		1,604.67
33 42 31 00-0133	EA	5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,423.27		1,689.51
33 42 31 00-0134	EA	5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,857.48		1,767.50
33 42 31 00-0135	EA	6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,376.72		1,852.35
33 42 31 00-0136	EA	6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,810.91		1,930.34
33 42 31 00-0137	EA	7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,328.05		2,015.18
33 42 31 00-0138	EA	7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,762.26		2,093.16
33 42 31 00-0139	EA	8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	12,281.62		2,178.01
33 42 31 00-0140	VLF	>8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,535.16		272.29
33 42 31 00-0141	8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0142	EA	4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin	8,359.49		1,551.09
33 42 31 00-0143	EA	4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,673.07		1,743.98

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0144 EA 5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,219.81	1,833.94
33 42 31 00-0145 EA 5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,682.74	1,917.16
33 42 31 00-0146 EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,229.36	2,007.12
33 42 31 00-0147 EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,687.87	2,090.33
33 42 31 00-0148 EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	12,238.92	2,180.30
33 42 31 00-0149 EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	12,701.86	2,263.51
33 42 31 00-0150 EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	13,238.79	2,353.48
33 42 31 00-0151 VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	1,656.05	294.19
33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0154 EA 4' Deep, 1'-6" Diameter Precast Catch Basins	719.02	246.85
33 42 31 00-0155 EA 6' Deep, 1'-6" Diameter Precast Catch Basins	1,012.29	370.28
33 42 31 00-0156 EA 8' Deep, 1'-6" Diameter Precast Catch Basins	1,293.00	481.36
33 42 31 00-0157 EA 10' Deep, 1'-6" Diameter Precast Catch Basins	1,543.02	568.99
33 42 31 00-0158 EA 12' Deep, 1'-6" Diameter Precast Catch Basins	1,910.58	722.04
33 42 31 00-0159 EA 14' Deep, 1'-6" Diameter Precast Catch Basins	2,189.23	833.12
33 42 31 00-0160 VLF Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins	153.45	55.54
33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0162 EA 4' Deep, 2' Diameter Precast Catch Basin	816.23	274.63
33 42 31 00-0163 EA 6' Deep, 2' Diameter Precast Catch Basin	1,143.09	407.31
33 42 31 00-0164 EA 8' Deep, 2' Diameter Precast Catch Basin	1,454.06	536.91
33 42 31 00-0165 EA 10' Deep, 2' Diameter Precast Catch Basin	1,728.92	626.39
33 42 31 00-0166 EA 12' Deep, 2' Diameter Precast Catch Basin	2,155.30	802.27
33 42 31 00-0167 EA 14' Deep, 2' Diameter Precast Catch Basin	2,466.47	925.69
33 42 31 00-0168 VLF Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin	172.98	66.65
33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0170 EA 4' Deep, 3' Diameter Precast Catch Basin	1,057.23	323.99
33 42 31 00-0171 EA 6' Deep, 3' Diameter Precast Catch Basin	1,461.64	478.90
33 42 31 00-0172 EA 8' Deep, 3' Diameter Precast Catch Basin	1,852.35	632.56
33 42 31 00-0173 EA 10' Deep, 3' Diameter Precast Catch Basin	2,306.73	789.92
33 42 31 00-0174 EA 12' Deep, 3' Diameter Precast Catch Basin	2,730.58	941.74
33 42 31 00-0175 EA 14' Deep, 3' Diameter Precast Catch Basin	3,142.65	1,096.03
33 42 31 00-0176 VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	217.67	78.29
33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0178 EA 4' Deep, 4' Diameter Precast Catch Basin	1,262.95	360.40
33 42 31 00-0179 EA 6' Deep, 4' Diameter Precast Catch Basin	1,655.30	493.71
33 42 31 00-0180 EA 8' Deep, 4' Diameter Precast Catch Basin	2,256.87	740.55
33 42 31 00-0181 EA 10' Deep, 4' Diameter Precast Catch Basin	2,816.64	925.69
33 42 31 00-0182 EA 12' Deep, 4' Diameter Precast Catch Basin	3,337.46	1,110.84
33 42 31 00-0183 EA 14' Deep, 4' Diameter Precast Catch Basin	3,845.96	1,295.97
33 42 31 00-0184 VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin	265.81	92.57
33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0186 EA 4' Deep, 5' Diameter Precast Catch Basin	1,704.53	493.71
33 42 31 00-0187 EA 6' Deep, 5' Diameter Precast Catch Basin	2,366.26	740.55
33 42 31 00-0188 EA 8' Deep, 5' Diameter Precast Catch Basin	3,031.65	987.41
33 42 31 00-0189 EA 10' Deep, 5' Diameter Precast Catch Basin	3,718.93	1,234.26
33 42 31 00-0190 EA 12' Deep, 5' Diameter Precast Catch Basin	4,398.94	1,481.11
33 42 31 00-0191 EA 14' Deep, 5' Diameter Precast Catch Basin	5,126.26	1,727.97
33 42 31 00-0192 VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin	353.79	123.42
33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0194 EA 4' Deep, 6' Diameter Precast Catch Basin	2,503.00	740.55
33 42 31 00-0195 EA 6' Deep, 6' Diameter Precast Catch Basin	3,446.85	1,110.84
33 42 31 00-0196 EA 8' Deep, 6' Diameter Precast Catch Basin	4,448.14	1,481.11
33 42 31 00-0197 EA 10' Deep, 6' Diameter Precast Catch Basin	5,546.50	1,851.39
33 42 31 00-0198 EA 12' Deep, 6' Diameter Precast Catch Basin	6,617.51	2,221.67
33 42 31 00-0199 EA 14' Deep, 6' Diameter Precast Catch Basin	7,670.82	2,591.94
33 42 31 00-0200 VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin	527.94	185.14
33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)		
33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat	1,692.44	802.27
33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin	640.08	98.75
33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin	385.84	104.91
33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring	492.00	154.28
For Each Additional Inch In Height, Add		
	56.26	



		Utilities	33	
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST		
33 42 31 00-0206	EA 4' Diameter, Up To 6" High, Precast Extension Ring..... <i>For Each Additional Inch In Height, Add</i>	581.98 66.11	185.14		
33 42 31 00-0207	EA 5' Diameter, Up To 6" High, Precast Extension Ring..... <i>For Each Additional Inch In Height, Add</i>	678.62 77.14	215.99		
33 42 31 00-0208	EA 6' Diameter, Up To 6" High, Precast Extension Ring..... <i>For Each Additional Inch In Height, Add</i>	869.12 93.48	308.56		
33 42 31 00-0209	EA Adjust Existing Catch Basin Inlet Grate To Match Grade	740.51			
33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)					
33 42 31 00-0211	EA Up To 860 Square Inch, Up to 2" Rise, Catch Basin Riser	446.06			
33 42 31 00-0212	EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	497.41			
33 42 31 00-0213	EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	558.47			
33 42 31 00-0214	EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser	480.13			
33 42 31 00-0215	EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	534.94			
33 42 31 00-0216	EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	602.59			
33 42 31 00-0217	EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser	530.87			
33 42 31 00-0218	EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	579.57			
33 42 31 00-0219	EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	647.46			
33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)					
Note: Inside span.					
33 42 31 00-0221	EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	4,849.27	862.40		
33 42 31 00-0222	EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	5,548.58	984.18		
33 42 31 00-0223	EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	6,342.90	1,116.94		
33 42 31 00-0224	EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	7,606.76	1,339.89		
33 42 31 00-0225	EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	9,275.80	1,617.63		
33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)					
Note: Inside dimensions.					
33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)					
33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)					
Note: Yard inlet.					
33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)					
33 42 31 00-0230	EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	931.56	86.40		
33 42 31 00-0231	EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,095.05	104.91		
33 42 31 00-0232	EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,258.54	123.42		
33 42 31 00-0233	EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,423.57	142.71		
33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)					
33 42 31 00-0235	EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	231.37			
33 42 31 00-0236	EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	376.34			
33 42 31 00-0237	EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	533.66			
33 42 31 00-0238	EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	690.98			
33 42 31 00-0239	EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	848.29			
33 42 31 00-0240	EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	1,005.62			
33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)					
33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)					
33 42 31 00-0243	EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,910.13	244.09		
33 42 31 00-0244	EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,148.47	282.22		
33 42 31 00-0245	EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,386.80	320.37		
33 42 31 00-0246	EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,625.33	358.59		
33 42 31 00-0247	EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,863.85	396.83		
33 42 31 00-0248	EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	3,102.36	435.06		
33 42 31 00-0249	EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	3,340.89	473.28		
33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)					
33 42 31 00-0251	EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	452.88			
33 42 31 00-0252	EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	732.98			
33 42 31 00-0253	EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	794.74			
33 42 31 00-0254	EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,018.52			
33 42 31 00-0255	EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,242.29			
33 42 31 00-0256	EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,460.54			
33 42 31 00-0257	EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,698.88			
33 42 31 00-0258	EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,937.21			
33 42 31 00-0259	EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,175.74			
33 42 31 00-0260	EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,414.26			
33 42 31 00-0261	EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,652.77			
33 42 31 00-0262	EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,891.30			
33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)					

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0264	30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)			
33 42 31 00-0265	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,840.54	268.50
33 42 31 00-0266	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,079.14	310.45
33 42 31 00-0267	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,317.73	352.40
33 42 31 00-0268	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,556.52	394.46
33 42 31 00-0269	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,795.32	436.51
33 42 31 00-0270	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	3,034.11	478.57
33 42 31 00-0271	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	3,272.90	520.62
33 42 31 00-0272	30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)			
33 42 31 00-0273	EA	6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	450.48	
33 42 31 00-0274	EA	12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	720.33	
33 42 31 00-0275	EA	18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	783.82	
33 42 31 00-0276	EA	24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,003.18	
33 42 31 00-0277	EA	30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,222.55	
33 42 31 00-0278	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,440.71	
33 42 31 00-0279	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,675.94	
33 42 31 00-0280	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,909.95	
33 42 31 00-0281	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	2,145.19	
33 42 31 00-0282	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	2,379.20	
33 42 31 00-0283	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	2,614.44	
33 42 31 00-0284	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	2,849.67	
33 42 31 00-0285	42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)			
33 42 31 00-0286	42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)			
33 42 31 00-0287	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,190.26	292.91
33 42 31 00-0288	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,470.52	340.50
33 42 31 00-0289	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,750.80	389.32
33 42 31 00-0290	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	3,029.85	436.92
33 42 31 00-0291	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	3,310.12	485.74
33 42 31 00-0292	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	3,590.39	533.33
33 42 31 00-0293	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	3,869.44	580.93
33 42 31 00-0294	42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)			
33 42 31 00-0295	EA	6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	497.90	
33 42 31 00-0296	EA	12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	812.74	
33 42 31 00-0297	EA	18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	878.04	
33 42 31 00-0298	EA	24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,127.19	
33 42 31 00-0299	EA	30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,376.34	
33 42 31 00-0300	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,625.48	
33 42 31 00-0301	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,891.10	
33 42 31 00-0302	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,156.74	
33 42 31 00-0303	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,422.36	
33 42 31 00-0304	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,687.99	
33 42 31 00-0305	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,953.61	
33 42 31 00-0306	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	3,219.24	
33 42 31 00-0307	42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)			
33 42 31 00-0308	EA	42" x 48" ID, Precast Concrete Inlet Box Top Slab.....	1,241.75	183.07
33 42 31 00-0309	48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)			
33 42 31 00-0310	48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)			
33 42 31 00-0311	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,111.65	325.45
33 42 31 00-0312	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,486.73	378.94
33 42 31 00-0313	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,861.82	432.44
33 42 31 00-0314	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,236.51	485.74
33 42 31 00-0315	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,611.21	539.04
33 42 31 00-0316	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,985.91	592.34
33 42 31 00-0317	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	5,360.60	645.64
33 42 31 00-0318	48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)			
33 42 31 00-0319	EA	6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	499.99	
33 42 31 00-0320	EA	12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	800.61	
33 42 31 00-0321	EA	18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,170.43	
33 42 31 00-0322	EA	24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,540.22	
33 42 31 00-0323	EA	30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,889.68	
33 42 31 00-0324	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,259.48	
33 42 31 00-0325	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,634.56	
33 42 31 00-0326	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,009.65	
33 42 31 00-0327	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,384.35	
33 42 31 00-0328	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,759.04	
33 42 31 00-0329	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	4,133.74	



		Utilities	33	
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0330	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	4,508.43	
33 42 31 00-0331		48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)		
33 42 31 00-0332	EA	48" x 54" ID, Precast Concrete Inlet Box Top Slab	1,349.60	198.32
33 42 31 00-0333		48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0334		48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)		
33 42 31 00-0335	EA	36" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,585.54	410.07
33 42 31 00-0336	EA	42" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,997.51	478.58
33 42 31 00-0337	EA	48" Height, 48" x 66" ID, Precast Concrete Inlet Box	4,409.47	547.10
33 42 31 00-0338	EA	54" Height, 48" x 66" ID, Precast Concrete Inlet Box	4,820.69	615.23
33 42 31 00-0339	EA	60" Height, 48" x 66" ID, Precast Concrete Inlet Box	5,231.91	683.36
33 42 31 00-0340	EA	66" Height, 48" x 66" ID, Precast Concrete Inlet Box	5,643.11	751.50
33 42 31 00-0341	EA	72" Height, 48" x 66" ID, Precast Concrete Inlet Box	6,054.33	819.63
33 42 31 00-0342		48" x 66" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0333)		
33 42 31 00-0343	EA	6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	548.32	
33 42 31 00-0344	EA	12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	857.45	
33 42 31 00-0345	EA	18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,269.08	
33 42 31 00-0346	EA	24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,680.70	
33 42 31 00-0347	EA	30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,058.17	
33 42 31 00-0348	EA	36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,469.80	
33 42 31 00-0349	EA	42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,881.76	
33 42 31 00-0350	EA	48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,293.73	
33 42 31 00-0351	EA	54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,704.95	
33 42 31 00-0352	EA	60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	4,116.16	
33 42 31 00-0353	EA	66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	4,527.37	
33 42 31 00-0354	EA	72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	4,938.59	
33 42 31 00-0355		48" x 66" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0333)		
33 42 31 00-0356	EA	48" x 66" ID, Precast Concrete Inlet Box Top Slab	1,500.38	222.12
33 42 31 00-0357		42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0358		42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0357)		
33 42 31 00-0359	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,488.78	552.86
33 42 31 00-0360	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,009.86	644.39
33 42 31 00-0361	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,530.94	734.70
33 42 31 00-0362	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box	6,050.81	826.24
33 42 31 00-0363	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box	6,571.88	916.56
33 42 31 00-0364	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box	7,091.75	1,006.87
33 42 31 00-0365	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box	7,614.04	1,098.40
33 42 31 00-0366		42" x 102" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0357)		
33 42 31 00-0367	EA	6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	733.44	
33 42 31 00-0368	EA	12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,127.59	
33 42 31 00-0369	EA	18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,640.14	
33 42 31 00-0370	EA	24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,152.67	
33 42 31 00-0371	EA	30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,629.82	
33 42 31 00-0372	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,142.35	
33 42 31 00-0373	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,663.44	
33 42 31 00-0374	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,184.52	
33 42 31 00-0375	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,704.38	
33 42 31 00-0376	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	5,225.46	
33 42 31 00-0377	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	5,745.32	
33 42 31 00-0378	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	6,266.41	
33 42 31 00-0379		42" x 102" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0357)		
33 42 31 00-0380	EA	42" x 102" ID, Precast Concrete Inlet Box Top Slab	2,048.97	244.09
33 42 31 00-0381		Frames And Grates For Inlets (33 42 31 00-0226)		
33 42 31 00-0382		Inlet Frames And Grates (33 42 31 00-0381)		
33 42 31 00-0383	EA	24" x 24", Heavy-Duty Inlet Grate	443.13	57.44
		Note: For type A, B, D, or E inlets.		
33 42 31 00-0384	EA	47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT)	573.63	57.44
		Note: For type A, B, D, or E inlets.		
33 42 31 00-0385	EA	47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT)	573.63	57.44
		Note: Includes legend: Dump No Waste "Drains To Waterways".		
33 42 31 00-0386	EA	Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT	573.63	57.44
		Note: Legend: Dump No Waste "Drains to Waterways"		
33 42 31 00-0387	EA	Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362)	628.25	57.44

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0388 EA Type B Inlet Dirt Plate (US Foundry 5217 BK).....	470.06	114.89
33 42 31 00-0389 EA Back Plate For Type B Inlets (Campbell Foundry 2548-1942).....	546.52	114.89
33 42 31 00-0390 EA Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4).....	680.42	143.60
Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".		
33 42 31 00-0391 EA 1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	582.12	143.60
33 42 31 00-0392 EA 2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	593.04	143.60
33 42 31 00-0393 EA 2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	614.88	143.60
33 42 31 00-0394 EA 3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	636.73	143.60
33 42 31 00-0395 EA 2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	614.88	143.60
33 42 31 00-0396 EA 2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	636.73	143.60
33 42 31 00-0397 EA 3" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	658.57	143.60
33 42 31 00-0398 EA 2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	942.56	143.60
33 42 31 00-0399 EA 2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	986.25	143.60
33 42 31 00-0400 EA 3" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	1,029.94	143.60
33 42 31 00-0401 EA 2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701).....	702.26	143.60
33 42 31 00-0402 EA 6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6).....	636.73	143.60
33 42 31 00-0403 EA 8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8).....	636.73	143.60
33 42 31 00-0404 EA 6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6).....	1,293.96	143.60
33 42 31 00-0405 EA 8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8).....	1,293.96	143.60
33 42 31 00-0406 EA Safety Bars For Type B And D Inlets (General Foundries 5218 SB).....	534.38	157.97
33 42 31 00-0407 EA 6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648).....	741.91	157.97
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0408 EA 8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848).....	741.91	157.97
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0409 EA 10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048).....	818.36	157.97
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0410 EA Type B Inlet Frame (US Foundry 5216 FRM).....	938.51	157.97
33 42 31 00-0411 EA Type D Inlet Frame (US Foundry 2999 FRM).....	807.44	157.97
33 42 31 00-0412 EA Type B Inlet Frame (Campbell Foundry 2618-0202).....	1,146.04	157.97
33 42 31 00-0413 EA Type D Inlet Frame (Campbell Foundry 2617-0002).....	1,014.97	157.97
33 42 31 00-0414 EA Type A Inlet, Single Frame And Grate (US Foundry 52340).....	1,311.48	229.77
33 42 31 00-0415 EA Type E Inlet, Single Frame And Grate (US Foundry 52342).....	2,097.90	229.77
33 42 31 00-0416 EA Type A Inlet, Single Frame And Grate (General Foundries 52340).....	1,278.71	229.77
33 42 31 00-0417 EA Type E Inlet, Double Frame And Grate (General Foundries 52342).....	1,995.23	229.77
33 42 31 00-0418 EA Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340).....	2,142.00	344.66
33 42 31 00-0419 EA Heavy-Duty Rectangular Frame And Grate (Campbell Foundry 3084).....	2,206.79	459.53
33 42 31 00-0420 EA 6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186).....	2,415.46	459.53
33 42 31 00-0421 EA 8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198).....	2,415.46	459.53
33 42 31 00-0422 EA 6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266).....	2,142.39	459.53
33 42 31 00-0423 EA 8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268).....	2,142.39	459.53
33 42 31 00-0424 EA Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198).....	2,502.84	459.53
33 42 31 00-0425 Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)		
33 42 31 00-0426 Type OS Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0427 EA 3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,522.76	
33 42 31 00-0428 EA 4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,928.72	
33 42 31 00-0429 EA 5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,304.82	
33 42 31 00-0430 EA 6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,651.05	
33 42 31 00-0431 EA 7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,967.42	
33 42 31 00-0432 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,253.91	
33 42 31 00-0433 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	5,788.36	
33 42 31 00-0434 EA 10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,745.27	
33 42 31 00-0435 EA 12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,627.21	
33 42 31 00-0436 EA 14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,436.63	
33 42 31 00-0437 EA 16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,211.54	
33 42 31 00-0438 EA 18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,921.77	
33 42 31 00-0439 EA 20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,567.33	
33 42 31 00-0440 Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0441 EA 3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,435.24	
33 42 31 00-0442 EA 4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,813.92	
33 42 31 00-0443 EA 5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,162.73	
33 42 31 00-0444 EA 6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,481.69	
33 42 31 00-0445 EA 7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,769.52	
33 42 31 00-0446 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,028.73	
33 42 31 00-0447 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,517.60	
33 42 31 00-0448 EA 10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,451.81	
33 42 31 00-0449 EA 12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,311.04	
33 42 31 00-0450 EA 14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,096.52	
33 42 31 00-0451 EA 16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,851.54	
33 42 31 00-0452 EA 18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,541.89	
33 42 31 00-0453 EA 20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,167.56	
33 42 31 00-0454 Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0455 EA 3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,276.16	
33 42 31 00-0456 EA 4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,629.96	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0457	EA	5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,952.66	
33 42 31 00-0458	EA	6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,246.73	
33 42 31 00-0459	EA	7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,509.68	
33 42 31 00-0460	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,742.78	
33 42 31 00-0461	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,246.84	
33 42 31 00-0462	EA	10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,157.11	
33 42 31 00-0463	EA	12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,994.86	
33 42 31 00-0464	EA	14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,757.64	
33 42 31 00-0465	EA	16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,491.54	
33 42 31 00-0466	EA	18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,162.00	
33 42 31 00-0467	EA	20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,766.54	
33 42 31 00-0468 Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0469	EA	3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,474.91	
33 42 31 00-0470	EA	4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,791.81	
33 42 31 00-0471	EA	5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,078.82	
33 42 31 00-0472	EA	6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,335.97	
33 42 31 00-0473	EA	7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,563.26	
33 42 31 00-0474	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,760.68	
33 42 31 00-0475	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,279.94	
33 42 31 00-0476	EA	10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,157.94	
33 42 31 00-0477	EA	12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,962.20	
33 42 31 00-0478	EA	14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,692.71	
33 42 31 00-0479	EA	16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,399.55	
33 42 31 00-0480	EA	18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,040.50	
33 42 31 00-0481	EA	20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,616.75	
33 42 31 00-0482 Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0483	EA	3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,908.20	
33 42 31 00-0484	EA	4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,151.93	
33 42 31 00-0485	EA	5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,365.77	
33 42 31 00-0486	EA	6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,549.75	
33 42 31 00-0487	EA	7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,702.62	
33 42 31 00-0488	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,826.87	
33 42 31 00-0489	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,300.55	
33 42 31 00-0490	EA	10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,114.89	
33 42 31 00-0491	EA	12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,855.49	
33 42 31 00-0492	EA	14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,522.34	
33 42 31 00-0493	EA	16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,173.32	
33 42 31 00-0494	EA	18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,758.40	
33 42 31 00-0495	EA	20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,278.81	
33 42 31 00-0496 Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0497	EA	3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,168.80	
33 42 31 00-0498	EA	4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,586.57	
33 42 31 00-0499	EA	5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,969.96	
33 42 31 00-0500	EA	6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,318.97	
33 42 31 00-0501	EA	7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,634.81	
33 42 31 00-0502	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,917.50	
33 42 31 00-0503	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,535.50	
33 42 31 00-0504	EA	10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,575.82	
33 42 31 00-0505	EA	12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,533.18	
33 42 31 00-0506	EA	14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,406.34	
33 42 31 00-0507	EA	16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,247.19	
33 42 31 00-0508	EA	18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,015.27	
33 42 31 00-0509	EA	20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,709.32	
33 42 31 00-0510 Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0511	EA	3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,081.28	
33 42 31 00-0512	EA	4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,470.55	
33 42 31 00-0513	EA	5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,826.64	
33 42 31 00-0514	EA	6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,149.58	
33 42 31 00-0515	EA	7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,438.14	
33 42 31 00-0516	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,692.32	
33 42 31 00-0517	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,310.32	
33 42 31 00-0518	EA	10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,325.81	
33 42 31 00-0519	EA	12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,258.36	
33 42 31 00-0520	EA	14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,107.94	
33 42 31 00-0521	EA	16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,926.97	
33 42 31 00-0522	EA	18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,673.21	
33 42 31 00-0523	EA	20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,346.67	
33 42 31 00-0524 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0525	EA	3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,699.72	
33 42 31 00-0526	EA	4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,030.67	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0527	EA	5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,336.39	
33 42 31 00-0528	EA	6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,619.35	
33 42 31 00-0529	EA	7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,879.52	
33 42 31 00-0530	EA	8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,114.47	
33 42 31 00-0531		Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0532	EA	3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,343.83	
33 42 31 00-0533	EA	4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,715.34	
33 42 31 00-0534	EA	5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,059.57	
33 42 31 00-0535	EA	6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,376.50	
33 42 31 00-0536	EA	7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,666.14	
33 42 31 00-0537	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,927.27	
33 42 31 00-0538	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,317.40	
33 42 31 00-0539	EA	10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,200.16	
33 42 31 00-0540	EA	12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,015.17	
33 42 31 00-0541	EA	14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,762.42	
33 42 31 00-0542	EA	16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,477.92	
33 42 31 00-0543	EA	18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,134.03	
33 42 31 00-0544	EA	20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,729.51	
33 42 31 00-0545		Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0546	EA	3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,842.86	
33 42 31 00-0547	EA	4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,168.99	
33 42 31 00-0548	EA	5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,471.14	
33 42 31 00-0549	EA	6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,750.51	
33 42 31 00-0550	EA	7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,004.65	
33 42 31 00-0551	EA	8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,236.01	
33 42 31 00-0552		Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0553	EA	3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,272.26	
33 42 31 00-0554	EA	4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,646.18	
33 42 31 00-0555	EA	5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,992.81	
33 42 31 00-0556	EA	6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,310.91	
33 42 31 00-0557	EA	7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,602.97	
33 42 31 00-0558	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,866.49	
33 42 31 00-0559	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,287.00	
33 42 31 00-0560	EA	10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,171.60	
33 42 31 00-0561	EA	12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,987.19	
33 42 31 00-0562	EA	14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,735.02	
33 42 31 00-0563	EA	16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,451.00	
33 42 31 00-0564	EA	18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,107.56	
33 42 31 00-0565	EA	20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,704.76	
33 42 31 00-0566		Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0567	EA	3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,343.83	
33 42 31 00-0568	EA	4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,715.34	
33 42 31 00-0569	EA	5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,059.57	
33 42 31 00-0570	EA	6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,376.50	
33 42 31 00-0571	EA	7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,666.14	
33 42 31 00-0572	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,927.27	
33 42 31 00-0573	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,317.40	
33 42 31 00-0574	EA	10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,200.16	
33 42 31 00-0575	EA	12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,015.17	
33 42 31 00-0576	EA	14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,762.42	
33 42 31 00-0577	EA	16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,477.92	
33 42 31 00-0578	EA	18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,134.03	
33 42 31 00-0579	EA	20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,729.51	
33 42 31 00-0580		Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0581	EA	3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,824.97	
33 42 31 00-0582	EA	4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,151.41	
33 42 31 00-0583	EA	5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,455.06	
33 42 31 00-0584	EA	6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,733.50	
33 42 31 00-0585	EA	7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,989.16	
33 42 31 00-0586	EA	8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,220.82	
33 42 31 00-0587		Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0588	EA	3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,860.76	
33 42 31 00-0589	EA	4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,186.60	
33 42 31 00-0590	EA	5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,488.44	
33 42 31 00-0591	EA	6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,766.29	
33 42 31 00-0592	EA	7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,020.13	
33 42 31 00-0593	EA	8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,251.21	



	Utilities	33	CS
	Stormwater Utilities	33 40	
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 42 31 00-0594	Type GT1 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0595 EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,113.18
33 42 31 00-0596 EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,622.79
33 42 31 00-0597 EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,127.62
33 42 31 00-0598 EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,530.24
33 42 31 00-0599 EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,926.84
33 42 31 00-0600 EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,287.00

33 42 31 00-0601	Type GT2 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0602 EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,775.18
33 42 31 00-0603 EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,329.82
33 42 31 00-0604 EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,842.15
33 42 31 00-0605 EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,313.39
33 42 31 00-0606 EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,742.33
33 42 31 00-0607 EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,130.19
33 42 31 00-0608 EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,203.97
33 42 31 00-0609 EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,505.37
33 42 31 00-0610 EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,705.15
33 42 31 00-0611 EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,804.55
33 42 31 00-0612 EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,858.84
33 42 31 00-0613 EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,823.93
33 42 31 00-0614 EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,699.82

33 42 31 00-0615	Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0616 EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,095.30
33 42 31 00-0617 EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,605.21
33 42 31 00-0618 EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,078.67
33 42 31 00-0619 EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,514.47
33 42 31 00-0620 EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,911.36
33 42 31 00-0621 EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,271.82

33 42 31 00-0622	Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0623 EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,900.42
33 42 31 00-0624 EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,450.55
33 42 31 00-0625 EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,959.58
33 42 31 00-0626 EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,426.30
33 42 31 00-0627 EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,851.96
33 42 31 00-0628 EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,236.54
33 42 31 00-0629 EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,219.17
33 42 31 00-0630 EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,520.27
33 42 31 00-0631 EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,719.76
33 42 31 00-0632 EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,817.63
33 42 31 00-0633 EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,871.68
33 42 31 00-0634 EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,836.54
33 42 31 00-0635 EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,712.19

33 42 31 00-0636	Type GO Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0637 EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,218.59
33 42 31 00-0638 EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,577.01
33 42 31 00-0639 EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,908.75
33 42 31 00-0640 EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,213.78
33 42 31 00-0641 EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,492.10
33 42 31 00-0642 EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,744.96
33 42 31 00-0643 EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,150.27
33 42 31 00-0644 EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,006.95
33 42 31 00-0645 EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,795.91
33 42 31 00-0646 EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,519.63
33 42 31 00-0647 EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,214.21
33 42 31 00-0648 EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,849.19
33 42 31 00-0649 EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,427.03

33 42 31 00-0650	Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0651 EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,898.48
33 42 31 00-0652 EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,369.56
33 42 31 00-0653 EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,805.72
33 42 31 00-0654 EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,208.21
33 42 31 00-0655 EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,574.54
33 42 31 00-0656 EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,907.19
33 42 31 00-0657 EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,623.95
33 42 31 00-0658 EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,727.97
33 42 31 00-0659 EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,746.39
33 42 31 00-0660 EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,680.47
33 42 31 00-0661 EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,575.38

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0662	EA	18" Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,395.15		
33 42 31 00-0663	EA	20" Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	12,139.78		
33 42 31 00-0664		Catch Basin Frames And Covers (33 42 31 00-0001)			
33 42 31 00-0665		Cast Iron Frames And Covers (33 42 31 00-0664)			
33 42 31 00-0666	EA	18" Diameter Cast Iron Catch Basin Frame And Cover	1,126.97		123.42
33 42 31 00-0667	EA	22" Diameter Cast Iron Catch Basin Frame And Cover	1,433.20		139.47
33 42 31 00-0668	EA	24" Diameter Cast Iron Catch Basin Frame And Cover	1,629.38		144.41
33 42 31 00-0669	EA	26" Diameter Cast Iron Catch Basin Frame And Cover	1,838.97		167.86
33 42 31 00-0670	EA	28" Diameter Cast Iron Catch Basin Frame And Cover	2,165.24		191.31
33 42 31 00-0671	EA	32" Diameter Cast Iron Catch Basin Frame And Cover	3,486.49		199.95
33 42 31 00-0672	EA	16" x 16" Cast Iron Catch Basin Frame And Cover	1,877.43		151.82
33 42 31 00-0673	EA	18" x 24" Cast Iron Catch Basin Frame And Cover	2,457.98		175.27
33 42 31 00-0674	EA	20" x 27" Cast Iron Catch Basin Frame And Cover	2,786.13		182.67
33 42 31 00-0675	EA	23" x 23" Cast Iron Catch Basin Frame And Cover	2,628.16		182.67
33 42 31 00-0676	EA	24" x 24" Cast Iron Catch Basin Frame And Cover	2,715.72		190.08
33 42 31 00-0677	EA	26" x 26" Cast Iron Catch Basin Frame And Cover	2,919.13		197.48
33 42 31 00-0678	EA	24" x 36" Cast Iron Catch Basin Frame And Cover	3,520.03		212.29
33 42 31 00-0679		Area Yard Drain (33 42 31 00-0001)			
		See CSI section 22 14 26 16-0001 for drains.			
33 42 31 00-0680		Ductile Iron Grates (33 42 31 00-0679)			
		Note: Not for traffic loading.			
33 42 31 00-0681	EA	8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe	171.51		41.51
33 42 31 00-0682	EA	10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe	209.62		44.28
33 42 31 00-0683	EA	12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	483.09		55.35
33 42 31 00-0684	EA	15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	577.26		66.42
33 42 33		Stormwater Curbside Drains and Inlets (33 42)			
33 42 33 00-0001		Curb Inlet Frames And Covers (33 42 33)			
33 42 33 00-0002		Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)			
33 42 33 00-0003	EA	20" x 22" Cast Iron Curb Inlet Frame And Cover	2,354.61		144.41
33 42 33 00-0004	EA	22" x 24" Cast Iron Curb Inlet Frame And Cover	2,516.15		167.86
33 42 33 00-0005	EA	24" x 24" Cast Iron Curb Inlet Frame And Cover	2,619.64		167.86
33 42 33 00-0006	EA	27" x 27" Cast Iron Curb Inlet Frame And Cover	2,868.29		197.48
33 42 33 00-0007	EA	36" x 24" Cast Iron Curb Inlet Frame And Cover	2,833.23		211.06
33 42 36		Stormwater Trench Drains (33 42)			
33 42 36 00-0001		Modular Trench Drains (33 42 36)			
		See CSI section 03 31 13 00-0011 for concrete.			
33 42 36 00-0002		Modular Trench Drains (33 42 36 00-0001)			
		Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.			
33 42 36 00-0003		4" Wide, Modular Trench Drains (33 42 36 00-0002)			
33 42 36 00-0004		4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains (33 42 36 00-0003)			
33 42 36 00-0005		4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains (33 42 36 00-0004)			
33 42 36 00-0006	LF	4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain (Zurn Z844-C)	74.68		19.75
		For Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	109.19		
		For Galvanized Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	218.38		
		For Stainless Steel Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	349.41		
		For Type 304 Stainless Steel Top Veneer Frame, Add	87.35		
		For Aluminum Veneer Bronze Anodized Frame, Add	43.68		
33 42 36 00-0007		Outlet Adapters For 4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains (33 42 36 00-0004)			
33 42 36 00-0008	EA	Closed End Cap For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain	56.46		
33 42 36 00-0009	EA	No-Hub End Outlet For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain	68.79		
33 42 36 00-0010	EA	No-Hub Bottom Outlet For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain	68.79		
33 42 36 00-0011		6" Wide, Modular Trench Drains (33 42 36 00-0002)			
33 42 36 00-0012		6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0011)			
33 42 36 00-0013		6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0012)			



Utilities			33	33
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 36 00-0014	LF	6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain..... <i>For Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add</i> <i>For Galvanized Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add</i> <i>For Stainless Steel Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add</i> <i>For Type 304 Stainless Steel Top Veneer Frame, Add</i> <i>For Aluminum Veneer Bronze Anodized Frame, Add</i>	226.34 109.19 218.38 349.41 87.35 43.68		19.75
33 42 36 00-0015		Outlet Adapters For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0012)			
33 42 36 00-0016	EA	Closed End Cap For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	103.31		
33 42 36 00-0017	EA	No-Hub End Outlet For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	115.64		
33 42 36 00-0018	EA	No-Hub Bottom Outlet For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	115.64		
33 42 36 00-0019		Other Fittings For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0012)			
33 42 36 00-0020	EA	Bottom Dome Strainer For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	197.58		
33 42 36 00-0021	EA	Joint Connector For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	197.58		
33 42 36 00-0022	EA	90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	935.23		
33 42 36 00-0023	EA	Cross For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	1,808.75		
33 42 36 00-0024	EA	Cutting Charge For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	218.38		
33 42 36 00-0025		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0011)			
33 42 36 00-0026		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)			
33 42 36 00-0027	LF	6" Wide, Fiber Reinforced Polyester, Modular Trench Drain <i>For Black Acid Resistant Coated Frame, Add</i> <i>For Galvanized Top Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	328.98 82.98 82.98 305.73		19.75
33 42 36 00-0028		Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)			
33 42 36 00-0029	EA	Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	112.04		
33 42 36 00-0030	EA	No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	124.37		
33 42 36 00-0031	EA	No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	124.37		
33 42 36 00-0032		Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)			
33 42 36 00-0033	EA	Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	197.58		
33 42 36 00-0034	EA	Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	197.58		
33 42 36 00-0035	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	935.23		
33 42 36 00-0036	EA	Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,808.75		
33 42 36 00-0037	EA	Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	218.38		
33 42 36 00-0038		6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0011)			
33 42 36 00-0039		6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)			
33 42 36 00-0040	LF	6" Wide, Vinylester Fiberglass, Modular Trench Drain..... <i>For Black Acid Resistant Coated Frame, Add</i> <i>For Galvanized Top Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	425.07 82.98 82.98 305.73		19.75
33 42 36 00-0041		Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)			
33 42 36 00-0042	EA	Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	181.92		
33 42 36 00-0043	EA	No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	194.25		
33 42 36 00-0044	EA	No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	194.25		
33 42 36 00-0045		Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)			
33 42 36 00-0046	EA	Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	197.58		
33 42 36 00-0047	EA	Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	197.58		
33 42 36 00-0048	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	935.23		
33 42 36 00-0049	EA	Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	1,808.75		
33 42 36 00-0050	EA	Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	218.38		
33 42 36 00-0051		6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0011)			
33 42 36 00-0052		6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0051)			
33 42 36 00-0053	LF	6" Wide, Polymer Concrete, Modular Trench Drain	507.93		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0054		Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains ^(33 42 36 00-0051)		
33 42 36 00-0055	EA	Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain.....	201.72	
33 42 36 00-0056	EA	No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	246.00	
33 42 36 00-0057	EA	No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	78.82	
33 42 36 00-0058		12" Wide, Modular Trench Drains ^(33 42 36 00-0002)		
33 42 36 00-0059		12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains ^(33 42 36 00-0058)		
33 42 36 00-0060		12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains ^(33 42 36 00-0059)		
33 42 36 00-0061	LF	12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain.....	425.55	27.15
		For Acid Resistant Coated Top Frame, Add	113.56	
		For Galvanized Welded Frame Assembly, Add	119.02	
		For Type 304 Stainless Steel Top Frame, Add	681.35	
33 42 36 00-0062		Outlet Adapters For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains ^(33 42 36 00-0059)		
33 42 36 00-0063	EA	End Cap For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains.....	211.99	
33 42 36 00-0064	EA	No-Hub End Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	228.44	
33 42 36 00-0065	EA	No-Hub Bottom Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	228.44	
33 42 36 00-0066		Other Fittings For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains ^(33 42 36 00-0059)		
33 42 36 00-0067	EA	Bottom Dome Strainer For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	352.89	
33 42 36 00-0068	EA	Joint Connector For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	462.08	
33 42 36 00-0069	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	1,841.98	
33 42 36 00-0070	EA	Cross For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	3,589.02	
33 42 36 00-0071	EA	Cutting Charges For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains.....	436.76	
33 42 36 00-0072		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains ^(33 42 36 00-0058)		
33 42 36 00-0073		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains ^(33 42 36 00-0072)		
33 42 36 00-0074	LF	12" Wide, Fiber Reinforced Polyester, Modular Trench Drain	534.74	27.15
		For Acid Resistant Coated Top Frame, Add	113.56	
		For Galvanized Welded Frame Assembly, Add	119.02	
		For Type 304 Stainless Steel Top Frame, Add	681.35	
33 42 36 00-0075		Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains ^(33 42 36 00-0072)		
33 42 36 00-0076	EA	End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	220.73	
33 42 36 00-0077	EA	No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	237.18	
33 42 36 00-0078	EA	No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	237.18	
33 42 36 00-0079		Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains ^(33 42 36 00-0072)		
33 42 36 00-0080	EA	Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	352.89	
33 42 36 00-0081	EA	Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	462.08	
33 42 36 00-0082	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,841.98	
33 42 36 00-0083	EA	Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	3,589.02	
33 42 36 00-0084	EA	Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	436.76	
33 42 36 00-0085		12" Wide, Vinylester Fiberglass, Modular Trench Drains ^(33 42 36 00-0058)		
33 42 36 00-0086		12" Wide, Vinylester Fiberglass, Modular Trench Drains ^(33 42 36 00-0085)		
33 42 36 00-0087	LF	12" Wide, Vinylester Fiberglass, Modular Trench Drain.....	753.12	27.15
		For Acid Resistant Coated Top Frame, Add	113.56	
		For Galvanized Welded Frame Assembly, Add	119.02	
		For Type 304 Stainless Steel Top Frame, Add	681.35	
33 42 36 00-0088		Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains ^(33 42 36 00-0085)		
33 42 36 00-0089	EA	End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	548.30	
33 42 36 00-0090	EA	No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	564.75	
33 42 36 00-0091	EA	No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	564.75	
33 42 36 00-0092		Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains ^(33 42 36 00-0085)		
33 42 36 00-0093	EA	Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	352.89	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0094	EA	Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	462.08	
33 42 36 00-0095	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,841.98	
33 42 36 00-0096	EA	Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	3,589.02	
33 42 36 00-0097	EA	Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	436.76	
33 42 36 00-0098		12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)		
33 42 36 00-0099		12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)		
33 42 36 00-0100	LF	12" Wide, Polymer Concrete, Modular Trench Drain	681.26	
33 42 36 00-0101		Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)		
33 42 36 00-0102	EA	Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain.....	342.78	
33 42 36 00-0103	EA	No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	590.32	
33 42 36 00-0104	EA	No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	137.78	
33 42 36 00-0105		23" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0106		23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0105)		
33 42 36 00-0107		23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0108	LF	23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain	596.52	37.02
		For Acid Resistant Coated Frame, Add	170.34	
		For Galvanized Frame Assembly, Add	170.34	
		For Type 304 Stainless Steel Top Frame, Add	1,048.22	
33 42 36 00-0109		Outlet Adapters For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0110	EA	End Cap For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	672.82	
33 42 36 00-0111	EA	No-Hub End Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	983.24	
33 42 36 00-0112	EA	No-Hub Bottom Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	983.24	
33 42 36 00-0113		Other Fittings For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0114	EA	Bottom Dome Strainer For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	801.35	
33 42 36 00-0115	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	3,648.34	
33 42 36 00-0116	EA	Cross For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	7,142.42	
33 42 36 00-0117	EA	Cutting Charges For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains.....	873.52	
33 42 36 00-0118		Modular Trench Drain Grates (33 42 36 00-0001)		
33 42 36 00-0119		4" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0120	LF	4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP)	46.68	3.70
33 42 36 00-0121	LF	4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG).....	49.07	3.70
33 42 36 00-0122	LF	4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	39.53	3.70
33 42 36 00-0123	LF	4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS).....	105.07	3.70
33 42 36 00-0124	LF	4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	39.53	3.70
33 42 36 00-0125	LF	4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS)	105.07	3.70
33 42 36 00-0126		6" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0127	LF	6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	215.81	3.70
33 42 36 00-0128	LF	6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate.....	182.84	3.70
33 42 36 00-0129	LF	6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	192.01	3.70
33 42 36 00-0130	LF	6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	167.77	3.70
33 42 36 00-0131	LF	6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	180.87	3.70
33 42 36 00-0132	LF	6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	183.06	3.70
33 42 36 00-0133	LF	6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	183.06	3.70
33 42 36 00-0134	LF	6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	180.87	3.70
33 42 36 00-0135	LF	6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate.....	159.04	3.70
33 42 36 00-0136	LF	6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	159.04	3.70
33 42 36 00-0137	LF	6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	169.08	3.70
33 42 36 00-0138	LF	6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	169.08	3.70
33 42 36 00-0139	LF	6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	220.18	3.70
33 42 36 00-0140	LF	6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	220.18	3.70
33 42 36 00-0141	LF	6" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate.....	403.62	3.70
33 42 36 00-0142	LF	6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	403.62	3.70
33 42 36 00-0143	LF	6" Wide, Stainless Steel Bar, Modular Trench Drain Grate.....	1,124.28	3.70
33 42 36 00-0144	LF	6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	150.30	3.70
33 42 36 00-0145	LF	6" Wide, Fiberglass, Modular Trench Drain Grate	325.00	3.70
33 42 36 00-0146		12" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0147 LF 12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate.....	596.42	4.01
33 42 36 00-0148 LF 12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	570.21	4.01
33 42 36 00-0149 LF 12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	495.96	4.01
33 42 36 00-0150 LF 12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	521.07	4.01
33 42 36 00-0151 LF 12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	450.10	4.01
33 42 36 00-0152 LF 12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate.....	881.40	4.01
33 42 36 00-0153 LF 12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	881.40	4.01
33 42 36 00-0154 LF 12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	1,124.90	4.01
33 42 36 00-0155 LF 12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate.....	1,124.90	4.01
33 42 36 00-0156 LF 12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	1,436.09	4.01
33 42 36 00-0157 LF 12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	1,436.09	4.01
33 42 36 00-0158 LF 12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	1,362.93	4.01
33 42 36 00-0159 LF 12" Wide, Fiberglass, Modular Trench Drain Grate	643.37	4.01
33 42 36 00-0160 23" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0161 LF 23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	942.07	4.32
33 42 36 00-0162 LF 23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	793.57	4.32
33 42 36 00-0163 LF 23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	1,230.33	4.32
33 42 36 00-0164 LF 23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate.....	911.49	4.32
33 44 Storm Utility Water Drains (33 40)		
33 44 36 Oil and Stormwater Separators (33 44)		
33 44 36 00-0001 Oil/Water Separator (33 44 36)		
Note: Complete with internal sensors and detectors.		
33 44 36 00-0002 Coalescing Oil Water Separator (33 44 36 00-0001)		
Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.		
33 44 36 00-0003 Single Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0004 EA 550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....	20,121.26	
Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
<i>For Interior Polyurethane Coating, Add</i>		
	711.00	
33 44 36 00-0005 EA 1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	24,609.74	
Note: HTC-G 1000. 4' diameter x 14' long tank.		
<i>For Interior Polyurethane Coating, Add</i>		
	893.70	
33 44 36 00-0006 EA 2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	29,462.93	
Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
<i>For Interior Polyurethane Coating, Add</i>		
	1,340.10	
33 44 36 00-0007 Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0008 EA 550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	31,231.04	
Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
<i>For Interior Polyurethane Coating, Add</i>		
	711.00	
33 44 36 00-0009 EA 1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	35,915.39	
Note: HTC-G 1000. 4' diameter x 14' long tank.		
<i>For Interior Polyurethane Coating, Add</i>		
	893.70	
33 44 36 00-0010 EA 2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	43,850.20	
Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
<i>For Interior Polyurethane Coating, Add</i>		
	1,340.10	
33 44 36 00-0011 EA 3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	51,030.95	
Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.		
<i>For Interior Polyurethane Coating, Add</i>		
	1,550.70	
33 44 36 00-0012 EA 5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways.....	67,743.63	
Note: HTC-G 5000. 6' diameter x 28'-8" long tank.		
<i>For Interior Polyurethane Coating, Add</i>		
	2,057.80	
33 44 36 00-0013 Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)		
33 44 36 00-0014 EA Single Channel Alarm Panel For Coalescing Oil Water Separator	1,263.62	
Note: HTAP1.		
33 44 36 00-0015 EA Two Channel Alarm Panel For Coalescing Oil Water Separator.....	1,716.83	
Note: HTAP2.		
33 44 36 00-0016 EA Float Interface Sensor For Coalescing Oil Water Separator	1,016.25	
Note: Required for UL 2215 label.		
33 44 36 00-0017 EA 1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator.....	752.64	
Note: Required for UL 2215 label.		
33 44 36 00-0018 EA Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator.....	258.35	
Note: Required for UL 2215 label.		
33 44 36 00-0019 EA 550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	4,269.99	
33 44 36 00-0020 EA 3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	8,539.97	
33 44 36 00-0021 EA 5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	12,810.06	
33 44 36 00-0022 EA 550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	767.72	
33 44 36 00-0023 EA 2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	908.31	
33 44 36 00-0024 EA 3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	1,816.62	



		Utilities	33	33
		Stormwater Utilities	33 40	
		Storm Utility Water Drains	33 44	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0025 EA 5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	4,043.04	
33 44 36 00-0026 EA 30" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,097.24	
33 44 36 00-0027 EA 36" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,431.55	
33 44 36 00-0028 EA 48" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,985.56	
33 44 36 00-0029 EA 54" x 54" Grade Level Manway For Coalescing Oil Water Separator	3,628.77	
33 44 36 00-0030 EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator	4,670.06	
33 44 36 00-0031 EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator	5,865.12	
33 44 36 00-0032 EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator	7,398.50	
33 44 36 00-0033 EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,465.27	
33 44 36 00-0034 EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,786.01	
33 44 36 00-0035 EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	2,805.33	
33 44 36 00-0036 EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,397.17	
33 44 36 00-0037 EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,695.94	
33 44 36 00-0038 EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	2,012.28	
33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	118.63	
33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	134.01	

33 44 36 00-0041 Oil Skimmers (33 44 36)

33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)

33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,182.11	666.49
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,417.91	666.49
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,203.95	666.49
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,506.33	666.49
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,451.75	666.49
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,651.52	666.49
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,503.05	666.49
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,804.35	666.49
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,879.98	888.85
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	6,132.15	888.85
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,946.57	888.85
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	6,309.00	888.85
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,517.50	888.85
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,769.67	888.85
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,570.99	888.85
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,934.51	888.85

33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)

33 44 36 00-0060 LF Add For Belt Projection, 12" Width	16.37	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width	30.57	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models.....	272.62	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models.....	320.65	

33 46 Stormwater Management (33 40)

33 46 23 Modular Buried Stormwater Storage Units (33 46)

33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) (33 46 23)

Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.

33 46 23 00-0002 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) (33 46 23 00-0001)

33 46 23 00-0003 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	612.89	
33 46 23 00-0004 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	566.68	
33 46 23 00-0005 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	532.81	
33 46 23 00-0006 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	500.06	
33 46 23 00-0007 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	249.41	
33 46 23 00-0008 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	221.37	
33 46 23 00-0009 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	204.77	
33 46 23 00-0010 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	188.42	

33 Utilities**33 40 Stormwater Utilities****33 46 Stormwater Management**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0011		85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) (33 46 23 00-0001)		
33 46 23 00-0012	EA	Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	346.06	
33 46 23 00-0013	EA	>10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	317.68	
33 46 23 00-0014	EA	>20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	297.63	
33 46 23 00-0015	EA	>30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	279.25	
33 46 23 00-0016	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	194.36	
33 46 23 00-0017	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	173.56	
33 46 23 00-0018	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	160.69	
33 46 23 00-0019	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	149.16	
33 46 23 00-0020		90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) (33 46 23 00-0001)		
33 46 23 00-0021	EA	Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	1,049.19	
33 46 23 00-0022	EA	>10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	979.24	
33 46 23 00-0023	EA	>20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	922.64	
33 46 23 00-0024	EA	>30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	870.96	
33 46 23 00-0025	EA	Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	881.97	
33 46 23 00-0026	EA	>10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	820.36	
33 46 23 00-0027	EA	>20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	771.72	
33 46 23 00-0028	EA	>30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	727.58	
33 46 23 00-0029		85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) (33 46 23 00-0001)		
33 46 23 00-0030	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	636.87	
33 46 23 00-0031	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	589.48	
33 46 23 00-0032	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	554.45	
33 46 23 00-0033	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	520.61	
33 46 23 00-0034	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	249.41	
33 46 23 00-0035	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	216.84	
33 46 23 00-0036	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	204.77	
33 46 23 00-0037	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	188.42	
33 46 23 00-0038		52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) (33 46 23 00-0001)		
33 46 23 00-0039	EA	Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	1,089.80	
33 46 23 00-0040	EA	>10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	1,015.90	
33 46 23 00-0041	EA	>20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	955.37	
33 46 23 00-0042	EA	>30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	902.61	
33 46 23 00-0043	EA	Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,360.54	
33 46 23 00-0044	EA	>10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,273.08	
33 46 23 00-0045	EA	>20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,199.71	
33 46 23 00-0046	EA	>30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,134.73	
33 46 23 00-0047		Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers (33 46 23 00-0001)		
33 46 23 00-0048	EA	Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	62.86	
33 46 23 00-0049	EA	Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	79.74	
33 46 23 00-0050	EA	Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	104.28	
33 46 23 00-0051	EA	Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	131.74	
33 46 23 00-0052	EA	12" x 6" Inspection Port Kit Note: (2712AG6IPKIT)	774.16	



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Management	33 46	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 46 53 Stormwater Leaching Pits (33 46)

33 46 53 00-0001			Drainage Wells (33 46 53) Note: Includes augering hole.		
33 46 53 00-0002	LF		12" Diameter Drainage Well With Corrugated Metal Liner.....	36.29	
33 46 53 00-0003	LF		18" Diameter Drainage Well With Corrugated Metal Liner.....	44.49	
33 46 53 00-0004	LF		24" Diameter Drainage Well With Corrugated Metal Liner.....	59.82	

33 50 Hydrocarbon Utilities (33)

33 52 Hydrocarbon Transmission and Distribution (33 50)

33 52 16 Gas Hydrocarbon Piping (33 52)

33 52 16 13 Steel Natural Gas Piping (33 52 16) See CSI section 23 05 23 00-0000 for gas valves.

33 52 16 13-0001			Gas Distribution Lines (33 52 16 13) Note: Excludes excavation and backfill.		
33 52 16 13-0002			Steel, Schedule 40, Plain End, Coal Tar Enamel And Wrapped (33 52 16 13-0001)		
33 52 16 13-0003	LF		1/2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	20.09	3.06
33 52 16 13-0004	LF		3/4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	23.16	3.36
33 52 16 13-0005	LF		1" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	26.55	3.45
33 52 16 13-0006	LF		1-1/4" (3.2 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	27.23	3.54
33 52 16 13-0007	LF		1-1/2" (3.6 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	28.27	3.59
33 52 16 13-0008	LF		2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	29.96	3.84
33 52 16 13-0009	LF		2-1/2" (6.0 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	42.25	4.66
33 52 16 13-0010	LF		3" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	52.68	5.88
33 52 16 13-0011	LF		4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	70.99	7.11
33 52 16 13-0012	LF		5" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	95.87	8.24
33 52 16 13-0013	LF		6" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	120.54	10.06
33 52 16 13-0014	LF		8" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	175.41	12.95

33 52 16 13-0015 Gas Line Taps (33 52 16 13-0001) Note: Includes material to tap into main and gas valve.

33 52 16 13-0016			Polyethylene, 60 PSI (33 52 16 13-0015)		
33 52 16 13-0017	EA		2" Polyethylene Hot Tap, With Valve.....	2,585.68	
33 52 16 13-0018	EA		2-1/2" Polyethylene Hot Tap, With Valve.....	3,696.53	
33 52 16 13-0019	EA		3" Polyethylene Hot Tap, With Valve.....	3,869.22	
33 52 16 13-0020	EA		4" Polyethylene Hot Tap, With Valve.....	4,525.24	
33 52 16 13-0021	EA		6" Polyethylene Hot Tap, With Valve.....	7,021.40	

33 52 16 13-0022 Steel, Schedule 40 (33 52 16 13-0015) Note: For punch steel service tee.

33 52 16 13-0023	EA		1/2" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	2,674.92	
33 52 16 13-0024	EA		3/4" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	2,720.23	
33 52 16 13-0025	EA		3/4" Iron Pipe Size Weld Base, 3/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	2,783.61	
33 52 16 13-0026	EA		3/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	2,844.89	
33 52 16 13-0027	EA		1" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	2,890.03	
33 52 16 13-0028	EA		1-1/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	3,144.73	
33 52 16 13-0029	EA		1-1/4" Iron Pipe Size Weld Base, 1-1/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	3,224.95	

33 52 16 13-0030 Protective Pipe And Fitting Wrap (33 52 16 13-0001) Note: Includes cleaning and priming pipe.

33 52 16 13-0031 Corrosion Protection Pipe Wrap For Pipe (33 52 16 13-0030) Note: Field applied.

33 52 16 13-0032	LF		1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	4.17	
33 52 16 13-0033	LF		3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	4.37	
33 52 16 13-0034	LF		1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	4.59	
33 52 16 13-0035	LF		1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	5.18	
33 52 16 13-0036	LF		1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	5.51	
33 52 16 13-0037	LF		2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	6.35	
33 52 16 13-0038	LF		2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	7.83	
33 52 16 13-0039	LF		3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	9.80	
33 52 16 13-0040	LF		4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	12.45	
33 52 16 13-0041	LF		6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	16.68	

33 Utilities**33 50 Hydrocarbon Utilities****33 52 Hydrocarbon Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 52 16 13-0042 Corrosion Resistance Wrap And Coat - Fittings (33 52 16 13-0030)

Note: Field applied.

33 52 16 13-0043	EA	1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	21.06	
33 52 16 13-0044	EA	3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	21.06	
33 52 16 13-0045	EA	1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	25.88	
33 52 16 13-0046	EA	1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	29.40	
33 52 16 13-0047	EA	1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	29.40	
33 52 16 13-0048	EA	2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	34.82	
33 52 16 13-0049	EA	2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	46.36	
33 52 16 13-0050	EA	3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	65.14	
33 52 16 13-0051	EA	4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	66.13	
33 52 16 13-0052	EA	6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	76.39	

33 52 16 13-0053 Service Fittings (33 52 16 13-0001)**33 52 16 13-0054 Brass Fittings** (33 52 16 13-0053)

33 52 16 13-0055	EA	1/2" X 2" Long Nipples, Threaded Both Ends, Brass	40.86	
33 52 16 13-0056	EA	3/4" X 2" Long Nipples, Threaded Both Ends, Brass	47.62	
33 52 16 13-0057	EA	1" X 2" Long Nipples, Threaded Both Ends, Brass	60.64	
33 52 16 13-0058	EA	1-1/4" X 2" Long Nipples, Threaded Both Ends, Brass	75.61	
33 52 16 13-0059	EA	1-1/2" X 2" Long Nipples, Threaded Both Ends, Brass	85.00	
33 52 16 13-0060	EA	2" X 2" Long Nipples, Threaded Both Ends, Brass	111.33	
33 52 16 13-0061	EA	1/2" 90 Degree Elbow, Brass	35.15	
33 52 16 13-0062	EA	3/4" 90 Degree Elbow, Brass	40.54	
33 52 16 13-0063	EA	1" 90 Degree Elbow, Brass	52.90	
33 52 16 13-0064	EA	1-1/4" 90 Degree Elbow, Brass	68.87	
33 52 16 13-0065	EA	1-1/2" 90 Degree Elbow, Brass	78.96	
33 52 16 13-0066	EA	2" 90 Degree Elbow, Brass	106.36	
33 52 16 13-0067	EA	1/2" Diameter Chrome Plated Nipple	27.25	
33 52 16 13-0068	EA	3/4" Diameter Chrome Plated Nipple	35.09	
33 52 16 13-0069	EA	1" Diameter Chrome Plated Nipple	45.71	
33 52 16 13-0070	EA	1-1/4" Diameter Chrome Plated Nipple	65.11	
33 52 16 13-0071	EA	1-1/2" Diameter Chrome Plated Nipple	78.90	
33 52 16 13-0072	EA	2" Diameter Chrome Plated Nipple	106.27	

33 52 16 13-0073 Anodeless Gas Riser (33 52 16 13-0053)

33 52 16 13-0074	EA	3/4" Anodeless Gas Riser	105.32	
33 52 16 13-0075	EA	1" Anodeless Gas Riser	130.58	
33 52 16 13-0076	EA	1-1/4" Anodeless Gas Riser	153.76	
33 52 16 13-0077	EA	1-1/2" Anodeless Gas Riser	193.54	
33 52 16 13-0078	EA	2" Anodeless Gas Riser	222.85	

33 52 16 13-0079 Brass Service Adapter (33 52 16 13-0053)

33 52 16 13-0080	EA	1/2" Brass Service Adapter	68.87	
33 52 16 13-0081	EA	3/4" Brass Service Adapter	75.78	
33 52 16 13-0082	EA	1" Brass Service Adapter	90.71	
33 52 16 13-0083	EA	1-1/4" Brass Service Adapter	108.11	
33 52 16 13-0084	EA	1-1/2" Brass Service Adapter	127.82	
33 52 16 13-0085	EA	2" Brass Service Adapter	151.46	
33 52 16 13-0086	EA	2-1/2" Brass Service Adapter	271.74	
33 52 16 13-0087	EA	3" Brass Service Adapter	331.78	
33 52 16 13-0088	EA	4" Brass Service Adapter	476.95	

33 52 16 23 Medium Density Polyethylene Piping for Natural Gas (33 52 16)**33 52 16 23-0001 Medium Density Polyethylene (MDPE) Gas Distribution Piping** (33 52 16 23)

Note: PE2406/PE2708. Includes couplings, #12 tracer wire, helically wrapped around piping.

33 52 16 23-0002	LF	1/2" Diameter, SDR 9, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	4.55	1.93
		For Colors, Add	0.07	
33 52 16 23-0003	LF	3/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	5.11	2.07
		For SDR 13.5, Deduct	-0.15	
		For Colors, Add	0.10	
33 52 16 23-0004	LF	1" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	5.65	2.21
		For SDR 13.5, Deduct	-0.18	
		For Colors, Add	0.12	
33 52 16 23-0005	LF	1-1/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	6.22	2.35
		For SDR 13.5, Deduct	-0.22	
		For Colors, Add	0.14	
33 52 16 23-0006	LF	1-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	7.25	2.83
		For SDR 13.5, Deduct	-0.31	
		For Colors, Add	0.20	
33 52 16 23-0007	LF	2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	8.29	3.07
		For SDR 13.5, Deduct	-0.40	
		For SDR 15.5, Deduct	-0.74	
		For Colors, Add	0.26	



		Utilities	33	CS
		Hydrocarbon Utilities	33 50	
		Hydrocarbon Transmission and Distribution	33 52	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 23-0008	LF	2-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	10.75	3.60
		For SDR 13.5, Deduct	-0.67	
		For SDR 15.5, Deduct	-1.24	
		For Colors, Add	0.43	
33 52 16 23-0009	LF	3" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	13.29	4.28
		For SDR 13.5, Deduct	-0.92	
		For SDR 15.5, Deduct	-1.69	
		For Colors, Add	0.59	
33 52 16 23-0010	LF	4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	22.09	5.08
		For SDR 13.5, Deduct	-1.70	
		For SDR 15.5, Deduct	-3.13	
		For Colors, Add	1.10	
33 52 16 23-0011	LF	5" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	28.24	5.08
		For SDR 13.5, Deduct	-2.36	
		For SDR 15.5, Deduct	-4.34	
		For Colors, Add	1.52	
33 52 16 23-0012	LF	6" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	34.50	5.08
		For SDR 13.5, Deduct	-3.02	
		For SDR 15.5, Deduct	-5.55	
		For Colors, Add	1.95	
33 52 16 23-0013	LF	8" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	51.94	6.35
		For SDR 13.5, Deduct	-5.02	
		For SDR 15.5, Deduct	-9.24	
		For Colors, Add	3.24	

33 52 16 26 High-Density Polyethylene (HDPE) Piping for Natural Gas (33 52 16)

33 52 16 26-0001 High-Density Polyethylene (HDPE) Gas Distribution Piping (33 52 16 26)

Note: ASTM F2619, ASTM D2513, API 15 LE. Includes couplings, #12 tracer wire, helically wrapped around piping.

33 52 16 26-0002	LF	1/2" Diameter, SDR 9 High-Density Polyethylene (HDPE) Gas Distribution Pipe.....	4.65	1.93
33 52 16 26-0003	LF	3/4" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe.....	5.24	2.07
		For SDR 13.5, Deduct	-0.16	
33 52 16 26-0004	LF	1" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe.....	5.79	2.21
		For SDR 13.5, Deduct	-0.20	
33 52 16 26-0005	LF	1-1/4" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe.....	6.40	2.35
		For SDR 13.5, Deduct	-0.24	
33 52 16 26-0006	LF	1-1/2" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe.....	7.50	2.83
		For SDR 13.5, Deduct	-0.34	
33 52 16 26-0007	LF	2" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe.....	8.62	3.07
		For SDR 13.5, Deduct	-0.45	
		For SDR 15.5, Deduct	-0.82	
		For SDR 17, Deduct	-1.19	
33 52 16 26-0008	LF	2-1/2" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe.....	11.30	3.60
		For SDR 13.5, Deduct	-0.74	
		For SDR 15.5, Deduct	-1.36	
		For SDR 17, Deduct	-1.98	
33 52 16 26-0009	LF	3" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe.....	14.03	4.28
		For SDR 13.5, Deduct	-1.01	
		For SDR 15.5, Deduct	-1.86	
		For SDR 17, Deduct	-2.70	
		For SDR 21, Deduct	-3.70	
33 52 16 26-0010	LF	4" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe.....	23.47	5.08
		For SDR 13.5, Deduct	-1.87	
		For SDR 15.5, Deduct	-3.44	
		For SDR 17, Deduct	-4.99	
		For SDR 21, Deduct	-6.84	
33 52 16 26-0011	LF	6" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe.....	36.93	5.08
		For SDR 13.5, Deduct	-3.32	
		For SDR 15.5, Deduct	-6.10	
		For SDR 17, Deduct	-8.86	
		For SDR 21, Deduct	-12.13	
33 52 16 26-0012	LF	8" Diameter, SDR 11 High-Density Polyethylene (HDPE) Gas Distribution Pipe.....	56.00	6.35
		For SDR 13.5, Deduct	-5.53	
		For SDR 15.5, Deduct	-10.16	
		For SDR 17, Deduct	-14.75	
		For SDR 21, Deduct	-20.19	

33 53 Hydrocarbon Utility Pressure Regulation (33 50)

33 53 16 Gas Hydrocarbon Pressure Regulation (33 53)

33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends (33 53 16)

33 53 16 00-0002	EA	3/4" Gas Pressure Regulator, Screwed End.....	233.67	19.30
33 53 16 00-0003	EA	1" Gas Pressure Regulator, Screwed End.....	238.05	19.30
33 53 16 00-0004	EA	1-1/4" Gas Pressure Regulator, Screwed End.....	248.57	22.92
33 53 16 00-0005	EA	1-1/2" Gas Pressure Regulator, Screwed End.....	829.37	26.53
33 53 16 00-0006	EA	2" Gas Pressure Regulator, Screwed End.....	884.77	41.09
33 53 16 00-0007	EA	3" Gas Pressure Regulator, Screwed End.....	2,482.03	92.19
33 53 16 00-0008	EA	4" Gas Pressure Regulator, Screwed End.....	3,447.88	122.17

33 56 Hydrocarbon Storage (33 50)

33 Utilities**33 50 Hydrocarbon Utilities****33 56 Hydrocarbon Storage**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 56 13 Aboveground Hydrocarbon Storage Tanks (33 56)

See CSI section 23 13 23 00-0000 for aboveground storage tanks.

33 56 33 Underground Hydrocarbon Storage (33 56)

See CSI section 23 13 13 00-0000 for underground storage tanks.

33 59 Hydrocarbon Utility Metering (33 59)**33 59 11 Diaphragm/Bellows Hydrocarbons Meters** (33 59)**33 59 11 00-0001 Diaphragm Meters** (33 59 11)

Note: With standard direct-digital reading maximum working pressures 5 lb. to 100 lb., threaded connections.
Excludes pressure and temperature compensation.

33 59 11 00-0002	EA	250 CF/Hour Gas Diaphragm Meter At 5 Lb., Direct Digital, Threaded	575.39	75.52
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0003	EA	425 CF/Hour Gas Diaphragm Meter At 10 Lb., Direct Digital, Threaded	1,128.14	115.51
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0004	EA	425 CF/Hour Gas Diaphragm Meter At 25 Lb., Direct Digital, Threaded	1,324.72	115.51
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0005	EA	800 CF/Hour Gas Diaphragm Meter At 20 Lb., Direct Digital, Threaded	2,885.77	144.38
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0006	EA	1,000 CF/Hour Gas Diaphragm Meter At 25 Lb., Direct Digital, Threaded	3,265.49	177.70
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0007	EA	800 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded	4,290.45	144.38
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0008	EA	1,000 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded	4,777.08	177.70
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0009	EA	1,400 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded	6,302.99	188.81
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0010	EA	2,300 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded	8,915.71	222.13
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	
33 59 11 00-0011	EA	5,000 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded	13,620.98	366.52
		For Temperature And Pressure Compensation, Add	8.40	
		For Pulsers, Add	26.50	

33 59 16 Hydrocarbons Turbine Meters (33 59)**33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading** (33 59 16)

Note: Maximum working pressure 175 PSI, flanged end connections.

33 59 16 00-0002	EA	4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	10,966.93	391.19
33 59 16 00-0003	EA	6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	11,698.33	454.28
33 59 16 00-0004	EA	8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	18,107.87	502.93
33 59 16 00-0005	EA	10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	35,174.59	612.26
33 59 16 00-0006	EA	12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	58,158.09	765.32

33 60 Hydronic and Steam Energy Utilities (33)**33 61 Hydronic Energy Distribution** (33 60)**33 61 13 Buried Hydronic Energy Distribution** (33 61)**33 61 13 00-0001 Glass Lined Steel Piping** (33 61 13)**33 61 13 00-0002 Glass Lined Steel Pipe** (33 61 13 00-0001)

Note: 150 PSIG

33 61 13 00-0003	EA	4" X 1' Glass Lined Steel Pipe	1,673.16	
33 61 13 00-0004	EA	4" X 2' Glass Lined Steel Pipe	1,847.37	
33 61 13 00-0005	EA	4" X 3' Glass Lined Steel Pipe	1,847.37	
33 61 13 00-0006	EA	4" X 4' Glass Lined Steel Pipe	2,195.79	
33 61 13 00-0007	EA	4" X 5' Glass Lined Steel Pipe	3,121.30	
33 61 13 00-0008	EA	4" X 10' Glass Lined Steel Pipe	3,614.91	
33 61 13 00-0009	EA	6" X 1' Glass Lined Steel Pipe	1,400.95	
33 61 13 00-0010	EA	6" X 2' Glass Lined Steel Pipe	3,034.20	
33 61 13 00-0011	EA	6" X 3' Glass Lined Steel Pipe	3,034.20	
33 61 13 00-0012	EA	6" X 4' Glass Lined Steel Pipe	3,437.06	
33 61 13 00-0013	EA	6" X 5' Glass Lined Steel Pipe	5,545.77	
33 61 13 00-0014	EA	6" X 10' Glass Lined Steel Pipe	6,418.29	
33 61 13 00-0015	EA	8" X 1' Glass Lined Steel Pipe	3,461.39	
33 61 13 00-0016	EA	8" X 2' Glass Lined Steel Pipe	4,169.13	
33 61 13 00-0017	EA	8" X 3' Glass Lined Steel Pipe	4,169.13	
33 61 13 00-0018	EA	8" X 4' Glass Lined Steel Pipe	4,794.66	
33 61 13 00-0019	EA	8" X 5' Glass Lined Steel Pipe	6,494.51	
33 61 13 00-0020	EA	8" X 10' Glass Lined Steel Pipe	7,381.37	



		Utilities	33	
		Hydronic and Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 61 13 00-0021	EA	12" X 1' Glass Lined Steel Pipe	9,392.71		
33 61 13 00-0022	EA	12" X 2' Glass Lined Steel Pipe	9,392.71		
33 61 13 00-0023	EA	12" X 3' Glass Lined Steel Pipe	9,733.87		
33 61 13 00-0024	EA	12" X 4' Glass Lined Steel Pipe	10,381.10		
33 61 13 00-0025	EA	12" X 5' Glass Lined Steel Pipe	11,648.98		
33 61 13 00-0026	EA	12" X 10' Glass Lined Steel Pipe	14,390.42		
33 61 13 00-0027	EA	16" X 10' Glass Lined Steel Pipe	19,602.18		
33 61 13 00-0028		90 Degree Elbow, Glass Lined Steel Fittings (33 61 13 00-0001)			
		Note: 150 PSIG			
33 61 13 00-0029	EA	4" 90 Degree Elbow, Glass Lined Steel Fittings	2,007.89		
33 61 13 00-0030	EA	6" 90 Degree Elbow, Glass Lined Steel Fittings	3,283.56		
33 61 13 00-0031	EA	8" 90 Degree Elbow, Glass Lined Steel Fittings	6,053.75		
33 61 13 00-0032	EA	10" 90 Degree Elbow, Glass Lined Steel Fittings	10,747.45		
33 61 13 00-0033	EA	12" 90 Degree Elbow, Glass Lined Steel Fittings	15,908.60		
33 61 13 00-0034	EA	14" 90 Degree Elbow, Glass Lined Steel Fittings	18,687.50		
33 61 13 00-0035	EA	16" 90 Degree Elbow, Glass Lined Steel Fittings	21,465.99		
33 61 13 00-0036		45 Degree Elbow, Glass Lined Steel Fittings (33 61 13 00-0001)			
		Note: 150 PSIG			
33 61 13 00-0037	EA	4" 45 Degree Elbow, Glass Lined Steel Fittings	1,967.97		
33 61 13 00-0038	EA	6" 45 Degree Elbow, Glass Lined Steel Fittings	3,283.56		
33 61 13 00-0039	EA	8" 45 Degree Elbow, Glass Lined Steel Fittings	6,329.58		
33 61 13 00-0040	EA	10" 45 Degree Elbow, Glass Lined Steel Fittings	17,846.63		
33 61 13 00-0041	EA	12" 45 Degree Elbow, Glass Lined Steel Fittings	15,908.60		
33 61 13 00-0042	EA	14" 45 Degree Elbow, Glass Lined Steel Fittings	18,687.50		
33 61 13 00-0043	EA	16" 45 Degree Elbow, Glass Lined Steel Fittings	21,465.99		
33 61 13 00-0044		Tee, Glass Lined Steel Fittings (33 61 13 00-0001)			
		Note: 150 PSIG			
33 61 13 00-0045	EA	4" Tee, Glass Lined Steel Fittings	3,121.15		
33 61 13 00-0046	EA	6" Tee, Glass Lined Steel Fittings	5,360.46		
33 61 13 00-0047	EA	8" Tee, Glass Lined Steel Fittings	7,939.04		
33 61 13 00-0048	EA	10" Tee, Glass Lined Steel Fittings	13,696.05		
33 61 13 00-0049	EA	12" Tee, Glass Lined Steel Fittings	19,495.64		
33 61 13 00-0050	EA	14" Tee, Glass Lined Steel Fittings	22,973.74		
33 61 13 00-0051	EA	16" Tee, Glass Lined Steel Fittings	26,391.96		
33 61 13 00-0052		Prefabricated/Preinsulated Pipe (33 61 13)			
		Note: Includes coupling per full length of pipe. Insulation and jacketing sealed for seamless system including all fittings. Excludes excavation and backfill. See CSI section 23 01 20 91-0041 for purging of existing system.			
33 61 13 00-0053		Preinsulated Schedule 40 Black Steel Pipe (33 61 13 00-0052)			
		Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.			
33 61 13 00-0054		Standard Black Steel Carrier Pipe (33 61 13 00-0053)			
		Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.			
33 61 13 00-0055	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	192.96		21.12
		For High-Density Polyethylene (HDPE) Jacket, Add	3.30		
		For Schedule 80 Pipe, Add	32.96		
33 61 13 00-0056	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	211.63		22.79
		For High-Density Polyethylene (HDPE) Jacket, Add	3.62		
		For Schedule 80 Pipe, Add	36.25		
33 61 13 00-0057	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	236.41		24.19
		For High-Density Polyethylene (HDPE) Jacket, Add	4.08		
		For Schedule 80 Pipe, Add	40.83		
33 61 13 00-0058	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	253.17		25.56
		For High-Density Polyethylene (HDPE) Jacket, Add	4.38		
		For Schedule 80 Pipe, Add	43.82		
33 61 13 00-0059	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	265.23		27.13
		For High-Density Polyethylene (HDPE) Jacket, Add	4.58		
		For Schedule 80 Pipe, Add	45.81		
33 61 13 00-0060	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	293.68		33.54
		For High-Density Polyethylene (HDPE) Jacket, Add	4.98		
		For Schedule 80 Pipe, Add	49.79		
33 61 13 00-0061	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	323.46		40.94
		For High-Density Polyethylene (HDPE) Jacket, Add	5.38		
		For Schedule 80 Pipe, Add	53.78		
33 61 13 00-0062	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	408.10		52.13
		For High-Density Polyethylene (HDPE) Jacket, Add	6.77		
		For Schedule 80 Pipe, Add	67.72		

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0063	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	518.34	63.85
		For High-Density Polyethylene (HDPE) Jacket, Add	8.66	
		For Schedule 80 Pipe, Add	86.64	
33 61 13 00-0064	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	602.65	74.81
		For High-Density Polyethylene (HDPE) Jacket, Add	10.06	
		For Schedule 80 Pipe, Add	100.58	
33 61 13 00-0065	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	852.46	90.39
		For High-Density Polyethylene (HDPE) Jacket, Add	14.64	
		For Schedule 80 Pipe, Add	146.39	
33 61 13 00-0066	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,109.40	107.56
		For High-Density Polyethylene (HDPE) Jacket, Add	19.32	
		For Schedule 80 Pipe, Add	193.20	
33 61 13 00-0067	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,381.49	132.38
		For High-Density Polyethylene (HDPE) Jacket, Add	24.10	
		For Schedule 80 Pipe, Add	241.00	
33 61 13 00-0068		Standard Black Steel Carrier Pipe (33 61 13 00-0053)		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0069	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	209.45	21.12
		For High-Density Polyethylene (HDPE) Jacket, Add	3.63	
		For Schedule 80 Pipe, Add	36.26	
33 61 13 00-0070	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	229.76	22.79
		For High-Density Polyethylene (HDPE) Jacket, Add	3.99	
		For Schedule 80 Pipe, Add	39.87	
33 61 13 00-0071	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	256.83	24.19
		For High-Density Polyethylene (HDPE) Jacket, Add	4.49	
		For Schedule 80 Pipe, Add	44.91	
33 61 13 00-0072	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	275.08	25.56
		For High-Density Polyethylene (HDPE) Jacket, Add	4.82	
		For Schedule 80 Pipe, Add	48.20	
33 61 13 00-0073	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	288.13	27.13
		For High-Density Polyethylene (HDPE) Jacket, Add	5.04	
		For Schedule 80 Pipe, Add	50.39	
33 61 13 00-0074	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pip With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	318.58	33.54
		For High-Density Polyethylene (HDPE) Jacket, Add	5.48	
		For Schedule 80 Pipe, Add	54.77	
33 61 13 00-0075	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	350.35	40.94
		For High-Density Polyethylene (HDPE) Jacket, Add	5.92	
		For Schedule 80 Pipe, Add	59.15	
33 61 13 00-0076	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	441.96	52.13
		For High-Density Polyethylene (HDPE) Jacket, Add	7.45	
		For Schedule 80 Pipe, Add	74.49	
33 61 13 00-0077	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	561.66	63.85
		For High-Density Polyethylene (HDPE) Jacket, Add	9.53	
		For Schedule 80 Pipe, Add	95.30	
33 61 13 00-0078	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	652.94	74.81
		For High-Density Polyethylene (HDPE) Jacket, Add	11.06	
		For Schedule 80 Pipe, Add	110.64	
33 61 13 00-0079	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	925.66	90.39
		For High-Density Polyethylene (HDPE) Jacket, Add	16.10	
		For Schedule 80 Pipe, Add	161.03	
33 61 13 00-0080	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,205.99	107.56
		For High-Density Polyethylene (HDPE) Jacket, Add	21.25	
		For Schedule 80 Pipe, Add	212.51	
33 61 13 00-0081	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,501.99	132.38
		For High-Density Polyethylene (HDPE) Jacket, Add	26.51	
		For Schedule 80 Pipe, Add	265.10	
33 61 13 00-0082		Standard Black Steel Carrier Pipe (33 61 13 00-0053)		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0083	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	217.69	21.12
		For High-Density Polyethylene (HDPE) Jacket, Add	3.79	
		For Schedule 80 Pipe, Add	37.91	



		Utilities	33	
		Hydronic and Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0084	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	238.82 4.17 41.69	22.79
33 61 13 00-0085	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	267.03 4.70 46.95	24.19
33 61 13 00-0086	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	286.03 5.04 50.39	25.56
33 61 13 00-0087	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	299.58 5.27 52.68	27.13
33 61 13 00-0088	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	331.03 5.73 57.26	33.54
33 61 13 00-0089	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	363.79 6.18 61.84	40.94
33 61 13 00-0090	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	458.89 7.79 77.88	52.13
33 61 13 00-0091	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	583.32 9.96 99.64	63.85
33 61 13 00-0092	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	678.08 11.57 115.67	74.81
33 61 13 00-0093	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	962.25 16.83 168.35	90.39
33 61 13 00-0094	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	1,254.29 22.22 222.17	107.56
33 61 13 00-0095	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	1,562.24 27.71 277.15	132.38
33 61 13 00-0096		Standard Black Steel Carrier Pipe (33 61 13 00-0053) Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0097	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	230.05 4.04 40.38	21.12
33 61 13 00-0098	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	252.42 4.44 44.41	22.79
33 61 13 00-0099	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	282.34 5.00 50.02	24.19
33 61 13 00-0100	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	302.46 5.37 53.68	25.56
33 61 13 00-0101	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	316.76 5.61 56.12	27.13
33 61 13 00-0102	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	349.70 6.10 61.00	33.54
33 61 13 00-0103	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	383.96 6.59 65.88	40.94
33 61 13 00-0104	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	484.28 8.30 82.95	52.13

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0105	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	615.80	63.85
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	10.61	
		<i>For Schedule 80 Pipe, Add</i>	106.13	
33 61 13 00-0106	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	715.80	74.81
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	12.32	
		<i>For Schedule 80 Pipe, Add</i>	123.21	
33 61 13 00-0107	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,017.15	90.39
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	17.93	
		<i>For Schedule 80 Pipe, Add</i>	179.33	
33 61 13 00-0108	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,326.74	107.56
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	23.67	
		<i>For Schedule 80 Pipe, Add</i>	236.66	
33 61 13 00-0109	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,652.61	132.38
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	29.52	
		<i>For Schedule 80 Pipe, Add</i>	295.22	
33 61 13 00-0110		Preinsulated Black Steel Fittings (33 61 13 00-0052) Note: No excavation or backfill.		
33 61 13 00-0111		Elbows (33 61 13 00-0110)		
33 61 13 00-0112		Elbows (33 61 13 00-0111) Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0113	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,382.19	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	25.11	
33 61 13 00-0114	EA	1" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,421.53	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	25.70	
33 61 13 00-0115	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,623.60	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	29.24	
33 61 13 00-0116	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,792.38	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	31.90	
33 61 13 00-0117	EA	2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,957.47	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	33.23	
33 61 13 00-0118	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,160.68	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	34.56	
33 61 13 00-0119	EA	3" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,500.78	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	39.88	
33 61 13 00-0120	EA	4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,917.99	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	46.52	
33 61 13 00-0121	EA	5" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,624.23	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	59.82	
33 61 13 00-0122	EA	6" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,061.93	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	67.94	
33 61 13 00-0123	EA	8" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,798.56	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	98.22	
33 61 13 00-0124	EA	10" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,604.66	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	125.54	
33 61 13 00-0125	EA	12" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,901.76	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	166.16	
33 61 13 00-0126		Elbows (33 61 13 00-0111) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0127	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,476.35	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	26.99	
33 61 13 00-0128	EA	1" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,517.90	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	27.63	
33 61 13 00-0129	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,733.26	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	31.44	
33 61 13 00-0130	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,912.02	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	34.30	



		Utilities	33	33
		Hydronic and Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0131	EA	2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2,082.09 35.72	
33 61 13 00-0132	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2,290.29 37.15	
33 61 13 00-0133	EA	3" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2,650.32 42.87	
33 61 13 00-0134	EA	4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	3,092.45 50.01	
33 61 13 00-0135	EA	5" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	3,848.54 64.30	
33 61 13 00-0136	EA	6" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	4,316.71 73.04	
33 61 13 00-0137	EA	8" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6,166.89 105.59	
33 61 13 00-0138	EA	10" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	8,075.45 134.96	
33 61 13 00-0139	EA	12" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	10,524.86 178.62	
33 61 13 00-0140		Elbows (33 61 13 00-0111) Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0141	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1,570.50 28.87	
33 61 13 00-0142	EA	1" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1,614.27 29.55	
33 61 13 00-0143	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1,842.93 33.63	
33 61 13 00-0144	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2,031.65 36.69	
33 61 13 00-0145	EA	2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2,206.71 38.22	
33 61 13 00-0146	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2,419.89 39.75	
33 61 13 00-0147	EA	3" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2,799.87 45.86	
33 61 13 00-0148	EA	4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	3,266.92 53.50	
33 61 13 00-0149	EA	5" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	4,072.86 68.79	
33 61 13 00-0150	EA	6" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	4,571.50 78.13	
33 61 13 00-0151	EA	8" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6,535.21 112.95	
33 61 13 00-0152	EA	10" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	8,546.23 144.37	
33 61 13 00-0153	EA	12" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	11,147.96 191.08	
33 61 13 00-0154		Elbows (33 61 13 00-0111) Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0155	EA	3/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1,664.66 30.76	
33 61 13 00-0156	EA	1" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1,710.65 31.48	
33 61 13 00-0157	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1,952.59 35.82	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0158	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,151.29	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	39.08	
33 61 13 00-0159	EA	2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,331.33	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	40.71	
33 61 13 00-0160	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,549.50	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	42.34	
33 61 13 00-0161	EA	3" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,949.41	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	48.85	
33 61 13 00-0162	EA	4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,441.39	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	56.99	
33 61 13 00-0163	EA	5" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,297.17	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	73.28	
33 61 13 00-0164	EA	6" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,826.27	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	83.23	
33 61 13 00-0165	EA	8" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,903.53	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	120.32	
33 61 13 00-0166	EA	10" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,017.02	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	153.79	
33 61 13 00-0167	EA	12" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	11,771.06	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	203.55	
33 61 13 00-0168		Tees (33 61 13 00-0110)		
33 61 13 00-0169		Tees (33 61 13 00-0168)		
		Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0170	EA	3/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,054.38	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	37.29	
33 61 13 00-0171	EA	1" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,112.83	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	38.16	
33 61 13 00-0172	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,413.24	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	43.43	
33 61 13 00-0173	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,664.40	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	47.38	
33 61 13 00-0174	EA	2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,910.74	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	49.35	
33 61 13 00-0175	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,214.32	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	51.32	
33 61 13 00-0176	EA	3" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,721.25	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	59.22	
33 61 13 00-0177	EA	4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,342.08	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	69.09	
33 61 13 00-0178	EA	5" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,394.82	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	88.83	
33 61 13 00-0179	EA	6" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,042.87	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	100.89	
33 61 13 00-0180	EA	8" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	8,622.55	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	145.86	
33 61 13 00-0181	EA	10" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	11,315.17	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	186.43	
33 61 13 00-0182	EA	12" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	14,728.01	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	246.75	
33 61 13 00-0183		Tees (33 61 13 00-0168)		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0184	EA	3/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,194.21	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	40.08	
33 61 13 00-0185	EA	1" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,255.94	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	41.03	



		Utilities	33	33
		Hydronic and Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0186	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,576.09	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	46.68	
33 61 13 00-0187	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,842.06	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	50.93	
33 61 13 00-0188	EA	2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,095.80	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	53.05	
33 61 13 00-0189	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,406.79	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	55.17	
33 61 13 00-0190	EA	3" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,943.32	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	63.66	
33 61 13 00-0191	EA	4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,601.17	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	74.27	
33 61 13 00-0192	EA	5" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,727.93	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	95.49	
33 61 13 00-0193	EA	6" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,421.22	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	108.46	
33 61 13 00-0194	EA	8" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,169.51	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	156.79	
33 61 13 00-0195	EA	10" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	12,014.29	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	200.41	
33 61 13 00-0196	EA	12" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	15,653.32	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	265.25	
33 61 13 00-0197		Tees (33 61 13 00-0168)		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0198	EA	3/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,334.03	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	42.88	
33 61 13 00-0199	EA	1" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,399.06	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	43.89	
33 61 13 00-0200	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,738.94	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	49.94	
33 61 13 00-0201	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,019.72	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	54.48	
33 61 13 00-0202	EA	2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,280.86	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	56.75	
33 61 13 00-0203	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,599.25	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	59.02	
33 61 13 00-0204	EA	3" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,165.39	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	68.10	
33 61 13 00-0205	EA	4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,860.25	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	79.45	
33 61 13 00-0206	EA	5" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,061.04	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	102.15	
33 61 13 00-0207	EA	6" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,799.56	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	116.03	
33 61 13 00-0208	EA	8" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,716.47	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	167.73	
33 61 13 00-0209	EA	10" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	12,713.40	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	214.40	
33 61 13 00-0210	EA	12" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	16,578.63	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	283.76	
33 61 13 00-0211		Tees (33 61 13 00-0168)		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0212	EA	3/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,473.85	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	45.68	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0213	EA	1" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,542.17	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	46.75	
33 61 13 00-0214	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,901.80	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	53.20	
33 61 13 00-0215	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,197.38	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	58.04	
33 61 13 00-0216	EA	2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,465.92	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	60.45	
33 61 13 00-0217	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,791.71	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	62.87	
33 61 13 00-0218	EA	3" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,387.47	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	72.54	
33 61 13 00-0219	EA	4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,119.33	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	84.63	
33 61 13 00-0220	EA	5" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,394.15	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	108.82	
33 61 13 00-0221	EA	6" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,177.91	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	123.59	
33 61 13 00-0222	EA	8" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	10,263.43	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	178.67	
33 61 13 00-0223	EA	10" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	13,412.52	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	228.38	
33 61 13 00-0224	EA	12" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	17,503.93	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	302.27	
33 61 13 00-0225		Reducers (33 61 13 00-0110)		
33 61 13 00-0226		Reducers (33 61 13 00-0225)		
		Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0227	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,156.12	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	20.84	
33 61 13 00-0228	EA	1" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,189.39	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	21.33	
33 61 13 00-0229	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,358.89	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	24.27	
33 61 13 00-0230	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,501.40	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	26.48	
33 61 13 00-0231	EA	2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,645.29	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	27.58	
33 61 13 00-0232	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,833.37	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	28.69	
33 61 13 00-0233	EA	3" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,115.20	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	33.10	
33 61 13 00-0234	EA	4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,463.09	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	38.62	
33 61 13 00-0235	EA	5" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,052.65	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	49.65	
33 61 13 00-0236	EA	6" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,418.18	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	56.39	
33 61 13 00-0237	EA	8" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,875.14	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	81.52	
33 61 13 00-0238	EA	10" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,405.35	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	104.20	
33 61 13 00-0239	EA	12" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	8,327.59	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	137.91	
33 61 13 00-0240		Reducers (33 61 13 00-0225)		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		



		Utilities	33	33
		Hydronic and Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0241	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,234.27	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	22.40	
33 61 13 00-0242	EA	1" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,269.38	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	22.93	
33 61 13 00-0243	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,449.91	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	26.09	
33 61 13 00-0244	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,600.70	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	28.47	
33 61 13 00-0245	EA	2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,748.72	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	29.65	
33 61 13 00-0246	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,940.94	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	30.84	
33 61 13 00-0247	EA	3" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,239.32	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	35.58	
33 61 13 00-0248	EA	4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,607.89	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	41.51	
33 61 13 00-0249	EA	5" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,238.83	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	53.37	
33 61 13 00-0250	EA	6" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,629.64	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	60.62	
33 61 13 00-0251	EA	8" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,180.86	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	87.64	
33 61 13 00-0252	EA	10" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,796.11	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	112.02	
33 61 13 00-0253	EA	12" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	8,844.77	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	148.26	
33 61 13 00-0254		Reducers (33 61 13 00-0225)		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0255	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,312.42	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	23.97	
33 61 13 00-0256	EA	1" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,349.37	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	24.53	
33 61 13 00-0257	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,540.94	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	27.91	
33 61 13 00-0258	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,700.00	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	30.45	
33 61 13 00-0259	EA	2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,852.16	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	31.72	
33 61 13 00-0260	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,048.52	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	32.99	
33 61 13 00-0261	EA	3" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,363.44	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	38.06	
33 61 13 00-0262	EA	4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,752.70	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	44.41	
33 61 13 00-0263	EA	5" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,425.01	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	57.10	
33 61 13 00-0264	EA	6" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,841.11	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	64.85	
33 61 13 00-0265	EA	8" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,486.55	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	93.75	
33 61 13 00-0266	EA	10" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,186.86	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	119.83	
33 61 13 00-0267	EA	12" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,361.94	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	158.60	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0268 Reducers (33 61 13 00-0225)					
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.					
33 61 13 00-0269	EA	3/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,390.57		
		For High-Density Polyethylene (HDPE) Jacket, Add	25.53		
33 61 13 00-0270	EA	1" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,429.36		
		For High-Density Polyethylene (HDPE) Jacket, Add	26.13		
33 61 13 00-0271	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,631.96		
		For High-Density Polyethylene (HDPE) Jacket, Add	29.73		
33 61 13 00-0272	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,799.29		
		For High-Density Polyethylene (HDPE) Jacket, Add	32.44		
33 61 13 00-0273	EA	2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,955.59		
		For High-Density Polyethylene (HDPE) Jacket, Add	33.79		
33 61 13 00-0274	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,156.09		
		For High-Density Polyethylene (HDPE) Jacket, Add	35.14		
33 61 13 00-0275	EA	3" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,487.57		
		For High-Density Polyethylene (HDPE) Jacket, Add	40.55		
33 61 13 00-0276	EA	4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,897.51		
		For High-Density Polyethylene (HDPE) Jacket, Add	47.30		
33 61 13 00-0277	EA	5" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,611.19		
		For High-Density Polyethylene (HDPE) Jacket, Add	60.82		
33 61 13 00-0278	EA	6" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,052.57		
		For High-Density Polyethylene (HDPE) Jacket, Add	69.08		
33 61 13 00-0279	EA	8" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,792.25		
		For High-Density Polyethylene (HDPE) Jacket, Add	99.86		
33 61 13 00-0280	EA	10" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,577.61		
		For High-Density Polyethylene (HDPE) Jacket, Add	127.65		
33 61 13 00-0281	EA	12" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,879.11		
		For High-Density Polyethylene (HDPE) Jacket, Add	168.94		
33 61 13 00-0282 Preinsulated Type K Copper Pipe (33 61 13 00-0052)					
Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.					
33 61 13 00-0283 Type K Copper Carrier Pipe (33 61 13 00-0282)					
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.					
33 61 13 00-0284	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	49.13	18.49	
		For High-Density Polyethylene (HDPE) Jacket, Add	0.43		
33 61 13 00-0285	LF	1" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	53.48	19.96	
		For High-Density Polyethylene (HDPE) Jacket, Add	0.47		
33 61 13 00-0286	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	58.30	21.19	
		For High-Density Polyethylene (HDPE) Jacket, Add	0.53		
33 61 13 00-0287	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	62.03	22.39	
		For High-Density Polyethylene (HDPE) Jacket, Add	0.57		
33 61 13 00-0288	LF	2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	65.39	23.77	
		For High-Density Polyethylene (HDPE) Jacket, Add	0.60		
33 61 13 00-0289	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	76.39	29.39	
		For High-Density Polyethylene (HDPE) Jacket, Add	0.65		
33 61 13 00-0290	LF	3" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	88.69	35.85	
		For High-Density Polyethylene (HDPE) Jacket, Add	0.70		
33 61 13 00-0291	LF	4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	112.46	45.67	
		For High-Density Polyethylene (HDPE) Jacket, Add	0.88		
33 61 13 00-0292	LF	5" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	140.13	55.92	
		For High-Density Polyethylene (HDPE) Jacket, Add	1.13		
33 61 13 00-0293	LF	6" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	163.57	65.52	
		For High-Density Polyethylene (HDPE) Jacket, Add	1.31		
33 61 13 00-0294	LF	8" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	213.78	79.49	
		For High-Density Polyethylene (HDPE) Jacket, Add	1.90		
33 61 13 00-0295	LF	10" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	266.75	94.22	
		For High-Density Polyethylene (HDPE) Jacket, Add	2.51		



		Utilities	33	33
		Hydronic and Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0296	LF	12" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	330.39 3.13	115.94
33 61 13 00-0297 Type K Copper Carrier Pipe (33 61 13 00-0282)				
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0298	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	51.27 0.47	18.49
33 61 13 00-0299	LF	1" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	55.83 0.52	19.96
33 61 13 00-0300	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	60.95 0.58	21.19
33 61 13 00-0301	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	64.88 0.63	22.39
33 61 13 00-0302	LF	2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	68.36 0.65	23.77
33 61 13 00-0303	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	79.63 0.71	29.39
33 61 13 00-0304	LF	3" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	92.18 0.77	35.85
33 61 13 00-0305	LF	4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	116.86 0.97	45.67
33 61 13 00-0306	LF	5" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	145.76 1.24	55.92
33 61 13 00-0307	LF	6" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	170.10 1.44	65.52
33 61 13 00-0308	LF	8" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	223.29 2.09	79.49
33 61 13 00-0309	LF	10" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	279.30 2.76	94.22
33 61 13 00-0310	LF	12" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	346.04 3.44	115.94
33 61 13 00-0311 Type K Copper Carrier Pipe (33 61 13 00-0282)				
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0312	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	52.34 0.49	18.49
33 61 13 00-0313	LF	1" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	57.01 0.54	19.96
33 61 13 00-0314	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	62.28 0.61	21.19
33 61 13 00-0315	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	66.30 0.65	22.39
33 61 13 00-0316	LF	2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	69.85 0.68	23.77
33 61 13 00-0317	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	81.25 0.74	29.39
33 61 13 00-0318	LF	3" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	93.93 0.80	35.85
33 61 13 00-0319	LF	4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	119.06 1.01	45.67
33 61 13 00-0320	LF	5" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	148.57 1.29	55.92
33 61 13 00-0321	LF	6" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	173.37 1.50	65.52
33 61 13 00-0322	LF	8" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	228.05 2.19	79.18

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0323	LF	10" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	285.57	94.22
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2.89	
33 61 13 00-0324	LF	12" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	353.87	115.94
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	3.60	
33 61 13 00-0325 Type K Copper Carrier Pipe (33 61 13 00-0262)				
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0326	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	53.95	18.49
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	0.52	
33 61 13 00-0327	LF	1" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	58.77	19.96
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	0.58	
33 61 13 00-0328	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	64.27	21.19
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	0.65	
33 61 13 00-0329	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	68.44	22.39
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	0.70	
33 61 13 00-0330	LF	2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	72.08	23.77
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	0.73	
33 61 13 00-0331	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	83.67	29.39
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	0.79	
33 61 13 00-0332	LF	3" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	96.55	35.85
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	0.86	
33 61 13 00-0333	LF	4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	122.36	45.67
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1.08	
33 61 13 00-0334	LF	5" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	152.79	55.92
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1.38	
33 61 13 00-0335	LF	6" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	178.27	65.52
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1.60	
33 61 13 00-0336	LF	8" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	235.18	79.18
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2.33	
33 61 13 00-0337	LF	10" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	294.98	94.22
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	3.07	
33 61 13 00-0338	LF	12" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	365.61	115.94
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	3.84	
33 61 13 00-0339 Preinsulated Copper Fittings (33 61 13 00-0052)				
33 61 13 00-0340 Elbows (33 61 13 00-0339)				
33 61 13 00-0341 Elbows (33 61 13 00-0340)				
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0342	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	354.27	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	4.88	
33 61 13 00-0343	EA	1" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	368.54	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	5.00	
33 61 13 00-0344	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	424.59	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	5.69	
33 61 13 00-0345	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	481.61	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.20	
33 61 13 00-0346	EA	2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	580.29	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.46	
33 61 13 00-0347	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	712.10	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.72	
33 61 13 00-0348	EA	3" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	828.33	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.75	
33 61 13 00-0349	EA	4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	966.75	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	9.04	
33 61 13 00-0350	EA	5" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,132.11	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	11.63	



		Utilities	33	33
		Hydronic and Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0351	EA	6" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,238.56	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	13.21	
33 61 13 00-0352	EA	8" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,726.53	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	19.09	
33 61 13 00-0353	EA	10" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,374.51	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	24.41	
33 61 13 00-0354	EA	12" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,000.94	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	32.30	
33 61 13 00-0355		Elbows (33 61 13 00-0340) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0356	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	372.58	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	5.25	
33 61 13 00-0357	EA	1" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	387.27	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	5.37	
33 61 13 00-0358	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	445.91	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.11	
33 61 13 00-0359	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	504.87	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.67	
33 61 13 00-0360	EA	2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	604.52	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.94	
33 61 13 00-0361	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	737.30	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.22	
33 61 13 00-0362	EA	3" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	857.40	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	8.33	
33 61 13 00-0363	EA	4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,000.66	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	9.72	
33 61 13 00-0364	EA	5" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,175.72	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	12.50	
33 61 13 00-0365	EA	6" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,288.09	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	14.20	
33 61 13 00-0366	EA	8" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,798.13	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	20.53	
33 61 13 00-0367	EA	10" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,466.03	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	26.24	
33 61 13 00-0368	EA	12" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,122.07	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	34.72	
33 61 13 00-0369		Elbows (33 61 13 00-0340) Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0370	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	390.88	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	5.61	
33 61 13 00-0371	EA	1" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	406.00	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	5.75	
33 61 13 00-0372	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	467.23	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.54	
33 61 13 00-0373	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	528.12	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.13	
33 61 13 00-0374	EA	2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	628.74	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.43	
33 61 13 00-0375	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	762.49	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.73	
33 61 13 00-0376	EA	3" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	886.48	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	8.92	
33 61 13 00-0377	EA	4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,034.58	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	10.40	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0378	EA	5" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,219.32	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	13.37	
33 61 13 00-0379	EA	6" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,337.89	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	15.19	
33 61 13 00-0380	EA	8" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,869.56	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	21.96	
33 61 13 00-0381	EA	10" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,557.07	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	28.07	
33 61 13 00-0382	EA	12" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,243.54	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	37.15	
33 61 13 00-0383		Elbows (33 61 13 00-0340)		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0384	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	409.18	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	5.98	
33 61 13 00-0385	EA	1" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	424.74	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.12	
33 61 13 00-0386	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	488.55	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.96	
33 61 13 00-0387	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	551.38	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.60	
33 61 13 00-0388	EA	2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	652.97	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.91	
33 61 13 00-0389	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	787.69	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	8.23	
33 61 13 00-0390	EA	3" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	915.55	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	9.50	
33 61 13 00-0391	EA	4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,068.49	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	11.08	
33 61 13 00-0392	EA	5" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,262.93	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	14.24	
33 61 13 00-0393	EA	6" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,387.41	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	16.18	
33 61 13 00-0394	EA	8" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,941.16	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	23.39	
33 61 13 00-0395	EA	10" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,648.60	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	29.90	
33 61 13 00-0396	EA	12" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,364.67	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	39.57	
33 61 13 00-0397		Tees (33 61 13 00-0339)		
33 61 13 00-0398		Tees (33 61 13 00-0397)		
		Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0399	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	527.70	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.25	
33 61 13 00-0400	EA	1" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	548.90	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.42	
33 61 13 00-0401	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	632.42	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	8.44	
33 61 13 00-0402	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	717.55	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	9.21	
33 61 13 00-0403	EA	2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	865.10	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	9.59	
33 61 13 00-0404	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,062.47	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	9.98	
33 61 13 00-0405	EA	3" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,236.73	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	11.51	



		Utilities	33	33
		Hydronic and Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0406	EA	4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,443.39	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	13.43	
33 61 13 00-0407	EA	5" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,692.43	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	17.27	
33 61 13 00-0408	EA	6" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,848.61	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	19.61	
33 61 13 00-0409	EA	8" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,573.86	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	28.35	
33 61 13 00-0410	EA	10" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,545.40	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	36.24	
33 61 13 00-0411	EA	12" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,477.18	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	47.97	
33 61 13 00-0412		Tees (33 61 13 00-0397)		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0413	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	554.88	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.79	
33 61 13 00-0414	EA	1" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	576.72	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.98	
33 61 13 00-0415	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	664.08	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	9.08	
33 61 13 00-0416	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	752.08	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	9.90	
33 61 13 00-0417	EA	2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	901.08	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	10.31	
33 61 13 00-0418	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,099.88	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	10.73	
33 61 13 00-0419	EA	3" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,279.90	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	12.38	
33 61 13 00-0420	EA	4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,493.76	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	14.44	
33 61 13 00-0421	EA	5" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,757.19	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	18.56	
33 61 13 00-0422	EA	6" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,922.16	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	21.08	
33 61 13 00-0423	EA	8" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,680.18	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	30.48	
33 61 13 00-0424	EA	10" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,681.31	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	38.96	
33 61 13 00-0425	EA	12" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,657.06	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	51.56	
33 61 13 00-0426		Tees (33 61 13 00-0397)		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0427	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	582.06	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	8.34	
33 61 13 00-0428	EA	1" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	604.54	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	8.53	
33 61 13 00-0429	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	695.74	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	9.71	
33 61 13 00-0430	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	786.62	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	10.59	
33 61 13 00-0431	EA	2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	937.05	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	11.03	
33 61 13 00-0432	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,137.30	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	11.47	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0433	EA	3" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,323.07	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	13.24	
33 61 13 00-0434	EA	4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,544.12	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	15.45	
33 61 13 00-0435	EA	5" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,821.94	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	19.86	
33 61 13 00-0436	EA	6" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,996.13	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	22.56	
33 61 13 00-0437	EA	8" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,785.40	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	32.61	
33 61 13 00-0438	EA	10" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,814.57	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	41.68	
33 61 13 00-0439	EA	12" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,840.01	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	55.16	
33 61 13 00-0440		Tees (33 61 13 00-0397)		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0441	EA	3/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	609.24	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	8.88	
33 61 13 00-0442	EA	1" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	632.36	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	9.09	
33 61 13 00-0443	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	727.40	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	10.34	
33 61 13 00-0444	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	821.15	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	11.28	
33 61 13 00-0445	EA	2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	973.03	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	11.75	
33 61 13 00-0446	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,174.71	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	12.22	
33 61 13 00-0447	EA	3" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,366.24	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	14.10	
33 61 13 00-0448	EA	4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,594.49	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	16.45	
33 61 13 00-0449	EA	5" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,886.70	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	21.15	
33 61 13 00-0450	EA	6" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,069.68	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	24.03	
33 61 13 00-0451	EA	8" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,891.73	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	34.73	
33 61 13 00-0452	EA	10" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,950.48	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	44.40	
33 61 13 00-0453	EA	12" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,019.88	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	58.76	
33 61 13 00-0454		Reducers (33 61 13 00-0339)		
33 61 13 00-0455		Reducers (33 61 13 00-0454)		
		Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0456	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	301.79	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	4.05	
33 61 13 00-0457	EA	1" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	314.17	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	4.15	
33 61 13 00-0458	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	362.24	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	4.72	
33 61 13 00-0459	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	411.67	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	5.15	
33 61 13 00-0460	EA	2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	499.54	
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	5.36	



		Utilities	33	33
		Hydronic and Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0461	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	625.83 5.58	
33 61 13 00-0462	EA	3" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	721.91 6.43	
33 61 13 00-0463	EA	4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	838.19 7.51	
33 61 13 00-0464	EA	5" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	978.41 9.65	
33 61 13 00-0465	EA	6" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1,068.65 10.96	
33 61 13 00-0466	EA	8" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1,487.14 15.85	
33 61 13 00-0467	EA	10" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2,052.24 20.26	
33 61 13 00-0468	EA	12" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2,585.68 26.81	
33 61 13 00-0469		Reducers (33 61 13 00-0454) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0470	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	316.99 4.36	
33 61 13 00-0471	EA	1" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	329.72 4.46	
33 61 13 00-0472	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	379.93 5.07	
33 61 13 00-0473	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	430.97 5.53	
33 61 13 00-0474	EA	2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	519.65 5.76	
33 61 13 00-0475	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	646.75 5.99	
33 61 13 00-0476	EA	3" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	746.04 6.92	
33 61 13 00-0477	EA	4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	866.34 8.07	
33 61 13 00-0478	EA	5" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1,014.60 10.38	
33 61 13 00-0479	EA	6" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1,109.76 11.78	
33 61 13 00-0480	EA	8" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	1,546.57 17.04	
33 61 13 00-0481	EA	10" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2,128.20 21.78	
33 61 13 00-0482	EA	12" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	2,686.22 28.82	
33 61 13 00-0483		Reducers (33 61 13 00-0454) Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0484	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	332.18 4.66	
33 61 13 00-0485	EA	1" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	345.27 4.77	
33 61 13 00-0486	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	397.63 5.43	
33 61 13 00-0487	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	450.27 5.92	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0488	EA	2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	539.75		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.17		
33 61 13 00-0489	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	667.66		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.41		
33 61 13 00-0490	EA	3" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	770.17		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.40		
33 61 13 00-0491	EA	4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	894.49		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	8.63		
33 61 13 00-0492	EA	5" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,050.80		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	11.10		
33 61 13 00-0493	EA	6" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,151.10		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	12.61		
33 61 13 00-0494	EA	8" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,605.60		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	18.22		
33 61 13 00-0495	EA	10" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,203.77		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	23.29		
33 61 13 00-0496	EA	12" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,787.03		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	30.83		
33 61 13 00-0497		Reducers (33 61 13 00-0454)			
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.			
33 61 13 00-0498	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	347.37		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	4.96		
33 61 13 00-0499	EA	1" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	360.82		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	5.08		
33 61 13 00-0500	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	415.32		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	5.78		
33 61 13 00-0501	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	469.57		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.31		
33 61 13 00-0502	EA	2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	559.86		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.57		
33 61 13 00-0503	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	688.57		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	6.83		
33 61 13 00-0504	EA	3" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	794.30		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	7.88		
33 61 13 00-0505	EA	4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	922.64		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	9.20		
33 61 13 00-0506	EA	5" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,086.99		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	11.82		
33 61 13 00-0507	EA	6" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,192.21		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	13.43		
33 61 13 00-0508	EA	8" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,665.03		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	19.41		
33 61 13 00-0509	EA	10" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,279.73		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	24.81		
33 61 13 00-0510	EA	12" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,887.57		
		<i>For High-Density Polyethylene (HDPE) Jacket, Add</i>	32.84		
33 61 13 00-0511		Preinsulated Ductile Iron Carrier Pipe (33 61 13 00-0052)			
		Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.			
33 61 13 00-0512		Ductile Iron Carrier Pipe (33 61 13 00-0511)			
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.			
33 61 13 00-0513	LF	4" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	427.99		59.00
33 61 13 00-0514	LF	6" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	631.71		84.73
33 61 13 00-0515	LF	8" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	891.50		102.38
33 61 13 00-0516	LF	10" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	1,158.83		121.83



		Utilities	33	33
		Hydronic and Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0517	LF	12" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	1,442.82	149.94
33 61 13 00-0518 Ductile Iron Carrier Pipe (33 61 13 00-0511)				
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0519	LF	4" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	467.67	59.05
33 61 13 00-0520	LF	6" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	690.66	84.73
33 61 13 00-0521	LF	8" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	977.29	102.38
33 61 13 00-0522	LF	10" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	1,272.04	121.83
33 61 13 00-0523	LF	12" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	1,584.06	149.95
33 61 13 00-0524	LF	14" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	1,746.33	159.99
33 61 13 00-0525	LF	16" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	1,996.17	171.41
33 61 13 00-0526	LF	18" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	2,279.09	182.85
33 61 13 00-0527	LF	20" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	2,530.68	194.28
33 61 13 00-0528	LF	24" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	3,056.40	211.42
33 61 13 00-0529 Preinsulated Ductile Iron Fittings (33 61 13 00-0529)				
33 61 13 00-0530 Elbows (33 61 13 00-0529)				
33 61 13 00-0531 Elbows (33 61 13 00-0530)				
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0532	EA	4" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	4,105.22	
33 61 13 00-0533	EA	6" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	5,795.68	
33 61 13 00-0534	EA	8" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	8,304.96	
33 61 13 00-0535	EA	10" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	10,808.32	
33 61 13 00-0536	EA	12" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	14,141.91	
33 61 13 00-0537 Elbows (33 61 13 00-0530)				
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0538	EA	4" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	4,595.47	
33 61 13 00-0539	EA	6" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	6,511.60	
33 61 13 00-0540	EA	8" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	9,339.94	
33 61 13 00-0541	EA	10" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	12,131.22	
33 61 13 00-0542	EA	12" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	15,892.81	
33 61 13 00-0543	EA	14" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	19,460.99	
33 61 13 00-0544	EA	16" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	23,276.85	
33 61 13 00-0545	EA	18" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	29,136.09	
33 61 13 00-0546	EA	20" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	36,763.57	
33 61 13 00-0547	EA	24" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	46,523.59	
33 61 13 00-0548 Tees (33 61 13 00-0529)				
33 61 13 00-0549 Tees (33 61 13 00-0548)				
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0550	EA	4" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	6,105.13	
33 61 13 00-0551	EA	6" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	8,617.49	
33 61 13 00-0552	EA	8" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	12,344.55	
33 61 13 00-0553	EA	10" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	16,072.61	
33 61 13 00-0554	EA	12" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket.....	21,024.62	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0555 Tees (33 61 13 00-0548)				
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0556	EA	4" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	6,833.15	
33 61 13 00-0557	EA	6" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	9,680.63	
33 61 13 00-0558	EA	8" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	13,881.50	
33 61 13 00-0559	EA	10" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	18,037.12	
33 61 13 00-0560	EA	12" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	23,624.72	
33 61 13 00-0561	EA	14" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	28,743.61	
33 61 13 00-0562	EA	16" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	34,385.43	
33 61 13 00-0563	EA	18" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	43,041.39	
33 61 13 00-0564	EA	20" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	54,321.26	
33 61 13 00-0565	EA	24" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	68,714.94	
33 61 13 00-0566 Reducers (33 61 13 00-0529)				
33 61 13 00-0567 Reducers (33 61 13 00-0566)				
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0568	EA	4" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	3,448.50	
33 61 13 00-0569	EA	6" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	4,857.19	
33 61 13 00-0570	EA	8" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	6,955.46	
33 61 13 00-0571	EA	10" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	9,064.40	
33 61 13 00-0572	EA	12" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	11,846.91	
33 61 13 00-0573 Reducers (33 61 13 00-0566)				
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0574	EA	4" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	3,855.41	
33 61 13 00-0575	EA	6" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	5,451.39	
33 61 13 00-0576	EA	8" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	7,814.47	
33 61 13 00-0577	EA	10" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	10,162.40	
33 61 13 00-0578	EA	12" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	13,300.16	
33 61 13 00-0579	EA	14" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	16,166.26	
33 61 13 00-0580	EA	16" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	19,326.64	
33 61 13 00-0581	EA	18" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	24,116.53	
33 61 13 00-0582	EA	20" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	30,533.58	
33 61 13 00-0583	EA	24" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High-Density Polyethylene (HDPE) Jacket	38,676.92	
33 61 13 00-0584 Tempered Water Piping Pre-Insulated (33 61 13 00-0052)				
33 61 13 00-0585 Fiberglass Reinforced Polyester (FRP) Carrier And Casing, 1" Polyurethane Insulation (33 61 13 00-0584)				
33 61 13 00-0586	LF	4" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	149.85	24.59
33 61 13 00-0587	LF	6" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	192.92	26.54
33 61 13 00-0588	LF	8" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	270.48	29.40
33 61 13 00-0589	LF	10" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	373.21	36.75
33 61 13 00-0590	LF	12" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	478.83	45.32
33 61 13 00-0591 Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing, 1" Polyurethane Insulation (33 61 13 00-0584)				
33 61 13 00-0592	LF	4" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	70.78	26.54
33 61 13 00-0593	LF	6" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	85.28	26.54



		Utilities	33	33
		Hydronic and Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0594	LF	8" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	99.05	26.54
33 61 13 00-0595	LF	10" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	118.45	31.37
33 61 13 00-0596	LF	12" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	143.13	39.82
33 61 13 00-0597 Polyvinyl Chloride (PVC) Carrier And Casing, 1" Polyurethane Insulation (33 61 13 00-0594)				
33 61 13 00-0598	LF	4" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	70.77	26.54
33 61 13 00-0599	LF	6" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	85.28	26.54
33 61 13 00-0600	LF	8" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	97.83	26.54
33 61 13 00-0601	LF	10" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	118.44	31.37
33 61 13 00-0602	LF	12" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	143.13	39.82

33 70 Electrical Utilities (33)

33 71 Electrical Utility Transmission and Distribution (33 70)

33 71 19 Electrical Underground Ducts, Ductbanks and Manholes (33 71)

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 13 Electrical Manholes and Handholes (33 71 19)

33 71 19 13-0001 Electrical Handholes And Pull Boxes (33 71 19 13)

33 71 19 13-0002 Electrical Pull Boxes (33 71 19 13-0001)

See CSI section 33 05 63 00-0427 for handholes.

33 71 19 13-0003	EA	24" x 36" x 24", Electric Pull Boxes, Precast Concrete	2,592.40	541.87
33 71 19 13-0004	EA	24" x 36" x 36", Electric Pull Boxes, Precast Concrete	3,141.12	600.63
33 71 19 13-0005	EA	30" x 48" x 36", Electric Pull Boxes, Precast Concrete	3,668.36	652.85
33 71 19 13-0006	EA	36" x 72" x 24", Electric Pull Boxes, Precast Concrete	5,877.72	783.42
33 71 19 13-0007	EA	36" x 60" x 36", Electric Pull Boxes, Precast Concrete	6,308.80	783.42
33 71 19 13-0008	EA	48" x 48" x 36", Electric Pull Boxes, Precast Concrete	6,805.09	816.06
33 71 19 13-0009	EA	48" x 60" x 48", Electric Pull Boxes, Precast Concrete	7,843.11	913.99
33 71 19 13-0010	EA	18" x 28" x 34", Electric Pull Boxes, Precast Concrete	2,730.76	600.63
33 71 19 13-0011	EA	14" x 20" x 12", Electric Pull Boxes, Precast Concrete	1,343.00	391.72
33 71 19 13-0012	EA	18" x 28" x 12", Electric Pull Boxes, Precast Concrete	1,716.04	783.42
33 71 19 13-0013	EA	24" x 36" x 12", Electric Pull Boxes, Precast Concrete	2,344.01	913.99
33 71 19 13-0014	EA	24" x 3', Round Electric Pull Boxes, Precast Concrete	1,501.53	228.49
33 71 19 13-0015	EA	30" x 3', Round Electric Pull Boxes, Precast Concrete	1,583.91	244.82

33 71 19 13-0016 Electrical Pull Boxes (CALTRANS) (33 71 19 13-0001)

33 71 19 13-0017	EA	Body, CALTRANS 3-1/2 Precast Concrete Pull Box	156.35	
33 71 19 13-0018	EA	Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	60.85	
33 71 19 13-0019	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	94.24	
33 71 19 13-0020	EA	Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	195.96	
33 71 19 13-0021	EA	Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	301.43	
For Galvanized Steel Cover, Add			51.06	
33 71 19 13-0022	EA	12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box	78.02	
33 71 19 13-0023	EA	Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box	78.02	
33 71 19 13-0024	EA	Body, CALTRANS 5 Precast Concrete Pull Box	224.24	
33 71 19 13-0025	EA	Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	80.82	
33 71 19 13-0026	EA	Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	114.21	
33 71 19 13-0027	EA	Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box	398.78	
For Galvanized Steel Cover, Add			93.61	
33 71 19 13-0028	EA	12" Extension, CALTRANS 5 Precast Concrete Pull Box	109.22	
33 71 19 13-0029	EA	Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box	102.35	
33 71 19 13-0030	EA	Body, CALTRANS 6 Precast Concrete Pull Box	244.21	
33 71 19 13-0031	EA	Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	107.65	
33 71 19 13-0032	EA	Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	141.05	
33 71 19 13-0033	EA	Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box	546.06	
For Galvanized Steel Cover, Add			131.05	
33 71 19 13-0034	EA	12" Extension, CALTRANS 6 Precast Concrete Pull Box	129.19	
33 71 19 13-0035	EA	Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	121.70	
33 71 19 13-0036	EA	6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	166.63	
33 71 19 13-0037	EA	Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	339.20	
33 71 19 13-0038	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	478.66	
33 71 19 13-0039	EA	12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box	154.15	
33 71 19 13-0040	EA	Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	141.67	
33 71 19 13-0041	EA	Body, CALTRANS 5-T Precast Concrete Pull Box	443.91	
33 71 19 13-0042	EA	Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	690.84	
33 71 19 13-0043	EA	12" Extension, CALTRANS 5-T Precast Concrete Pull Box	184.11	
33 71 19 13-0044	EA	Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	179.11	
33 71 19 13-0045	EA	Body, CALTRANS 6-T Precast Concrete Pull Box	626.13	
33 71 19 13-0046	EA	Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box	965.43	
33 71 19 13-0047	EA	12" Extension, CALTRANS 6-T Precast Concrete Pull Box	308.92	
33 71 19 13-0048	EA	Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box	241.52	

33 Utilities**33 70 Electrical Utilities****33 71 Electrical Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0049	Precast Concrete Box Extensions (33 71 19 13-0001)			
33 71 19 13-0050	EA	14" x 20" x 12", Precast Concrete Extension	217.23	47.07
33 71 19 13-0051	EA	18" x 28" x 12", Precast Concrete Extension	273.08	59.63
33 71 19 13-0052	EA	24" x 36" x 12", Precast Concrete Extension	358.05	81.60
33 71 19 13-0053	EA	30" x 48" x 12", Precast Concrete Extension	447.48	112.98
33 71 19 13-0054	EA	36" x 60" x 12", Precast Concrete Extension	696.66	138.09
33 71 19 13-0055	EA	36" x 72" x 12", Precast Concrete Extension	918.91	156.92
33 71 19 13-0056	EA	48" x 48" x 12", Precast Concrete Extension	1,027.13	144.36
33 71 19 13-0057	EA	48" x 60" x 12", Precast Concrete Extension	1,257.96	169.47
33 71 19 13-0058	Electrical Property Line Boxes (33 71 19 13)			
33 71 19 13-0059	EA	3'-6" x 2'-9" x 2' Deep Property Line Box	5,616.23	440.68
33 71 19 13-0060	EA	4'-6" x 3'-6" x 4' Deep Property Line Box	6,615.88	457.00
33 71 19 13-0061	EA	6' x 4' x 5' Deep Property Line Box	7,245.23	554.93
33 71 19 13-0062	EA	11'-6" x 4'-6" x 6' Deep Property Line Box	11,101.95	816.06
33 71 19 13-0063	Manhole Accessories (33 71 19 13)			
33 71 19 13-0064	EA	6" Precast Grade Ring Riser Casting	511.02	165.03
33 71 19 13-0065	EA	12" Precast Grade Ring Riser Casting	553.46	178.79
33 71 19 13-0066	EA	36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D)	2,067.68	275.06
33 71 19 13-0067	EA	42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1)	2,691.17	343.82
33 71 19 13-0068	EA	Cast Iron Adjusting Ring (NEENAH #R-1979)	904.33	183.60
33 71 19 13-0069	EA	Cast Iron Frame And Cover (NEENAH #R-1640-B)	1,137.28	206.29
33 71 19 23	Trenched Electrical Underground Duct and Ductbanks (33 71 19)			
33 71 19 23-0001	Underground Ductbank (33 71 19 23) Note: Installation of single or multiple configuration underground utility raceways assembly to have minimum 3" concrete leveling base and encased in concrete envelope. Based on minimum 100' run, minimum 30" bury depth. Includes installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations. See CSI section 03 30 53 00-0001 for concrete.			
33 71 19 23-0002	Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank (33 71 19 23-0001) Note: Includes appropriate spacers and fittings.			
33 71 19 23-0003	LF	2 At 2", Rigid Galvanized Conduit Duct Bank	36.27	
33 71 19 23-0004	LF	4 At 2", Rigid Galvanized Conduit Duct Bank	72.58	
33 71 19 23-0005	LF	2 At 3", Rigid Galvanized Conduit Duct Bank	74.45	
33 71 19 23-0006	LF	4 At 3", Rigid Galvanized Conduit Duct Bank	149.32	
33 71 19 23-0007	LF	2 At 4", Rigid Galvanized Conduit Duct Bank	109.53	
33 71 19 23-0008	LF	4 At 4", Rigid Galvanized Conduit Duct Bank	220.33	
33 71 19 23-0009	LF	6 At 4", Rigid Galvanized Conduit Duct Bank	331.42	
33 71 19 23-0010	LF	2 At 5", Rigid Galvanized Conduit Duct Bank	203.55	
33 71 19 23-0011	LF	4 At 5", Rigid Galvanized Conduit Duct Bank	405.83	
33 71 19 23-0012	LF	6 At 5", Rigid Galvanized Conduit Duct Bank	625.48	
33 71 19 23-0013	LF	2 At 6", Rigid Galvanized Conduit Duct Bank	289.47	
33 71 19 23-0014	LF	4 At 6", Rigid Galvanized Conduit Duct Bank	581.03	
33 71 19 23-0015	LF	6 At 6", Rigid Galvanized Conduit Duct Bank	863.95	
33 71 19 23-0016	Polyvinyl Chloride (PVC), Type EB-20 Duct Bank System (33 71 19 23-0001) Note: Includes appropriate spacers and fittings.			
33 71 19 23-0017	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	8.79	
33 71 19 23-0018	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	19.34	
33 71 19 23-0019	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	37.10	
33 71 19 23-0020	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	11.63	
33 71 19 23-0021	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	23.23	
33 71 19 23-0022	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	47.19	
33 71 19 23-0023	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	15.53	
33 71 19 23-0024	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	31.06	
33 71 19 23-0025	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	62.17	
33 71 19 23-0026	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	93.23	
33 71 19 23-0027	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	19.56	
33 71 19 23-0028	LF	2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	39.09	
33 71 19 23-0029	LF	4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	75.64	
33 71 19 23-0030	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	107.16	
33 71 19 23-0031	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	34.87	
33 71 19 23-0032	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	52.90	
33 71 19 23-0033	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	106.05	
33 71 19 23-0034	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	171.66	
33 71 19 23-0035	Polyvinyl Chloride (PVC), Type DB-60 Duct Bank System (33 71 19 23-0001) Note: Includes appropriate spacers and fittings.			
33 71 19 23-0036	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	9.76	
33 71 19 23-0037	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	21.36	



		Utilities	33	33
		Electrical Utilities	33 70	
		Electrical Utility Transmission and Distribution	33 71	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 71 19 23-0038	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	40.89		
33 71 19 23-0039	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	12.06		
33 71 19 23-0040	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	24.10		
33 71 19 23-0041	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	48.07		
33 71 19 23-0042	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	15.87		
33 71 19 23-0043	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	31.76		
33 71 19 23-0044	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	63.57		
33 71 19 23-0045	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	95.34		
33 71 19 23-0046	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	20.10		
33 71 19 23-0047	LF	2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	40.15		
33 71 19 23-0048	LF	4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	77.76		
33 71 19 23-0049	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	110.34		
33 71 19 23-0050	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	35.60		
33 71 19 23-0051	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	54.42		
33 71 19 23-0052	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	109.10		
33 71 19 23-0053	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	176.23		
33 71 19 23-0054	Male Or Female Adapters (33 71 19 23-0001)				
33 71 19 23-0055	EA	2" Adapter.....	47.14		
33 71 19 23-0056	EA	3" Adapter.....	67.63		
33 71 19 23-0057	EA	4" Adapter.....	87.26		
33 71 19 23-0058	EA	5" Adapter.....	132.53		
33 71 19 23-0059	EA	6" Adapter.....	164.15		
33 71 19 23-0060	Underground Electrical Concrete Markers (33 71 19 23)				
33 71 19 23-0061	EA	36" x 6" x 6", Underground Electric Concrete Marker	404.63		

END OF SECTION 33

33	33	Utilities
	33 70	Electrical Utilities
	33 71	Electrical Utility Transmission and Distribution



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Transportation		34
Operation and Maintenance of Transportation		34 01
Operation and Maintenance of Railways		34 01 23

34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

34 Transportation

34 01 Operation and Maintenance of Transportation ⁽³⁴⁾

34 01 23 Operation and Maintenance of Railways ^(34 01)

34 01 23 33 Track Realignment ^(34 01 23)

34 01 23 33-0001 Realign Railroad Track ^(34 01 23 33)

34 01 23 33-0002	LF	Removal Of Track Rails And Ties And Re-Install Including New Bolts And Spikes	115.43
34 01 23 33-0003	EA	Removal Of Railroad Track Turnouts And Re-Install Including New Bolts And Spikes	5,657.60

34 01 43 Operation and Maintenance of Bridges ^(34 01)

34 01 43 00-0001 Repair Of Bridge Posts ^(34 01 43)

34 01 43 00-0002	SF	Chipping Of Concrete To Expose Rebar	42.66
34 01 43 00-0003	EA	Removal And Replacement Of Concrete Post, 20" x 20" Square, 36" To 42" High	2,206.74
Note: Includes removal of damaged post, drilling, epoxy injection, rebar, forms and concrete.			
34 01 43 00-0004	EA	Repair Bearing Pad	787.73

34 01 43 00-0005 Repair Of Bridge Rails ^(34 01 43)

34 01 43 00-0006	EA	Repair Concrete Rail Supports	409.75
34 01 43 00-0007	LF	Repair Guardrail	153.66
34 01 43 00-0008	LF	Repair Bridge Parapet Wall	256.09
34 01 43 00-0009	LF	Repair Bridge Rail	97.35
34 01 43 00-0010	LF	Repair Damaged Metal Rail And Posts	51.54
34 01 43 00-0011	LF	Removal And Replacement Of 1-1/2" Galvanized Metal Rail	61.33
34 01 43 00-0012	LF	Removal And Replacement Of 2-1/2" Galvanized Metal Rail	83.85
34 01 43 00-0013	LF	Removal And Replacement Of 3" Galvanized Metal Rail	96.03

34 01 43 00-0014 Repair Of Bridge ^(34 01 43)

34 01 43 00-0015	LF	Repair Of Expansion Joints On Bridge	25.78

34 01 43 00-0016 Repair Of Bridge Parapet ^(34 01 43)

34 01 43 00-0017	DAY	Minimum for Stone Bridge Parapet Repair	2,836.86
Note: Includes removing and resetting of existing stone, new stone, including Capstone. Wet or Dry Mortar. Includes chipping, sandblasting and Jackhammer.			
34 01 43 00-0018	CF	Stone Bridge Parapet Repair Removing And Resetting Existing Stone And Capstone	390.85
Note: Includes removing loose stones and mortar, chipping, sandblasting Jackhammer.			
For Mortar, Add Per CF			50.00
34 01 43 00-0019	CF	Stone Bridge Parapet Repair Using New Stone And Masonry	475.65
Note: Includes removing loose stones and mortar, chipping, sandblasting Jackhammer.			
For Mortar, Add Per CF			50.00
34 01 43 00-0020	SF	Removing and Resetting Existing 24" Capstones	126.08
Note: Includes chipping, jackhammering, sandblasting, cleaning.			
For Mortar, Add Per CF			50.00
34 01 43 00-0021	SF	Removing and Resetting Existing 30" Capstones	157.60
Note: Includes chipping, jackhammering, sandblasting, cleaning.			
For Mortar, Add Per CF			50.00
34 01 43 00-0022	SF	Removing and Resetting Existing 36" Capstones	189.12
Note: Includes chipping, jackhammering, sandblasting, cleaning.			
For Mortar, Add Per CF			50.00

34 05 Common Work Results for Transportation ⁽³⁴⁾

34 05 43 Common Work Results for Bridges ^(34 05)

34 05 43 00-0001 Mobilize Bridge Crew ^(34 05 43)

Note: Excludes mobilize jacking crew.			
34 05 43 00-0002	EA	Mobilize Bridge Crew	1,401.29

34 05 43 00-0003 Remove And Patch Bridge And Structures Concrete ^(34 05 43)

Note: This section is used for repairing areas of concrete decks, floors, verticals and overheads and approximately 1" to 6" deep in connection with bridge and structure repairs. Includes chipping, sandblasting, cleaning, primer, formwork, cement/concrete as listed, finish and debris removal. Excludes scaffolding, saw cutting, disposal and/or concrete pump truck.			

34 05 43 00-0004 Remove And Patch Decks Or Floors ^(34 05 43 00-0003)

Note: For patching decks and floors, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.			
34 05 43 00-0005	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Portland Cement Based Repair Material	2,626.30
34 05 43 00-0006	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Portland Cement Based Repair Material	111.25

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0007 EA Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material	2,708.32	
34 05 43 00-0008 SF Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material	116.37	
34 05 43 00-0009 EA Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	2,690.17	
34 05 43 00-0010 SF Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	115.24	
34 05 43 00-0011 EA Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	4,080.24	
<i>For Owner Furnished Material, Deduct</i>	-1,703.78	
34 05 43 00-0012 SF Remove And Patch >16 SF Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	202.12	
<i>For Owner Furnished Material, Deduct</i>	-106.47	
34 05 43 00-0013 Remove And Patch Verticals Or Overheads (34 05 43 00-0003)		
Note: For patching verticals and overhead, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0014 EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	3,096.50	
34 05 43 00-0015 SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	134.76	
34 05 43 00-0016 EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	3,178.52	
34 05 43 00-0017 SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	139.88	
34 05 43 00-0018 EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	3,160.37	
34 05 43 00-0019 SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	138.75	
34 05 43 00-0020 EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified)	4,550.44	
<i>For Owner Furnished Material, Deduct</i>	-1,703.78	
34 05 43 00-0021 SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified)	225.63	
<i>For Owner Furnished Material, Deduct</i>	-106.47	
34 05 43 00-0022 Remove And Patch Pier Caps And Pedestals (34 05 43 00-0003)		
Note: For patching pier caps and pedestals, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0023 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material	3,566.70	
34 05 43 00-0024 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material	152.39	
34 05 43 00-0025 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material	3,648.72	
34 05 43 00-0026 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material	157.51	
34 05 43 00-0027 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	3,630.57	
34 05 43 00-0028 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	156.38	
34 05 43 00-0029 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified)	5,020.64	
<i>For Owner Furnished Material, Deduct</i>	-1,703.78	
34 05 43 00-0030 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified)	243.26	
<i>For Owner Furnished Material, Deduct</i>	-106.47	
34 05 43 00-0031 Remove And Patch Circular Piers (34 05 43 00-0003)		
Note: For patching circular piers, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0032 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material	4,272.01	
34 05 43 00-0033 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material	170.03	
34 05 43 00-0034 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	4,354.03	
34 05 43 00-0035 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	175.15	
34 05 43 00-0036 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	4,335.88	
34 05 43 00-0037 SF Remove And Patch >16 SF Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	191.05	
34 05 43 00-0038 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)	5,725.95	
<i>For Owner Furnished Material, Deduct</i>	-1,703.78	
34 05 43 00-0039 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)	260.90	
<i>For Owner Furnished Material, Deduct</i>	-106.47	
34 05 43 00-0040 Fiber Reinforced Shotcrete Repair For Bridges (34 05 43)		
34 05 43 00-0041 EA Mobilize Fiber Reinforced Shotcrete Repair Crew	921.36	
34 05 43 00-0042 SF Up to 2" Thick, Fiber Reinforced Shotcrete Repair	56.66	
<i>For Up To 25, Add</i>	27.65	
<i>For >25 To 50, Add</i>	13.82	
<i>For >50 To 150, Add</i>	5.53	
34 05 43 00-0043 SF >2" To 4" Thick, Fiber Reinforced Shotcrete Repair	67.23	
<i>For Up To 25, Add</i>	32.25	
<i>For >25 To 50, Add</i>	16.13	
<i>For >50 To 150, Add</i>	6.45	
34 05 43 00-0044 SF >4" To 6" Thick, Fiber Reinforced Shotcrete Repair	77.82	
<i>For Up To 25, Add</i>	36.86	
<i>For >25 To 50, Add</i>	18.43	
<i>For >50 To 150, Add</i>	7.37	
34 05 43 00-0045 Bridge Railing (34 05 43)		
34 05 43 00-0046 Remove And Store Bridge Railings (34 05 43 00-0045)		
34 05 43 00-0047 LF Removal And Storage Of One Rail Bridge Railing	7.85	
34 05 43 00-0048 LF Removal And Storage Of Two Rail Bridge Railing	15.70	
34 05 43 00-0049 LF Removal And Storage Of Three Rail Bridge Railing	23.55	
34 05 43 00-0050 LF Removal And Storage Of Four Rail Bridge Railing	31.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0051 Install Stored Or Supplied Bridge Railings (34 05 43 00-0045)		
34 05 43 00-0052 LF Install Stored Or Supplied One Rail Bridge Railing.....	66.14	
34 05 43 00-0053 LF Install Stored Or Supplied Two Rail Bridge Railing.....	132.29	
34 05 43 00-0054 LF Install Stored Or Supplied Three Rail Bridge Railing	198.43	
34 05 43 00-0055 LF Install Stored Or Supplied Four Rail Bridge Railing	264.58	
34 05 43 00-0056 Bridge Bearings (34 05 43) Note: Excludes drilling and anchor bolts.		
34 05 43 00-0057 Elastomeric Bearings (34 05 43 00-0056)		
34 05 43 00-0058 EA Plain Elastomeric, Type EP Bearing, 716-10, All Loads	1,257.84	336.31
34 05 43 00-0059 EA Steel Laminated Elastomeric, Type EL Bearing, 716-11, Up To 100K	1,881.89	672.62
For >100K To 250K Load, Add	95.70	
For >250K To 500K Load, Add	191.41	
For >500K To 750K Load, Add	287.11	
34 05 43 00-0060 EA Elastomeric with External Load Plates, Type EB Bearing, 716-12, Up To 100K	4,290.30	1,008.93
For >100K To 250K Load, Add	290.30	
For >250K To 500K Load, Add	580.61	
For >500K To 750K Load, Add	870.91	
34 05 43 00-0061 Fixed Structural Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0062 EA 100K To 250K Fixed Structural Pot Bearing	3,780.16	
34 05 43 00-0063 EA >250K To 500K Fixed Structural Pot Bearing	5,773.87	
34 05 43 00-0064 EA >500K To 750K Fixed Structural Pot Bearing	7,767.54	
34 05 43 00-0065 Universal Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0066 EA 100K To 250K Universal Structural Pot Bearing	4,685.16	
34 05 43 00-0067 EA >250K To 500K Universal Structural Pot Bearing	7,163.60	
34 05 43 00-0068 EA >500K To 750K Universal Structural Pot Bearing	9,646.22	
34 05 43 00-0069 Guided Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0070 EA 100K To 250K Guided Structural Pot Bearing	4,852.31	
34 05 43 00-0071 EA >250K To 500K Guided Structural Pot Bearing	7,414.29	
34 05 43 00-0072 EA >500K To 750K Guided Structural Pot Bearing	9,980.47	
34 05 43 00-0073 Remove, Repair And Install Bridge Bearings (34 05 43 00-0056)		
34 05 43 00-0074 Remove Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0075 EA 100K To 250K Structural Bearing Removal	483.44	
34 05 43 00-0076 EA >250K To 500K Structural Bearing Removal	966.89	
34 05 43 00-0077 EA >500K To 750K Structural Bearing Removal	1,450.33	
34 05 43 00-0078 Install And Set Supplied Or Restored Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0079 EA 100K To 250K Structural Bearing - Install And Set Supplied Or Restored Bearing	725.17	
34 05 43 00-0080 EA >250K To 500K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,450.33	
34 05 43 00-0081 EA >500K To 750K Structural Bearing - Install And Set Supplied Or Restored Bearing	2,175.50	
34 05 43 00-0082 Power Wash And Paint Structural Bearings (34 05 43 00-0073) Note: Includes bearing plates.		
34 05 43 00-0083 EA 100K To 250K Structural Bearing - Power Wash And Paint	1,131.49	
34 05 43 00-0084 EA >250K To 500K Structural Bearing - Power Wash And Paint	1,278.37	
34 05 43 00-0085 EA >500K To 750K Structural Bearing - Power Wash And Paint	1,425.24	
34 05 43 00-0086 Power Wash, Mechanically Clean And Paint Structural Bearings (34 05 43 00-0073) Note: Includes bearing plates. Excludes paint removal.		
34 05 43 00-0087 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,505.21	
For Vacuum Contained Cleaning, Add	373.69	
34 05 43 00-0088 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,698.75	
For Vacuum Contained Cleaning, Add	420.39	
34 05 43 00-0089 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,891.87	
For Vacuum Contained Cleaning, Add	466.98	
34 05 43 00-0090 Power Wash And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0091 EA 100K To 250K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	705.87	
34 05 43 00-0092 EA >250K To 500K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	849.38	
34 05 43 00-0093 EA >500K To 750K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	992.87	
34 05 43 00-0094 Power Wash, Mechanically Clean And Paint Only Bearing Plates (34 05 43 00-0073)		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0095 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	941.33	
For Vacuum Contained Cleaning, Add	233.56	
34 05 43 00-0096 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	1,129.63	
For Vacuum Contained Cleaning, Add	280.26	
34 05 43 00-0097 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	1,317.51	
For Vacuum Contained Cleaning, Add	326.85	
34 05 43 00-0098 Sand Blast And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0099 EA 100K To 250K Structural Bearing - Sand Blast And Paint	1,804.11	
For Vacuum Contained Cleaning, Add	448.41	
34 05 43 00-0100 EA >250K To 500K Structural Bearing - Sand Blast And Paint	2,035.06	
For Vacuum Contained Cleaning, Add	504.46	
34 05 43 00-0101 EA >500K To 750K Structural Bearing - Sand Blast And Paint	2,266.00	
For Vacuum Contained Cleaning, Add	560.51	
34 05 43 00-0102 Sand Blast And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0103 EA 100K To 250K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,128.12	
For Vacuum Contained Cleaning, Add	280.26	
34 05 43 00-0104 EA >250K To 500K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,353.83	
For Vacuum Contained Cleaning, Add	336.31	
34 05 43 00-0105 EA >500K To 750K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,579.55	
For Vacuum Contained Cleaning, Add	392.36	
34 05 43 00-0106 Grease Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0107 EA 100K To 250K Structural Bearing - Grease	70.07	
34 05 43 00-0108 EA >250K To 500K Structural Bearing - Grease	105.10	
34 05 43 00-0109 EA >500K To 750K Structural Bearing - Grease	140.13	
34 05 43 00-0110 Replace Bronze Plate Wearing Pad (34 05 43 00-0073)		
34 05 43 00-0111 SF Removal And Replacement Of Bronze Plate Wearing Pad	484.76	
34 05 43 00-0112 Bridge Bearing Rivet Removal (34 05 43 00-0073)		
See CSI section 02 41 19 13-0082 for reaming of hole, 34 05 43 00-0272 for anchors and grouting.		
34 05 43 00-0113 EA Bridge Bearing Rivet Removal	280.26	
34 05 43 00-0114 Bridge Pintels, Side Keeper, And Shim Plates (34 05 43)		
34 05 43 00-0115 EA Removal And Replacement Of Bridge Pintel	298.66	
34 05 43 00-0116 EA Removal And Replacement Of Bridge Side Keeper	305.02	
34 05 43 00-0117 EA Refabricate And Install Shim Plates At One Bearing	177.11	
34 05 43 00-0118 EA Refabricate And Install Beveled Shim Plates At One Bearing	177.11	
34 05 43 00-0119 EA Refabricate And Install Finger Shim Plates At One Bearing	177.11	
34 05 43 00-0120 Vertical Jacking And Lifting For Bridges (34 05 43)		
Note: For vertical jacking of structural members. Includes jacks, hydraulics, and synchronizing equipment where appropriate. Excludes engineering and design. See CSI section 03 01 30 71-0000 for concrete repair, 05 12 23 00-0000 for temporary steel members.		
34 05 43 00-0121 Mobilize Jacking Crew And Equipment (34 05 43 00-0120)		
Note: Includes removing equipment after completion.		
34 05 43 00-0122 EA Mobilize Bridge Jacking Crew and Equipment	2,522.32	
For Temporary Support Mobilization, Add	5,044.64	
34 05 43 00-0123 Vertical Jacking And Lifting Per Point of Contact (34 05 43 00-0120)		
Note: Includes positioning jack, shims, lifting, and lowering. Excludes temporary steel, temporary lumber, and concrete repairs.		
34 05 43 00-0124 EA Up To 10 Ton Jack, Per Point Of Contact	420.38	
For Synchronized Lift, Add	84.08	
For Jacking From Temporary Support, Add	168.15	
34 05 43 00-0125 EA >10 To 20 Ton Jack, Per Point Of Contact	490.45	
For Synchronized Lift, Add	98.09	
For Jacking From Temporary Support, Add	196.18	
34 05 43 00-0126 EA >20 To 40 Ton Jack, Per Point Of Contact	560.51	
For Synchronized Lift, Add	112.10	
For Jacking From Temporary Support, Add	224.20	
34 05 43 00-0127 EA >40 To 60 Ton Jack, Per Point Of Contact	630.58	
For Synchronized Lift, Add	126.12	
For Jacking From Temporary Support, Add	252.23	
34 05 43 00-0128 EA >60 To 80 Ton Jack, Per Point Of Contact	700.64	
For Synchronized Lift, Add	140.13	
For Jacking From Temporary Support, Add	280.26	
34 05 43 00-0129 EA >80 To 100 Ton Jack, Per Point Of Contact	770.71	
For Synchronized Lift, Add	154.14	
For Jacking From Temporary Support, Add	308.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0130 EA >100 To 120 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	840.78 168.16 336.31	
34 05 43 00-0131 EA >120 To 140 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	875.81 175.16 350.32	
34 05 43 00-0132 EA >140 To 160 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	910.84 182.17 364.34	
34 05 43 00-0133 EA >160 To 250 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	910.84 182.17 364.34	
34 05 43 00-0134 EA >250 To 300 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	980.90 196.18 392.36	
34 05 43 00-0135 EA >300 To 400 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	1,050.96 210.19 420.38	
34 05 43 00-0136 EA >400 To 500 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	1,121.03 224.21 448.41	
34 05 43 00-0137 EA >500 To 600 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	1,191.09 238.22 476.44	
34 05 43 00-0138 Daily Charge For Vertical Jacking Equipment (34 05 43 00-0120) Note: Includes hydraulics and synchronizing equipment.		
34 05 43 00-0139 DAY Up To 10 Ton Jacking Equipment Charge By The Day	22.31	
34 05 43 00-0140 DAY >10 To 20 Ton Jacking Equipment Charge By The Day	44.62	
34 05 43 00-0141 DAY >20 To 40 Ton Jacking Equipment Charge By The Day	89.24	
34 05 43 00-0142 DAY >40 To 60 Ton Jacking Equipment Charge By The Day	133.87	
34 05 43 00-0143 DAY >60 To 80 Ton Jacking Equipment Charge By The Day	178.49	
34 05 43 00-0144 DAY >80 To 100 Ton Jacking Equipment Charge By The Day	223.11	
34 05 43 00-0145 DAY >100 To 120 Ton Jacking Equipment Charge By The Day	267.73	
34 05 43 00-0146 DAY >120 To 140 Ton Jacking Equipment Charge By The Day	312.35	
34 05 43 00-0147 DAY >140 To 160 Ton Jacking Equipment Charge By The Day	356.97	
34 05 43 00-0148 DAY >160 To 250 Ton Jacking Equipment Charge By The Day	407.34	
34 05 43 00-0149 DAY >250 To 300 Ton Jacking Equipment Charge By The Day	464.37	
34 05 43 00-0150 DAY >300 To 400 Ton Jacking Equipment Charge By The Day	588.20	
34 05 43 00-0151 DAY >400 To 500 Ton Jacking Equipment Charge By The Day	698.48	
34 05 43 00-0152 DAY >500 To 600 Ton Jacking Equipment Charge By The Day	796.29	
34 05 43 00-0153 Temporary Shoring (34 05 43 00-0120) Note: Setup includes material use cost and initial erection. Setup is also used for relocation to the opposite abutment. Relocation includes moving and setup at a new jacking location. Takedown includes disassembly and removal from the site. Excludes earthwork and temporary stone.		
34 05 43 00-0154 HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0155 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	2,933.84	
34 05 43 00-0156 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	2,115.52	
34 05 43 00-0157 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	450.13	
34 05 43 00-0158 HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0159 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	3,018.14	
34 05 43 00-0160 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	1,987.84	
34 05 43 00-0161 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	431.80	
34 05 43 00-0162 HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0163 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	1,878.91	
34 05 43 00-0164 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	826.15	
34 05 43 00-0165 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	274.89	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
34 05 43 00-0166		HP14x117 Column Attached to Existing Footing, Permanent Steel Stiffeners, Braced by Angles Attached to Abutment Face, Temporary Shoring (34 05 43 00-0153)			
34 05 43 00-0167	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	5,478.65		
34 05 43 00-0168	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	3,260.53		
34 05 43 00-0169	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	739.90		
34 05 43 00-0170		Mat Supported HP12x63 Column, Braced by Channel and Angles, Attached to Existing 4" Diameter Concrete Column, Temporary Shoring (34 05 43 00-0153)			
		Note: Excludes mats. See CSI section 01 22 23 00-0613 for mats.			
34 05 43 00-0171	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4" Diameter Concrete Column, Temporary Shoring Set-up	5,837.87		
		Note: Excludes mats.			
34 05 43 00-0172	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4" Diameter Concrete Column, Temporary Shoring Relocation	2,247.36		
		Note: Excludes mats.			
34 05 43 00-0173	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4" Diameter Concrete Column, Temporary Shoring Take Down And Removal	1,129.33		
		Note: Excludes mats.			
34 05 43 00-0174		Mat Supported HP12x53 Column, Braced by Channel and Angles, Attached to Abutment Face, Temporary Shoring (34 05 43 00-0153)			
		Note: Excludes mats. See CSI section 01 22 23 00-0613 for mats.			
34 05 43 00-0175	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	2,377.88		
34 05 43 00-0176	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	684.50		
		Note: Excludes mats.			
34 05 43 00-0177	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	387.14		
		Note: Excludes mats.			
34 05 43 00-0178		MC18x51.9 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring (34 05 43 00-0153)			
34 05 43 00-0179	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Set-up	2,792.21		
34 05 43 00-0180	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Relocation	2,561.94		
34 05 43 00-0181	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Take Down And Removal	377.97		
34 05 43 00-0182		MC15x74 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring (34 05 43 00-0153)			
34 05 43 00-0183	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Set-up	2,074.55		
34 05 43 00-0184	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Relocation	1,884.34		
34 05 43 00-0185	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Take Down And Removal	311.54		
34 05 43 00-0186		Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge Column, Temporary Shoring (34 05 43 00-0153)			
34 05 43 00-0187	EA	Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge, Temporary Shoring Set-up	1,448.00		
		Note: Left in place.			
34 05 43 00-0188		Temporary Bridge Shoring Components (34 05 43 00-0153)			
		Note: For temporary shoring of columns and abutments associated with vertical jacking of structural members. Includes lifting equipment where appropriate. Excludes engineering and design. See CSI section 01 54 23 00-0060 for temporary lumber.			
34 05 43 00-0189		Fabricate, Install And Remove After Use Temporary Steel Bridge Shoring (34 05 43 00-0188)			
		Note: Includes cutting, drilling and welds. Excludes gravel, mats, anchors, and bolts.			
34 05 43 00-0190	LF	Fabricate And Install MC7 x 19.1 For Temporary Bridge Shoring	91.35		
		Note: Remove after use.			
34 05 43 00-0191	LF	Fabricate And Install MC18 x 51.9 For Temporary Bridge Shoring	225.38		
		Note: Remove after use.			
34 05 43 00-0192	LF	Fabricate And Install HP12 x 53 For Temporary Bridge Shoring	175.57		
		Note: Remove after use.			
34 05 43 00-0193	LF	Fabricate And Install HP12 x 63 For Temporary Bridge Shoring	196.22		
		Note: Remove after use.			
34 05 43 00-0194	LF	Fabricate And Install 3" x 3" x 3/8" Angle Iron For Temporary Bridge Shoring	26.46		
		Note: Remove after use.			
		For Galvanized Steel, Add	6.62		
34 05 43 00-0195	LF	Fabricate And Install 4" x 4" x 3/8" Angle Iron For Temporary Bridge Shoring	33.71		
		Note: Remove after use.			
		For Galvanized Steel, Add	9.01		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0196 LF Fabricate And Install 7" x 4" x 5/8" Angle Iron For Temporary Bridge Shoring Note: Remove after use. <i>For Galvanized Steel, Add</i>	68.22 20.36	
34 05 43 00-0197 LF Fabricate And Install 5" x 3-1/2" x 3/4" Angle Iron For Temporary Bridge Shoring Note: Remove after use. <i>For Galvanized Steel, Add</i>	59.19 18.24	
34 05 43 00-0198 LF Fabricate And Install 7" x 4" x 3/4" Angle Iron For Temporary Bridge Shoring Note: Remove after use. <i>For Galvanized Steel, Add</i>	78.32 24.14	
34 05 43 00-0199 SF Fabricate And Install 5/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use. <i>For A50 Grade Steel, Add</i>	94.37 2.56	
34 05 43 00-0200 SF Fabricate And Install 7/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use. <i>For A50 Grade Steel, Add</i>	132.11 3.58	
34 05 43 00-0201 SF Fabricate And Install 1-3/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use. <i>For A50 Grade Steel, Add</i>	207.61 5.62	
34 05 43 00-0202 SF Fabricate And Install 1-1/2" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use. <i>For A50 Grade Steel, Add</i>	226.49 6.13	
34 05 43 00-0203 Relocate Temporary Steel Bridge Shoring (34 05 43 00-0188) Note: Includes removal after use.		
34 05 43 00-0204 EA Relocate Complete Temporary Steel Bridge Shoring Note: Remove after use. Includes relocating support matts. Excludes anchors, bolts or additional steel if required.	4,927.03	
34 05 43 00-0205 SF Relocate 1-3/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use.	95.18	
34 05 43 00-0206 LF Relocate HP12 x 63 For Temporary Bridge Shoring..... Note: Remove after use.	78.83	
34 05 43 00-0207 LF Relocate 3" x 3" x 3/8" Angle Iron For Temporary Bridge Shoring..... Note: Remove after use.	15.79	
34 05 43 00-0208 LF Relocate 4" x 4" x 3/8" Angle Iron For Temporary Bridge Shoring..... Note: Remove after use.	19.18	
34 05 43 00-0209 LF Relocate 7" x 4" x 3/4" Angle Iron For Temporary Bridge Shoring..... Note: Remove after use.	39.39	
34 05 43 00-0210 SF Relocate 7/8" A36 Steel Plates For Temporary Bridge Shoring..... Note: Remove after use.	60.56	
34 05 43 00-0211 LF Relocate MC7 x 19.1 For Temporary Bridge Shoring..... Note: Remove after use.	45.71	
34 05 43 00-0212 LF Relocate HP12 x 53 For Temporary Bridge Shoring..... Note: Remove after use.	77.19	
34 05 43 00-0213 SF Relocate 5/8" A36 Steel Plates For Temporary Bridge Shoring..... Note: Remove after use.	43.27	
34 05 43 00-0214 LF Relocate 7" x 4" x 5/8" Angle Iron For Temporary Bridge Shoring..... Note: Remove after use.	35.38	
34 05 43 00-0215 SF Relocate 1-1/2" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use.	103.84	
34 05 43 00-0216 LF Relocate MC18 x 51.9 For Temporary Bridge Shoring Note: Remove after use.	131.94	
34 05 43 00-0217 LF Relocate 5" x 3-1/2" x 3/4" Angle Iron For Temporary Bridge Shoring..... Note: Remove after use.	29.77	
34 05 43 00-0218 Pier Caps And Pedestal Replacement For Bridges (34 05 43) See CSI section 03 15 19 00-0001 for anchor bolts.		
34 05 43 00-0219 SF Bridge Wood Formwork For Seats, Pedestals, Pier Caps And Miscellaneous Areas For Bridges.....	28.26	
34 05 43 00-0220 CWT Rebar For Pier Cap Or Pedestals For Bridges	518.53	
34 05 43 00-0221 CY Pour Pedestals For Bridges	398.73	
34 05 43 00-0222 CY Demolish Concrete Pedestals For Bridges	4,763.21	
34 05 43 00-0223 CY Pour Pier Cap For Bridges.....	472.06	
34 05 43 00-0224 CY Demolish Concrete Pier Cap For Bridges.....	5,477.17	
34 05 43 00-0225 Bridge Deck Repair (34 05 43)		
34 05 43 00-0226 Remove Existing Steel Joint System (34 05 43 00-0225)		
34 05 43 00-0227 LF Removal Of Existing Steel Joint System.....	68.72	
34 05 43 00-0228 Break-Up And Remove Bridge Decking By Machine (34 05 43 00-0225) Note: Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting, See CSI section 02 41 19 13-0059 for saw cutting.		
34 05 43 00-0229 SY Break-Up And Remove Up To 3" Thick Bituminous Pavement Bridge Decking By Machine..... <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 2,500, Deduct</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000, Deduct</i>	23.19 -2.32 -4.17 -6.03 -7.88 -9.74	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0230 SY Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Machine	31.68	
For >500 To 1,000, Deduct	-3.17	
For >1,000 To 2,500, Deduct	-5.70	
For >2,500 To 5,000, Deduct	-8.24	
For >5,000 To 10,000, Deduct	-10.77	
For >10,000, Deduct	-13.31	
34 05 43 00-0231 SY Break-Up And Remove To 3" Thick Concrete With Reinforcing Bridge Decking By Machine	38.43	
For >500 To 1,000, Deduct	-3.84	
For >1,000 To 2,500, Deduct	-6.92	
For >2,500 To 5,000, Deduct	-9.99	
For >5,000 To 10,000, Deduct	-13.07	
For >10,000, Deduct	-16.14	
34 05 43 00-0232 SY Break-Up And Remove > 3" To 6" Thick Concrete With Reinforcing Bridge Decking By Machine	49.41	
For >500 To 1,000, Deduct	-4.94	
For >1,000 To 2,500, Deduct	-8.89	
For >2,500 To 5,000, Deduct	-12.85	
For >5,000 To 10,000, Deduct	-16.80	
For >10,000, Deduct	-20.75	
34 05 43 00-0233 SY Break-Up And Remove > 6" To 9" Thick Concrete With Reinforcing Bridge Decking By Machine	88.33	
For >500 To 1,000, Deduct	-8.83	
For >1,000 To 2,500, Deduct	-15.90	
For >2,500 To 5,000, Deduct	-22.97	
For >5,000 To 10,000, Deduct	-30.03	
For >10,000, Deduct	-37.10	
34 05 43 00-0234 SY Break-Up And Remove >9" To 14" Thick Concrete With Reinforcing Bridge Decking By Machine	115.28	
For >500 To 1,000, Deduct	-11.53	
For >1,000 To 2,500, Deduct	-20.75	
For >2,500 To 5,000, Deduct	-29.97	
For >5,000 To 10,000, Deduct	-39.20	
For >10,000, Deduct	-48.42	
34 05 43 00-0235 SY Break-Up And Remove >14" To 19" Thick Concrete With Reinforcing Bridge Decking By Machine	150.70	
For >500 To 1,000, Deduct	-15.07	
For >1,000 To 2,500, Deduct	-27.13	
For >2,500 To 5,000, Deduct	-39.18	
For >5,000 To 10,000, Deduct	-51.24	
For >10,000, Deduct	-63.29	
34 05 43 00-0236 SY Break-Up And Remove >19" To 24" Thick Concrete With Reinforcing Bridge Decking By Machine	182.90	
For >500 To 1,000, Deduct	-18.29	
For >1,000 To 2,500, Deduct	-32.92	
For >2,500 To 5,000, Deduct	-47.55	
For >5,000 To 10,000, Deduct	-62.19	
For >10,000, Deduct	-76.82	
34 05 43 00-0237 Break-Up And Remove Bridge Decking By Hand (34 05 43 00-0225)		
Note: Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0059 for saw cutting.		
34 05 43 00-0238 SF Break-Up And Remove 1" To 3" Thick Bituminous Pavement Bridge Decking By Hand	15.57	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0239 SF Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Hand	20.49	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0240 SF Break-Up And Remove >6" To 8" Thick Bituminous Pavement Bridge Decking By Hand	26.65	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0241 SF Break-Up And Remove 1" To 3" Thick Concrete Bridge Decking By Hand	19.47	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0242 SF Break-Up And Remove >3" To 6" Thick Concrete Bridge Decking By Hand	24.35	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0243 SF Break-Up And Remove >6" To 8" Thick Concrete Bridge Decking By Hand	29.21	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0244 SF Chipping And Cleaning Of Bridge Deck After Break-up And Removals.....	6.16	
34 05 43 00-0245 Hydro Blasting Of Bridge Decks (34 05 43 00-0225)		
Note: Excludes hauling and disposal of water and debris.		
34 05 43 00-0246 EA Mobilization Of Hydro Blasting Equipment.....	14,863.80	
Note: Includes trailer with power, hydro milling machine, vacuum machine.		
34 05 43 00-0247 EA Mobilization Of Hydro Blasting Equipment.....	1,930.36	
Note: Includes water tank, pump and miscellaneous fittings.		
34 05 43 00-0248 SF Hydro Blasting Of Up To 2-1/2" Of Bridge Decks.....	12.90	
34 05 43 00-0249 SF Vacuuming And Cleaning Of Bridge Decks Up To 2-1/2", Following Hydroblasting	9.53	
34 05 43 00-0250 SF Chipping And Cleaning Of Bridge Deck After Hydro Blasting And Vacuum Up To 2-1/2".....	2.35	
34 05 43 00-0251 SF Hydro Blasting 3" To 4-1/2" Of Bridge Decks.....	19.06	
34 05 43 00-0252 SF Vacuuming And Cleaning Of Bridge Decks 3" To 4-1/2", Following Hydro Blasting	12.90	
34 05 43 00-0253 SF Chipping And Cleaning Of Bridge Deck After Hydro Blasting And Vacuum 3" To 4-1/2".....	6.16	
34 05 43 00-0254 GAL Water For Hydro Blasting.....	0.19	
Note: Includes delivery.		
34 05 43 00-0255 Patch For Bridge Deck (34 05 43 00-0225)		
34 05 43 00-0256 CF Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Deck.....	108.08	
Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.		
34 05 43 00-0257 CF Polyester-Based Polymer Patch For Bridge Deck	113.18	
Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0258 SF Hand Placed Hot Mixed Asphalt Repair For Bridge Approach.....27.51 Note: Includes removal of HMA, tack coat, and installation of HMA and compaction by roller.		
34 05 43 00-0259 Pressure Washing For Bridge Deck (34 05 43 00-0225)		
34 05 43 00-0260 SF Pressure Washing For Bridge Deck.....0.11 Note: Includes pressure washer and water.		
34 05 43 00-0261 Galvanic Anodes For Bridges (34 05 43)		
34 05 43 00-0262 EA 2.6" Diameter x 1.2" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP).....61.39 Note: Corrosion prevention only (preventing the initiation of corrosion).		
34 05 43 00-0263 EA 4.9" Long x 1.0" Wide x 1.0" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XPT).....61.39 Note: Corrosion prevention only (preventing the initiation of corrosion).		
34 05 43 00-0264 EA 2.8" Long x 2.4" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP2).....70.20 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0265 EA 4.3" Long x 2.2" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP4).....76.89 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0266 EA 2.5" Diameter x 1.1" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP+).....70.20 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0267 EA 1-3/4" Diameter x 2-1/2" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC65).....72.43 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0268 EA 1-3/4" Diameter x 4" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC100).....88.04 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0269 EA 1-1/8" Diameter x 5-3/8" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC135).....81.35 Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0270 Bridge Netting Panels (34 05 43)		
34 05 43 00-0271 SF Bridge Netting Panel.....10.44 Note: Includes cable, beam clamps to attach to the bridge structure without the need for drilling/welding and snap hooks for attaching the net.		
For Up To 160, Add	9.92	
For >160 To 320, Add	4.96	
For >320 To 480, Add	2.48	
For >2,000 To 10,000, Deduct	-0.46	
For >10,000 To 25,000, Deduct	-0.92	
For >25,000, Deduct	-1.38	
34 05 43 00-0272 Anchors For Bridges (34 05 43)		
Note: Excludes core drilling. See CSI section 02 41 19 13-0082 for core drilling.		
34 05 43 00-0273 Threaded Rod, A449 (34 05 43 00-0272)		
34 05 43 00-0274 LF 7/8" Diameter Continuous Threaded Rod, A449.....22.15		
34 05 43 00-0275 LF 1" Diameter Continuous Threaded Rod, A449.....26.35		
34 05 43 00-0276 LF 1-1/8" Diameter Continuous Threaded Rod, A449.....30.53		
34 05 43 00-0277 LF 1-1/4" Diameter Continuous Threaded Rod, A449.....38.57		
34 05 43 00-0278 Flat Washers, F436 (34 05 43 00-0272)		
34 05 43 00-0279 EA 7/8" Flat Washer, F436.....2.38		
34 05 43 00-0280 EA 1" Flat Washer, F436.....2.77		
34 05 43 00-0281 EA 1-1/8" Flat Washer, F436.....3.04		
34 05 43 00-0282 EA 1-1/4" Flat Washer, F436.....3.47		
34 05 43 00-0283 Heavy Hex Nut, A194 (34 05 43 00-0272)		
34 05 43 00-0284 EA 7/8" Hex Nut, A194.....4.81		
34 05 43 00-0285 EA 1" Hex Nut, A194.....6.54		
34 05 43 00-0286 EA 1-1/8" Hex Nut, A194.....7.76		
34 05 43 00-0287 EA 1-1/4" Hex Nut, A194.....9.27		
34 05 43 00-0288 Grout For Threaded Rod (34 05 43 00-0272)		
34 05 43 00-0289 IN Grout 7/8" Rod In Hole.....3.58		
34 05 43 00-0290 IN Grout 1" Rod In Hole.....4.09		
34 05 43 00-0291 IN Grout 1-1/8" Rod In Hole.....4.78		
34 05 43 00-0292 IN Grout 1-1/4" Rod In Hole.....5.72		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0293		Test Grouted Anchor (34 05 43 00-0272)		
34 05 43 00-0294	EA	Test Grouted Anchor.....	37.55	
34 05 43 00-0295		Removal Of Fasteners Or Anchors In Concrete (34 05 43 00-0272)		
		Note: Includes removal of damaged, chemically adhered or mechanically fastened bolts, studs, threaded rod or concrete anchors with a carbide drill bit.		
34 05 43 00-0296	EA	Drill Out 3/8" Diameter Fastener/Anchor In Concrete	32.80	
34 05 43 00-0297	EA	Drill Out 1/2" Diameter Fastener/Anchor In Concrete	35.27	
34 05 43 00-0298	EA	Drill Out 9/16" Diameter Fastener/Anchor In Concrete	36.92	
34 05 43 00-0299	EA	Drill Out 5/8" Diameter Fastener/Anchor In Concrete	40.09	
34 05 43 00-0300	EA	Drill Out 3/4" Diameter Fastener/Anchor In Concrete	43.86	
34 05 43 00-0301	EA	Drill Out 7/8" Diameter Fastener/Anchor In Concrete	48.49	
34 05 43 00-0302	EA	Drill Out 1" Diameter Fastener/Anchor In Concrete	51.26	
34 05 43 00-0303	EA	Drill Out 1-1/8" Diameter Fastener/Anchor In Concrete	54.54	
34 05 43 00-0304	EA	Drill Out 1-1/4" Diameter Fastener/Anchor In Concrete	58.61	
34 05 43 00-0305	EA	Drill Out 1-1/2" Diameter Fastener/Anchor In Concrete	65.79	
34 05 43 00-0306		Bridge Surfacing (34 05 43)		
34 05 43 00-0307		Bridge Coatings (34 05 43 00-0306)		
		Note: Includes sweeping of bridge deck.		
34 05 43 00-0308	SF	Penetrating Corrosion Inhibitor Sealer For Bridge Decks (Two Coats).....	1.30	
		Note: Includes power washing and drying after power washing.		
34 05 43 00-0309	SF	Protective Seal Coat For Existing Bridge Decks	2.47	
34 05 43 00-0310	SF	Penetrating Sealer For Existing Bridge Decks	4.03	
34 05 43 00-0311		Bridge Membranes (34 05 43 00-0306)		
		Note: Excludes abrasive blasting of deck.		
34 05 43 00-0312	SF	Spray Applied Waterproofing Membrane For Bridge Decks	15.63	
34 05 43 00-0313	SF	Sheet Applied Waterproofing Membrane For Bridge Decks	4.49	
34 05 43 00-0314		Sealer And Overlay For Bridge Deck (34 05 43 00-0306)		
		Note: Excludes sweeping, cleaning and abrasive blasting.		
34 05 43 00-0315	SY	Shot Blasting Bridge Decks	15.55	
		Note: Includes steel ball media. Includes air cleaning of deck surface after shot blasting.		
34 05 43 00-0316	SY	Thin Polymer (Epoxy) Overlay For Bridge Deck	97.60	
		Note: Includes epoxy overlay applied in two coats with aggregate.		
34 05 43 00-0317	SY	3/4" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	182.11	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0318	SY	1" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	207.55	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0319	SY	1-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	264.78	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0320	SY	2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	321.99	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0321	SY	2-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	379.22	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0322	SY	3" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	436.45	
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0323		Broadcast Silica Sand (34 05 43 00-0306)		
		Note: Includes removing loose sand.		
34 05 43 00-0324	SF	Broadcast Silica Sand.....	0.32	
34 05 43 00-0325		Sweeping And Cleaning Of Bridge Deck (34 05 43 00-0306)		
		See CSI section 01 22 23 00-1578 for water trucks, 01 22 23 00-1603 for vacuum sweeper trucks.		
34 05 43 00-0326		Concrete Overlay For Bridge Deck (34 05 43 00-0306)		
		Note: Includes sweeping and cleaning. Excludes abrasive blasting.		
34 05 43 00-0327	SY	3" Concrete Overlay For Bridge Deck.....	189.49	
		For DOT Class DP, Add	32.95	
		For DOT Class E, Add	10.75	
		For DOT Class HP, Add	31.46	
34 05 43 00-0328		Bridge Roadway Grooving (34 05 43 00-0306)		
34 05 43 00-0329	EA	Up To 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	4,297.47	
34 05 43 00-0330	SY	Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	6.96	
34 05 43 00-0331	EA	Up To 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	4,787.54	
34 05 43 00-0332	SY	Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	9.07	
34 05 43 00-0333		Gravity Fed Concrete Crack Repair (34 05 43 00-0306)		
		Note: Includes removing loose materials and cleaning.		
34 05 43 00-0334	LF	Epoxy Low Viscosity Gravity Fed Concrete Crack Repair	3.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0335	LF		HMWM Low Viscosity Gravity Fed Concrete Crack Repair	4.62	
34 05 43 00-0336			Concrete Pumping With Boom Truck (34 05 43 00-0306) See CSI section 03 31 13 00-0010 for concrete delivery for small quantities, 03 37 16 00-0001 for concrete pump truck.		
34 05 43 00-0337			Bridge Girder Repair (34 05 43)		
34 05 43 00-0338			Bridge Girder Repair (34 05 43 00-0337) Note: Does not include mobilization of bridge jacking crew. See CSI section 05 05 23 00-0033 for bolts, nuts and washers, 05 12 23 00-0000 for additional steel shapes, angles and channels.		
34 05 43 00-0339	HR		UT, MT, PT Testing	75.00	
			Note: Does not include mileage to job site.		
34 05 43 00-0340	EA		Mobilization of Bridge Girder Repair Crew.....	2,847.18	
34 05 43 00-0341	LF		3" x 3" x 1/4" Angle Iron For Bridge Repair	15.28	6.01
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	23.23	
			For Aluminum, Add	1.31	
			For Galvanized Steel, Add	4.50	
34 05 43 00-0342	LF		4" x 4" x 1/4" Angle Iron For Bridge Repair	19.59	7.33
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	31.39	
			For Aluminum, Add	1.77	
			For Galvanized Steel, Add	6.08	
34 05 43 00-0343	LF		3" x 3" x 3/8" Angle Iron For Bridge Repair	19.69	6.77
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	34.14	
			For Aluminum, Add	1.92	
			For Galvanized Steel, Add	6.62	
34 05 43 00-0344	LF		4" x 4" x 3/8" Angle Iron For Bridge Repair	25.49	8.22
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	46.50	
			For Aluminum, Add	2.62	
			For Galvanized Steel, Add	9.01	
34 05 43 00-0345	LF		6" x 4" x 3/8" Angle Iron For Bridge Repair	32.59	10.74
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	58.50	
			For Aluminum, Add	3.29	
			For Galvanized Steel, Add	11.33	
34 05 43 00-0346	LF		6" x 6" x 3/8" Angle Iron For Bridge Repair	36.45	10.74
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	70.85	
			For Aluminum, Add	3.99	
			For Galvanized Steel, Add	13.73	
34 05 43 00-0347	LF		6" x 6" x 1/2" Angle Iron For Bridge Repair	48.33	14.41
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	93.18	
			For Aluminum, Add	5.24	
			For Galvanized Steel, Add	18.05	
34 05 43 00-0348	LF		7" x 4" x 5/8" Angle Iron For Bridge Repair	53.09	15.19
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	105.09	
			For Aluminum, Add	5.91	
			For Galvanized Steel, Add	20.36	
34 05 43 00-0349	LF		5" x 3-1/2" x 3/4" Angle Iron For Bridge Repair	46.43	12.76
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	94.14	
			For Aluminum, Add	5.30	
			For Galvanized Steel, Add	18.24	
34 05 43 00-0350	LF		6" x 4" x 3/4" Angle Iron For Bridge Repair	55.34	15.21
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	112.22	
			For Aluminum, Add	6.31	
			For Galvanized Steel, Add	21.74	
34 05 43 00-0351	LF		7" x 4" x 3/4" Angle Iron For Bridge Repair	61.44	16.88
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	124.58	
			For Aluminum, Add	7.01	
			For Galvanized Steel, Add	24.14	
34 05 43 00-0352	LF		8" x 6" x 7/8" Angle Iron For Bridge Repair	89.46	23.51
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	185.95	
			For Aluminum, Add	10.46	
			For Galvanized Steel, Add	36.03	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0353	LF	C4 x 5.4 - 4" Wide Channels For Bridge Repair.....	18.33	7.73
		Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
		For Fractured Critical, Add	20.00	
		For Stainless Steel, Add	25.66	
		For Aluminum, Add	1.44	
		For Galvanized Steel, Add	4.97	
34 05 43 00-0354	LF	C6 x 8.2 - 6" Wide Channels For Bridge Repair.....	26.61	10.83
		Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
		For Fractured Critical, Add	20.00	
		For Stainless Steel, Add	38.98	
		For Aluminum, Add	2.19	
		For Galvanized Steel, Add	7.55	
34 05 43 00-0355	LF	C8 x 11.5 - 8" Wide Channels For Bridge Repair.....	35.99	14.17
		Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
		For Fractured Critical, Add	20.00	
		For Stainless Steel, Add	54.69	
		For Aluminum, Add	3.08	
		For Galvanized Steel, Add	10.60	
34 05 43 00-0356	LF	C10 x 15.3 - 10" Wide Channels For Bridge Repair.....	47.87	18.85
		Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
		For Fractured Critical, Add	20.00	
		For Stainless Steel, Add	72.74	
		For Aluminum, Add	4.09	
		For Galvanized Steel, Add	14.09	
34 05 43 00-0357	LF	C12 x 20.7 - 12" Wide Channels For Bridge Repair.....	64.78	25.52
		Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
		For Fractured Critical, Add	20.00	
		For Stainless Steel, Add	98.43	
		For Aluminum, Add	5.54	
		For Galvanized Steel, Add	19.07	
34 05 43 00-0358	LF	C15 x 33.9 - 15" Wide Channels For Bridge Repair.....	106.08	41.78
		Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
		For Fractured Critical, Add	20.00	
		For Stainless Steel, Add	161.18	
		For Aluminum, Add	9.07	
		For Galvanized Steel, Add	31.23	
34 05 43 00-0359	SF	1/2" A36 Steel Plates For Bridge Repair.....	58.19	16.45
		For A50 Grade Steel, Add	2.04	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
		For Fractured Critical, Add	20.00	
34 05 43 00-0360	SF	5/8" A36 Steel Plates For Bridge Repair.....	72.73	20.55
		For A50 Grade Steel, Add	2.56	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
		For Fractured Critical, Add	20.00	
34 05 43 00-0361	SF	3/4" A36 Steel Plates For Bridge Repair.....	87.29	24.54
		For A50 Grade Steel, Add	3.07	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
		For Fractured Critical, Add	20.00	
34 05 43 00-0362	SF	7/8" A36 Steel Plates For Bridge Repair.....	101.83	28.77
		For A50 Grade Steel, Add	3.58	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
		For Fractured Critical, Add	20.00	
34 05 43 00-0363	SF	1" A36 Steel Plates For Bridge Repair.....	116.38	32.88
		For A50 Grade Steel, Add	4.09	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
		For Fractured Critical, Add	20.00	
34 05 43 00-0364	SF	1-1/4" A36 Steel Plates For Bridge Repair.....	145.47	41.11
		For A50 Grade Steel, Add	5.11	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
		For Fractured Critical, Add	20.00	
34 05 43 00-0365	SF	1-3/8" A36 Steel Plates For Bridge Repair.....	160.02	45.22
		For A50 Grade Steel, Add	5.62	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
		For Fractured Critical, Add	20.00	
34 05 43 00-0366	SF	1-1/2" A36 Steel Plates For Bridge Repair.....	174.57	49.33
		For A50 Grade Steel, Add	6.13	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
		For Fractured Critical, Add	20.00	
34 05 43 00-0367	CWT	Removal Of Existing Steel For Bridge Repair A36.....	70.95	
		Note: For use with angles, channels and steel plates up to 5' x 5'.		
		For Removal Over 30' To 50', Add	14.19	
		For Removal Over 50' To 75', Add	24.83	
		For Removal Over 75', Add	35.48	
34 05 43 00-0368	TON	Removal Of Existing Steel For Bridge Repair A36.....	946.07	
		Note: For use with I-beams, floor beams and plates over 5' x 5'.		
		For Removal Over 30' To 50', Add	189.21	
		For Removal Over 50' To 75', Add	331.12	
		For Removal Over 75', Add	473.04	
34 05 43 00-0369	CWT	Miscellaneous Steel For Bridge Repair A36.....	438.74	
		Note: For use with angles, channels and steel plates up to 5' x 5'.		
		For A50 Grade Steel, Add	73.56	
		Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
		Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
34 05 43 00-0370	TON	Miscellaneous Steel For Bridge Repair A36.....	6,983.00	
		Note: For use with I-beams, floor beams and plates over 5' x 5'.		
		For A50 Grade Steel, Add	1,207.39	
		Cutting Fee For I-beams, Floor Beams And Plates Over 5' x 5', Add Per Each Piece	30.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0371	EA		Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair Up To 15/16" Diameter	39.96	
			Note: Per each hole drilled per steel member.		
34 05 43 00-0372	EA		Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair >15/16" Diameter.....	51.93	
			Note: Per each hole drilled per steel member.		
34 05 43 00-0373	EA		Bolts A325 For Steel Repair Connections Up To 7/8".....	33.48	2.29
34 05 43 00-0374	EA		Bridge Girder Rivet Removal	355.09	
34 05 43 00-0375	LF		Up To 1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting.....	7.70	
			Note: Includes rust or scale removal.		
34 05 43 00-0376	LF		>1/2" To 1" Thick Edge Grinding, Smoothing Surface After Torch Cutting	13.42	
			Note: Includes rust or scale removal.		
34 05 43 00-0377	LF		>1" To 1-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting.....	19.15	
			Note: Includes rust or scale removal.		
34 05 43 00-0378	LF		>1-1/2" To 2" Thick Edge Grinding, Smoothing Surface After Torch Cutting.....	24.88	
			Note: Includes rust or scale removal.		
34 05 43 00-0379	LF		>2" To 2-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting.....	30.60	
			Note: Includes rust or scale removal.		
34 05 43 00-0380	LF		>2-1/2" To 3" Thick Edge Grinding, Smoothing Surface After Torch Cutting.....	36.33	
			Note: Includes rust or scale removal.		
34 05 43 00-0381 Cleaning And Preparation Of Painted And Unpainted Metal Surfaces (34 05 43 00-0387)					
34 05 43 00-0382	SF		Loose Mill Scale With Fine Powder, Commercial Blast, Surface Preparation, Bridge Girder Repair.....	1.28	
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 15,000, Deduct	-0.12	
			For >15,000 To 30,000, Deduct	-0.19	
			For >30,000, Deduct	-0.25	
34 05 43 00-0383	SF		Tight Mill Scale With Fine Powder Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.75	
			For Up To 100, Add	1.07	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.21	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 15,000, Deduct	-0.16	
			For >15,000 To 30,000, Deduct	-0.25	
			For >30,000, Deduct	-0.33	
34 05 43 00-0384	SF		Exterior Coating Blistered Pitted, Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	2.56	
			For Up To 100, Add	1.59	
			For >100 To 250, Add	0.74	
			For >250 To 500, Add	0.32	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 15,000, Deduct	-0.24	
			For >15,000 To 30,000, Deduct	-0.37	
			For >30,000, Deduct	-0.49	
34 05 43 00-0385	SF		Badly Pitted With Rust Nodules, Commercial Blast, Surface Preparation, Bridge Girder Repair	4.28	
			For Up To 100, Add	2.66	
			For >100 To 250, Add	1.24	
			For >250 To 500, Add	0.53	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 15,000, Deduct	-0.40	
			For >15,000 To 30,000, Deduct	-0.62	
			For >30,000, Deduct	-0.82	
34 05 43 00-0386	SF		Loose Mill Scale With Fine Powder Rust, Near White Blast, Surface Preparation, Bridge Girder Repair.....	3.25	
			For Up To 100, Add	1.99	
			For >100 To 250, Add	0.93	
			For >250 To 500, Add	0.40	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 15,000, Deduct	-0.30	
			For >15,000 To 30,000, Deduct	-0.47	
			For >30,000, Deduct	-0.62	
34 05 43 00-0387	SF		Tight Mill Scale Little Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	4.04	
			For Up To 100, Add	2.45	
			For >100 To 250, Add	1.14	
			For >250 To 500, Add	0.49	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 15,000, Deduct	-0.37	
			For >15,000 To 30,000, Deduct	-0.58	
			For >30,000, Deduct	-0.77	
34 05 43 00-0388	SF		Exterior Coat Blistered Pitted Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	5.22	
			For Up To 100, Add	3.18	
			For >100 To 250, Add	1.48	
			For >250 To 500, Add	0.64	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 15,000, Deduct	-0.48	
			For >15,000 To 30,000, Deduct	-0.75	
			For >30,000, Deduct	-1.00	
34 05 43 00-0389	SF		Badly Pitted Rust Nodules, Near White Blast, Surface Preparation, Bridge Girder Repair.....	6.53	
			For Up To 100, Add	3.98	
			For >100 To 250, Add	1.86	
			For >250 To 500, Add	0.80	
			For >5,000 To 10,000, Deduct	-0.30	
			For >10,000 To 15,000, Deduct	-0.60	
			For >15,000 To 30,000, Deduct	-0.94	
			For >30,000, Deduct	-1.24	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
34 05 43 00-0390 Galvanized Anchor Bolts For Bridge Bearings (34 05 43 00-0337)

34 05 43 00-0391	EA	1/2" Diameter x 6" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	17.93
34 05 43 00-0392	EA	1/2" Diameter x 12" Long, J-Type Galvanized Anchor Bolts For Bridge Bearings.....	26.95
34 05 43 00-0393	EA	1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	34.52
34 05 43 00-0394	EA	5/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	42.17
34 05 43 00-0395	EA	5/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	53.96
34 05 43 00-0396	EA	5/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	61.23
34 05 43 00-0397	EA	3/4" Diameter x 8" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	60.87
34 05 43 00-0398	EA	3/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	70.32
34 05 43 00-0399	EA	3/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	88.10
34 05 43 00-0400	EA	3/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	109.03
34 05 43 00-0401	EA	7/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	81.88
34 05 43 00-0402	EA	7/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	97.26
34 05 43 00-0403	EA	7/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	126.91
34 05 43 00-0404	EA	1" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	103.75
34 05 43 00-0405	EA	1" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	124.24
34 05 43 00-0406	EA	1" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	154.74
34 05 43 00-0407	EA	1" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	189.71
34 05 43 00-0408	EA	1-1/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	127.20
34 05 43 00-0409	EA	1-1/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	152.43
34 05 43 00-0410	EA	1-1/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	189.97
34 05 43 00-0411	EA	1-1/8" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	232.78
34 05 43 00-0412	EA	1-1/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	156.43
34 05 43 00-0413	EA	1-1/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	187.58
34 05 43 00-0414	EA	1-1/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	233.92
34 05 43 00-0415	EA	1-1/4" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	286.47
34 05 43 00-0416	EA	1-1/2" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	192.99
34 05 43 00-0417	EA	1-1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	231.47
34 05 43 00-0418	EA	1-1/2" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	288.88
34 05 43 00-0419	EA	1-1/2" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	353.63

34 05 43 00-0420 Welding For Bridge Repair (34 05 43 00-0337)

34 05 43 00-0421	EA	Minimum Charge For Welding For Bridge Repair.....	2,554.35
Note: For projects where the total welding charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.			
34 05 43 00-0422	LF	3/16" Fillet Welding For Bridge Repair.....	17.00
		For Full Penetration Weld, Add	6.26
34 05 43 00-0423	LF	1/4" Fillet Welding For Bridge Repair.....	25.55
		For Full Penetration Weld, Add	9.39
34 05 43 00-0424	LF	5/16" Fillet Welding For Bridge Repair.....	34.09
		For Full Penetration Weld, Add	12.52
34 05 43 00-0425	LF	3/8" Fillet Welding For Bridge Repair.....	42.56
		For Full Penetration Weld, Add	15.64
34 05 43 00-0426	LF	7/16" Fillet Welding For Bridge Repair.....	49.66
		For Full Penetration Weld, Add	18.77
34 05 43 00-0427	LF	1/2" Fillet Welding For Bridge Repair.....	59.14
		For Full Penetration Weld, Add	21.73
34 05 43 00-0428	LF	9/16" Fillet Welding For Bridge Repair.....	68.32
		For Full Penetration Weld, Add	25.60
34 05 43 00-0429	LF	5/8" Fillet Welding For Bridge Repair.....	75.51
		For Full Penetration Weld, Add	28.16
34 05 43 00-0430	LF	3/4" Fillet Welding For Bridge Repair.....	104.98
		For Full Penetration Weld, Add	38.49
34 05 43 00-0431	LF	7/8" Fillet Welding For Bridge Repair.....	137.32
		For Full Penetration Weld, Add	51.02
34 05 43 00-0432	LF	1" Fillet Welding For Bridge Repair.....	192.39
		For Full Penetration Weld, Add	70.40

34 05 43 00-0433 Bridge Trough Repair (34 05 43)

34 05 43 00-0434	EA	New Bridge Trough Hanger.....	324.25	28.63
34 05 43 00-0435	EA	Reattach By Welding Existing Bridge Trough Hanger, Top And/or Bottom.....	77.99	
34 05 43 00-0436	EA	Removal And Replacement Of All Thread For Existing Bridge Trough Hanger.....	139.01	
34 05 43 00-0437	EA	Removal And Replacement Of Steel Angle Attachment For Existing Bridge Trough Hanger.....	74.83	

34 05 43 00-0438 Spot Paint Removal And Painting, Bridge Structural Steel (34 05 43)

34 05 43 00-0439	HR	Testing For Lead And Asbestos Paint Removal By Asbestos Contractor.....	120.08
34 05 43 00-0440	EA	Up To 4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	223.65
34 05 43 00-0441	SF	>4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	55.92
34 05 43 00-0442	EA	Up To 4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal.....	313.74
		Note: Includes high efficiency particulate air (HEPA) vacuuming.	
34 05 43 00-0443	SF	>4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal.....	78.44
		Note: Includes high efficiency particulate air (HEPA) vacuuming.	
34 05 43 00-0444	CF	Treat and Dispose of Removed Paint Waste.....	6.88
34 05 43 00-0445	SF	Flat Surfaces Spot Painting.....	59.13
		Note: Includes 1 coat epoxy rust inhibiting primer and 2 coats epoxy paint finish.	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0446	EA	Minimum Charge For Plastic Barrier Enclosure for Paint Removal..... Note: Up to an 8' x 8' area, 7' high. Includes 10 mil plastic on walls and floor. 2"x4" construction. Excludes scaffolding.	1,323.97	
34 05 43 00-0447	SF	Plastic Barrier Enclosure For Paint Removal..... Note: For projects where the total charge exceeds the minimum charge for plastic barrier enclosures. Includes 10 mil plastic on floor and walls. 2" x 4" construction. Excludes scaffolding. Use area of walls and floor for quantity.	4.14	
34 05 43 00-0448		End Beam Cleaning And Painting For Bridges (34 05 43)		
34 05 43 00-0449	SF	End Beam Cleaning and Painting..... Note: Includes high-pressure wash at minimum 3,003 to 5,000 PSI, spot cleaning damaged/rusted areas with hand and power tools (SSPC - SP2 and SP3), solvent cleaning (SSPC-SP1), one coat of aluminum epoxy mastic (minimum 6 mils) to spot cleaned areas, one coat sealer (1-2 mils), and one coat polyurethane finish.	4.33	
		For Up To 100, Add	4.33	
		For >100 To 500, Add	2.86	
		For >500 To 3,000, Add	1.43	
		For >5,000 To 7,500, Deduct	-0.70	
		For >7,500 To 10,000, Deduct	-1.05	
		For >10,000, Deduct	-1.49	
34 05 43 00-0450		Pedestrian Fences For Bridges (34 05 43)		
34 05 43 00-0451		Pedestrian Fence Assembly For Bridges (34 05 43 00-0450) Note: Includes 1", 11 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, 1-5/8" top rail, 1-5/8" bottom rail, 2-7/8" post 10' on-center. Posts exclude installation onto bridge. Heights indicated are for mesh to top.		
34 05 43 00-0452		Galvanized Pedestrian Fence Assembly For Bridges (34 05 43 00-0451)		
34 05 43 00-0453	LF	4' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center..... For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add	59.14 3.22 12.09 11.09 4.07	12.21
34 05 43 00-0454	LF	>4' To 5' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center..... For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add	64.41 3.50 13.11 11.99 4.38	12.82
34 05 43 00-0455	LF	>5' To 6' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center..... For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add	69.75 3.78 14.14 12.90 4.71	13.43
34 05 43 00-0456	LF	>6' To 7' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center..... For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add	73.20 3.97 14.83 13.53 4.94	14.04
34 05 43 00-0457	LF	>7' To 8' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center..... For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add	83.29 4.50 16.79 15.27 5.55	15.26
34 05 43 00-0458		Vinyl Coated Pedestrian Fence Assembly For Bridges (34 05 43 00-0451)		
34 05 43 00-0459	LF	4' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center..... For Powder Coated, Add For Aluminum Coated, Add For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add	62.14 7.99 15.98 3.37 12.63 11.54 4.22	12.21
34 05 43 00-0460	LF	>4' To 5' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center..... For Powder Coated, Add For Aluminum Coated, Add For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add	68.20 8.98 17.97 3.69 13.79 12.56 4.57	12.82
34 05 43 00-0461	LF	>5' To 6' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center..... For Powder Coated, Add For Aluminum Coated, Add For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add	77.44 10.61 21.22 4.16 15.53 14.06 5.09	13.43

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0462 LF >6' To 7' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	82.15	14.04
For Powder Coated, Add	11.33	
For Aluminum Coated, Add	22.66	
For Posts 8' On Centers, Add	4.41	
For Posts 5' On Centers, Add	16.45	
For Up To 100, Add	14.87	
For >100 To 250, Add	5.38	
34 05 43 00-0463 LF >7' To 8' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	93.72	15.26
For Powder Coated, Add	13.20	
For Aluminum Coated, Add	26.40	
For Posts 8' On Centers, Add	5.02	
For Posts 5' On Centers, Add	18.67	
For Up To 100, Add	16.83	
For >100 To 250, Add	6.07	
34 05 43 00-0464 Bridge Connection Mounting For Pedestrian Fence Assembly (34 05 43 00-0451)		
34 05 43 00-0465 EA Attach Bridge Fence Post To Steel Bridge Railing Post With U-Bolt, Washers And Nuts.....	66.46	
Note: Includes drilling into steel post.		
34 05 43 00-0466 EA Attach Bridge Fence Post Base To Existing Plate, Welding And Touch-up With Galvanized Paint.....	34.73	
34 05 43 00-0467 EA Attach Bridge Fence Post Base With Plate, Welding And Touch-up With Galvanized Paint.....	91.22	
34 05 43 00-0468 EA Attach Bridge Fence Post To Concrete Safety Shape Barrier With Bolt, 5/8" Diameter x 4-3/4" Anchor Rods, Washers And Nuts.....	111.27	
Note: Includes drilling into steel post.		
34 05 43 00-0469 EA Attach Bridge Fence Post To Stone Faced Barrier Top With Plate, 3/8" Diameter Anchor Rods, Washers And Nuts.....	143.40	
Note: Includes drilling into steel post.		

34 10 Guideways/Railways (34)**34 11 Rail Tracks (34 10)****34 11 93 Track Appurtenances and Accessories (34 11)****34 11 93 00-0001 Railroad Crossings (34 11 93)****34 11 93 00-0002 Asphalt Railroad Crossings (34 11 93 00-0001)**

Note: Based on 8" thickness x 20' including track and approach.

34 11 93 00-0003 EA 8" Asphalt Railroad Crossing, 12' Roadway 6 CY.....	2,366.86	402.63
34 11 93 00-0004 EA 8" Asphalt Railroad Crossing, 15' Roadway 7.4 CY.....	2,773.40	456.31
34 11 93 00-0005 EA 8" Asphalt Railroad Crossing, 18' Roadway 8.9 CY.....	3,269.24	536.84
34 11 93 00-0006 EA 8" Asphalt Railroad Crossing, 21' Roadway 10.4 CY.....	3,887.80	644.20
34 11 93 00-0007 EA 8" Asphalt Railroad Crossing, 24' Roadway 11.9 CY.....	4,721.06	805.25

34 11 93 00-0008 Railroad Crossings - Precast Concrete Inserts (34 11 93 00-0001)

Note: Based on 6" thickness x standard rail width gauge.

34 11 93 00-0009 EA Precast Concrete, Railroad Crossing, 12' Road 6" Thick, Standard Gauge.....	4,903.69	170.58
34 11 93 00-0010 EA Precast Concrete, Railroad Crossing, 15' Road 6" Thick, Standard Gauge.....	6,129.61	207.13
34 11 93 00-0011 EA Precast Concrete, Railroad Crossing, 18' Road 6" Thick, Standard Gauge.....	7,349.50	255.87
34 11 93 00-0012 EA Precast Concrete, Railroad Crossing, 21' Road 6" Thick, Standard Gauge.....	8,570.93	292.42
34 11 93 00-0013 EA Precast Concrete, Railroad Crossing, 24' Road 6" Thick, Standard Gauge.....	9,791.39	341.16

34 11 93 00-0014 Molded Rubber Railroad Crossings With Headers (34 11 93 00-0001)

Note: Based on 3' x 8'-6" sections.

34 11 93 00-0015 EA Molded Rubber Railroad Crossing, 12' Road 3' x 8'-6" Sections With Headers.....	3,375.78	170.58
34 11 93 00-0016 EA Molded Rubber Railroad Crossing, 15' Road 3' x 8'-6" Sections With Headers.....	4,011.49	207.13
34 11 93 00-0017 EA Molded Rubber Railroad Crossing, 18' Road 3' x 8'-6" Sections With Headers.....	4,641.17	255.87
34 11 93 00-0018 EA Molded Rubber Railroad Crossing, 21' Road 3' x 8'-6" Sections With Headers.....	5,272.38	292.42
34 11 93 00-0019 EA Molded Rubber Railroad Crossing, 24' Road 3' x 8'-6" Sections With Headers.....	5,902.63	341.16

34 11 93 00-0020 Railroad Trackage Demolition (34 11 93)

34 11 93 00-0021 CY Removal Of Railroad Track Ballast.....	11.03	
34 11 93 00-0022 LF Removal Of Railroad Track Rail And Spikes.....	27.57	
34 11 93 00-0023 EA Removal And Disposal Of Concrete Post Footings.....	159.10	
34 11 93 00-0024 EA Backfill Holes From Post Removal.....	66.31	

34 40 Transportation Signaling and Control Equipment (34)**34 41 Roadway Signaling and Control Equipment (34 40)****34 41 13 Traffic Signals (34 41)****34 41 13 00-0001 Traffic Signals (34 41 13)**

34 41 13 00-0002 EA Single Traffic Signal Head, 4 Way Pattern.....	8,321.45	895.91



		Transportation	34
		Transportation Signaling and Control Equipment	34 40
		Roadway Signaling and Control Equipment	34 41

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0003		Traffic Detector Induction Loop (34 41 13)		
34 41 13 00-0004	EA	6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	459.05	
34 41 13 00-0005	EA	6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	572.62	
34 41 13 00-0006	EA	6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	650.27	
34 41 13 00-0007	EA	6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	561.19	
34 41 13 00-0008	EA	6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	973.87	
34 41 13 00-0009	EA	6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,193.43	
34 41 13 00-0010	EA	6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,273.64	
34 41 13 00-0011	EA	6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,578.87	
34 41 13 00-0012	EA	6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,696.88	
34 41 13 00-0013	EA	6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,811.74	
34 41 13 00-0014	EA	6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,955.90	
34 41 13 00-0015	LF	In Pavement, Lead Wire For Traffic Signal Detector..... Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.	9.19	
34 41 13 00-0016	LF	In Earthwork, Lead Wire For Traffic Signal Detector..... Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.	3.98	
34 41 13 00-0017	EA	2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	298.53	
34 41 13 00-0018	EA	4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	843.42	
34 41 13 00-0019	EA	2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	523.71	
34 41 13 00-0020		Overhead Traffic Signals (34 41 13)		
34 41 13 00-0021	EA	Vehicle Signal Face, LED, 1 - 12" Section.....	623.92	190.39
34 41 13 00-0022	EA	Vehicle Signal Face, LED, 2 - 12" Sections.....	1,016.63	268.77
34 41 13 00-0023	EA	Vehicle Signal Face, LED, 3 - 12" Sections.....	1,427.40	328.50
34 41 13 00-0024	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank.....	1,355.18	328.50
34 41 13 00-0025	EA	Vehicle Signal Face, LED, 4 - 12" Sections.....	1,815.04	365.83
34 41 13 00-0026	EA	Vehicle Signal Face, LED, 5 - 12" Sections.....	2,172.80	388.23
34 41 13 00-0027	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Cluster.....	2,312.43	388.23
34 41 13 00-0028	EA	Vehicle Signal Face, LED, 1 - 8" Section.....	587.80	190.39
34 41 13 00-0029	EA	Vehicle Signal Face, LED, 2 - 8" Sections.....	944.41	268.77
34 41 13 00-0030	EA	Vehicle Signal Face, LED, 3 - 8" Sections.....	1,251.65	328.50
34 41 13 00-0031	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section.....	1,340.73	328.50
34 41 13 00-0032	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections.....	1,660.96	365.83
34 41 13 00-0033	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section.....	1,610.40	365.83
34 41 13 00-0034	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections.....	1,907.97	388.23
34 41 13 00-0035	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster.....	2,021.13	388.23
34 41 13 00-0036	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed.....	2,920.05	328.50
34 41 13 00-0037	EA	Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed.....	3,820.48	365.83
34 41 13 00-0038	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed.....	4,989.57	388.23
34 41 13 00-0039	EA	Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed.....	5,410.89	388.23
34 41 13 00-0040	EA	Bracket Signal Mounting Assembly.....	601.98	149.32
34 41 13 00-0041	EA	Mast Arm Signal Mounting Assembly.....	1,064.33	298.64
34 41 13 00-0042	EA	Top Pole Signal Mounting Assembly.....	373.24	111.99
34 41 13 00-0043	EA	Pedestrian Signal Head.....	1,097.97	223.98
34 41 13 00-0044	EA	Pedestrian Signal Insert.....	679.00	111.99
34 41 13 00-0045	EA	Audible Pedestrian Signal.....	1,513.62	
34 41 13 00-0046	EA	Junction Box, Pole Or Post Mounted.....	627.54	
34 41 13 00-0047	EA	Pedestrian Push Button.....	566.02	
34 41 13 00-0048	EA	Illuminated Sign, Bracket Mounted, Symbolic.....	4,513.18	
34 41 13 00-0049	EA	Illuminated Sign, Mast Arm Mounted, Symbolic.....	4,709.11	
34 41 13 00-0050	EA	Sign, Message, "BLANK OUT", Bracket Mounted.....	4,970.96	
34 41 13 00-0051	EA	Sign, Message, "BLANK OUT", Mast Arm Mounted.....	5,284.26	
34 41 13 00-0052	EA	Sign, Fiber Optic, Bracket Mounted.....	5,665.36	
34 41 13 00-0053	EA	Sign, Fiber Optic, Mast Arm Mounted.....	5,985.23	
34 41 13 00-0054	EA	16' Pedestal With Base Plate And Cover.....	1,919.13	209.84
34 41 13 00-0055	EA	30' Type 15TS Signal And Lighting Standard..... Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.	8,531.23	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0056	EA	35' Type 21TS Signal And Lighting Standard Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.	9,927.78	
34 41 13 00-0057	EA	17' Type 18-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.	4,774.54	
34 41 13 00-0058	EA	17' Type 18-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.	5,313.74	
34 41 13 00-0059	EA	17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.	5,520.44	
34 41 13 00-0060	EA	17' Type 23-3-100 Signal And Lighting Standard Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	5,520.44	
34 41 13 00-0061	EA	17' Type 23-4-100 Signal And Lighting Standard Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	5,628.96	
34 41 13 00-0062	EA	17' Type 27-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	6,171.55	
34 41 13 00-0063	EA	17' Type 27-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	6,296.32	
34 41 13 00-0064	EA	17' Type 28-5-100 Signal And Lighting Standard Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.	6,552.16	
34 41 13 00-0065	EA	17' Type 60-5-100 Signal And Lighting Standard Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.	6,955.08	
34 41 13 00-0066	EA	18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.	5,091.74	
34 41 13 00-0067	EA	30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.	9,097.40	
34 41 13 00-0068	EA	30' Type 19-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.	10,229.73	
34 41 13 00-0069	EA	30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.	10,663.79	
34 41 13 00-0070	EA	30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.	10,663.79	
34 41 13 00-0071	EA	30' Type 26-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.	12,031.07	
34 41 13 00-0072	EA	30' Type 26-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.	12,555.21	
34 41 13 00-0073	EA	30' Type 29-5-100 Signal And Lighting Standard Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.	13,105.53	
34 41 13 00-0074	EA	30' Type 61-5-100 Signal And Lighting Standard Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.	13,972.32	
34 41 13 00-0075	EA	35' Type 17A-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.	10,576.76	
34 41 13 00-0076	EA	35' Type 19A-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.	11,897.81	
34 41 13 00-0077	EA	35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.	12,404.23	
34 41 13 00-0078	EA	35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.	12,404.23	
34 41 13 00-0079	EA	35' Type 26A-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	13,999.38	
34 41 13 00-0080	EA	35' Type 26A-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	14,610.87	
34 41 13 00-0081	EA	35' Type 29A-5-100 Signal And Lighting Standard Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.	15,252.92	
34 41 13 00-0082	EA	35' Type 61A-5-100 Signal And Lighting Standard Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.	16,264.15	
34 41 13 00-0083	EA	15' Steel Straight Mast Arm, MONOTUBE.....	3,436.98	
34 41 13 00-0084	EA	20' Steel Straight Mast Arm, MONOTUBE.....	3,608.09	
34 41 13 00-0085	EA	25' Steel Straight Mast Arm, MONOTUBE.....	3,866.53	
34 41 13 00-0086	EA	30' Steel Straight Mast Arm, MONOTUBE.....	5,244.79	
34 41 13 00-0087	EA	35' Steel Straight Mast Arm, MONOTUBE.....	6,326.11	
34 41 13 00-0088	EA	40' Steel Straight Mast Arm, MONOTUBE.....	6,794.93	
34 41 13 00-0089	EA	45' Steel Straight Mast Arm, MONOTUBE.....	7,467.01	
34 41 13 00-0090	EA	50' Steel Straight Mast Arm, MONOTUBE.....	8,476.80	
		<i>For Curved Mast Arm, Add</i>	935.52	
34 41 13 00-0091	EA	55' Steel Straight Mast Arm, MONOTUBE.....	9,643.26	
		<i>For Curved Mast Arm, Add</i>	1,043.36	
34 41 13 00-0092	EA	60' Steel Straight Mast Arm, MONOTUBE.....	10,396.98	
		<i>For Curved Mast Arm, Add</i>	1,089.19	
34 41 13 00-0093	EA	65' Steel Straight Mast Arm, MONOTUBE.....	12,067.14	
		<i>For Curved Mast Arm, Add</i>	1,272.52	
34 41 13 00-0094	EA	70' Steel Straight Mast Arm, MONOTUBE.....	15,936.97	
		<i>For Curved Mast Arm, Add</i>	1,539.43	
34 41 13 00-0095	EA	4' Steel Curved Luminaire Mast Arm	1,172.42	
34 41 13 00-0096	EA	6' Steel Curved Luminaire Mast Arm	1,525.81	
		<i>For High Rise Arm, Add</i>	134.80	
34 41 13 00-0097	EA	8' Steel Curved Luminaire Mast Arm	1,909.06	
34 41 13 00-0098	EA	10' Steel Curved Luminaire Mast Arm	2,603.01	
		<i>For High Rise Arm, Add</i>	198.43	
34 41 13 00-0099	EA	12' Steel Curved Luminaire Mast Arm	2,881.57	
		<i>For High Rise Arm, Add</i>	234.02	
34 41 13 00-0100	EA	15' Steel Curved Luminaire Mast Arm	3,019.99	
		<i>For High Rise Arm, Add</i>	260.97	
34 41 13 00-0101	EA	18' Steel Curved Luminaire Mast Arm	3,230.26	
		<i>For High Rise Arm, Add</i>	286.32	



		Transportation	34	34
		Transportation Signaling and Control Equipment	34 40	
		Roadway Signaling and Control Equipment	34 41	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0102	EA	20' Steel Curved Luminaire Mast Arm <i>For High Rise Arm, Add</i>	3,439.14 311.66	
34 41 13 00-0103	EA	15' Tubular Aluminum Post.....	1,235.91	
34 41 13 00-0104	EA	17' Tubular Aluminum Post.....	1,314.85	
34 41 13 00-0105	EA	20' Tubular Aluminum Post.....	1,460.45	
34 41 13 00-0106	EA	14' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm.	4,235.34	
34 41 13 00-0107	EA	21' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm.	6,464.05	
34 41 13 00-0108	EA	22' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm and luminare arm.	6,715.68	
34 41 13 00-0109	EA	30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm Note: For mast arm and luminare arm.	9,091.73	
34 41 13 00-0110	EA	32' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm Note: For mast arm and luminare arm.	9,627.38	
34 41 13 00-0111	EA	30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm Note: For mast arm and luminare arm.	7,519.07	
34 41 13 00-0112	EA	30' High Galvanized Steel Traffic Signal Pole, Octafute	6,699.73	
34 41 13 00-0113	EA	30' (High Spun Aluminum Traffic Signal Pole, Tapered.....	5,460.46	
34 41 13 00-0114	EA	Type 26-6-70 Signal Pole With 55' SMA And 20' LMA	27,106.98	
34 41 13 00-0115	EA	Type 29-6-70 Signal Pole With 65' SMA And 20' LMA	31,295.88	
34 41 13 00-0116	EA	CUT-OFF POLE AND CAPPED	214.42	
34 41 13 00-0117	EA	PAINT EXISTING SL/TS CONTROLLER COMPLETE	64.33	
34 41 13 00-0118	EA	PAINT EXISTING TS POST COMPLETE	303.90	
34 41 13 00-0119	EA	1 Channel Loop Detector Amplifier	1,923.64	
34 41 13 00-0120	EA	4 Channel Loop Detector Amplifier	3,640.22	
34 41 13 00-0121	EA	FLASHING BEACON WITH DOWNLIGHT.....	2,669.10	
34 41 13 00-0122	EA	Flashing Beacon, Bracket Mounted	890.54	
34 41 13 00-0123	EA	Flashing Beacon, Mast Arm Mounted.....	890.54	
34 41 13 00-0124	EA	Flashing Beacon, Solar Powered, Bracket Mounted.....	23,996.87	
34 41 13 00-0125	EA	Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	4,395.98	
34 41 13 00-0126	EA	Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US).....	2,363.81	
34 41 13 00-0127	EA	Smart Sensor HD (Wavetronix HD125)	12,552.74	
34 41 13 00-0128	EA	Access Point (Sensys AP240-ES)	5,807.98	
		Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41 13 00-0129	EA	Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA.....	10,043.72	
34 41 13 00-0130	EA	Mounting Kit for Access Points and Repeaters (KIT-MTG).....	359.33	
34 41 13 00-0131	EA	Repeater (Sensys RP240-B-LL)..... Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.	2,661.18	
34 41 13 00-0132	EA	Wireless Flush Mounted Sensor (Sensys VSN240-F)	1,195.58	
		Note: Excludes coring.		
34 41 13 00-0133	EA	Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug	2,990.91	
34 41 13 00-0134	EA	Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles	7,962.86	2.01
34 41 13 00-0135	EA	Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 And 26-4-80 Poles	10,409.99	2.01
34 41 13 00-0136	EA	Pole Base Foundation for Type 15 and 21 Poles	6,221.63	2.01
34 41 13 00-0137	EA	Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles	7,962.86	2.01
34 41 13 00-0138	EA	Pole Base Foundation for 26-4-100 And 27-4-100 Poles	10,409.99	2.01
34 41 13 00-0139	EA	Service Equipment Enclosure, Type III-AF.....	1,554.58	
34 41 13 00-0140	EA	12", 3 Section Signal, Mast Arm Mounted	1,849.03	
34 41 13 00-0141	EA	8", 3 Section Signal, Mast Arm Mounted	1,649.53	
34 41 13 00-0142	EA	12" FCV Visor	111.22	
34 41 13 00-0143	EA	8" FCV Visor	79.11	
34 41 13 00-0144	EA	Eggcrate Visor	107.24	
34 41 13 00-0145	EA	Pedestrian H/M.....	1,216.83	
34 41 13 00-0146	EA	Pedestrian Audio	1,335.11	
34 41 13 00-0147	EA	Adjustable Pushbutton.....	332.14	
34 41 13 00-0148	EA	ADA Cap And Switch	420.51	
34 41 13 00-0149	EA	3 Section 12" Backplate.....	180.44	
34 41 13 00-0150	EA	3 Section 12" MAS Mount Backplate	265.89	
34 41 13 00-0151	EA	3 Section 8" Backplate.....	145.55	
34 41 13 00-0152	EA	12" Red LED Lenses	306.26	
34 41 13 00-0153	EA	12" Amber LED Lenses	328.35	
34 41 13 00-0154	EA	12" Green LED Lenses	570.73	
34 41 13 00-0155	EA	12" Red Arrow	304.48	
34 41 13 00-0156	EA	12" Amber Arrow	288.30	
34 41 13 00-0157	EA	12" Green Arrow	430.07	
34 41 13 00-0158	EA	8" Red.....	301.21	
34 41 13 00-0159	EA	8" Amber.....	289.25	
34 41 13 00-0160	EA	8" Green	348.22	
34 41 13 00-0161	EA	Hand/Man	525.37	
34 41 13 00-0162	EA	Frameworks, 8" TV-1-T.....	640.55	
34 41 13 00-0163	EA	Frameworks, 8" TV-2-T.....	726.38	
34 41 13 00-0164	EA	Frameworks, MAT MT	191.57	
34 41 13 00-0165	EA	Frameworks, MAS MT	208.73	
34 41 13 00-0166	EA	Frameworks, 3W PT TC	434.56	
34 41 13 00-0167	EA	Frameworks, 2W PT TC	418.73	
34 41 13 00-0168	EA	Frameworks, 2W SM TC	395.84	
34 41 13 00-0169	EA	Frameworks, SV-1	263.03	
34 41 13 00-0170	EA	Frameworks, TV-1	254.45	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0171 EA Type III Service Pedestal	5,014.89	
34 41 13 00-0172 EA Single Fuse Holder	48.43	
34 41 13 00-0173 EA Double Fuse Holder	120.49	
34 41 13 00-0174 EA Pullbox, 1-1/2" x 20" x 14"	111.31	
34 41 13 00-0175 EA Pullbox, 5" x 28" x 18"	150.57	
34 41 13 00-0176 EA Pullbox, 6" x 36" x 23"	195.96	
34 41 13 00-0177 EA Pullbox Lids, FL9D	119.70	
34 41 13 00-0178 EA Pullbox Lids, FL30D	222.93	
34 41 13 00-0179 EA Pullbox Lids, FL36D	63.62	
34 41 13 00-0180 EA LED Enhanced Pedestrian Crossing Symbol Sign	2,114.11	125.65
Note: 2 required per system.		
34 41 13 00-0181 EA 42" Height, 8-1/2" Diameter Automatic Bollard Activation System	6,104.39	753.93
Note: 4 required per system.		
34 41 13 00-0182 EA Power Control Unit With Enclosure (Solar)	21,380.71	502.61
Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).		
34 41 13 00-0183 EA Power Control Unit With Enclosure (A/C)	13,720.04	502.61
34 41 13 00-0184 EA Push Button Assembly With Sign	1,217.82	251.31
34 41 13 00-0185 EA Advanced Warning Signs	2,393.94	251.31
34 41 13 00-0186 EA Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000)	6,847.57	
34 41 13 00-0187 EA Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100)	7,052.21	
34 41 13 00-0188 EA Traffic Signal Controller Unit, TS 2 Type 2 Econolite Model ASC/2S-2100	62,942.32	
34 41 13 00-0189 EA Traffic Signal Controller Unit, Replacement For Type 170E (ASC/3RM)	7,329.07	1,194.54
34 41 13 00-0190 EA Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way	1,291.32	
34 41 13 00-0191 EA Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way	1,411.69	
34 41 13 00-0192 EA Optical Detector For Mast Arm Mounting, 2 Channel	1,806.52	
34 41 13 00-0193 EA 2 Channel Phase Selector	4,101.32	
34 41 13 00-0194 EA 4 Channel Phase Selector	6,376.41	
34 41 13 00-0195 EA Malfunction Management Unit For Use With NEMA Controller	2,063.53	
34 41 13 00-0196 EA Malfunction Management Unit For Use With Type 170E Or 2070 Controller	2,063.53	68.76
34 41 13 00-0197 EA Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way	1,291.32	275.06
34 41 13 00-0198 EA Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way	1,411.69	275.06
34 41 13 00-0199 EA Optical Detector For Pole-Side Mounting, 2 Channel	1,806.52	275.06
34 41 13 00-0200 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way	1,291.32	275.06
34 41 13 00-0201 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way	1,411.69	275.06
34 41 13 00-0202 EA Optical Detector For Pedestal Or Pipe Mounting, 2 Channel	1,806.52	275.06
34 41 13 00-0203 EA Optical Detector For Span Wire Mounting, 1 Channel, 1 Way	1,291.32	275.06
34 41 13 00-0204 EA Optical Detector For Span Wire Mounting, 1 Channel, 2 Way	1,411.69	275.06
34 41 13 00-0205 EA Optical Detector For Span Wire Mounting, 2 Channel	1,806.52	275.06
34 41 13 00-0206 EA Optical Detector For Signal Top Mounting, 1 Channel, 1 Way	1,291.32	275.06
34 41 13 00-0207 EA Optical Detector For Signal Top Mounting, 1 Channel, 2 Way	1,411.69	275.06
34 41 13 00-0208 EA Optical Detector For Signal Top Mounting, 2 Channel	1,806.52	275.06
34 41 13 00-0209 EA Time Switch, 1-Circuit	301.30	
34 41 13 00-0210 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal	414.76	
34 41 13 00-0211 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay	542.36	
34 41 13 00-0212 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal	771.08	
34 41 13 00-0213 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay	968.49	
34 41 13 00-0214 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply	2,629.66	
34 41 13 00-0215 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet	2,629.66	
34 41 13 00-0216 EA Power Line Surge Protector - Edco SHP 300-10	243.06	
34 41 13 00-0217 EA Loop Detector Surge Protector - Edco SRA-6LC	123.79	
34 41 13 00-0218 EA Controller Cabinet (Econolite Type "O")	36,124.96	
34 41 13 00-0219 EA Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay	15,716.58	
34 41 13 00-0220 EA Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays	17,088.86	
34 41 13 00-0221 EA Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay	18,737.99	
34 41 13 00-0222 EA Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays	19,243.57	
34 41 13 00-0223 EA Speed Limit Beacon Control Cabinet	7,810.57	
34 41 13 00-0224 EA Speed Limit Beacon Control Option	6,914.66	447.95
34 41 13 00-0225 EA Remote Detector Cabinet	4,078.94	
34 41 13 00-0226 EA Traffic Signal Hand Control	1,141.26	
34 41 13 00-0227 EA Extra Pedestrian Detector Isolation Assembly	900.52	
34 41 13 00-0228 EA Fiber Optic Transceivers-Repeater Module	1,456.85	
34 41 13 00-0229 EA Field Transceiver-Repeater	729.28	
34 41 13 00-0230 EA Load Switch	114.52	
34 41 13 00-0231 EA 30" Pedestal With Base Plate And Cover	1,001.81	
34 41 13 00-0232 EA 8' Pedestal With Base Plate And Cover	1,470.32	
34 41 13 00-0233 EA 11' Pedestal With Base Plate And Cover	1,636.15	
34 41 13 00-0234 EA 15' Pedestal With Base Plate And Cover	1,818.82	
34 41 13 00-0235 LF 6-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.87	
34 41 13 00-0236 LF 12-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.99	
34 41 13 00-0237 LF 24-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.38	
34 41 13 00-0238 LF 36-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.79	
34 41 13 00-0239 LF 48-Fiber Interconnect Cable, Fiber Optic, Single Mode	3.18	
34 41 13 00-0240 LF 72-Fiber Interconnect Cable, Fiber Optic, Single Mode	3.90	
34 41 13 00-0241 LF 96-Fiber Interconnect Cable, Fiber Optic, Single Mode	4.57	
34 41 13 00-0242 LF 144-Fiber Interconnect Cable, Fiber Optic, Single Mode	5.91	
34 41 13 00-0243 LF 3/16" Diameter Messenger Cable	0.74	0.11
34 41 13 00-0244 LF 1/4" Diameter Messenger Cable	0.89	0.11
34 41 13 00-0245 LF 3/8" Diameter Messenger Cable	1.66	0.11
34 41 13 00-0246 LF 1/2" Diameter Messenger Cable	3.47	0.23



Transportation			34
Transportation Signaling and Control Equipment			34 40
Roadway Signaling and Control Equipment			34 41

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MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		
34 41 13 00-0247	EA	4' Diameter x 10' Concrete Base For Poles	3,061.91		
		Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.			
34 41 13 00-0248	EA	4' Diameter x 16' Concrete Base For Poles	4,830.56		
		Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.			
34 41 13 00-0249	EA	Single Strand Termination For Fiber Optics.....	4.52		
34 41 13 00-0250	EA	Internally Illuminated Street Name Sign, 1 Line, 4'	3,101.07		298.64
34 41 13 00-0251	EA	Internally Illuminated Street Name Sign, 1 Line, 6'	3,828.19		373.29
34 41 13 00-0252	EA	Internally Illuminated Street Name Sign, 1 Line, 8'	4,170.11		447.95
34 41 13 00-0253	EA	Internally Illuminated Street Name Sign, 1 Line, 10'	4,704.62		522.61
34 41 13 00-0254	EA	Internally Illuminated Street Name Sign, 1 Line, 12'	5,046.54		597.27
34 41 13 00-0255	EA	Internally Illuminated Street Name Sign, 2 Line, 4'	4,921.14		298.64
34 41 13 00-0256	EA	Internally Illuminated Street Name Sign, 2 Line, 6'	6,062.35		373.29
34 41 13 00-0257	EA	Internally Illuminated Street Name Sign, 2 Line, 8'	6,539.09		447.95
34 41 13 00-0258	EA	Internally Illuminated Street Name Sign, 2 Line, 10'	7,304.72		522.61
34 41 13 00-0259	EA	Internally Illuminated Street Name Sign, 2 Line, 12'	7,839.24		597.27
34 41 13 00-0260	EA	Photoelectric Controller, Multi-Volt.....	107.62		35.76
34 41 13 00-0261	EA	Photoelectric Controller, 120 Volt	110.48		35.76
34 41 13 00-0262	EA	Photoelectric Controller, 480 Volt	110.48		35.76
34 41 13 00-0263	EA	Wi-Fi Communication Unit	1,620.36		149.32
34 41 13 00-0264	EA	Wi-Fi Communication Unit Mounting Bracket	344.36		111.99
34 41 13 00-0265	EA	Wi-Fi Communication Unit Power Supply / POE Injector	315.44		74.66
34 41 13 00-0266	EA	Wi-Fi Communication Unit Packet	2,280.14		223.98
34 41 13 00-0267	EA	Ethernet Switch.....	6,310.52		62.83
34 41 13 00-0268	LF	Preemptor Detector Cable	1.87		
34 41 13 00-0269	EA	Fiber Optic Connector, Off-White Boot Or White Band.....	84.00		
34 41 13 00-0270	EA	Fiber Optic Connector, Red Boot Or Yellow Band	84.00		
34 41 13 00-0271	EA	Fiber Optic Splice Closure, Underground, 48-Splice	418.22		
34 41 13 00-0272	EA	Fiber Optic Splice Closure, Underground, 96-Splice	685.14		
34 41 13 00-0273	EA	Fiber Optic Splice Closure, Underground, 144-Splice	952.07		
34 41 13 00-0274	EA	Fiber Optic Splice Closure, Aerial, 48-Splice	484.04		111.99
34 41 13 00-0275	EA	Fiber Optic Splice Closure, Aerial, 96-Splice	751.55		115.73
34 41 13 00-0276	EA	Fiber Optic Splice Closure, Aerial, 144-Splice	1,019.08		119.45
34 41 13 00-0277	EA	Sno-Shoe Cable Storage Assembly	292.79		
34 41 13 00-0278	Traffic Signal Cable (34 41 13)				
34 41 13 00-0279	LF	16 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.51		1.04
34 41 13 00-0280	LF	16 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.85		1.11
34 41 13 00-0281	LF	16 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.17		1.18
34 41 13 00-0282	LF	16 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.47		1.26
34 41 13 00-0283	LF	16 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.86		1.33
34 41 13 00-0284	LF	16 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.53		1.48
34 41 13 00-0285	LF	16 AWG, 10-Conductor, Solid, Traffic Signal Cable	5.34		1.70
34 41 13 00-0286	LF	16 AWG, 12-Conductor, Solid, Traffic Signal Cable	6.16		1.92
34 41 13 00-0287	LF	16 AWG, 16-Conductor, Solid, Traffic Signal Cable	7.38		2.15
34 41 13 00-0288	LF	16 AWG, 20-Conductor, Solid, Traffic Signal Cable	8.84		2.37
34 41 13 00-0289	LF	14 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.62		1.04
34 41 13 00-0290	LF	14 AWG, 3-Conductor, Solid, Traffic Signal Cable	3.00		1.11
34 41 13 00-0291	LF	14 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.37		1.18
34 41 13 00-0292	LF	14 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.71		1.26
34 41 13 00-0293	LF	14 AWG, 6-Conductor, Solid, Traffic Signal Cable	4.16		1.33
34 41 13 00-0294	LF	14 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.92		1.48
34 41 13 00-0295	LF	14 AWG, 10-Conductor, Solid, Traffic Signal Cable	5.82		1.70
34 41 13 00-0296	LF	14 AWG, 12-Conductor, Solid, Traffic Signal Cable	6.74		1.92
34 41 13 00-0297	LF	14 AWG, 16-Conductor, Solid, Traffic Signal Cable	8.15		2.15
34 41 13 00-0298	LF	14 AWG, 20-Conductor, Solid, Traffic Signal Cable	9.86		2.37
34 41 13 00-0299	LF	12 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.88		1.04
34 41 13 00-0300	LF	12 AWG, 3-Conductor, Solid, Traffic Signal Cable	3.38		1.11
34 41 13 00-0301	LF	12 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.85		1.18
34 41 13 00-0302	LF	12 AWG, 5-Conductor, Solid, Traffic Signal Cable	4.28		1.26
34 41 13 00-0303	LF	12 AWG, 6-Conductor, Solid, Traffic Signal Cable	4.88		1.33
34 41 13 00-0304	LF	12 AWG, 8-Conductor, Solid, Traffic Signal Cable	5.86		1.48
34 41 13 00-0305	LF	12 AWG, 10-Conductor, Solid, Traffic Signal Cable	6.98		1.70
34 41 13 00-0306	LF	12 AWG, 12-Conductor, Solid, Traffic Signal Cable	8.12		1.92
34 41 13 00-0307	LF	12 AWG, 16-Conductor, Solid, Traffic Signal Cable	10.00		2.15
34 41 13 00-0308	LF	12 AWG, 20-Conductor, Solid, Traffic Signal Cable	12.33		2.37
34 41 13 00-0309	School Zone Flasher Beacons (34 41 13)				
34 41 13 00-0310	EA	One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	6,401.78		225.94
		Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.			
34 41 13 00-0311	EA	One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	6,447.51		225.94
		Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.			
34 41 13 00-0312	EA	Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	7,224.02		225.94
		Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.			
34 41 13 00-0313	EA	Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	7,370.38		225.94
		Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.			

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0314 EA 10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.	13,551.74	225.94
34 41 13 00-0315 EA 10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	14,125.32	225.94
34 41 13 00-0316 Traffic Light Control Synchronization (34 41 13)		
34 41 13 00-0317 EA ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	5,573.01	
34 41 13 00-0318 EA ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R)	4,159.08	
34 41 13 00-0319 EA ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24).....	9,540.25	
34 41 13 00-0320 EA 5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT)	6,514.08	
34 41 13 00-0321 EA 2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT)	6,514.08	
34 41 13 00-0322 EA Solar Cabinet Assembly.....	17,586.68	
34 41 13 00-0323 EA Data Controller Interface Cable Assembly	696.41	
34 41 13 00-0324 EA 900 MHz Splitter.....	823.29	
34 41 13 00-0325 EA 900 MHz Surge Suppressor.....	296.62	
34 41 13 00-0326 EA Surge-Radio Lead in Cable.....	186.64	
34 41 13 00-0327 EA 12DB GAIN YAGI Antenna	840.73	
34 41 13 00-0328 EA PELCO Antenna Mounting Bracket	561.70	
34 41 13 00-0329 MLF Coaxial Cable, LMR-400	4,522.17	
34 41 13 00-0330 EA Perle 16 Port Serial Server	4,731.76	
34 41 13 00-0331 EA Serial to Ethernet Card	2,511.34	
34 41 13 00-0332 EA 404 Stand-Alone Modem (GDI 404)	2,284.01	
34 41 13 00-0333 Traffic Signal Controls (34 41 13)		
34 41 13 00-0334 EA Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2).....	1,982.82	
34 41 13 00-0335 EA Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	823.99	
34 41 13 00-0336 EA Access Box for contract closure master card (CC-ACC).....	290.71	
34 41 13 00-0337 EA Flush Mount Wireless Sensor (ATT VSN240-F)	1,119.94	
34 41 13 00-0338 EA Flush Mount Wireless Sensor (Speed And Count VSN240-F).....	1,119.94	
34 41 13 00-0339 EA Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX)	172.70	
34 41 13 00-0340 EA SNAPS License for each enabled AP (SNAPS-PER-AP).....	474.52	
34 41 13 00-0341 Traffic Signal Devices (34 41 13)		
34 41 13 00-0342 EA 12" Polycarbonate Signal Head Housing (McCain).....	1,050.22	113.09
34 41 13 00-0343 EA 16" Polycarbonate Pedestrian Signal Housing (McCain).....	536.43	87.96
34 41 13 00-0344 EA Pedestrian Push Button Cap And Switch (McCain M31334)	409.10	163.36
34 41 13 00-0345 EA Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712)	559.89	238.74
34 41 13 00-0346 EA Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793)	430.52	188.48
34 41 13 00-0347 EA 16 Channel Conflict Monitor (McCain 2010 ECLIP)	1,574.53	81.67
34 41 13 00-0348 EA LED Countdown Head (McCain GTX PS7-CFF1-VLA).....	324.46	31.41
34 41 13 00-0349 EA Traffic signal Video Detection Camera (Iteris RZ4-awdr).....	3,562.30	138.22
34 41 13 00-0350 EA Camera processor card (Iteris Edge Connect).....	8,127.48	201.05
34 41 13 00-0351 EA Wireless Broadband Radio (Encorn BB58).....	7,674.86	188.48
34 41 13 00-0352 EA 24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900)	5,070.70	150.79
34 41 13 00-0353 EA Power Adapter (Mean Well DR-120-48)	179.96	47.13
34 41 13 00-0354 LF 14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452).....	1.07	
34 41 13 00-0355 EA Radar Detection System (Wavetronix Matrix)	14,728.96	477.49
34 41 13 00-0356 EA Pedestrian Audio Push Button (Polaris APS)	444.30	119.37
34 41 13 00-0357 EA Opticom Infrared System - Detector (GTT 711).....	1,142.97	112.08
34 41 13 00-0358 EA Opticom Infrared System - Detector (GTT 721).....	1,278.80	125.40
34 41 13 00-0359 EA Opticom Infrared System - Detector (GTT 722).....	1,781.09	174.66
34 41 13 00-0360 EA Opticom Multimode Phase Selector (GTT 764)	5,873.93	103.29
34 41 13 00-0361 LF Opticom GPS Installation Cable (GTT 1070).....	1.27	
34 41 13 00-0362 EA Precast Concrete Traffic Pull Box, 5-T, with steel frame and diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324)	982.55	
34 41 13 00-0363 EA Precast Concrete Traffic Pull Box, 6-T, with steel frame and diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730)	1,042.13	
34 41 13 00-0364 EA UPS Module (Alpha Technologies FXM 350)..... Note: For battery backup in traffic signal control cabinet	1,595.96	68.76
34 41 13 00-0365 EA Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual)..... Note: To control flashing "School" signs	504.41	56.55
34 41 13 00-0366 LF Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR).....	11.26	0.58
34 41 13 00-0367 LF Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber)	2.74	0.49
34 41 13 00-0368 EA 12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	151.92	56.55
34 41 13 00-0369 EA 12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	151.92	56.55
34 41 13 00-0370 EA 12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA).....	151.92	56.55
34 41 13 00-0371 EA 12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	151.92	56.55
34 41 13 00-0372 EA 12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	151.92	56.55
34 41 13 00-0373 EA 12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA).....	151.92	56.55
34 41 13 00-0374 EA LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA).....	447.27	144.50
34 41 13 00-0375 EA EOC Switch (Actellis ML688)	5,848.74	446.96
34 41 13 00-0376 EA Ethernet Extender Kit (ENABLE-IT 860 Pro)	1,574.58	103.14
34 41 13 00-0377 EA #5 pull box lid (Concrete, Bolt down) (Christy N30T).....	119.63	23.20
34 41 13 00-0378 EA #5 pull box lid (Steel, Bolt down) (Christy N30-61J).....	441.85	33.59



Transportation			34
Transportation Signaling and Control Equipment			34 40
Roadway Signaling and Control Equipment			34 41

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0379	EA		#6 pull box lid (Concrete, Bolt down) (Christy N36T).....	150.35	23.20
34 41 13 00-0380	EA		#6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	536.93	33.59
34 41 13 00-0381	EA		Battery Back-up (Alpha FXM110 UPS).....	3,779.60	137.53
34 41 13 00-0382	EA		Battery (Alpha AlphaCell 220GXL).....	536.02	34.38
34 41 13 00-0383	EA		BBS Cabinet (Alpha SE48-1616).....	4,357.03	309.43
34 41 13 00-0384	LF		Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	6.77	2.69
34 41 13 00-0385	LF		Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	2.99	1.24
34 41 13 00-0386	EA		FDU And Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	1,354.08	103.14
34 41 13 00-0387	EA		12" THREE SECTION HOUSING (McCain M22435).....	931.89	68.76
34 41 13 00-0388	EA		12" FOUR SECTION HOUSING (McCain M30883).....	1,199.24	103.14
34 41 13 00-0389	EA		12" FIVE SECTION HOUSING (McCain M31769).....	1,397.83	103.14
34 41 13 00-0390	EA		12" CLUSTER, WITHOUT MAS (McCain M30987).....	1,497.13	103.14
34 41 13 00-0391	EA		CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	931.89	68.76
34 41 13 00-0392	EA		NAVIGATOR IN2 APS 2 WIRE PPB #IN250N0-B (Polara IN250N0-B).....	931.89	68.76
34 41 13 00-0393	EA		NAVIGATOR IN2 CONTROLLER RACK MOUNT ICCU-C (Polara ICCU-C).....	5,446.09	240.67
34 41 13 00-0394	EA		NAVIGATOR IN2 INTERCONNECT BOARD IN2-ICB-C (Polara IN2-ICB-C).....	267.35	34.38
34 41 13 00-0395	EA		NAVIGATOR IN2 POWER SUPPLY IN2-150-WPS-C (Polara IN2-150-WPS-C).....	267.35	34.38
34 41 13 00-0396	EA		NAVIGATOR IN2 CONNECTOR IN2-C4CABLE-C (Polara IN2-c4cable-C).....	599.62	51.57
34 41 13 00-0397	EA		12" Visor (McCain M19302).....	47.36	13.76
34 41 13 00-0398	EA		LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256).....	500.32	51.57
34 41 13 00-0399	EA		SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258).....	832.59	68.76
34 41 13 00-0400	EA		CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259).....	1,546.77	103.14
34 41 13 00-0401	EA		ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487).....	832.59	68.76
34 41 13 00-0402	EA		HARN, SB1/SB2,COMM EXTENSION (McCain M48062).....	168.06	34.38
34 41 13 00-0403	EA		ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	500.32	51.57
34 41 13 00-0404	EA		CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	931.89	68.76
34 41 13 00-0405	EA		242L ISOLATOR, EDI (McCain M56812).....	168.06	34.38
34 41 13 00-0406	EA		EDI 222 DETECTOR (McCain M11407).....	217.70	34.38
34 41 13 00-0407	EA		ALPHA BBS, INVERTER AND BYPASS SWITCH (McCain M59763).....	3,719.85	171.90
34 41 13 00-0408	EA		GENERATOR SWITCH AND PLUG ASSY FOR ALPHA BBS (McCain M68752-2).....	614.15	68.76
34 41 13 00-0409	EA		BBS BATTERY, ALPHACELL 165GXL (McCain M59884).....	832.59	68.76
34 41 13 00-0410	EA		Battery Backup Cabinet Anondize 44x26x12 (McCain M64438A).....	1,745.36	103.14

34 41 16 Traffic Control Equipment (34 41)**34 41 16 00-0001 Transportation Control Equipment (34 41 16)**

34 41 16 00-0002	EA		CONTROLLER/SL/POLE MTD/1-PHASE/100A.....	11,858.38	1,032.09
34 41 16 00-0003	EA		CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	11,977.28	1,091.51
34 41 16 00-0004	EA		CONTROLLER, SL, 3-PHASE, 100A, BASE MTD.....	14,653.71	1,104.36
34 41 16 00-0005	EA		CONTROLLER, SL, 3-PHASE, 200A, BASE MTD.....	17,412.81	1,340.88
34 41 16 00-0006	EA		CONTROLLER/SL/BASE MTD/1-PHASE/100A.....	14,425.65	661.48
34 41 16 00-0007	EA		CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	15,996.14	724.19
34 41 16 00-0008	EA		CONTROLLER, TS, 12-BAY, "M" CABINET.....	26,361.60	1,138.55
34 41 16 00-0009	EA		CONTROLLER, TS, 12-BAY, "P" CABINET.....	28,045.85	1,261.75
34 41 16 00-0010	EA		CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER.....	40,221.93	1,418.53
34 41 16 00-0011	EA		CONTROLLER, TS, 16-BAY, "P" CABINET.....	31,804.80	1,343.87
34 41 16 00-0012	EA		CONTROLLER, PEDESTRIAN CROSSING, ADD-IN.....	908.65	157.83
34 41 16 00-0013	EA		CONCRETE BLOCK PEDESTAL.....	781.71	236.97
34 41 16 00-0014	WK		MAINTAIN EXIST TS INSTALLATION.....	382.02	191.00
34 41 16 00-0015	EA		INST SIGN BOARDS, ST. NAME.....	666.73	312.52
34 41 16 00-0016	EA		F.O. ADD-IN FOR LOCAL CONTROLLER.....	13,440.69	430.11
34 41 16 00-0017	EA		F.O. ADD-IN FOR MASTER CONTROLLER.....	32,564.51	645.36
34 41 16 00-0018	EA		PDU Equipped netBooster With IEC320 C13 Outlets (Synaccess NP-0808DUH).....	1,135.67	17.90
34 41 16 00-0019	EA		Remote Power Switched netBooster PDU, 8 Independent Outlets (Synaccess NP-0801DU).....	645.38	17.90

34 41 16 00-0020 Transportation Cabinets (34 41 16)**34 41 16 00-0021 Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0020)**

34 41 16 00-0022	EA		50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures).....	2,986.67	206.29
34 41 16 00-0023	EA		66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures).....	12,742.28	206.29
34 41 16 00-0024	EA		46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures).....	2,792.00	206.29
34 41 16 00-0025	EA		50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures).....	2,986.67	206.29
34 41 16 00-0026	EA		60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	13,174.90	206.29
34 41 16 00-0027	EA		55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures).....	1,926.75	206.29

34 41 16 00-0028 Transportation Cabinets (APX Enclosures) (34 41 16 00-0020)

34 41 16 00-0029	EA		28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017).....	7,282.09	240.67
Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.					

34 41 16 00-0030 Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0020)

34 41 16 00-0031	EA		30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S).....	2,816.77	206.29
34 41 16 00-0032	EA		30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S).....	3,512.11	220.04

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0033	Transportation Cabinets (McCain) (34 41 16 00-0020)			
34 41 16 00-0034	EA	24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i) Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.	13,280.74	240.67
34 41 16 00-0035	EA	24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332) Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.	13,280.74	240.67
34 41 16 00-0036	EA	ATC ColdFire Controller (McCain 170)	6,805.35	
34 41 16 00-0037	Traffic Control Equipment (34 41 16)			
34 41 16 00-0038	EA	ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15)	339.66	68.76
34 41 16 00-0039	EA	ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M)	449.18	68.76
34 41 16 00-0040	EA	ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M)	518.75	68.76
34 41 16 00-0041	EA	ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30)	400.48	68.76
34 41 16 00-0042	MLF	10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R)	3,148.74	753.93
34 41 16 00-0043	EA	Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02)	135.54	34.38
34 41 16 00-0044	EA	Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141)	618.11	75.31
34 41 16 00-0045	EA	Detection System, Vehicle, Two Sensor Preassembled Backplate, with AC Power (Wavetronix WX-SSB01-0003)	3,256.76	225.94
34 41 16 00-0046	EA	Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204)	591.89	34.38
34 41 16 00-0047	EA	Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114)	847.90	34.38
34 41 16 00-0048	EA	4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104)	972.32	68.76
34 41 16 00-0049	EA	Detection System, Vehicle, Four Sensor Preassembled Backplate, With AC Power, Wavetronix SmartSensor (Wavetronix WX-SS-B01-0005)	4,278.09	68.76
34 41 16 00-0050	EA	50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060)	451.87	225.94
34 41 16 00-0051	EA	60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060)	613.83	56.49
34 41 16 00-0052	EA	900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119)	529.07	75.31
34 41 16 00-0053	EA	900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120)	328.72	75.31
34 41 16 00-0054	EA	Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201)	369.28	34.38
34 41 16 00-0055	EA	24 Volt DC 2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-202)	447.20	34.38
34 41 16 00-0056	EA	Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250)	202.33	34.38
34 41 16 00-0057	EA	Power, RS232/RS485 Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-200)	603.03	34.38
34 41 16 00-0058	EA	Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222)	680.94	34.38
34 41 16 00-0059	EA	RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304)	847.90	34.38
34 41 16 00-0060	EA	Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301)	68.76	34.38
34 41 16 00-0061	EA	Sensor Mount, Heavy-Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611)	540.20	75.31
34 41 16 00-0062	MLF	LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400)	3,705.27	753.93
34 41 16 00-0063	EA	N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC)	65.75	20.63
34 41 16 00-0064	EA	Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E)	1,105.14	82.52
34 41 16 00-0065	EA	Spectra III Clear Pendant Lower Dome, Heavy-Duty (Pelco Id53hdpb-1)	1,072.13	103.14
34 41 16 00-0066	EA	24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000)	221.44	34.38
34 41 16 00-0067	EA	10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010)	163.46	34.38
34 41 16 00-0068	EA	24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2)	575.55	34.38
34 41 16 00-0069	EA	Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE)	237.83	34.38
34 41 16 00-0070	EA	120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600)	94.09	34.38
34 41 16 00-0071	EA	Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009)	805.36	68.76
		Note: Input/Output for sign peripherals.		
34 41 16 00-0072	EA	Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009)	805.36	68.76
		Note: Input/Output for sign peripherals.		
34 41 16 00-0073	EA	Control Area Network Distribution Board (Daktronics 0P-1248-0005)	1,528.85	68.76
		Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0074	EA	Control Area Network Distribution Board (Daktronics 0P-1248-0011)	1,528.85	68.76
		Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0075	EA	Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019)	515.97	68.76
		Note: Measures temperature and detects light and reports to CAN Distribution Board.		
34 41 16 00-0076	EA	Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015)	738.58	68.76
		Note: Measures temperature and detects light and humidity and reports to CAN Distribution board.		
34 41 16 00-0077	EA	Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021)	738.58	68.76
		Note: Measures temperature and detects light and humidity and reports to CAN Distribution board.		
34 41 16 00-0078	EA	Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003)	605.01	68.76
		Note: Measures temperature and detects light and reports to CAN Distribution board.		
34 41 16 00-0079	EA	Controller, VFC-3000 Field Controller NTCIPv1 (Daktronics 0A-1248-0016)	10,567.57	275.06
		Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.		
34 41 16 00-0080	EA	DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025)	447.20	34.38
		Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Distribution Board, providing power redundancy.		
34 41 16 00-0081	EA	Driver (Daktronics 0P-1100-0026)	844.63	55.01
		Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		
34 41 16 00-0082	EA	External Temp Sensor (Daktronics 0P-1100-0014)	744.46	55.01
		Note: Sensor that measures ambient temperature.		
34 41 16 00-0083	EA	Internal Temp Sensor (Daktronics 0P-1100-0038)	833.50	55.01
		Note: Sensor that measures sign internal temperature.		
34 41 16 00-0084	EA	Light Level Detector (Daktronics 0P-1151-0002)	499.59	55.01
		Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.		
34 41 16 00-0085	EA	Module (Daktronics 0A-1253-0608)	1,528.85	68.76
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0086	EA	Module (Daktronics 0A-1253-3018)	1,918.41	68.76
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0087	EA	Module (Daktronics 0A-1266-5002)	1,695.80	68.76
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		



Transportation			34
Transportation Signaling and Control Equipment			34 40
Roadway Signaling and Control Equipment			34 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0088 EA Module (Daktronics 0A-1332-6252).....	2,363.63	68.76
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0089 EA Module (Daktronics 0A-1332-6455).....	1,918.41	68.76
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0090 EA Module (Daktronics 0A-1332-6654).....	1,918.41	68.76
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0091 EA Module (Daktronics 0P-1332-3015).....	1,027.97	68.76
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0092 EA Module (Daktronics 0P-1332-4116).....	1,027.97	68.76
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0093 EA Module (Daktronics 0P-1332-5031).....	1,027.97	68.76
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0094 EA Module (Daktronics 0P-1332-5017).....	1,027.97	68.76
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0095 EA Module Without Pan (Daktronics 0A-1253-0603).....	1,528.85	68.76
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.		
34 41 16 00-0096 EA Module Without Pan (Daktronics 0A-1253-1605).....	1,528.85	68.76
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.		
34 41 16 00-0097 EA Module Without Pan (Daktronics 0A-1254-1601).....	1,528.85	68.76
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.		
34 41 16 00-0098 EA Pixel Strip (Daktronics 0P-1100-0016).....	527.10	68.76
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0099 EA Pixel Strip (Daktronics 0P-1100-0029).....	616.14	68.76
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0100 EA Power Supply (Daktronics A-1593).....	1,807.11	68.76
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0101 EA Power Supply (Daktronics A-1648).....	1,807.11	68.76
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0102 EA Power Supply (Daktronics A-2307).....	694.06	68.76
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1129).....	282.87	41.26
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-1412).....	583.39	41.26
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0105 EA Surge Suppressor (Daktronics A-1772).....	583.39	41.26
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0106 EA Surge Suppressor (Daktronics A-2139).....	861.66	41.26
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0107 EA VCB, Vanguard Control Board (Daktronics 0P-1248-0022).....	1,462.06	68.76
Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.		
34 41 16 00-0108 EA VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001).....	1,974.07	68.76
Note: Input/Output board for sign peripherals.		
34 41 16 00-0109 EA Power Supply Assembly (Daktronics A-1856R).....	1,306.24	68.76
34 41 16 00-0110 EA Power Supply Isolation Board (Daktronics 0P-1447-2000).....	861.01	68.76
34 41 16 00-0111 EA Ventilation/Circulation Fan (Daktronics B-1075).....	326.75	68.76
34 41 16 00-0112 EA VMS Controller (V2) (Daktronics 0A-1248-0028).....	10,567.57	275.06
34 41 16 00-0113 EA Photo/Temp Sensor (Daktronics 0P-1247-0015).....	738.58	68.76
34 41 16 00-0114 EA Defog Fan (Daktronics B-1053).....	124.41	34.38
34 41 16 00-0115 EA Defog Heater (Daktronics A-1792).....	157.80	34.38
34 41 16 00-0116 EA Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF).....	972.32	68.76
34 41 16 00-0117 EA Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF).....	972.32	68.76
34 41 16 00-0118 EA 1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R).....	1,265.34	68.86
34 41 16 00-0119 EA 1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E).....	1,265.34	68.86
34 41 16 00-0120 EA 16-Port Video Encoder Featuring H.264 Technology (Verint S1816E).....	6,818.07	68.86
34 41 16 00-0121 EA Encoder H.264 Compact, Hiperfmc (Verint S1802E).....	1,632.98	68.86
34 41 16 00-0122 EA 110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261).....	224.74	34.38
34 41 16 00-0123 EA 1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E).....	782.17	68.86
34 41 16 00-0124 EA Single/Quad-Stream Decoder (Bosch VIP-XD).....	2,030.94	68.86
34 41 16 00-0125 EA 1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4).....	305.61	68.76
34 41 16 00-0126 EA 4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B).....	648.59	68.76
34 41 16 00-0127 EA 12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750).....	309.85	17.22
34 41 16 00-0128 EA Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B).....	3,916.62	137.53
34 41 16 00-0129 EA Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1).....	245.26	34.38
34 41 16 00-0130 EA 4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM).....	3,550.95	68.76
34 41 16 00-0131 EA 208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM).....	8,366.65	340.37
34 41 16 00-0132 EA 30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	1,124.05	178.79
34 41 16 00-0133 EA 30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30).....	28.22	11.00
34 41 16 00-0134 EA 60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy-Duty, Safety Switch (Square D H362DS).....	2,904.94	137.53
34 41 16 00-0135 EA 60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60).....	62.01	11.00
34 41 16 00-0136 EA 50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820).....	2,575.12	75.31
34 41 16 00-0137 EA Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	144.80	52.26
34 41 16 00-0138 EA 12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469).....	410.08	68.76
34 41 16 00-0139 EA Single AC Inlet, 8 NEMA 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT).....	724.46	17.90
34 41 16 00-0140 EA Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT H).....	780.70	17.90
34 41 16 00-0141 EA 550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	415.60	27.50
34 41 16 00-0142 EA 10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E).....	5,010.84	165.03

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0143 EA 12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC).....	186.58	31.63
34 41 16 00-0144 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK).....	47.47	6.87
34 41 16 00-0145 EA 170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	1,576.86	68.76
34 41 16 00-0146 EA 12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E).....	5,443.15	137.53
34 41 16 00-0147 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000).....	3,685.67	226.92
34 41 16 00-0148 EA 100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	882.26	393.33
34 41 16 00-0149 EA 70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S).....	614.97	275.06
34 41 16 00-0150 EA 60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	125.76	37.13
34 41 16 00-0151 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	95.01	24.76
34 41 16 00-0152 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	74.89	24.76
34 41 16 00-0153 EA 20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	74.89	24.76
34 41 16 00-0154 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	305.61	68.76
34 41 16 00-0155 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC).....	344.44	34.43
34 41 16 00-0156 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC).....	3,195.50	34.43
34 41 16 00-0157 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	623.72	17.90
34 41 16 00-0158 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	12,824.83	225.94
34 41 16 00-0159 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9).....	490.13	75.31

34 41 23 Roadway Monitoring Equipment (34 41)**34 41 23 00-0001 Radar Speed Display Signs (34 41 23)**

34 41 23 00-0002 EA Pole Mounted Radar Speed Sign (RU2 Systems, Inc. Model 250).....	6,154.65	
Note: 12" Full Matrix (rounded) Characters for quick recognition.		
34 41 23 00-0003 EA Pole Mounted Radar Speed Sign (RU2 Systems, Inc. Model 350).....	7,237.19	
Note: 18" Full Matrix (rounded) Characters for quick recognition.		
34 41 23 00-0004 EA Dolly Mounted Radar Speed Sign (RU2 Systems, Inc. Model 500).....	10,282.67	
Note: 12" Amber AllnGaP LED display characters.		
34 41 23 00-0005 EA Trailer Mounted Radar Speed Sign (RU2 Systems, Inc. Model 600).....	12,918.40	
Note: 12" full graphic characters		
34 41 23 00-0006 EA Trailer Mounted Radar Speed Sign (RU2 Systems, Inc. Model 750).....	16,221.37	
Note: 18" Amber AllnGaP LED display characters		
34 41 23 00-0007 EA Trailer Mounted Radar Speed Sign (RU2 Systems, Inc. Model 800).....	16,977.21	
Note: 18" Amber AllnGaP LED full graphic display characters, on top. 18" x 24" MUTCD R2-1 speed sign / 5-65 MPH overlays.		
34 41 23 00-0008 EA Trailer Mounted Radar Speed Sign (RU2 Systems, Inc. Model 950).....	20,562.58	
Note: 18" Amber AllnGaP LED full graphic display characters. 18" x 24" MUTCD R2-1 speed sign / 5-65 MPH overlays.		
34 41 23 00-0009 EA Trailer Mounted Radar Speed Sign (RU2 Systems, Inc. Model 1000).....	23,538.85	
Note: Up to 30" Amber AllnGaP LED digits.		

34 43 Airfield Signaling and Control Equipment (34 40)**34 43 13 Airfield Signals and Lighting (34 43)****34 43 13 09 Airport Rotating Beacons (34 43 13)**

34 43 13 09-0001 EA Rotating Heliport Beacon, 3 - 500 Watt Quartz Lamps.....	9,597.35	2,513.09

34 43 13 12 Airport Obstruction Lights (34 43 13)**34 43 13 12-0001 Hazard Beacon Flashing Red, Two Lamps-620 Watts (34 43 13 12)**

34 43 13 12-0002 EA Hazard Beacon Flashing Red, 2 - 620 Watt With 2 Wire Cable.....	4,371.26	251.31
34 43 13 12-0003 EA Hazard Beacon Flashing Red, 2 - 620 Watt With 3 Wire Cable.....	4,870.44	251.31
34 43 13 12-0004 EA Beacon Failure Alarm Relay Assembly.....	1,114.11	251.31

34 43 13 12-0005 Obstruction Marker Lights (34 43 13 12)

34 43 13 12-0006 EA Obstruction Marker Light, 1 - 69 Watt FAA Spec L-810.....	501.58	157.07
34 43 13 12-0007 EA Obstruction Marker Light, 2 - 69 Watt FAA Spec L-810.....	794.60	188.48
34 43 13 12-0008 EA Obstruction Marker Light, 1 - 116 Watt Mil Spec M16-6-7830B.....	671.30	157.07
34 43 13 12-0009 EA Obstruction Marker Light, 2 - 116 Watt Mil Spec M16-6-7830B.....	1,076.63	188.48
34 43 13 12-0010 EA Transfer Relay Assembly.....	1,565.87	251.31

34 43 13 12-0011 Solid State Flashers With Cast Aluminum Housing (34 43 13 12)

34 43 13 12-0012 EA Solid State Flashers, 1 Circuit, With Cast Aluminum Housing.....	15,478.03	251.31
34 43 13 12-0013 EA Solid State Flashers, 2 Circuit Simultaneous Flash, With Cast Aluminum Housing.....	30,578.79	314.13
34 43 13 12-0014 EA Solid State Flashers, 3 Circuit Simultaneous Flash, With Cast Aluminum Housing.....	45,680.56	376.96
34 43 13 12-0015 EA Sequential Flasher.....	11,237.95	1,361.72

34 43 13 13 Airfield Runway Identification Lights (34 43 13)



Transportation		34	34
Transportation Signaling and Control Equipment		34 40	
Airfield Signaling and Control Equipment		34 43	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 43 13 13-0001			Taxi Guidance Sign Internally Illuminated, 18" Letters (34 43 13 13)		
34 43 13 13-0002	EA		Taxi Guidance Sign 1 Face, 4' Wide Internally Illuminated, 18" Letter.....	3,133.29	251.31
			For LED, Add	526.14	
34 43 13 13-0003	EA		Taxi Guidance Sign 1 Face, 6' Wide Internally Illuminated, 18" Letter.....	5,075.64	314.13
			For LED, Add	889.54	
34 43 13 13-0004	EA		Taxi Guidance Sign 1 Face, 8' Wide Internally Illuminated, 18" Letter.....	6,944.13	376.96
			For LED, Add	1,237.97	
34 43 13 13-0005	EA		Taxi Guidance Sign 1 Face, 10' Wide Internally Illuminated, 18" Letter.....	8,627.73	376.96
			For LED, Add	1,524.50	
34 43 13 13-0006	EA		Taxi Guidance Sign 2 Face, 4' Wide Internally Illuminated, 18" Letter.....	3,634.56	376.96
			For LED, Add	576.05	
34 43 13 13-0007	EA		Taxi Guidance Sign 2 Face, 6' Wide Internally Illuminated, 18" Letter.....	5,825.69	439.79
			For LED, Add	989.38	
34 43 13 13-0008	EA		Taxi Guidance Sign 2 Face, 8' Wide Internally Illuminated, 18" Letter.....	7,943.85	502.61
			For LED, Add	1,387.72	
34 43 13 13-0009	EA		Taxi Guidance Sign 2 Face, 10' Wide Internally Illuminated, 18" Letter.....	9,876.59	628.28
			For LED, Add	1,724.17	
34 43 13 13-0010			Taxi Guidance Sign Internally Illuminated, 12" And 15" Letters (34 43 13 13)		
34 43 13 13-0011	EA		Taxi Guidance Sign 1 Face, 2 1/2' Wide Internally Illuminated, 12 - 15" Letters.....	2,689.02	251.31
			For LED, Add	437.28	
34 43 13 13-0012	EA		Taxi Guidance Sign 1 Face, 4' Wide Internally Illuminated, 12 - 15" Letters.....	4,136.65	251.31
			For LED, Add	726.81	
34 43 13 13-0013	EA		Taxi Guidance Sign 1 Face, 6' Wide Internally Illuminated, 12 - 15" Letters.....	5,821.92	314.13
			For LED, Add	1,038.80	
34 43 13 13-0014	EA		Taxi Guidance Sign 1 Face, 8' Wide Internally Illuminated, 12 - 15" Letters.....	7,328.50	376.96
			For LED, Add	1,314.84	
34 43 13 13-0015	EA		Taxi Guidance Sign 2 Face, 2 1/2' Wide Internally Illuminated, 12 - 15" Letters.....	3,014.02	314.13
			For LED, Add	477.22	
34 43 13 13-0016	EA		Taxi Guidance Sign 2 Face, 4' Wide Internally Illuminated, 12 - 15" Letters.....	4,661.32	314.13
			For LED, Add	806.68	
34 43 13 13-0017	EA		Taxi Guidance Sign 2 Face, 6' Wide Internally Illuminated, 12 - 15" Letters.....	6,547.28	376.96
			For LED, Add	1,158.60	
34 43 13 13-0018	EA		Taxi Guidance Sign 2 Face, 8' Wide Internally Illuminated, 12 - 15" Letters.....	10,298.35	439.79
			For LED, Add	1,883.91	
34 43 13 13-0019			Taxi Guidance Sign Unlighted, 18" Letters (34 43 13 13)		
34 43 13 13-0020	EA		Taxi Guidance Sign 1 Face, 4' Wide Unlighted, 18" Letters	2,196.30	157.07
			For LED, Add	376.38	
34 43 13 13-0021	EA		Taxi Guidance Sign 1 Face, 6' Wide Unlighted, 18" Letters	4,013.32	157.07
			For LED, Add	739.79	
34 43 13 13-0022	EA		Taxi Guidance Sign 1 Face, 8' Wide Unlighted, 18" Letters	5,818.85	188.48
			For LED, Add	1,088.21	
34 43 13 13-0023	EA		Taxi Guidance Sign 1 Face, 10' Wide Unlighted, 18" Letters	7,251.50	188.48
			For LED, Add	1,374.74	
34 43 13 13-0024	EA		Taxi Guidance Sign 2 Face, 4' Wide Unlighted, 18" Letters	2,509.28	188.48
			For LED, Add	426.30	
34 43 13 13-0025	EA		Taxi Guidance Sign 2 Face, 6' Wide Unlighted, 18" Letters	4,575.89	188.48
			For LED, Add	839.62	
34 43 13 13-0026	EA		Taxi Guidance Sign 2 Face, 8' Wide Unlighted, 18" Letters	6,547.69	251.31
			For LED, Add	1,209.02	
34 43 13 13-0027	EA		Taxi Guidance Sign 2 Face, 10' Wide Unlighted, 18" Letters	6,595.11	251.31
			For LED, Add	1,218.50	
34 43 13 13-0028			Distance Marker Sign, Internally Illuminated (34 43 13 13)		
34 43 13 13-0029	EA		Distance Marker Sign, 48" x 48"	4,221.51	251.31
34 43 13 13-0030			Options And Accessories (34 43 13 13)		
34 43 13 13-0031	EA		100 Watt Transformer Guidance Signs Accessories	395.48	62.83
34 43 13 13-0032	EA		Connection Kit For 1 Conduit Cable Guidance Signs Accessories	216.33	94.24
34 43 13 13-0033	EA		Base Housing, 12" Diameter Guidance Signs Accessories	526.40	125.65
34 43 13 13-0034			Tools (34 43 13 13)		
34 43 13 13-0035	EA		Impact Nut Driver Guidance Signs Accessories	484.21	
34 43 13 13-0036	EA		Leveling Tool Guidance Signs Accessories	244.60	
34 43 13 13-0037	EA		Contact Straightener Guidance Signs Accessories	107.32	
34 43 13 13-0038	EA		Installation Fixture Guidance Signs Accessories	499.18	
34 43 13 13-0039	EA		Drill Jig Guidance Signs Accessories	599.02	
34 43 13 13-0040	EA		Installation And Align Tool Guidance Signs Accessories	304.50	
34 43 13 13-0041	EA		Prism Setting Fixture Guidance Signs Accessories	427.20	
34 43 13 13-0042	EA		Pressure Test Fitting Guidance Signs Accessories	111.97	
34 43 13 13-0043	EA		Lifting Handles Guidance Signs Accessories	62.40	
34 43 13 13-0044	EA		Leveling Tool Guidance Signs Accessories	244.60	
34 43 13 13-0045	EA		Flector Alignment Tool Guidance Signs Accessories	199.70	
34 43 13 13-0046	EA		Lamp Extractor Guidance Signs Accessories	32.45	
34 43 13 13-0047	EA		Cable Stripper/Penciller Guidance Signs Accessories	324.67	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 43 Airfield Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 43 13 13-0048		Taxiway Marker Tubular Reflectors Post (34 43 13 13) Note: With reflective strips on contract background.		
34 43 13 13-0049	EA	Taxiway Marker Reflector Post 18" With Reflector Strips On Contract Background	185.82	62.83
34 43 13 13-0050	EA	Taxiway Marker Reflector Post 24" With Reflector Strips On Contract Background	195.81	62.83
34 43 13 13-0051	EA	Taxiway Marker Reflector Post 30" With Reflector Strips On Contract Background	210.78	62.83
34 43 13 13-0052	EA	Taxiway Marker Reflector Post 36" With Reflector Strips On Contract Background	220.76	62.83
34 43 13 16		Airfield Runway and Taxiway Inset Lighting (34 43 13)		
34 43 13 16-0001		Runway And Taxiway Lights (34 43 13 16)		
34 43 13 16-0002		Runway In-Pavement Lights (34 43 13 16-0001)		
34 43 13 16-0003		Runway Centerline, Land And Hold Short Operations (LAHSO) (34 43 13 16-0002) Note: L-850A.		
34 43 13 16-0004	EA	Uni-Directional Runway Centerline Light With Shallow Base And Film Disc Cutout	1,642.28	188.48
34 43 13 16-0005	EA	Uni-Directional Runway Centerline Light With Cord Set And Film Disc Cutout	902.02	125.65
34 43 13 16-0006	EA	Uni-Directional Runway Centerline Light With Two (2) Cord Sets And Film Disc Cutout	946.82	125.65
34 43 13 16-0007	EA	Uni-Directional Runway Centerline Light With Shallow Base And Without Film Disc Cutout	1,608.91	188.48
34 43 13 16-0008	EA	Uni-Directional Runway Centerline Light With Cord Set And Without Film Disc Cutout	892.62	125.65
34 43 13 16-0009	EA	Uni-Directional Runway Centerline Light With Two (2) Cord Sets And Without Film Disc Cutout	921.76	125.65
34 43 13 16-0010	EA	Bi-Directional Runway Centerline Light With Shallow Base And Film Disc Cutout	1,705.55	188.48
34 43 13 16-0011	EA	Bi-Directional Runway Centerline Light With Cord Set And Film Disc Cutout	934.56	125.65
34 43 13 16-0012	EA	Bi-Directional Runway Centerline Light With Two (2) Cord Sets And Film Disc Cutout	981.60	125.65
34 43 13 16-0013	EA	Bi-Directional Runway Centerline Light With Shallow Base And Without Film Disc Cutout	1,670.51	188.48
34 43 13 16-0014	EA	Bi-Directional Runway Centerline Light With Cord Set And Without Film Disc Cutout	924.68	125.65
34 43 13 16-0015	EA	Bi-Directional Runway Centerline Light With Two (2) Cord Sets And Without Film Disc Cutout	955.28	125.65
34 43 13 16-0016		Runway Touchdown Zone, Medium Intensity Approach Lighting System (34 43 13 16-0002) Note: L-850B.		
34 43 13 16-0017	EA	Uni-Directional Straight Or Toe-in Runway Touchdown Zone Light With Shallow Base And Film Disc Cutout	1,492.40	188.48
34 43 13 16-0018	EA	Uni-Directional Straight Or Toe-in Runway Touchdown Zone Light With Single Cord Set And Film Disc Cutout	771.88	125.65
34 43 13 16-0019	EA	Uni-Directional Straight Or Toe-in Runway Touchdown Zone Light With Shallow Base And Without Film Disc Cutout	1,462.45	188.48
34 43 13 16-0020	EA	Uni-Directional Straight Or Toe-in Runway Touchdown Zone Light With Single Cord Set And Without Film Disc Cutout	741.95	125.65
34 43 13 16-0021		Runway Edge, Displaced Threshold (34 43 13 16-0002) Note: L-850C.		
34 43 13 16-0022	EA	Bi-Directional Displaced Threshold Runway Edge Light With Cord Set And Film Disc Cutout	1,353.45	125.65
34 43 13 16-0023	EA	Bi-Directional Displaced Threshold Runway Edge Light With Two (2) Cord Sets And Film Disc Cutout	1,360.98	125.65
34 43 13 16-0024	EA	Bi-Directional Displaced Threshold Runway Edge Light With Cord Set And Without Film Disc Cutout	1,333.78	125.65
34 43 13 16-0025	EA	Bi-Directional Displaced Threshold Runway Edge Light With Two (2) Cord Sets And Without Film Disc Cutout	1,340.79	125.65
34 43 13 16-0026		Runway Threshold/End (34 43 13 16-0002) Note: L-850D.		
34 43 13 16-0027	EA	Uni-Directional Obscured Beam Threshold/End Light With Cord Set And Film Disc Cutout	1,486.99	125.65
34 43 13 16-0028	EA	Uni-Directional Obscured Beam Threshold/End Light With Two (2) Cord Sets And Film Disc Cutout	1,509.77	125.65
34 43 13 16-0029	EA	Uni-Directional Obscured Beam Threshold/End Light With Cord Set And Without Film Disc Cutout	1,457.06	125.65
34 43 13 16-0030	EA	Uni-Directional Obscured Beam Threshold/End Light With Two (2) Cord Sets And Without Film Disc Cutout	1,461.88	125.65
34 43 13 16-0031	EA	Uni-Directional Straight or Toed Beam Threshold/End Light With Cord Set And Film Disc Cutout	1,854.95	125.65
34 43 13 16-0032	EA	Uni-Directional Straight or Toed Beam Threshold/End Light With Two (2) Cord Sets And Film Disc Cutout	1,884.49	125.65
34 43 13 16-0033	EA	Uni-Directional Straight or Toed Beam Threshold/End Light With Cord Set And Without Film Disc Cutout	1,788.89	125.65
34 43 13 16-0034	EA	Uni-Directional Straight or Toed Beam Threshold/End Light With Two (2) Cord Sets And Without Film Disc Cutout	1,795.04	125.65
34 43 13 16-0035	EA	Bi-Directional Obscured Beam Threshold/End Light With Cord Set And Film Disc Cutout	1,548.77	125.65
34 43 13 16-0036	EA	Bi-Directional Obscured Beam Threshold/End Light With Two (2) Cord Sets And Film Disc Cutout	1,572.69	125.65
34 43 13 16-0037	EA	Bi-Directional Obscured Beam Threshold/End Light With Cord Set And Without Film Disc Cutout	1,517.35	125.65
34 43 13 16-0038	EA	Bi-Directional Obscured Beam Threshold/End Light With Two (2) Cord Sets And Without Film Disc Cutout	1,522.41	125.65
34 43 13 16-0039	EA	Bi-Directional Straight or Toed Beam Threshold/End Light With Cord Set And Film Disc Cutout	1,935.13	125.65
34 43 13 16-0040	EA	Bi-Directional Straight or Toed Beam Threshold/End Light With Two (2) Cord Sets And Film Disc Cutout	1,966.15	125.65
34 43 13 16-0041	EA	Bi-Directional Straight or Toed Beam Threshold/End Light With Cord Set And Without Film Disc Cutout	1,865.77	125.65
34 43 13 16-0042	EA	Bi-Directional Straight or Toed Beam Threshold/End Light With Two (2) Cord Sets And Without Film Disc Cutout	1,872.23	125.65
34 43 13 16-0043		Runway Threshold, Medium Intensity Approach Lighting System (34 43 13 16-0002) Note: L-850E.		
34 43 13 16-0044	EA	Uni-Directional Straight Or Toe-in Runway Threshold Light With Single Cord Set And Film Disc Cutout	1,611.88	125.65
34 43 13 16-0045	EA	Uni-Directional Straight Or Toe-in Runway Threshold Light With Single Cord Set And Without Film Disc Cutout	1,551.98	125.65
34 43 13 16-0046		Land And Hold Short Operations (LAHSO) (34 43 13 16-0002) Note: L-850F.		
34 43 13 16-0047	EA	Uni-Directional Runway LAHSO With Shallow Base And Film Disc Cutout	1,962.26	188.48
34 43 13 16-0048	EA	Uni-Directional Runway LAHSO With Two (2) Cord Sets And Film Disc Cutout	991.17	125.65
34 43 13 16-0049	EA	Uni-Directional Runway LAHSO With Shallow Base And Without Film Disc Cutout	1,919.69	188.48
34 43 13 16-0050	EA	Uni-Directional Runway LAHSO With Two (2) Cord Sets And Without Film Disc Cutout	948.63	125.65



		Transportation	34
		Transportation Signaling and Control Equipment	34 40
		Airfield Signaling and Control Equipment	34 43

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 43 13 16-0051 Runway Guard (34 43 13 16-0002) Note: L-852G.		
34 43 13 16-0052 EA Uni-Directional 105 Watt Runway Guard Light With Shallow Base.....	1,442.07	188.48
34 43 13 16-0053 EA Uni-Directional 105 Watt Runway Guard Light With Two (2) Cord Sets	1,190.14	188.48
34 43 13 16-0054 Stop Bar (34 43 13 16-0002) Note: L-852S.		
34 43 13 16-0055 EA Uni-Directional 105 Watt Stop Bar Light With Shallow Base And Film Disc Cutout.....	1,432.73	188.48
34 43 13 16-0056 EA Uni-Directional 105 Watt Stop Bar Light With Cord Set And Film Disc Cutout	1,011.90	188.48
34 43 13 16-0057 EA Uni-Directional 105 Watt Stop Bar Light With Shallow Base And Without Film Disc Cutout.....	1,429.93	188.48
34 43 13 16-0058 EA Uni-Directional 105 Watt Stop Bar Light With Cord Set And Without Film Disc Cutout	981.95	188.48
34 43 13 16-0059 Taxiway In-Pavement Lights (34 43 13 16-0001)		
34 43 13 16-0060 Taxiway Centerline, Straight Sections; Clearance Bar (>= 1,200 or <1,200 Runway Visual Range) (34 43 13 16-0059) Note: L-852A or L-852C.		
34 43 13 16-0061 EA Uni-Directional Straight Taxiway Centerline Light With Shallow Base And Film Disc Cutout	1,642.28	188.48
34 43 13 16-0062 EA Uni-Directional Straight Taxiway Centerline Light With Cord Set And Film Disc Cutout	1,033.76	125.65
34 43 13 16-0063 EA Uni-Directional Straight Taxiway Centerline Light With Two (2) Cord Sets And Film Disc Cutout	1,082.64	125.65
34 43 13 16-0064 EA Uni-Directional Straight Taxiway Centerline Light With Shallow Base And Without Film Disc Cutout	1,620.57	188.48
34 43 13 16-0065 EA Uni-Directional Straight Taxiway Centerline Light With Cord Set And Without Film Disc Cutout	977.39	125.65
34 43 13 16-0066 EA Uni-Directional Straight Taxiway Centerline Light With Two (2) Cord Sets And Without Film Disc Cutout	1,022.76	125.65
34 43 13 16-0067 EA Bi-Directional Straight Taxiway Centerline Light With Shallow Base And Film Disc Cutout	1,700.31	188.48
34 43 13 16-0068 EA Bi-Directional Straight Taxiway Centerline Light With Cord Set And Film Disc Cutout	1,069.65	125.65
34 43 13 16-0069 EA Bi-Directional Straight Taxiway Centerline Light With Two (2) Cord Sets And Film Disc Cutout	1,117.51	125.65
34 43 13 16-0070 EA Bi-Directional Straight Taxiway Centerline Light With Shallow Base And Without Film Disc Cutout	1,677.60	188.48
34 43 13 16-0071 EA Bi-Directional Straight Taxiway Centerline Light With Cord Set And Without Film Disc Cutout	1,010.69	125.65
34 43 13 16-0072 EA Bi-Directional Straight Taxiway Centerline Light With Two (2) Cord Sets And Without Film Disc Cutout	1,055.11	125.65
34 43 13 16-0073 Taxiway Centerline, Curved Sections; Clearance Bar (>= 1,200 or <1,200 Runway Visual Range) (34 43 13 16-0059) Note: L-852B or L-852D or L-852J or L-852K.		
34 43 13 16-0074 EA Uni-Directional Curved Taxiway Centerline Light With Shallow Base And Film Disc Cutout	1,678.84	188.48
34 43 13 16-0075 EA Uni-Directional Curved Taxiway Centerline Light With Cord Set And Film Disc Cutout	1,031.31	125.65
34 43 13 16-0076 EA Uni-Directional Curved Taxiway Centerline Light With Two (2) Cord Sets And Film Disc Cutout	1,088.08	125.65
34 43 13 16-0077 EA Uni-Directional Curved Taxiway Centerline Light With Shallow Base And Without Film Disc Cutout	1,575.87	188.48
34 43 13 16-0078 EA Uni-Directional Curved Taxiway Centerline Light With Cord Set And Without Film Disc Cutout	969.62	125.65
34 43 13 16-0079 EA Uni-Directional Curved Taxiway Centerline Light With Two (2) Cord Sets And Without Film Disc Cutout	1,024.54	125.65
34 43 13 16-0080 EA Bi-Directional Curved Taxiway Centerline Light With Shallow Base And Film Disc Cutout	1,736.20	188.48
34 43 13 16-0081 EA Bi-Directional Curved Taxiway Centerline Light With Cord Set And Film Disc Cutout	1,065.68	125.65
34 43 13 16-0082 EA Bi-Directional Curved Taxiway Centerline Light With Two (2) Cord Sets And Film Disc Cutout	1,124.95	125.65
34 43 13 16-0083 EA Bi-Directional Curved Taxiway Centerline Light With Shallow Base And Without Film Disc Cutout	1,626.04	188.48
34 43 13 16-0084 EA Bi-Directional Curved Taxiway Centerline Light With Cord Set And Without Film Disc Cutout	1,002.88	125.65
34 43 13 16-0085 EA Bi-Directional Curved Taxiway Centerline Light With Two (2) Cord Sets And Without Film Disc Cutout	1,056.89	125.65
34 43 13 16-0086 Taxiway Intersections; Clearance Bar (>= 1,200 Runway Visual Range) (34 43 13 16-0059) Note: L-852E.		
34 43 13 16-0087 EA Omni-Directional 45 Watt Taxiway Intersection Light With Shallow Base And Film Disc Cutout	1,432.73	188.48
34 43 13 16-0088 EA Omni-Directional 150 Watt Taxiway Intersection Light With Shallow Base And Film Disc Cutout	1,688.20	188.48
34 43 13 16-0089 EA Omni-Directional 30 Watt Taxiway Intersection Light With Shallow Base And Film Disc Cutout	1,491.28	188.48
34 43 13 16-0090 EA Omni-Directional 40 Watt, 120 Volt AC, Taxiway Intersection Light With Shallow Base And Film Disc Cutout	1,656.27	188.48
34 43 13 16-0091 EA Omni-Directional 45 Watt Taxiway Intersection Light With Cord Set And Film Disc Cutout	849.03	125.65
34 43 13 16-0092 EA Omni-Directional 150 Watt Taxiway Intersection Light With Cord Set And Film Disc Cutout	1,072.23	188.48
34 43 13 16-0093 EA Omni-Directional 30 Watt Taxiway Intersection Light With Cord Set And Film Disc Cutout	967.82	188.48
34 43 13 16-0094 EA Omni-Directional 40 Watt, 120 Volt AC, Taxiway Intersection Light With Cord Set And Film Disc Cutout	1,020.95	188.48
34 43 13 16-0095 EA Omni-Directional 45 Watt Taxiway Intersection Light With Shallow Base And Without Film Disc Cutout	1,407.89	188.48
34 43 13 16-0096 EA Omni-Directional 150 Watt Taxiway Intersection Light With Shallow Base And Without Film Disc Cutout	1,657.34	188.48
34 43 13 16-0097 EA Omni-Directional 30 Watt Taxiway Intersection Light With Shallow Base And Without Film Disc Cutout	1,465.06	188.48
34 43 13 16-0098 EA Omni-Directional 40 Watt, 120 Volt AC, Taxiway Intersection Light With Shallow Base And Without Film Disc Cutout	1,626.18	188.48
34 43 13 16-0099 EA Omni-Directional 45Watt Taxiway Intersection Light With Cord Set And Without Film Disc Cutout	829.24	125.65
34 43 13 16-0100 EA Omni-Directional 150 Watt Taxiway Intersection Light With Cord Set And Without Film Disc Cutout	1,054.40	188.48
34 43 13 16-0101 EA Omni-Directional 30 Watt Taxiway Intersection Light With Cord Set And Without Film Disc Cutout	952.66	188.48
34 43 13 16-0102 EA Omni-Directional 40 Watt, 120 Volt AC, Taxiway Intersection Light With Cord Set And Without Film Disc Cutout	1,037.91	188.48
34 43 13 16-0103 Taxiway Intersections; Clearance Bar (<1,200 Runway Visual Range) (34 43 13 16-0059) Note: L-852F.		
34 43 13 16-0104 EA Omni-Directional 120 Watt Taxiway Intersection Light With Shallow Base And Film Disc Cutout	1,667.32	188.48
34 43 13 16-0105 EA Omni-Directional 120 Watt Taxiway Intersection Light With Cord Set And Film Disc Cutout	1,076.70	188.48
34 43 13 16-0106 EA Omni-Directional 120 Watt Taxiway Intersection Light With Shallow Base And Without Film Disc Cutout	1,626.70	188.48
34 43 13 16-0107 EA Omni-Directional 120 Watt Taxiway Intersection Light With Cord Set And Without Film Disc Cutout	1,054.68	188.48

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 43 Airfield Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 43 13 16-0108		Taxiway Edge, Apron Edge (34 43 13 16-0059) Note: L-852T.		
34 43 13 16-0109	EA	Omni-Directional 45 Watt Taxiway Edge Light With Cord Set And Film Disc Cutout.....	1,601.43	188.48
34 43 13 16-0110	EA	Omni-Directional 45 Watt Taxiway Edge Light With Cord Set And Without Film Disc Cutout.....	1,411.21	188.48
34 43 13 16-0111		Elevated Lights (34 43 13 16-0001)		
34 43 13 16-0112		Elevated Runway Guard (34 43 13 16-0111) Note: L-804		
34 43 13 16-0113	EA	Elevated Runway Guard.....	2,083.78	125.65
34 43 13 16-0114		Elevated Runway Edge (34 43 13 16-0111) Note: L-860		
34 43 13 16-0115	EA	14" Omni-Directional Elevated Runway Edge Light.....	684.19	157.07
34 43 13 16-0116	EA	24" Omni-Directional Elevated Runway Edge Light.....	694.80	157.07
34 43 13 16-0117	EA	30" Omni-Directional Elevated Runway Edge Light.....	776.86	157.07
34 43 13 16-0118		Elevated Runway Threshold/End (34 43 13 16-0111) Note: L-860E		
34 43 13 16-0119	EA	14" Uni-Directional Elevated Runway Threshold/End Light.....	653.35	157.07
34 43 13 16-0120	EA	24" Uni-Directional Elevated Runway Threshold/End Light.....	663.07	157.07
34 43 13 16-0121	EA	30" Uni-Directional Elevated Runway Threshold/End Light.....	738.30	157.07
34 43 13 16-0122	EA	14" Bi-Directional Elevated Runway Threshold/End Light.....	670.31	157.07
34 43 13 16-0123	EA	24" Bi-Directional Elevated Runway Threshold/End Light.....	680.52	157.07
34 43 13 16-0124	EA	30" Bi-Directional Elevated Runway Threshold/End Light.....	759.51	157.07
34 43 13 16-0125		Elevated Runway Edge or Threshold/End, Displaced Threshold, Non-Precision IFR Runways (34 43 13 16-0111) Note: L-861, L-861E, L-861SE or L-861T		
34 43 13 16-0126	EA	14" Omni-Directional Elevated Runway Light, Non-Precision IFR Runways.....	622.52	157.07
34 43 13 16-0127	EA	20" Omni-Directional Elevated Runway Light, Non-Precision IFR Runways.....	628.00	157.07
34 43 13 16-0128	EA	24" Omni-Directional Elevated Runway Light, Non-Precision IFR Runways.....	631.35	157.07
34 43 13 16-0129	EA	30" Omni-Directional Elevated Runway Light, Non-Precision IFR Runways.....	699.74	157.07
34 43 13 16-0130	EA	14" Uni-Directional Elevated Runway Light, Non-Precision IFR Runways.....	625.89	157.07
34 43 13 16-0131	EA	20" Uni-Directional Elevated Runway Light, Non-Precision IFR Runways.....	631.45	157.07
34 43 13 16-0132	EA	24" Uni-Directional Elevated Runway Light, Non-Precision IFR Runways.....	634.82	157.07
34 43 13 16-0133	EA	30" Uni-Directional Elevated Runway Light, Non-Precision IFR Runways.....	703.96	157.07
34 43 13 16-0134	EA	14" Bi-Directional Elevated Runway Light, Non-Precision IFR Runways.....	641.48	157.07
34 43 13 16-0135	EA	20" Bi-Directional Elevated Runway Light, Non-Precision IFR Runways.....	647.31	157.07
34 43 13 16-0136	EA	24" Bi-Directional Elevated Runway Light, Non-Precision IFR Runways.....	650.85	157.07
34 43 13 16-0137	EA	30" Bi-Directional Elevated Runway Light, Non-Precision IFR Runways.....	723.46	157.07
34 43 13 16-0138		Elevated Runway Edge or Threshold/End, Displaced Threshold, Precision IFR Runways (34 43 13 16-0111) Note: L-862 Or L-862E		
34 43 13 16-0139	EA	14" Uni-Directional Elevated Runway Light, Precision IFR Runways.....	582.61	157.07
34 43 13 16-0140	EA	24" Uni-Directional Elevated Runway Light, Precision IFR Runways.....	588.22	157.07
34 43 13 16-0141	EA	30" Uni-Directional Elevated Runway Light, Precision IFR Runways.....	596.89	157.07
34 43 13 16-0142	EA	14" Swivel Head Uni-Directional Elevated Runway Light, Precision IFR Runways.....	698.62	157.07
34 43 13 16-0143	EA	24" Swivel Head Uni-Directional Elevated Runway Light, Precision IFR Runways.....	706.65	157.07
34 43 13 16-0144	EA	30" Swivel Head Uni-Directional Elevated Runway Light, Precision IFR Runways.....	725.65	157.07
34 43 13 16-0145	EA	14" Bi-Directional Elevated Runway Light, Precision IFR Runways.....	596.03	157.07
34 43 13 16-0146	EA	24" Bi-Directional Elevated Runway Light, Precision IFR Runways.....	601.92	157.07
34 43 13 16-0147	EA	30" Bi-Directional Elevated Runway Light, Precision IFR Runways.....	611.02	157.07
34 43 13 16-0148	EA	14" Swivel Head Bi-Directional Elevated Runway Light, Precision IFR Runways.....	717.84	157.07
34 43 13 16-0149	EA	24" Swivel Head Bi-Directional Elevated Runway Light, Precision IFR Runways.....	726.27	157.07
34 43 13 16-0150	EA	30" Swivel Head Bi-Directional Elevated Runway Light, Precision IFR Runways.....	746.23	157.07
34 43 13 16-0151		Elevated Stop Bar (34 43 13 16-0111) Note: L-862S		
34 43 13 16-0152	EA	14" Uni-Directional Elevated Stop Bar.....	587.48	157.07
34 43 13 16-0153	EA	24" Uni-Directional Elevated Stop Bar.....	593.82	157.07
34 43 13 16-0154	EA	30" Uni-Directional Elevated Stop Bar.....	596.89	157.07
34 43 13 16-0155		Airfield Optional Accessories (34 43 13 16-0001)		
34 43 13 16-0156	EA	30/45 Watt Transformer, Airfield Optional Accessories.....	320.60	62.83
34 43 13 16-0157	EA	65 Watt Transformer, Airfield Optional Accessories.....	358.04	62.83
34 43 13 16-0158	EA	100 Watt Transformer, Airfield Optional Accessories.....	395.48	62.83
34 43 13 16-0159	EA	200 Watt Transformer, Airfield Optional Accessories.....	408.88	62.83
34 43 13 16-0160	EA	300 Watt Transformer, Airfield Optional Accessories.....	502.62	94.24
34 43 13 16-0161	EA	500 Watt Transformer, Airfield Optional Accessories.....	555.78	94.24
34 43 13 16-0162	EA	10" Diameter Base Housing, Non-Load Bearing, Airfield Optional Accessories.....	528.90	125.65



Transportation			34	34
Transportation Signaling and Control Equipment			34 40	
Airfield Signaling and Control Equipment			34 43	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 43 13 16-0163	EA	12" Diameter Base Housing, Non-Load Bearing, Airfield Optional Accessories	613.76	125.65
34 43 13 16-0164	EA	15" Diameter Base Housing, Non-Load Bearing, Airfield Optional Accessories	726.07	125.65
34 43 13 16-0165	EA	12" Diameter Adjustable Base Housing, Load Bearing, Airfield Optional Accessories	704.23	125.65
		Note: L-867.		
34 43 13 16-0166	EA	16" Diameter Adjustable Base Housing, Load Bearing, Airfield Optional Accessories	844.63	125.65
		Note: L-867.		
34 43 13 16-0167	EA	Connection Kit For Conduit Cable, Airfield Optional Accessories	216.33	94.24
34 43 13 16-0168	MLF	#8 AWG Cable - Cross-linked High Heat-Resistant Water-Resistant (XHHW), Underground Feeder And Branch Circuit, Airfield Optional Accessories	1,657.70	
		Note: L-824.		
34 43 13 16-0169	MLF	#6 AWG Cable - Cross-linked High Heat-Resistant Water-Resistant (XHHW), Underground Feeder And Branch Circuit, Airfield Optional Accessories	2,138.86	
		Note: L-824.		
34 43 13 16-0170	MLF	#4 AWG Cable - Cross-linked High Heat-Resistant Water-Resistant (XHHW), Underground Feeder And Branch Circuit, Airfield Optional Accessories	2,851.75	
		Note: L-824.		
34 43 13 16-0171	EA	Frangible Coupling (Complete), Airfield Optional Accessories	167.48	7.42
34 43 13 16-0172	EA	Precast Concrete Base, Airfield Optional Accessories	629.23	101.78
34 43 13 23 Airfield Short-Approach Lighting Equipment (34 43 13)				
34 43 13 23-0001 Land And Hold Short (LAHSO) Light System (34 43 13 23)				
34 43 13 23-0002	EA	Land And Hold Short (LAHSO) Lighting System, Five (5) Unidirectional In Pavement Light Fixtures (FAA L850A), Power Control And Monitoring Unit And Tower Control Panel	23,861.96	
34 43 13 26 Airfield Omni-Directional-Approach Lighting Equipment (34 43 13)				
34 43 13 26-0001 Elevated Approach (34 43 13 26)				
34 43 13 26-0002	EA	Approach And Navigational Light 200 Watt - Heavy-Duty Assembly Only Elevated Approach	568.83	125.65
		For LED, Add	126.79	
34 43 13 26-0003	EA	Approach And Navigational Light 300 Watt - Heavy-Duty Assembly Only Elevated Approach	568.83	125.65
		For LED, Add	126.79	
34 43 13 26-0004	EA	Approach And Navigational Light 500 Watt - Heavy-Duty Assembly Only Elevated Approach	568.83	125.65
		For LED, Add	126.79	
34 43 13 26-0005	EA	Approach And Navigational Light 200 Watt - With Filter Bracket Elevated Approach	614.13	138.22
		For LED, Add	134.78	
34 43 13 26-0006	EA	Approach And Navigational Light 300 Watt - With Filter Bracket Elevated Approach	614.13	138.22
		For LED, Add	134.78	
34 43 13 26-0007	EA	Approach And Navigational Light 500 Watt - With Filter Bracket Elevated Approach	614.13	138.22
		For LED, Add	134.78	
34 43 13 29 Airfield Low-Intensity-Approach Lighting Equipment (34 43 13)				
34 43 13 29-0001 Rotating Beacon (34 43 13 29)				
34 43 13 29-0002	EA	Rotating Airport Beacon, 12 RPM, 400 Watt Metal Halide 1 Beam Clear, 400 Watt Metal Halide 1 Beam Green	33,460.60	3,003.15
34 43 13 29-0003	EA	Rotating Beam Single Drum, 12 RPM Clear Beam, 500 Watt Quartz	73,834.43	2,513.09
34 43 13 29-0004	EA	Rotating Beam, Double Drum, 6 RPM Clear And Green Beams, 1,000 Watt Quartz	80,163.46	2,764.41
34 43 13 29-0005	EA	Beacon Tower, Tubular Type, 51'	26,697.46	1,493.19
34 43 13 29-0006	EA	Weatherproof Panelboard, 4 - 15 Amperes Breakers	4,223.60	376.96
34 43 13 29-0007 Runway Approach Lights, Semi-Flush Unidirectional (34 43 13 29)				
34 43 13 29-0008	EA	Runway Approach Light, Unidirectional, S-Flash, 115 Watt With Shallow Insert Base	2,342.06	188.48
34 43 13 29-0009	EA	Runway Approach Light, Unidirectional, S-Flash, 200 Watt With Shallow Insert Base	2,367.02	188.48
34 43 13 29-0010	EA	Runway Approach Light, Unidirectional, TD Zone, 115 Watt S-Flash, For Mounted In Base Housing	890.80	125.65
34 43 13 29-0011	EA	Runway Approach Light, Unidirectional, TD Zone, 200 Watt S-Flash, For Mounted In Base Housing	935.73	125.65
34 43 13 33 Airfield High-Intensity-Approach Lighting Equipment (34 43 13)				
34 43 13 33-0001 High Intensity Approach/ Threshold Light, Semi-Flush (34 43 13 33)				
		Note: Unidirectional.		
34 43 13 33-0002	EA	High Intensity Approach Light, 500 Watt Quartz, Clear Semi-Flush, Unidirectional	3,390.34	188.48
		For LED, Add	602.51	
34 43 13 33-0003	EA	High Intensity Threshold Light, Clear 500 Watt Quartz, Semi-Flush, Unidirectional	3,684.85	188.48
		For LED, Add	661.41	
34 43 13 33-0004	EA	High Intensity Approach Light, 500 Watt Quartz, Red Semi-Flush, Unidirectional	3,331.68	188.48
		For LED, Add	590.78	
34 43 13 33-0005	EA	High Intensity Threshold/End Light, Green/Red Semi-Flush, Unidirectional	3,884.52	188.48
		For LED, Add	701.35	
34 43 13 36 Airfield Precision-Approach Path Indicator Equipment (34 43 13)				
34 43 13 36-0001 Precision Approach Path Indicator (34 43 13 36)				
34 43 13 36-0002	EA	Approach And Navigational Light Precision Approach Path Indicator - 4 System, 4 Units, 3 Projectors Per Unit	23,100.52	1,005.24
34 43 13 36-0003	EA	Approach And Navigational Light Series Power Kit (3 x 200), Precision Approach Path Indicator	2,773.88	251.31
34 43 13 36-0004	EA	Approach And Navigational Light Clinometer Precision Approach Path Indicator	2,334.60	251.31
34 43 13 36-0005	EA	Approach And Navigational Light Optical Bench Precision Approach Path Indicator	5,246.92	376.96
34 43 13 36-0006	EA	Approach And Navigational Light Radio Receiver, Air-Ground Precision Approach Path Indicator	3,610.01	251.31

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 43 Airfield Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 43 13 36-0007	EA	Approach And Navigational Light Radio Receiver, Interface Unidirectional Precision Approach Path Indicator.....	1,161.53	251.31
34 43 23 Weather Observation Equipment (34 43)				
34 43 23 16 Airfield Wind Cones (34 43 23)				
34 43 23 16-0001		Wind Cone, 12 Foot Long, Illuminated With 16' Hinged Pole (34 43 23 16)		
34 43 23 16-0002	EA	Wind Cone, 12' Lighted Assembly, With Light Rigid With Obstruction Light.....	25,413.56	1,507.85
34 43 23 16-0003	EA	Wind Cone, 12' Lighted Assembly Rigid.....	21,492.01	1,382.20
34 43 23 16-0004	EA	Wind Cone, 12' Unlighted Assembly, With Light Rigid With Obstruction Light.....	22,840.55	1,256.55
34 43 23 16-0005	EA	Wind Cone, 12' Unlighted Assembly Rigid.....	20,989.39	1,130.89
34 43 23 16-0006	EA	Wind Cone Slip Fitter, 2.5" Pipe.....	436.94	94.24
34 43 23 16-0007	EA	12' x 3' Wind Cone Cotton Sock With Frame.....	1,540.19	309.77
34 43 23 16-0008	EA	12' x 3' Wind Cone Nylon Sock With Frame.....	1,446.50	309.77
34 43 23 16-0009	EA	Booster Transformer, 1 KW Weatherproof Cabinet.....	1,562.51	188.48
34 43 23 16-0010		Wind Cone, Up To 8 Foot Long, Illuminated With 8' Hinged Pole (34 43 23 16)		
34 43 23 16-0011	EA	Wind Cone, 8' Lighted Assembly With Light Frangible With Obstruction Light.....	19,311.47	1,256.55
34 43 23 16-0012	EA	Wind Cone, 8' Lighted Assembly Frangible.....	20,714.81	1,130.89
34 43 23 16-0013	EA	Wind Cone, 8' Lighted Assembly Rigid.....	16,307.49	1,130.89
34 43 23 16-0014	EA	Wind Cone, 8' Unlighted Assembly, With Light Rigid With Obstruction Light.....	17,507.37	1,130.89
34 43 23 16-0015	EA	Wind Cone, 8' Unlighted Assembly Frangible.....	20,915.02	1,005.24
34 43 23 16-0016	EA	Wind Cone, 8' Unlighted Assembly Rigid.....	16,056.18	1,005.24
34 43 23 16-0017	EA	8' x 1-1/2' Wind Cone Nylon Sock With Frame.....	877.81	309.77
34 43 23 16-0018	EA	Removal And Replacement Of 8' x 1-1/2' Wind Cone Nylon Sock.....	327.51	
34 43 26 Airfield Control Equipment (34 43)				
34 43 26 13 Airfield Lighting Control Equipment (34 43 26)				
34 43 26 13-0001		Power Cable Assemblies (34 43 26 13)		
34 43 26 13-0002	EA	Approach And Navigational Light Upper Cable Assembly Power Cable Assemblies.....	241.29	94.24
34 43 26 13-0003	EA	Approach And Navigational Light Lower Cable Assembly Power Cable Assemblies.....	241.29	94.24
34 43 26 13-0004	EA	Approach And Navigational Light Cable Clamp Power Cable Assemblies.....	95.33	31.41
34 43 26 13-0005		Power Distribution And Control Equipment (34 43 26 13)		
34 43 26 13-0006		Control Panel (34 43 26 13-0005)		
34 43 26 13-0007	EA	Control Panel, Series Circuit Monitor 6.6 Amperes, 48 Volt DC Current.....	9,992.12	753.93
34 43 26 13-0008	EA	Key Selector Switch.....	133.27	40.84
34 43 26 13-0009		Series/Isolation Transformers (34 43 26 13-0005)		
34 43 26 13-0010	EA	Series / Isolation Transformers 30/45 Watt - FAA.....	320.60	62.83
34 43 26 13-0011	EA	Series / Isolation Transformers 65 Watt - FAA.....	358.04	62.83
34 43 26 13-0012	EA	Series / Isolation Transformers 100 Watt - FAA.....	395.48	62.83
34 43 26 13-0013	EA	Series / Isolation Transformers 300 Watt - FAA.....	538.31	94.24
34 43 26 13-0014	EA	Series / Isolation Transformers 500 Watt - FAA.....	560.77	94.24
34 43 26 13-0015	EA	Series / Isolation Transformers 30/45 Watt - MIL.....	411.70	62.83
34 43 26 13-0016	EA	Series / Isolation Transformers 200 Watt - MIL.....	481.59	62.83
34 43 26 13-0017	EA	Series / Isolation Transformers 300 Watt - MIL.....	651.87	94.24
34 43 26 13-0018	EA	Series / Isolation Transformers 500 Watt - MIL.....	734.24	94.24
34 43 26 13-0019		Auxiliary Pilot Relay Cabinet (34 43 26 13-0005)		
34 43 26 13-0020	EA	Relay Cabinet, 20 Circuit, 120 Volt, 50/60 Hertz Auxiliary Pilot Relay Cabinet.....	4,953.76	502.61
34 43 26 13-0021	EA	Relay Cabinet, 20 Circuit, 120 Volt, 50 Hertz Auxiliary Pilot Relay Cabinet.....	4,953.76	502.61
34 43 26 13-0022	EA	Relay Cabinet, 20 Circuit, 120 Volt, 60 Hertz Auxiliary Pilot Relay Cabinet.....	5,800.78	628.28
34 43 26 13-0023	EA	Master Timer Cabinet.....	20,577.37	1,361.72
34 43 26 13-0024		Radio Control (34 43 26 13-0005)		
34 43 26 13-0025	EA	Radio Control Receiver Controller.....	10,540.04	4,033.52
34 43 26 13-0026		Constant Current Regulator (34 43 26 13-0005)		
34 43 26 13-0027	EA	Constant Current Regulator, 10 KW - Wet Type Power Distribution And Control Equipment.....	15,483.11	753.93
34 43 26 13-0028	EA	Constant Current Regulator, 20 KW - Wet Type Power Distribution And Control Equipment.....	26,722.42	1,130.89
34 43 26 13-0029	EA	Constant Current Regulator, 50 KW - Wet Type Power Distribution And Control Equipment.....	40,816.99	1,884.82
34 43 26 13-0030	EA	Constant Current Regulator, 4 KW - Dry Type Power Distribution And Control Equipment.....	5,995.69	376.96
34 43 26 13-0031	EA	Constant Current Regulator, 7.5 KW - Dry Type Power Distribution And Control Equipment.....	8,742.54	502.61
34 43 26 13-0032	EA	Constant Current Regulator, 10 KW - Dry Type Power Distribution And Control Equipment.....	11,240.07	753.93
34 43 26 13-0033		Lamp Failure Detector (34 43 26 13-0005)		
34 43 26 13-0034	EA	Lamp Failure Detector, 120/240 Volt, 1 - 6.6 Amperes And 3 - 20 Amperes Circuit Monitoring.....	13,417.17	502.61



		Transportation	34
		Transportation Signaling and Control Equipment	34 40
		Airfield Signaling and Control Equipment	34 43

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 43 26 13-0035 Accessories (34 43 26 13-0005)		
34 43 26 13-0036 EA Plug Cutout Power Distribution And Control Equipment Accessory.....	1,438.57	251.31
34 43 26 13-0037 EA Primary Connector Kit Power Distribution And Control Equipment Accessory	279.30	125.65
34 43 26 13-0038 EA Secondary Connector Kit Power Distribution And Control Equipment Accessory	296.78	125.65
34 43 26 13-0039 EA Heat Shrink Kit Power Distribution And Control Equipment Accessory	392.76	188.48
34 43 26 13-0040 Runway Lighting Cable (34 43 26 13-0005)		
34 43 26 13-0041 LF Electric Type "C" Cable	11.68	1.25
34 43 26 13-0042 Terminal Blocks (34 43 26 13-0005)		
34 43 26 13-0043 EA Terminal Blocks	145.21	13.57
34 43 26 13-0044 Tower Lighting Controllers (34 43 26 13)		
34 43 26 13-0045 EA Tower Light Controllers 0-150' Tower Cabinets Only	4,341.30	1,005.24
34 43 26 13-0046 EA Light Controllers 150-450' Tower Cabinets Only	7,533.91	1,130.89
34 43 26 13-0047 EA One Obstruction Light Alarm.....	2,814.77	502.61
34 43 26 13-0048 EA 2 Obstruction Lights And 1 Beacon Alarm, Flasher Fail Safe	5,774.05	753.93
34 43 26 13-0049 EA Alarm Test Switch For 2 Lights Obstruction.....	5,273.24	502.61
34 43 26 13-0050 Junction Boxes And Tower Accessories (34 43 26 13)		
34 43 26 13-0051 EA Size 1 Junction Box, With 4 Hubs, 4" Diameter x 2" Deep	406.60	125.65
34 43 26 13-0052 EA Size 2 Junction Box, With 2 Or 4 Hubs, 8" x 4" x 2.5".....	673.80	157.07
34 43 26 13-0053 EA Size 3 Junction Box, With 4 Hubs 8 1/2" x 11 5/8" x 3 5/8".....	1,069.15	188.48
34 43 26 13-0054 EA Size 4 Junction Box, With 4 Hubs, 18" x 12" x 6"	1,476.01	251.31
34 43 26 13-0055 EA Junction Box Breather, Screened 1" Nipple With Threaded 90 Degree Elbow	289.29	125.65
34 43 26 13-0056 EA Junction Box Drain, Screened 1" Nipple	289.29	125.65
34 43 26 13-0057 EA Wraplock Tape, Galvanized Steel 100' Roll.....	1,581.00	753.93
34 43 26 13-0058 EA Telephone Jack Assembly In Field Box With 1/2" Hub	697.24	125.65
34 43 26 13-0059 EA Elevated Approach Bar	13,092.13	4,337.48
34 43 26 13-0060 Lighting Kits For Towers (34 43 26 13)		
Note: Includes fixtures, junction boxes, controllers, accessories, less wire and conduit.		
34 43 26 13-0061 EA Lighting Kits For Up To 100' Tower	11,460.47	4,398.71
34 43 26 13-0062 EA Lighting Kits For From 101'-150' Tower	20,980.39	5,498.38
34 43 26 13-0063 EA Lighting Kits For From 151'-200' Tower	26,347.85	8,247.57
34 43 26 13-0064 EA Lighting Kits For From 201'-300' Tower	34,783.02	12,371.36
34 43 26 13-0065 EA Lighting Kits For From 301'-450' Tower	60,396.50	20,344.01
34 43 26 13-0066 Junction Boxes And Tower Accessories (34 43 26 13)		
34 43 26 13-0067 EA Termination Bar Complete	7,681.33	1,361.72
34 70 Transportation Construction and Equipment (34)		
34 71 Roadway Construction (34 70)		
34 71 13 Vehicle Barriers (34 71)		
34 71 13 13 Vehicle Median Barriers (34 71 13)		
34 71 13 13-0001 Concrete Median Barrier (34 71 13 13)		
34 71 13 13-0002 LF Median Barrier, Precast, 42" High Single Face.....	64.52	4.88
34 71 13 13-0003 LF Median Barrier, Precast, 32" High, 2' Wide Base, Double Face	117.15	4.88
34 71 13 13-0004 LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face	171.90	4.88
34 71 13 13-0005 LF Median Barrier, Cast In Place With Steel Forms.....	46.08	6.54
34 71 13 13-0006 LF Median Barrier, Slipformed Concrete.....	38.89	3.85
34 71 13 16 Vehicle Crash Barriers (34 71 13)		
34 71 13 16-0001 Impact Barrier, Non-Redirective (34 71 13 16)		
34 71 13 16-0002 Sand Barrel Impact Attenuator (34 71 13 16-0001)		
Note: Includes containers, inserts, and lid. Excludes sand.		
34 71 13 16-0003 EA 200, 400 Or 700 Lb. Sand Barrel	540.47	60.23
Note: Includes containers, inserts, and lid.		
34 71 13 26 Vehicle Guide Rails (34 71 13)		
34 71 13 26-0001 Mobilize Guide Rail Crew (34 71 13 26)		
34 71 13 26-0002 EA Mobilize Guide Rail Crew	1,521.24	
Note: Excludes equipment mobilization.		

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
34 71 13 26-0003	Corrugated Beam Guide Rail (34 71 13 26)				
34 71 13 26-0004	Corrugated Beam Guide Railing (34 71 13 26-0003)				
34 71 13 26-0005	Corrugated Beam Guide Railing, Straight Sections (34 71 13 26-0004)				
	Note: Add additional length for back-up sections.				
34 71 13 26-0006	LF Corrugated Beam Guide Railing	38.04		2.71	
34 71 13 26-0007	LF Corrugated Beam Guide Railing (Rustic)	45.04		2.71	
34 71 13 26-0008	Corrugated Beam Guide Railing, Shop Curved (34 71 13 26-0004)				
	Note: Add additional length for back-up sections.				
34 71 13 26-0009	LF Shop Curved Corrugated Beam Guide Railing	50.93		2.71	
34 71 13 26-0010	LF Shop Curved Corrugated Beam Guide Railing (Rustic)	60.59		2.71	
34 71 13 26-0011	LF Shop Curved Corrugated Beam Guide Railing End	136.78		2.71	
	Note: Treatment for mall barriers driveways, walkways, special end, etc.				
34 71 13 26-0012	LF Shop Curved Corrugated Beam Guide Railing (Rustic) End	156.90		2.71	
	Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.				
34 71 13 26-0013	Corrugated Beam Guide Railing, Manufactured End Sections (34 71 13 26-0003)				
34 71 13 26-0014	EA Corrugated Beam Guide Railing End Section At Anchor Unit	264.89		35.85	
34 71 13 26-0015	EA Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit	282.44		35.85	
34 71 13 26-0016	EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section	370.17		35.85	
34 71 13 26-0017	EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic)	387.72		35.85	
34 71 13 26-0018	EA Corrugated Beam Guide Railing 225 Degree End Section	370.17		35.85	
34 71 13 26-0019	EA Corrugated Beam Guide Railing 225 Degree End Section (Rustic)	387.72		35.85	
34 71 13 26-0020	Corrugated Beam Guide Rail End Terminal Systems (34 71 13 26-0003)				
	Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.				
34 71 13 26-0021	EA Regent Flared End Terminal Head With Bracket, Type B And C	10,382.99		220.23	
34 71 13 26-0022	EA Fleet Flared End Terminal Head With Bracket	8,628.32		220.23	
34 71 13 26-0023	EA SKT 350 Tangent End Terminal Head With Bracket	10,382.99		220.23	
34 71 13 26-0024	EA 12'-6" Corrugated Beam Pre-drilled #1 Panel	1,454.42		103.82	
34 71 13 26-0025	EA Terminal Support System, Type SFT	1,102.22		277.59	
34 71 13 26-0026	EA Terminal Support System, Type ET	5,334.71		785.64	
34 71 13 26-0027	EA Terminal Support System, Type SRT	5,780.53		785.64	
34 71 13 26-0028	Corrugated Beam Guide Rail Posts (34 71 13 26-0003)				
	Note: Includes mounting hardware.				
34 71 13 26-0029	EA Standard Post For Corrugated Beam Guide Rail	304.45		17.77	
	For Installation Without Soil Plate, Deduct				
		-5.00			
	For Installation In Rock, Add				
		4.74			
34 71 13 26-0030	EA Standard Post For (Rustic) Corrugated Beam Guide Rail	321.99		17.77	
	For Installation Without Soil Plate, Deduct				
		-5.00			
	For Installation In Rock, Add				
		4.74			
34 71 13 26-0031	EA Extra Long Post For Corrugated Beam Guide Rail	339.54		17.77	
	For Installation Without Soil Plate, Deduct				
		-5.00			
	For Installation In Rock, Add				
		4.74			
34 71 13 26-0032	EA Extra Long Post (Rustic) for Corrugated Beam Guide Rail	357.09		17.77	
	For Installation Without Soil Plate, Deduct				
		-5.00			
	For Installation In Rock, Add				
		4.74			
34 71 13 26-0033	EA 6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail	304.45		17.77	
	For Installation Without Soil Plate, Deduct				
		-5.00			
	For Installation In Rock, Add				
		4.74			
34 71 13 26-0034	EA Post Struts for Corrugated Beam Guide Rail Mall Barrier Post	444.82		17.77	
	For Installation In Rock, Add				
		4.74			
34 71 13 26-0035	Heavy Post Blocked Out Corrugated Beam Guide Rail Posts (34 71 13 26-0003)				
	Note: Includes mounting hardware. Excludes triangular mounting brackets.				
34 71 13 26-0036	EA Standard Post For Heavy Post Blocked Out Corrugated Beam Guide	304.45		17.77	
34 71 13 26-0037	EA Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide	321.99		17.77	
34 71 13 26-0038	EA Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide	339.54		17.77	
34 71 13 26-0039	EA Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail	357.09		17.77	
	Note: For heavy post blocked out corrugated beam guide (rustic)				
34 71 13 26-0040	EA Type A Post 1630mm Post	295.67		17.77	
	Note: For heavy post blocked out corrugated beam guide rail				
34 71 13 26-0041	EA Type A Post 1630mm Post (Rustic)	313.22		17.77	
	Note: For heavy post blocked out corrugated beam guide rail				
34 71 13 26-0042	EA Type B Post 1460mm	278.13		17.77	
	Note: For heavy post blocked out corrugated beam guide rail				
34 71 13 26-0043	EA Type B Post 1460mm (Rustic)	295.67		17.77	
	Note: For heavy post blocked out corrugated beam guide rail				
34 71 13 26-0044	EA Type C Post 1290mm	260.58		17.77	
	Note: For heavy post blocked out corrugated beam guide rail				
34 71 13 26-0045	EA Type C Post 1290mm (Rustic)	278.13		17.77	
	Note: For heavy post blocked out corrugated beam guide rail				
34 71 13 26-0046	EA Breakaway Wood Or Steel Post In Steel Foundation Tube	1,184.59		17.77	



Transportation			34
Transportation Construction and Equipment			34 70
Roadway Construction			34 71

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0047 EA Wood, Metal, Plastic Or Composite Offset Block Or Beam Note: For heavy post blocked out corrugated beam guide rail.	111.43	17.77
34 71 13 26-0048 Corrugated Beam Guide Rail Accessories (34 71 13 26-0003)		
34 71 13 26-0049 EA Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C.....	229.80	40.75
34 71 13 26-0050 Corrugated Beam Guide Rail Repair for Existing Guide Rail (34 71 13 26-0003)		
Note: Includes associated hardware.		
34 71 13 26-0051 LF Removal And Storage Of Corrugated Beam Guide Railing And Post.....	15.92	
34 71 13 26-0052 EA Install Stored Post For Corrugated Beam Guide Rail	54.33	
34 71 13 26-0053 LF Install Stored Corrugated Beam Guide Railing And Post.....	9.23	
34 71 13 26-0054 Corrugated Thrie Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0055 Corrugated Thrie Beam Guide Railing. Straight Sections (34 71 13 26-0054)		
Note: Add additional length for back-up sections.		
34 71 13 26-0056 LF Corrugated Thrie Beam Guide Railing.....	94.14	3.42
34 71 13 26-0057 LF Corrugated Thrie Beam Guide Railing (Rustic).....	99.49	3.42
34 71 13 26-0058 Corrugated Thrie Beam Guide Railing. Shop Curved (34 71 13 26-0054)		
Note: Add additional length for back-up sections.		
34 71 13 26-0059 LF Shop Curved Corrugated Thrie Beam Guide Railing	115.54	3.42
34 71 13 26-0060 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic).....	120.88	3.42
34 71 13 26-0061 Corrugated Thrie Beam Guide Rail Posts (34 71 13 26-0054)		
Note: Includes hardware for mounting.		
34 71 13 26-0062 EA Standard Post For Corrugated Thrie Beam Guide Rail..... For Installation Without Soil Plate, Deduct For 32" Soil Plate, Add	390.59 -5.00 7.00	3.42
34 71 13 26-0063 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail For Installation Without Soil Plate, Deduct For 32" Soil Plate, Add	408.13 -5.00 7.00	3.42
34 71 13 26-0064 Timber Guide Rails (34 71 13 26)		
Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0065 Timber Guide Rail Posts (34 71 13 26-0064)		
34 71 13 26-0066 EA 6" x 8" Timber Guide Rail Post	123.38	13.58
34 71 13 26-0067 EA 6" x 9" Timber Guide Rail Post	140.79	13.58
34 71 13 26-0068 EA 10" x 10" Timber Guide Rail Post	277.23	13.58
34 71 13 26-0069 EA 10" x 12" Timber Guide Rail Post	293.50	13.58
34 71 13 26-0070 EA 12" x 12" Timber Guide Rail Post	339.89	13.58
34 71 13 26-0071 Timber Guide Rails (34 71 13 26-0064)		
Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072 LF 4" x 9" Timber Guide Rail.....	15.31	1.63
34 71 13 26-0073 LF 6" x 10" Timber Guide Rail.....	21.58	1.63
34 71 13 26-0074 LF 6" x 12" Timber Guide Rail.....	25.25	1.63
34 71 13 26-0075 Spacer Blocks For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0076 EA 4" x 9" Spacer Block For Timber Guide Rails	19.94	2.17
34 71 13 26-0077 EA 6" x 8" Spacer Block For Timber Guide Rails	22.95	2.17
34 71 13 26-0078 EA 8" x 8" Spacer Block For Timber Guide Rails	26.78	2.17
34 71 13 26-0079 Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0080 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	27.81	1.36
34 71 13 26-0081 Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0082 EA Weathering Steel Splice Plate For Timber Guide Rails	193.13	19.02
34 71 13 26-0083 EA Weathering Steel Bearing Termination Plate For Timber Guide Rails	121.06	13.58
34 71 13 26-0084 Cable Guide Rail (34 71 13 26)		
34 71 13 26-0085 Cable Guide Rail (34 71 13 26-0084)		
34 71 13 26-0086 LF Cable (Each Cable)	18.88	2.93
Note: Includes tensioning. Excludes splices.		
34 71 13 26-0087 EA Cable Splice With Wedges	553.56	20.37

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0088	Cable Guide Rail Posts (34 71 13 26-0084) Note: Includes hardware for cable mounting.				
34 71 13 26-0089	EA	Standard Post for Cable Guide Rail.....	342.20	59.25	
		For Installation Without Soil Plate, Deduct	-5.00		
		For Installation In Rock, Add	15.80		
34 71 13 26-0090	EA	Standard Post (Rustic) for Cable Guide Rail.....	359.75	59.25	
		For Installation Without Soil Plate, Deduct	-5.00		
		For Installation In Rock, Add	15.80		
34 71 13 26-0091	EA	Extra Long Post for Cable Guide Rail.....	359.75	59.25	
		For Installation Without Soil Plate, Deduct	-5.00		
		For Installation In Rock, Add	15.80		
34 71 13 26-0092	EA	Extra Long Post (Rustic) for Cable Guide Rail.....	377.29	59.25	
		For Installation Without Soil Plate, Deduct	-5.00		
		For Installation In Rock, Add	15.80		
34 71 13 26-0093	EA	Slip Impact Post Top for Anchor Unit.....	242.17	23.70	
34 71 13 26-0094	EA	Slip Impact Post Base and Keeper Plate.....	680.84	23.70	
		Note: For anchor unit.			
34 71 13 26-0095	Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0084)				
34 71 13 26-0096	EA	Turnbuckle Cable End Assembly For Use With Breakaway Anchors.....	959.51	272.19	
34 71 13 26-0097	EA	Turnbuckle Cable End Assembly.....	369.08	13.61	
34 71 13 26-0098	EA	Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors.....	1,237.29	6.76	
34 71 13 26-0099	EA	Spring Cable End Assembly (Compensating Device) Without Turnbuckle.....	1,272.38	6.76	
34 71 13 26-0100	EA	Breakaway Anchor Angle.....	474.36	13.61	
34 71 13 26-0101	EA	Standard End Post Cap Assembly.....	219.58	6.76	
34 71 13 26-0102	EA	Driveway End Post Cap Assembly.....	184.49	6.76	
34 71 13 26-0103	EA	End Post Ground Support Plates.....	96.75	6.76	
34 71 13 26-0104	EA	11" Stud Bolt, Cable Guide Rail.....	83.59	6.76	
34 71 13 26-0105	EA	18" Stud Bolt, Cable Guide Rail.....	101.14	6.76	
34 71 13 26-0106	EA	25" Stud Bolt, Cable Guide Rail.....	118.69	6.76	
34 71 13 26-0107	EA	1-1/4" Diameter Turnbuckle, Cable Guide Rail.....	1,070.95	13.61	
34 71 13 26-0108	EA	1-1/2" Diameter Turnbuckle, Cable Guide Rail.....	1,141.14	13.61	
34 71 13 26-0109	EA	5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail.....	755.11	13.61	
34 71 13 26-0110	EA	5/8" Eye Bolt 18" Long, Cable Guide Rail.....	465.23	6.76	
34 71 13 26-0111	EA	3/4" Eye Bolt 8'-6" Long, Cable Guide Rail.....	474.36	13.61	
34 71 13 26-0112	EA	1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail.....	500.92	20.37	
34 71 13 26-0113	Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0084)				
34 71 13 26-0114	EA	Turnbuckle Cable End Assembly.....	851.08	19.79	
		Note: For use with slip impact post.			
34 71 13 26-0115	EA	Spring Cable End Assembly (Compensating Device).....	1,693.33	19.79	
		Note: For use with slip impact post.			
34 71 13 26-0116	EA	Anchor Angle For Slip Impact Post System.....	482.60	19.79	
34 71 13 26-0117	EA	Cable End Assembly Rod.....	394.87	19.79	
		Note: Includes cable end, threaded rod and keeper to anchor angle.			
34 71 13 26-0118	Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0084) Note: Includes associated hardware.				
34 71 13 26-0119	LF	Retention Existing Cable (Each Cable).....	1.82		
34 71 13 26-0120	LF	Removal And Storage Of Cable Guide Railing.....	10.94		
34 71 13 26-0121	EA	Install Stored Post For Cable Guide Railing.....	79.00		
34 71 13 26-0122	LF	Install Stored Cable, (Each Cable).....	4.84		
		Note: Includes retensioning. Excludes splices.			
34 71 13 26-0123	6" x 6" Box Beam Guide Rail (34 71 13 26)				
34 71 13 26-0124	Box Beam Guide Rail, 6" x 6" (34 71 13 26-0123)				
34 71 13 26-0125	Straight Sections, Box Beam Guide Rail (34 71 13 26-0124)				
34 71 13 26-0126	LF	Box Beam Guide Railing 6" x 6" x 3/16" Galvanized.....	114.20	3.42	
		Note: Excludes splices.			
		For Flush Mounting Directly To Structure, Add	1.83		
34 71 13 26-0127	LF	Box Beam Guide Railing 6" x 6" x 3/16" (Rustic).....	130.24	3.42	
		Note: Excludes splices.			
		For Flush Mounting Directly To Structure, Add	1.83		
34 71 13 26-0128	LF	Box Beam Guide Railing 8" x 6" x 3/16" Galvanized.....	136.16	3.42	
		Note: Excludes splices			
		For Flush Mounting Directly To Structure, Add	1.83		
34 71 13 26-0129	Shop Curved, Box Beam Guide Rail (34 71 13 26-0124)				
34 71 13 26-0130	LF	Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized.....	175.70	3.42	
		Note: Excludes splices.			
		For Shop Curved At <20' Radius, Add	2.44		
		For Flush Mounting Directly To Structure, Add	1.83		



Transportation			34	34
Transportation Construction and Equipment			34 70	
Roadway Construction			34 71	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0131	LF	Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices. For Shop Curved At <20' Radius, Add For Flush Mounting Directly To Structure, Add	191.75 2.44 1.83	3.42
34 71 13 26-0132	LF	Shop Curved Box Beam Guide Railing 8" x 6" x 3/16" Galvanized Note: Excludes splices. For Shop Curved At <20' Radius, Add For Flush Mounting Directly To Structure, Add	209.86 2.44 1.83	3.42
34 71 13 26-0133 Box Beam Guide Rail End Treatment Sections (34 71 13 26-0123)				
Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.				
34 71 13 26-0134	EA	Box Beam End Piece Guide Railing Section Note: Galvanized excludes splices.	1,809.00	40.75
34 71 13 26-0135	EA	Box Beam End Piece Guide Railing Section (Rustic) Note: Excludes splices.	2,002.01	40.75
34 71 13 26-0136	EA	Box Beam Guide Railing End Treatment Section At Driveway, Galvanized Note: Excludes splices.	1,703.72	40.75
34 71 13 26-0137	EA	Box Beam Guide Railing End Treatment Section At Driveway, (Rustic) Note: Excludes splices.	1,773.91	40.75
34 71 13 26-0138	EA	Box Beam Guiderail End Assembly Note: Includes all components for the first 14'. Includes energy absorbing terminal, bearing plate, steel breakaway post upper and lower assembly, interior sleeve, box beam, post breaker, cable assembly, end tube rail, end tube tie plate, post 1 and post 2.	51,185.15	1,086.60
34 71 13 26-0139 Splices For Box Beam Guide Rail (34 71 13 26-0123)				
34 71 13 26-0140	EA	Splice For Box Beam Guide Rail	384.18	60.48
34 71 13 26-0141	EA	Splice For Box Beam Guide Rail (Rustic)	507.01	60.48
34 71 13 26-0142 Box Beam Guide Rail Posts (34 71 13 26-0123)				
Note: Includes hardware for box beam mounting.				
34 71 13 26-0143	EA	Standard Post For Box Beam Guide Rail For Installation Without Soil Plate, Deduct For Installation In Rock, Add	359.75 -5.00 15.80	59.25
34 71 13 26-0144	EA	Standard Post (Rustic) for Box Beam Guide Railing For Installation Without Soil Plate, Deduct For Installation In Rock, Add	377.29 -5.00 15.80	59.25
34 71 13 26-0145	EA	Extra Long Post For Box Beam Guide Rail For Installation Without Soil Plate, Deduct For Installation In Rock, Add	394.84 -5.00 15.80	59.25
34 71 13 26-0146	EA	Extra Long Post (Rustic) For Box Beam Guide Rail For Installation Without Soil Plate, Deduct For Installation In Rock, Add	412.39 -5.00 15.80	59.25
34 71 13 26-0147	EA	Type I End Assembly Post For Installation Without Soil Plate, Deduct For Installation In Rock, Add	342.20 -5.00 15.80	59.25
34 71 13 26-0148	EA	Type I End Assembly Post (Rustic) For Installation Without Soil Plate, Deduct For Installation In Rock, Add	359.75 -5.00 15.80	59.25
34 71 13 26-0149	EA	Type II End Assembly Post For Installation Without Soil Plate, Deduct For Installation In Rock, Add	324.65 -5.00 15.80	59.25
34 71 13 26-0150	EA	Type II End Assembly Post (Rustic) For Installation Without Soil Plate, Deduct For Installation In Rock, Add	342.20 -5.00 15.80	59.25
34 71 13 26-0151 Box Beam Guide Rail Accessories (34 71 13 26-0123)				
34 71 13 26-0152	EA	Box Beam Guide Rail End Cover Plate	226.85	12.23
34 71 13 26-0153	EA	Box Beam Guide Rail End Cover Plate (Rustic)	244.40	12.23
34 71 13 26-0154 Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0123)				
Note: For existing guide rail.				
34 71 13 26-0155	LF	Removal And Storage Of Box Beam Guide Rail And Post	5.36	
34 71 13 26-0156	LF	Reset Box Beam Guide Rail	15.67	
34 71 13 26-0157 6" x 8" Box Beam Median Barrier (34 71 13 26)				
34 71 13 26-0158 Box Beam Median Barrier, 6" x 8" (34 71 13 26-0157)				
34 71 13 26-0159 Straight Sections, Box Beam Median Barrier (34 71 13 26-0158)				
34 71 13 26-0160	LF	Box Beam Median Barrier Galvanized Excludes Splices For Flush Mounting Directly To Structure, Add	184.76 1.83	12.23
34 71 13 26-0161	LF	Box Beam Median Barrier (Rustic) Excludes Splices For Flush Mounting Directly To Structure, Add	200.80 1.83	12.23
34 71 13 26-0162 Shop Curved, Box Beam Median Barrier (34 71 13 26-0158)				

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0163	LF	Shop Curved Box Beam Median Barrier Galvanized Note: Excludes splices. For Shop Curved At <20' Radius, Add For Flush Mounting Directly To Structure, Add	226.92 2.44 1.83	12.23
34 71 13 26-0164	LF	Shop Curved Box Beam Median Barrier Rustic Note: Excludes splices. For Shop Curved At <20' Radius, Add For Flush Mounting Directly To Structure, Add	279.58 2.44 1.83	12.23
34 71 13 26-0165		Box Beam Median Barrier End Treatment Sections (34 71 13 26-0157) Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0166	EA	Box Beam Median Barrier Type A End Treatment Section, Galvanized Note: Excludes splices and post.	6,002.66	40.75
34 71 13 26-0167	EA	Box Beam Median Barrier Type A End Treatment Section (Rustic) Note: Excludes splices and post.	6,143.03	40.75
34 71 13 26-0168	EA	Box Beam Median Barrier Type B End Treatment Section, Galvanized Note: Excludes splices and post.	6,002.66	40.75
34 71 13 26-0169	EA	Box Beam Median Barrier Type B End Treatment Section (Rustic) Note: Excludes splices and post.	6,143.03	40.75
34 71 13 26-0170		Splices For Box Beam Median Barrier (34 71 13 26-0157)		
34 71 13 26-0171	EA	Splice for Box Beam Median Barrier	429.49	32.60
34 71 13 26-0172	EA	Splice for Box Beam Median Barrier (Rustic)	692.69	32.60
34 71 13 26-0173		Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0157) Note: Includes all associated hardware.		
34 71 13 26-0174	EA	Standard Post for Box Beam Median Barrier For Installation Without Soil Plate, Deduct For Installation In Rock, Add	359.75 -5.00 15.80	59.25
34 71 13 26-0175	EA	Standard Post (Rustic) for Box Beam Median Barrier For Installation Without Soil Plate, Deduct For Installation In Rock, Add	377.29 -5.00 15.80	59.25
34 71 13 26-0176	EA	Extra Long Post for Box Beam Median Barrier For Installation Without Soil Plate, Deduct For Installation In Rock, Add	394.84 -5.00 15.80	59.25
34 71 13 26-0177	EA	Extra Long Post (Rustic) for Box Beam Median Barrier For Installation Without Soil Plate, Deduct For Installation In Rock, Add	412.39 -5.00 15.80	59.25
34 71 13 26-0178	EA	Type B End Treatment or Rub Back Anchor Post for Box Beam Note: For median barrier. For Installation Without Soil Plate, Deduct For Installation In Rock, Add	324.65 -5.00 15.80	59.25
34 71 13 26-0179	EA	Type B End Treatment or Rub Back Anchor Post (Rustic) Note: For box beam median barrier. For Installation Without Soil Plate, Deduct For Installation In Rock, Add	324.65 -5.00 15.80	59.25
34 71 13 26-0180	EA	Type I End Assembly Post for Box Beam Median Barrier to Concrete Note: For median barrier transition. For Installation Without Soil Plate, Deduct For Installation In Rock, Add	394.84 -5.00 15.80	59.25
34 71 13 26-0181	EA	Type I End Assembly Post (Rustic) for Box Beam Median Barrier Note: For Concrete median barrier transition. For Installation Without Soil Plate, Deduct For Installation In Rock, Add	412.39 -5.00 15.80	59.25
34 71 13 26-0182		Box Beam Median Barrier Accessories (34 71 13 26-0157)		
34 71 13 26-0183	EA	Box Beam Median Barrier End Cover Plate	262.79	28.69
34 71 13 26-0184	EA	Box Beam Median Barrier End Cover Plate (Rustic)	280.34	28.69
34 71 13 26-0185		Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0157) Note: For existing guide rail.		
34 71 13 26-0186	LF	Removal And Storage Of Box Beam Median Barrier and Posts	5.55	
34 71 13 26-0187	LF	Reset Box Beam Median Barrier	16.40	
34 71 13 26-0188		Universal Guide Rail Items (34 71 13 26)		
34 71 13 26-0189		Guide Rail Concrete Anchor Units For All Types Of Guide Rail (34 71 13 26-0188) Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.		
34 71 13 26-0190	CY	Guide Rail Concrete Anchor Unit For Each Additional Set Of Anchor Rods, Add	922.06 38.00	
34 71 13 26-0191	EA	Reset Existing Anchorage Unit for All Types of Guide Rail Note: Includes excavation and backfill.	623.10	
34 71 13 26-0192	EA	Removal Of Guide Rail Concrete Anchor Unit	641.88	



		Transportation	34
		Transportation Construction and Equipment	34 70
		Roadway Construction	34 71

34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0193 Guide Rail Repair For All Types Of Existing Guide Rail (34 71 13 26-0188) Note: Includes associated hardware.		
34 71 13 26-0194 EA Straighten And Reset Driven Post For Guide Rail	79.00	
34 71 13 26-0195 EA Straighten And Reset Post Mounted On Concrete For Guide Rail	104.27	
Note: With base plate for guide rail. Includes new anchor bolts.		
34 71 13 26-0196 Additional Wood and Steel Posts (34 71 13 26-0188)		
34 71 13 26-0197 LF 4" x 6" Wood Post.....	109.73	19.79
For Installation In Rock, Add	5.28	
34 71 13 26-0198 LF 6" x 8" Wood Post.....	136.05	19.79
For Installation In Rock, Add	5.28	
34 71 13 26-0199 LF 6" x 7/8" Galvanized Steel Post	76.10	19.79
For Installation In Rock, Add	5.28	
34 71 13 26-0200 EA Base Plate With Anchor Bolts For Mounting Post On Concrete	822.73	19.79
34 71 13 26-0201 Accessories For All Types of Guide Rail (34 71 13 26-0188)		
34 71 13 26-0202 EA Reflector For Guard Rail	109.84	
34 71 13 26-0203 Guide Rail Transitions (34 71 13 26)		
34 71 13 26-0204 Transition Box Beam Guide Rail To Corrugated Beam (34 71 13 26-0203)		
34 71 13 26-0205 EA Box Beam To Corrugated Beam Rail Bolted Section.....	1,415.72	
34 71 13 26-0206 EA Box Beam To Corrugated Beam Rail Bolted Plate	713.85	
Note: For making cable connections.		
34 71 13 26-0207 Transition Box Beam Median Barrier To Corrugated Beam Median (34 71 13 26-0203)		
34 71 13 26-0208 EA Box Beam Median Barrier To Corrugated Beam Bolted Section	1,450.82	
34 71 13 26-0209 EA Box Beam Median Barrier To Corrugated Beam Harness Plate	713.85	
Note: For making cable connections.		
34 71 13 26-0210 Transition Box Beam Guide Rail To Cable Guide Rail (34 71 13 26-0203)		
34 71 13 26-0211 EA Box Beam to Cable Guide Rail U-bolt And Plate	211.76	21.73
34 71 13 26-0212 Transition Box Beam Median Barrier To Concrete Median Barrier (34 71 13 26-0203)		
34 71 13 26-0213 EA Box Beam Median Barrier To Concrete Barrier End Connection	2,117.59	
34 71 13 26-0214 Transition Thrie Beam To Concrete Median Barrier (34 71 13 26-0203)		
34 71 13 26-0215 EA Thrie Beam Terminal Connector At Concrete Median Barrier	1,240.26	
34 71 13 26-0216 EA Thrie Beam Transition Section To Corrugated Beam Guide Rail.....	1,678.92	
34 71 13 26-0217 Resilient Guard Fence And Light Shield (34 71 13 26)		
34 71 13 26-0218 LF Resilient Guard Fence And Light Shield, Up To 6' High	87.65	8.38
34 71 13 26-0219 Individual Concrete Guard Rail Posts (34 71 13 26)		
34 71 13 26-0220 EA 6'-5" Concrete Guard Rail Posts, Round	87.71	8.38
34 71 13 26-0221 EA 6'-5" Concrete Posts, Square.....	98.25	9.43
34 71 13 26-0222 EA 6'-5" Concrete Posts, Triangular	95.90	9.43
34 71 16 Impact Attenuating Devices (34 71)		
34 71 16 00-0001 Guard Rail Energy Absorbing Terminals (34 71 16)		
Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. One Bay consists of one Cartridge, one Diaphragm, and two Fender Panels. The Nose section is not considered a Bay, though there is a Cartridge in the Nose of each system. QuadGuard System as manufactured by Energy Absorption Systems, Inc.		
34 71 16 00-0002 24" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0003 EA 24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	40,199.01	4,002.13
34 71 16 00-0004 EA 24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	55,851.49	5,336.18
34 71 16 00-0005 EA 24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	76,252.72	7,003.73
34 71 16 00-0006 EA 24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	84,665.76	8,671.28
34 71 16 00-0007 30" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0008 EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	43,266.92	4,502.40
34 71 16 00-0009 EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	60,298.52	6,003.20
34 71 16 00-0010 EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	82,780.53	8,004.27
34 71 16 00-0011 EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	94,752.20	9,671.82

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 16 00-0012		36" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001) Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0013	EA	36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	46,370.75	5,002.66
34 71 16 00-0014	EA	36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	64,780.64	6,670.22
34 71 16 00-0015	EA	36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	88,607.26	8,838.05
34 71 16 00-0016	EA	36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	104,801.63	10,672.35
34 71 16 00-0017		69" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001) Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0018	EA	69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	50,204.52	5,502.94
34 71 16 00-0019	EA	69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	69,547.30	7,337.24
34 71 16 00-0020	EA	69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	95,570.41	9,671.82
34 71 16 00-0021	EA	69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	112,501.70	11,672.89
34 71 16 00-0022		90" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001) Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0023	EA	90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	54,144.22	6,003.20
34 71 16 00-0024	EA	90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	74,438.43	8,004.27
34 71 16 00-0025	EA	90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	103,449.82	10,672.35
34 71 16 00-0026	EA	90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	120,420.25	12,673.42
34 71 19		Vehicle Delineators (34 71)		
34 71 19 16		Flexible Vehicle Delineators (34 71 19)		
34 71 19 16-0001	EA	2' High, 3" Diameter Flexible Fixed Stanchion Delineator	104.25	10.47
34 71 19 16-0002	EA	3' High, 3" Diameter Flexible Fixed Stanchion Delineator	105.68	10.47
34 71 19 16-0003	EA	3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator	107.11	10.47
34 71 19 16-0004	EA	4' High, 3" Diameter Flexible Fixed Stanchion Delineator	108.54	10.47
34 80		Bridges (34)		
34 82		Bridge Specialties (34 80)		
34 82 23		Bridge Railing (34 82)		
34 82 23 00-0001		Metal Bridge Railing (34 82 23) Note: Includes hardware for bridge rail mounting.		
34 82 23 00-0002	LF	2" x 2" x 1/8" Bridge Railing	44.94	3.98
34 82 23 00-0003	LF	3" x 3" x 5/16" Bridge Railing	80.44	6.19
34 82 23 00-0004	LF	5" x 3" x 1/4" Bridge Railing	101.55	9.08
34 82 23 00-0005	LF	6" x 6" x 3/16" Bridge Railing	132.99	11.43
34 82 23 00-0006	LF	5" Outside Diameter x 1/4" Bridge Railing	108.68	8.82
34 82 23 00-0007		Bridge Post (34 82 23) Note: Includes hardware for bridge post mounting.		
34 82 23 00-0008	EA	6" x 9" x 5'-6" Bridge Post	213.20	57.80
34 82 23 00-0009	EA	6" x 9" x 7' Bridge Post	270.92	61.42
34 82 23 00-0010	EA	Two Rail With Base Plate Bridge Post Assembly	642.12	108.39
34 82 23 00-0011	EA	Two Rail With Curb Bridge Post Assembly	798.01	115.61
34 82 23 00-0012	EA	Two Rail (Curbless) Bridge Post Assembly	722.66	115.61
34 82 23 00-0013	EA	Two Rail With Optional Handrail Bridge Post Assembly	883.07	115.61
34 82 23 00-0014	EA	Three Rail With Base Plate Bridge Post Assembly	663.83	115.61
34 82 23 00-0015	EA	Three Rail With Curb Bridge Post Assembly	925.24	119.23
34 82 23 00-0016	EA	Three Rail (Curbless) Bridge Post Assembly	905.37	119.23
34 82 23 00-0017	EA	Three Rail With Optional Handrail Bridge Post Assembly	1,130.94	119.23
34 82 23 00-0018	EA	Four Rail (Curbless) With Base Plate Bridge Post	741.31	122.84
34 82 23 00-0019	EA	Four Rail With Base Plate (Sidewalk Type) Bridge Post	741.52	122.84
34 82 23 00-0020	EA	Four Rail With Curb Bridge Post Assembly	1,144.67	122.84
34 82 23 00-0021	EA	Four Rail (Curbless) Bridge Post Assembly	1,177.43	122.84
34 82 23 00-0022	EA	Five Rail With Base Plate (Curbless) Bridge Post Assembly	828.20	130.06
34 82 23 00-0023		Bridge Railing Splices (34 82 23) Note: Includes hardware for splices.		
34 82 23 00-0024	EA	5" Outside Diameter Bridge Railing Splice	357.57	27.94
34 82 23 00-0025	EA	5" x 3" Bridge Railing Splice	208.19	24.45
34 82 23 00-0026	EA	3" x 3" Bridge Railing Splice	126.72	17.46
34 82 23 00-0027	EA	2" x 2" Bridge Railing Splice	62.44	12.57
34 82 23 00-0028	EA	5" x 5" x 3' Expansion Splice Tube	268.19	27.01
34 82 23 00-0029	EA	4" x 2" x 3' Expansion Splice Bar	286.60	27.01
34 82 23 00-0030	EA	5" x 5" x 2' Fixed Splice Tube	243.96	27.01
34 82 23 00-0031	EA	4" x 2" x 2' Fixed Splice Bar	250.62	27.01
34 82 23 00-0032	EA	6" x 6" x 3/16" Box x 9' Flare Tube	362.11	36.49



Transportation		34	34
Bridges		34 80	
Bridge Specialties		34 82	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
34 82 23 00-0033 Transition For Bridge Railing (34 82 23)					
Note: Includes hardware for transition for bridge railing.					
34 82 23 00-0034	EA	Two Rail Box Beam To Bridge Transition With Splices	1,476.91		144.52
34 82 23 00-0035	EA	Three Rail Box Beam To Bridge Transition With Splices	1,572.76		151.74
34 82 23 00-0036	EA	Four Rail Box Beam To Bridge Transition With Splices	1,843.05		158.97
34 82 23 00-0037	EA	6" x 6" x 16-1/2' Bottom Transition Tube	618.29		72.26
34 82 23 00-0038	EA	6" x 6" x 22' Bottom Transition Tube	767.04		79.48
34 82 23 00-0039	EA	8" x 6" x 16-1/2' Bottom Transition Tube	726.68		72.26
34 82 23 00-0040	EA	6" x 6" x 16-1/2' Top Transition Tube	634.58		72.26
34 82 23 00-0041	EA	6" x 6" x 21-1/2' Top Transition Tube	753.58		79.48
34 82 23 00-0042	EA	8" x 6" x 16-1/2' Top Transition Tube	746.90		72.26
34 82 23 00-0043	EA	6" x 6" x 16-1/2' Middle Transition Tube	595.94		72.26
34 82 23 00-0044	EA	8" x 6" x 16-1/2' Middle Transition Tube	736.79		72.26
34 82 23 00-0045 Anchor Plates And End Caps For Bridge Railing (34 82 23)					
34 82 23 00-0046	EA	14" x 14" Bridge Railing Anchor Plate	65.80		6.99
34 82 23 00-0047	EA	18" x 22" Deck Anchor Plate	400.36		34.92
34 82 23 00-0048	EA	2" x 2" Bridge Railing End Cap	54.38		3.50
34 82 23 00-0049	EA	3" x 3" Bridge Railing End Cap	33.45		3.50
34 82 23 00-0050	EA	5" O.D Bridge Railing End Cap	33.20		3.50
34 82 26 Bridge Slope Protection (34 82)					
34 82 26 00-0001 Bridge Slope Protection (34 82 26)					
Note: Solid concrete masonry unit installed in sand bedding.					
34 82 26 00-0002	SF	8" x 16" x 4" Solid Concrete Block, Bridge Slope Protection	15.11		5.57
34 82 26 00-0003	SF	8" x 16" x 6" Solid Concrete Block, Bridge Slope Protection	18.19		6.14
34 82 26 00-0004	SF	8" x 16" x 8" Solid Concrete Block, Bridge Slope Protection	20.20		6.53

END OF SECTION 34

34	34	Transportation
	34 80	Bridges
	34 82	Bridge Specialties



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

35 Waterway and Marine Construction

35 05 Common Work Results for Waterway and Marine Construction⁽³⁵⁾

35 05 70 Common Work Results for Dams^(35 05)

35 05 70 00-0001	Rubber Dam Repair ^(35 05 70)		
35 05 70 00-0002	EA Class A Rubber Dam Repair (Bullet And Similar Holes).....	43.64	
35 05 70 00-0003	SF Class B Rubber Dam Repair (Minor Surface Rubber Damage).....	86.81	
35 05 70 00-0004	SF Class C Rubber Dam Repair (Major Surface Rubber Damage).....	127.28	
35 05 70 00-0005	SF Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material	142.04	

35 20 Waterway and Marine Construction and Equipment⁽³⁵⁾

35 22 Hydraulic Gates^(35 20)

35 22 26 Sluice Gates^(35 22)

35 22 26 00-0001 Heavy-Duty Cast Iron Sluice Gates Self Contained^(35 22 26)

Note: Includes crank operated geared gate lift, anchor bolts, and grouting.

35 22 26 00-0002	EA 18" x 18" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	11,356.81	1,307.82
	For Electric Motor Operated Valve, Add	1,111.57	
35 22 26 00-0003	EA 24" x 24" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	16,262.46	1,961.80
	For Electric Motor Operated Valve, Add	1,242.36	
35 22 26 00-0004	EA 30" x 30" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	19,701.90	2,242.05
	For Electric Motor Operated Valve, Add	1,298.41	
35 22 26 00-0005	EA 36" x 36" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	22,472.89	2,452.25
	For Electric Motor Operated Valve, Add	1,340.45	
35 22 26 00-0006	EA 42" x 42" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	25,218.62	2,802.58
	For Electric Motor Operated Valve, Add	1,410.52	
35 22 26 00-0007	EA 48" x 48" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	35,299.26	4,484.12
	For Electric Motor Operated Valve, Add	1,746.82	
35 22 26 00-0008	EA 54" x 54" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	47,051.52	5,605.15
	For Electric Motor Operated Valve, Add	1,971.03	
35 22 26 00-0009	EA 60" x 60" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	54,842.56	7,426.82
	For Electric Motor Operated Valve, Add	2,335.36	
35 22 26 00-0010	EA 66" x 66" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	68,247.36	9,809.00
	For Electric Motor Operated Valve, Add	2,811.80	
35 22 26 00-0011	EA 72" x 72" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	71,614.22	11,210.29
	For Electric Motor Operated Valve, Add	3,092.06	
35 22 26 00-0012	EA 78" x 78" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	80,394.82	11,210.29
	For Electric Motor Operated Valve, Add	3,492.06	
35 22 26 00-0013	EA 84" x 84" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	93,264.71	12,611.58
	For Electric Motor Operated Valve, Add	3,772.32	
35 22 26 00-0014	EA 90" x 90" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	111,972.39	14,390.67
	For Electric Motor Operated Valve, Add	4,128.14	
35 22 26 00-0015	EA 96" x 96" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	126,310.74	15,075.94
	For Electric Motor Operated Valve, Add	4,265.19	
35 22 26 00-0016	EA 108" x 108" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	156,599.98	17,817.02
	For Electric Motor Operated Valve, Add	4,813.40	
35 22 26 00-0017	EA 120" x 120" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	193,476.08	21,928.64
	For Electric Motor Operated Valve, Add	5,635.73	
35 22 26 00-0018	EA 132" x 132" Heavy-Duty Sluice Gates Self Contained With Crank Operated Gate.....	236,237.15	24,669.73
	For Electric Motor Operated Valve, Add	6,183.95	

35 22 59 Hydraulic Closure Gates^(35 22)

35 22 59 00-0001 Steel Slide Gates Self Contained^(35 22 59)

Note: Includes anchors and bolts.

35 22 59 00-0002	EA 12" x 12" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting.....	3,902.63	490.45
	For Electric Motor Operated Valve, Add	948.09	
35 22 59 00-0003	EA 18" x 18" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting.....	5,209.34	560.51
	For Electric Motor Operated Valve, Add	962.10	
35 22 59 00-0004	EA 24" x 24" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting.....	5,942.69	653.98
	For Electric Motor Operated Valve, Add	980.79	
35 22 59 00-0005	EA 30" x 30" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting.....	7,181.68	784.72
	For Electric Motor Operated Valve, Add	1,006.94	
35 22 59 00-0006	EA 36" x 36" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting.....	9,192.55	980.90
	For Electric Motor Operated Valve, Add	1,046.18	
35 22 59 00-0007	EA 42" x 42" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting.....	10,760.84	1,307.82
	For Electric Motor Operated Valve, Add	1,111.57	
35 22 59 00-0008	EA 48" x 48" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting.....	14,738.20	1,961.80
	For Electric Motor Operated Valve, Add	1,242.36	
35 22 59 00-0009	EA 54" x 54" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting.....	22,419.09	2,452.25
	For Electric Motor Operated Valve, Add	1,340.45	
35 22 59 00-0010	EA 60" x 60" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting.....	29,182.11	3,923.61
	For Electric Motor Operated Valve, Add	1,634.72	

35 Waterway and Marine Construction**35 20 Waterway and Marine Construction and Equipment****35 22 Hydraulic Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0011	EA	72" x 72" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting..... <i>For Electric Motor Operated Valve, Add</i>	37,056.80 2,157.87	6,539.38
35 22 59 00-0012	SF	Over 36 SF Steel Slide Gates Self Contained Including Anchor..... <i>For Electric Motor Operated Valve, Add</i>	1,027.81 1,586.15	180.77
35 22 59 00-0013 Stainless Steel, Slide Gates, Frame Assembly Only (35 22 59)				
35 22 59 00-0014	EA	24" x 24" Stainless Steel Slide Gate, Frame Assembly Only	20,107.53	640.39
35 22 59 00-0015	EA	30" x 30" Stainless Steel Slide Gate, Frame Assembly Only	24,861.38	800.14
35 22 59 00-0016	EA	36" x 36" Stainless Steel Slide Gate, Frame Assembly Only	31,708.32	975.30
35 22 59 00-0017	EA	48" x 48" Stainless Steel Slide Gate, Frame Assembly Only	48,379.84	1,867.92
35 22 59 00-0018	EA	60" x 60" Stainless Steel Slide Gate, Frame Assembly Only	71,215.22	4,076.34
35 22 59 00-0019	EA	72" x 72" Stainless Steel Slide Gate, Frame Assembly Only	93,520.34	6,227.32
35 22 59 00-0020	EA	84" x 84" Stainless Steel Slide Gate, Frame Assembly Only	141,361.98	7,785.55
35 22 59 00-0021	Day	Start Up And Training, Stainless Steel Slide Gate, Frame Assembly	3,773.21	
35 22 59 00-0022 Aluminum Flap Gates (35 22 59)				
35 22 59 00-0023	EA	18" Diameter Aluminum Flap Gates..... <i>For Electric Motor Operated Valve, Add</i>	3,782.36 948.09	490.45
35 22 59 00-0024	EA	20" Diameter Aluminum Flap Gates..... <i>For Electric Motor Operated Valve, Add</i>	4,210.66 955.09	525.48
35 22 59 00-0025	EA	24" Diameter Aluminum Flap Gates..... <i>For Electric Motor Operated Valve, Add</i>	4,635.16 962.10	560.51
35 22 59 00-0026	EA	30" Diameter Aluminum Flap Gates..... <i>For Electric Motor Operated Valve, Add</i>	6,288.84 980.79	653.98
35 22 59 00-0027	EA	36" Diameter Aluminum Flap Gates..... <i>For Electric Motor Operated Valve, Add</i>	7,797.48 1,006.94	784.72
35 22 59 00-0028	EA	42" Diameter Aluminum Flap Gates..... <i>For Electric Motor Operated Valve, Add</i>	11,042.91 1,046.18	980.90
35 22 59 00-0029	EA	48" Diameter Aluminum Flap Gates..... <i>For Electric Motor Operated Valve, Add</i>	13,969.41 1,111.57	1,307.82
35 22 59 00-0030	EA	54" Diameter Aluminum Flap Gates..... <i>For Electric Motor Operated Valve, Add</i>	18,060.77 1,242.36	1,961.80
35 22 59 00-0031	EA	60" Diameter Aluminum Flap Gates..... <i>For Electric Motor Operated Valve, Add</i>	23,865.27 1,410.52	2,802.58
35 22 59 00-0032	EA	66" Diameter Aluminum Flap Gates..... <i>For Electric Motor Operated Valve, Add</i>	30,848.37 1,634.72	3,923.61
35 22 59 00-0033	EA	72" Diameter Aluminum Flap Gates..... <i>For Electric Motor Operated Valve, Add</i>	38,438.36 1,971.03	5,605.15
35 22 59 00-0034 Stainless Steel Flap Gates (35 22 59)				
35 22 59 00-0035	EA	12" x 12" Stainless Steel Flap Gate	8,115.13	420.38
35 22 59 00-0036	EA	18" x 18" Stainless Steel Flap Gate	10,400.02	490.45
35 22 59 00-0037	EA	24" x 24" Stainless Steel Flap Gate	13,409.78	560.51
35 22 59 00-0038	EA	30" x 30" Stainless Steel Flap Gate	17,463.16	654.40
35 22 59 00-0039	EA	36" x 36" Stainless Steel Flap Gate	25,932.46	784.72
35 22 59 00-0040	EA	48" x 48" Stainless Steel Flap Gate	37,974.69	1,307.40
35 22 59 00-0041	EA	60" x 60" Stainless Steel Flap Gate	58,122.28	2,802.58
35 22 59 00-0042	EA	72" x 72" Stainless Steel Flap Gate	84,152.40	5,605.15
35 22 59 00-0043	EA	84" x 84" Stainless Steel Flap Gate	120,758.39	11,210.29
35 22 59 00-0044 Cast Iron Flap Gates (35 22 59)				
35 22 59 00-0045	EA	12" x 12" Cast Iron Flap Gate	14,411.10	525.48
35 22 59 00-0046	EA	18" x 18" Cast Iron Flap Gate	20,260.98	613.77
35 22 59 00-0047	EA	24" x 24" Cast Iron Flap Gate	25,877.51	700.64
35 22 59 00-0048	EA	30" x 30" Cast Iron Flap Gate	36,308.63	816.95
35 22 59 00-0049	EA	36" x 36" Cast Iron Flap Gate	40,994.66	980.90
35 22 59 00-0050	EA	48" x 48" Cast Iron Flap Gate	50,906.46	1,635.30
35 22 59 00-0051	EA	60" x 60" Cast Iron Flap Gate	87,125.84	3,082.83
35 22 59 00-0052	EA	72" x 72" Cast Iron Flap Gate	138,652.19	6,025.53
35 22 59 00-0053	EA	84" x 84" Cast Iron Flap Gate	160,568.72	11,770.81



Waterway and Marine Construction		35	35
Waterway and Marine Construction and Equipment		35 20	
Hydraulic Gates		35 22	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0054		Steel Knife Gates Including Handwheel Operator (35 22 59) Note: ANSI 150 PSI. for hub, flange, or spigot ends.		
35 22 59 00-0055	EA	6" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	1,992.81 885.33	176.66
35 22 59 00-0056	EA	8" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	2,677.28 891.22	206.07
35 22 59 00-0057	EA	10" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	3,763.53 911.83	309.17
35 22 59 00-0058	EA	12" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	4,703.10 932.45	412.27
35 22 59 00-0059	EA	14" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	5,758.60 938.33	441.67
35 22 59 00-0060	EA	16" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	7,448.77 945.13	475.61
35 22 59 00-0061	EA	18" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	9,894.26 948.93	494.67
35 22 59 00-0062	EA	20" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	12,367.57 962.42	562.18
35 22 59 00-0063	EA	24" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	15,849.54 973.67	618.33
35 22 59 00-0064	EA	30" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	28,829.61 1,014.89	824.40
35 22 59 00-0065	EA	36" Diameter Knife Gates Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	38,364.84 1,097.33	1,236.67
35 22 59 00-0066		Steel Hollow Jet Flow Gate Valve (35 22 59)		
35 22 59 00-0067	EA	6" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	1,862.55 889.24	196.18
35 22 59 00-0068	EA	8" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	2,877.78 895.82	229.11
35 22 59 00-0069	EA	10" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	3,461.22 918.66	343.32
35 22 59 00-0070	EA	12" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	4,414.31 941.52	457.52
35 22 59 00-0071	EA	14" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	6,628.31 948.09	490.45
35 22 59 00-0072	EA	16" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	7,989.68 955.66	528.28
35 22 59 00-0073	EA	18" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	13,402.54 959.87	549.30
35 22 59 00-0074	EA	20" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	16,850.85 974.86	624.28
35 22 59 00-0075	EA	24" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	24,218.04 987.34	686.63
35 22 59 00-0076	EA	30" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	29,672.42 1,033.14	915.74
35 22 59 00-0077	EA	36" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	42,348.46 1,124.61	1,373.27
35 22 59 00-0078	EA	42" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	50,474.42 1,586.39	1,681.54
35 22 59 00-0079	EA	48" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	59,850.55 1,642.36	1,961.80
35 22 59 00-0080	EA	54" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	78,809.85 1,740.45	2,452.25
35 22 59 00-0081	EA	60" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	87,789.01 1,838.78	2,942.70
35 22 59 00-0082	EA	66" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub <i>For Electric Motor Operated Valve, Add</i>	112,055.02 2,063.35	4,063.74
35 22 59 00-0083		Steel Dish Head Valve (35 22 59)		
35 22 59 00-0084	EA	12" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	2,382.09 948.09	490.45
35 22 59 00-0085	EA	18" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	3,427.05 948.09	560.51
35 22 59 00-0086	EA	20" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	3,944.52 948.09	613.06
35 22 59 00-0087	EA	24" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	4,642.80 948.09	653.98
35 22 59 00-0088	EA	30" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	6,951.87 948.09	784.72
35 22 59 00-0089	EA	36" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	8,569.62 948.09	980.90
35 22 59 00-0090	EA	42" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	14,342.30 948.09	1,307.82
35 22 59 00-0091	EA	48" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	18,793.79 948.09	1,961.80
35 22 59 00-0092	EA	54" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	26,677.22 948.09	2,452.25
35 22 59 00-0093	EA	60" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	34,381.90 948.09	3,923.61
35 22 59 00-0094	EA	66" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	47,553.21 948.09	4,904.50
35 22 59 00-0095	EA	72" Diameter Dish Head Valve <i>For Electric Motor Operated Valve, Add</i>	57,978.77 948.09	6,539.38
35 22 63		Through-Levee Access Gates (35 22)		
35 22 63 00-0001		Cast Iron Canal Gates (35 22 63)		
35 22 63 00-0002	EA	12" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	2,968.51 948.09	490.45

35 Waterway and Marine Construction**35 20 Waterway and Marine Construction and Equipment****35 22 Hydraulic Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 63 00-0003 EA 18" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	4,392.15 962.10	560.51
35 22 63 00-0004 EA 20" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	5,034.11 972.61	613.06
35 22 63 00-0005 EA 24" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	6,038.52 980.79	653.98
35 22 63 00-0006 EA 30" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	9,204.49 1,006.94	784.72
35 22 63 00-0007 EA 36" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	11,335.09 1,046.18	980.90
35 22 63 00-0008 EA 42" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	19,250.04 1,111.57	1,307.82
35 22 63 00-0009 EA 48" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	25,017.19 1,242.36	1,961.80
35 22 63 00-0010 EA 54" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	35,789.43 1,340.45	2,452.25
35 22 63 00-0011 EA 60" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	45,487.07 1,634.72	3,923.61
35 22 63 00-0012 EA 66" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	63,349.73 1,830.90	4,904.50
35 22 63 00-0013 EA 72" Diameter Cast Iron Canal Gates With Fabricated Frame <i>For Electric Motor Operated Valve, Add</i>	74,901.75 1,971.03	5,605.15

35 24 Dredging (35 20)**35 24 23 Clamshell Dredging** (35 24)

35 24 23 00-0001	Dredging, Barge Mounted (35 24 23) See CSI section 01 74 19 00-0041 for hauling material from shore or barge, 31 23 16 33-0019 for loading.	
35 24 23 00-0002 EA	Dredge Excavation Mobilization And Demobilization..... <i>For Inlet Rivers And Canals, Deduct</i>	25,669.06 -6,417.27
35 24 23 00-0003 CY	Barge Mounted Clamshell Excavation Into Scows, Dumping Up To 10 Miles Note: Includes tugboat to move scows or barge.	28.52
35 24 23 00-0004 CY	Barge Mounted Dragline Or Clamshell, Hopper Dumped, Pumped 1,000' To Shore..... Note: Includes tugboat to move barge.	25.67
35 24 23 00-0005 CY	Hydraulic Dredge Excavation Into Scows, Dumping Up To 10 Miles..... Note: Includes tugboat to move scows or barge.	28.41
35 24 23 00-0006 CY	Hydraulic Dredge Excavation, Pumped 1,000' To Shore Note: Includes tugboat to move barge.	23.84

35 24 26 Backhoe/Dipper Dredging (35 24)

35 24 26 00-0001	Dredging, Shoreline Excavators (35 24 26)	
35 24 26 00-0002 CY	Back Hoe, 1 CY Bucket, Dredging From Shore.....	16.84
35 24 26 00-0003 CY	Hydraulic Excavator, 2 CY Bucket, Dredging From Shore.....	11.13

END OF SECTION 35



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

40

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

40 Process Interconnections

40 05 Common Work Results For Process Interconnections ⁽⁴⁰⁾

40 05 19 Ductile Iron Process Pipe ^(40 05)

40 05 19 00-0001	Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19) Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4103 for bolts, 40 05 19 00-4118 for gaskets.			
40 05 19 00-0002	Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0001)			
40 05 19 00-0003	4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0002)			
40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	993.18	238.20	
	For Class 52 Rating, Deduct	-69.55		
	For Class 54 Rating, Add	99.17		
	For Class 55 Rating, Add	149.66		
	For Class 56 Rating, Add	199.51		
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,067.14	242.36	
	For Class 52 Rating, Deduct	-76.99		
	For Class 54 Rating, Add	109.39		
	For Class 55 Rating, Add	164.90		
	For Class 56 Rating, Add	219.70		
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,141.09	246.52	
	For Class 52 Rating, Deduct	-84.43		
	For Class 54 Rating, Add	119.62		
	For Class 55 Rating, Add	180.13		
	For Class 56 Rating, Add	239.88		
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,215.05	250.69	
	For Class 52 Rating, Deduct	-91.87		
	For Class 54 Rating, Add	129.84		
	For Class 55 Rating, Add	195.37		
	For Class 56 Rating, Add	260.06		
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,289.01	254.85	
	For Class 52 Rating, Deduct	-99.32		
	For Class 54 Rating, Add	140.06		
	For Class 55 Rating, Add	210.61		
	For Class 56 Rating, Add	280.25		
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,362.98	259.02	
	For Class 52 Rating, Deduct	-106.76		
	For Class 54 Rating, Add	150.29		
	For Class 55 Rating, Add	225.85		
	For Class 56 Rating, Add	300.43		
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,436.94	263.19	
	For Class 52 Rating, Deduct	-114.20		
	For Class 54 Rating, Add	160.51		
	For Class 55 Rating, Add	241.08		
	For Class 56 Rating, Add	320.62		
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,510.89	267.34	
	For Class 52 Rating, Deduct	-121.64		
	For Class 54 Rating, Add	170.73		
	For Class 55 Rating, Add	256.32		
	For Class 56 Rating, Add	340.80		
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,584.85	271.51	
	For Class 52 Rating, Deduct	-129.08		
	For Class 54 Rating, Add	180.96		
	For Class 55 Rating, Add	271.56		
	For Class 56 Rating, Add	360.98		
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,658.81	275.68	
	For Class 52 Rating, Deduct	-136.52		
	For Class 54 Rating, Add	191.18		
	For Class 55 Rating, Add	286.79		
	For Class 56 Rating, Add	381.17		
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,732.77	279.84	
	For Class 52 Rating, Deduct	-143.96		
	For Class 54 Rating, Add	201.40		
	For Class 55 Rating, Add	302.03		
	For Class 56 Rating, Add	401.35		
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,806.73	284.01	
	For Class 52 Rating, Deduct	-151.41		
	For Class 54 Rating, Add	211.63		
	For Class 55 Rating, Add	317.27		
	For Class 56 Rating, Add	421.54		
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,880.69	288.17	
	For Class 52 Rating, Deduct	-158.85		
	For Class 54 Rating, Add	221.85		
	For Class 55 Rating, Add	332.51		
	For Class 56 Rating, Add	441.72		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0017	EA		4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,954.65	292.33
			For Class 52 Rating, Deduct	-166.29	
			For Class 54 Rating, Add	232.07	
			For Class 55 Rating, Add	347.74	
			For Class 56 Rating, Add	461.90	
40 05 19 00-0018	EA		4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,028.61	296.50
			For Class 52 Rating, Deduct	-173.73	
			For Class 54 Rating, Add	242.30	
			For Class 55 Rating, Add	362.98	
			For Class 56 Rating, Add	482.09	
40 05 19 00-0019	EA		4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,102.57	300.66
			For Class 52 Rating, Deduct	-181.17	
			For Class 54 Rating, Add	252.52	
			For Class 55 Rating, Add	378.22	
			For Class 56 Rating, Add	502.27	
40 05 19 00-0020	EA		4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,176.52	304.82
			For Class 52 Rating, Deduct	-188.61	
			For Class 54 Rating, Add	262.74	
			For Class 55 Rating, Add	393.46	
			For Class 56 Rating, Add	522.45	
40 05 19 00-0021	EA		4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,250.48	308.99
			For Class 52 Rating, Deduct	-196.06	
			For Class 54 Rating, Add	272.97	
			For Class 55 Rating, Add	408.69	
			For Class 56 Rating, Add	542.64	
40 05 19 00-0022	EA		4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,324.45	313.15
			For Class 52 Rating, Deduct	-203.50	
			For Class 54 Rating, Add	283.19	
			For Class 55 Rating, Add	423.93	
			For Class 56 Rating, Add	562.82	
40 05 19 00-0023	EA		4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,398.41	317.32
			For Class 52 Rating, Deduct	-210.94	
			For Class 54 Rating, Add	293.41	
			For Class 55 Rating, Add	439.17	
			For Class 56 Rating, Add	583.01	
40 05 19 00-0024	EA		4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,472.36	321.49
			For Class 52 Rating, Deduct	-218.38	
			For Class 54 Rating, Add	303.63	
			For Class 55 Rating, Add	454.40	
			For Class 56 Rating, Add	603.19	
40 05 19 00-0025	EA		4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,546.31	325.64
			For Class 52 Rating, Deduct	-225.82	
			For Class 54 Rating, Add	313.86	
			For Class 55 Rating, Add	469.64	
			For Class 56 Rating, Add	623.37	
40 05 19 00-0026	EA		4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,620.27	329.81
			For Class 52 Rating, Deduct	-233.26	
			For Class 54 Rating, Add	324.08	
			For Class 55 Rating, Add	484.88	
			For Class 56 Rating, Add	643.55	
40 05 19 00-0027	EA		4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,694.23	333.98
			For Class 52 Rating, Deduct	-240.70	
			For Class 54 Rating, Add	334.30	
			For Class 55 Rating, Add	500.12	
			For Class 56 Rating, Add	663.74	
40 05 19 00-0028	EA		4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,768.20	338.14
			For Class 52 Rating, Deduct	-248.14	
			For Class 54 Rating, Add	344.53	
			For Class 55 Rating, Add	515.35	
			For Class 56 Rating, Add	683.92	
40 05 19 00-0029	EA		4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,842.16	342.31
			For Class 52 Rating, Deduct	-255.59	
			For Class 54 Rating, Add	354.75	
			For Class 55 Rating, Add	530.59	
			For Class 56 Rating, Add	704.11	
40 05 19 00-0030	EA		4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,916.11	346.47
			For Class 52 Rating, Deduct	-263.03	
			For Class 54 Rating, Add	364.97	
			For Class 55 Rating, Add	545.83	
			For Class 56 Rating, Add	724.29	
40 05 19 00-0031	EA		4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,990.07	350.63
			For Class 52 Rating, Deduct	-270.47	
			For Class 54 Rating, Add	375.20	
			For Class 55 Rating, Add	561.06	
			For Class 56 Rating, Add	744.47	
40 05 19 00-0032	EA		4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,064.03	354.80
			For Class 52 Rating, Deduct	-277.91	
			For Class 54 Rating, Add	385.42	
			For Class 55 Rating, Add	576.30	
			For Class 56 Rating, Add	764.66	
40 05 19 00-0033	EA		4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,137.99	358.96
			For Class 52 Rating, Deduct	-285.35	
			For Class 54 Rating, Add	395.64	
			For Class 55 Rating, Add	591.54	
			For Class 56 Rating, Add	784.84	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0034	EA	4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,211.96	363.12
		For Class 52 Rating, Deduct	-292.79	
		For Class 54 Rating, Add	405.87	
		For Class 55 Rating, Add	606.78	
		For Class 56 Rating, Add	805.03	
40 05 19 00-0035	EA	4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,285.91	367.29
		For Class 52 Rating, Deduct	-300.24	
		For Class 54 Rating, Add	416.09	
		For Class 55 Rating, Add	622.01	
		For Class 56 Rating, Add	825.21	
40 05 19 00-0036	EA	4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,359.87	371.45
		For Class 52 Rating, Deduct	-307.68	
		For Class 54 Rating, Add	426.31	
		For Class 55 Rating, Add	637.25	
		For Class 56 Rating, Add	845.39	
40 05 19 00-0037	EA	4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,433.83	375.62
		For Class 52 Rating, Deduct	-315.12	
		For Class 54 Rating, Add	436.54	
		For Class 55 Rating, Add	652.49	
		For Class 56 Rating, Add	865.58	
40 05 19 00-0038	EA	4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,507.79	379.79
		For Class 52 Rating, Deduct	-322.56	
		For Class 54 Rating, Add	446.76	
		For Class 55 Rating, Add	667.73	
		For Class 56 Rating, Add	885.76	
40 05 19 00-0039	EA	4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,581.75	383.94
		For Class 52 Rating, Deduct	-330.00	
		For Class 54 Rating, Add	456.98	
		For Class 55 Rating, Add	682.96	
		For Class 56 Rating, Add	905.95	
40 05 19 00-0040	EA	4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,655.70	388.11
		For Class 52 Rating, Deduct	-337.44	
		For Class 54 Rating, Add	467.21	
		For Class 55 Rating, Add	698.20	
		For Class 56 Rating, Add	926.13	
40 05 19 00-0041	EA	4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,729.67	392.28
		For Class 52 Rating, Deduct	-344.88	
		For Class 54 Rating, Add	477.43	
		For Class 55 Rating, Add	713.44	
		For Class 56 Rating, Add	946.31	
40 05 19 00-0042	EA	4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,803.63	396.44
		For Class 52 Rating, Deduct	-352.33	
		For Class 54 Rating, Add	487.65	
		For Class 55 Rating, Add	728.68	
		For Class 56 Rating, Add	966.50	
40 05 19 00-0043		6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0044	EA	6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,258.27	299.83
		For Class 52 Rating, Deduct	-88.44	
		For Class 54 Rating, Add	126.05	
		For Class 55 Rating, Add	190.19	
		For Class 56 Rating, Add	253.53	
40 05 19 00-0045	EA	6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,347.84	303.99
		For Class 52 Rating, Deduct	-97.60	
		For Class 54 Rating, Add	138.61	
		For Class 55 Rating, Add	208.91	
		For Class 56 Rating, Add	278.32	
40 05 19 00-0046	EA	6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,437.43	308.16
		For Class 52 Rating, Deduct	-106.76	
		For Class 54 Rating, Add	151.18	
		For Class 55 Rating, Add	227.63	
		For Class 56 Rating, Add	303.11	
40 05 19 00-0047	EA	6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,527.00	312.32
		For Class 52 Rating, Deduct	-115.92	
		For Class 54 Rating, Add	163.75	
		For Class 55 Rating, Add	246.35	
		For Class 56 Rating, Add	327.90	
40 05 19 00-0048	EA	6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,616.56	316.49
		For Class 52 Rating, Deduct	-125.07	
		For Class 54 Rating, Add	176.31	
		For Class 55 Rating, Add	265.07	
		For Class 56 Rating, Add	352.69	
40 05 19 00-0049	EA	6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,706.13	320.65
		For Class 52 Rating, Deduct	-134.23	
		For Class 54 Rating, Add	188.87	
		For Class 55 Rating, Add	283.79	
		For Class 56 Rating, Add	377.48	
40 05 19 00-0050	EA	6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,795.70	324.81
		For Class 52 Rating, Deduct	-143.39	
		For Class 54 Rating, Add	201.44	
		For Class 55 Rating, Add	302.51	
		For Class 56 Rating, Add	402.27	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0051	EA		6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,885.27	328.98
			For Class 52 Rating, Deduct	-152.55	
			For Class 54 Rating, Add	214.00	
			For Class 55 Rating, Add	321.22	
			For Class 56 Rating, Add	427.06	
40 05 19 00-0052	EA		6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,974.85	333.15
			For Class 52 Rating, Deduct	-161.71	
			For Class 54 Rating, Add	226.57	
			For Class 55 Rating, Add	339.94	
			For Class 56 Rating, Add	451.85	
40 05 19 00-0053	EA		6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,064.42	337.31
			For Class 52 Rating, Deduct	-170.87	
			For Class 54 Rating, Add	239.14	
			For Class 55 Rating, Add	358.66	
			For Class 56 Rating, Add	476.64	
40 05 19 00-0054	EA		6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,153.99	341.47
			For Class 52 Rating, Deduct	-180.03	
			For Class 54 Rating, Add	251.70	
			For Class 55 Rating, Add	377.38	
			For Class 56 Rating, Add	501.43	
40 05 19 00-0055	EA		6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,243.56	345.63
			For Class 52 Rating, Deduct	-189.19	
			For Class 54 Rating, Add	264.26	
			For Class 55 Rating, Add	396.10	
			For Class 56 Rating, Add	526.21	
40 05 19 00-0056	EA		6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,333.13	349.80
			For Class 52 Rating, Deduct	-198.34	
			For Class 54 Rating, Add	276.83	
			For Class 55 Rating, Add	414.82	
			For Class 56 Rating, Add	551.00	
40 05 19 00-0057	EA		6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,422.70	353.97
			For Class 52 Rating, Deduct	-207.50	
			For Class 54 Rating, Add	289.39	
			For Class 55 Rating, Add	433.54	
			For Class 56 Rating, Add	575.79	
40 05 19 00-0058	EA		6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,512.27	358.13
			For Class 52 Rating, Deduct	-216.66	
			For Class 54 Rating, Add	301.96	
			For Class 55 Rating, Add	452.25	
			For Class 56 Rating, Add	600.58	
40 05 19 00-0059	EA		6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,601.84	362.29
			For Class 52 Rating, Deduct	-225.82	
			For Class 54 Rating, Add	314.52	
			For Class 55 Rating, Add	470.97	
			For Class 56 Rating, Add	625.37	
40 05 19 00-0060	EA		6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,691.42	366.46
			For Class 52 Rating, Deduct	-234.98	
			For Class 54 Rating, Add	327.09	
			For Class 55 Rating, Add	489.69	
			For Class 56 Rating, Add	650.16	
40 05 19 00-0061	EA		6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,780.99	370.62
			For Class 52 Rating, Deduct	-244.14	
			For Class 54 Rating, Add	339.65	
			For Class 55 Rating, Add	508.41	
			For Class 56 Rating, Add	674.95	
40 05 19 00-0062	EA		6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,870.56	374.79
			For Class 52 Rating, Deduct	-253.30	
			For Class 54 Rating, Add	352.22	
			For Class 55 Rating, Add	527.13	
			For Class 56 Rating, Add	699.74	
40 05 19 00-0063	EA		6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,960.12	378.95
			For Class 52 Rating, Deduct	-262.46	
			For Class 54 Rating, Add	364.78	
			For Class 55 Rating, Add	545.85	
			For Class 56 Rating, Add	724.53	
40 05 19 00-0064	EA		6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,049.69	383.11
			For Class 52 Rating, Deduct	-271.61	
			For Class 54 Rating, Add	377.35	
			For Class 55 Rating, Add	564.57	
			For Class 56 Rating, Add	749.32	
40 05 19 00-0065	EA		6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,139.27	387.28
			For Class 52 Rating, Deduct	-280.77	
			For Class 54 Rating, Add	389.91	
			For Class 55 Rating, Add	583.29	
			For Class 56 Rating, Add	774.11	
40 05 19 00-0066	EA		6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,228.84	391.45
			For Class 52 Rating, Deduct	-289.93	
			For Class 54 Rating, Add	402.48	
			For Class 55 Rating, Add	602.00	
			For Class 56 Rating, Add	798.89	
40 05 19 00-0067	EA		6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,318.42	395.61
			For Class 52 Rating, Deduct	-299.09	
			For Class 54 Rating, Add	415.04	
			For Class 55 Rating, Add	620.73	
			For Class 56 Rating, Add	823.69	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0068	EA	6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,407.98	399.77
		For Class 52 Rating, Deduct	-308.25	
		For Class 54 Rating, Add	427.61	
		For Class 55 Rating, Add	639.44	
		For Class 56 Rating, Add	848.48	
40 05 19 00-0069	EA	6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,497.55	403.93
		For Class 52 Rating, Deduct	-317.41	
		For Class 54 Rating, Add	440.17	
		For Class 55 Rating, Add	658.16	
		For Class 56 Rating, Add	873.26	
40 05 19 00-0070	EA	6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,587.12	408.10
		For Class 52 Rating, Deduct	-326.57	
		For Class 54 Rating, Add	452.74	
		For Class 55 Rating, Add	676.88	
		For Class 56 Rating, Add	898.05	
40 05 19 00-0071	EA	6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,676.70	412.27
		For Class 52 Rating, Deduct	-335.73	
		For Class 54 Rating, Add	465.30	
		For Class 55 Rating, Add	695.60	
		For Class 56 Rating, Add	922.84	
40 05 19 00-0072	EA	6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,766.27	416.43
		For Class 52 Rating, Deduct	-344.88	
		For Class 54 Rating, Add	477.87	
		For Class 55 Rating, Add	714.32	
		For Class 56 Rating, Add	947.63	
40 05 19 00-0073	EA	6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,855.84	420.59
		For Class 52 Rating, Deduct	-354.04	
		For Class 54 Rating, Add	490.43	
		For Class 55 Rating, Add	733.04	
		For Class 56 Rating, Add	972.42	
40 05 19 00-0074	EA	6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,945.41	424.76
		For Class 52 Rating, Deduct	-363.20	
		For Class 54 Rating, Add	503.00	
		For Class 55 Rating, Add	751.76	
		For Class 56 Rating, Add	997.21	
40 05 19 00-0075	EA	6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,034.98	428.92
		For Class 52 Rating, Deduct	-372.36	
		For Class 54 Rating, Add	515.56	
		For Class 55 Rating, Add	770.47	
		For Class 56 Rating, Add	1,022.00	
40 05 19 00-0076	EA	6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,124.55	433.09
		For Class 52 Rating, Deduct	-381.52	
		For Class 54 Rating, Add	528.13	
		For Class 55 Rating, Add	789.19	
		For Class 56 Rating, Add	1,046.79	
40 05 19 00-0077	EA	6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,214.13	437.25
		For Class 52 Rating, Deduct	-390.68	
		For Class 54 Rating, Add	540.69	
		For Class 55 Rating, Add	807.91	
		For Class 56 Rating, Add	1,071.58	
40 05 19 00-0078	EA	6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,303.69	441.41
		For Class 52 Rating, Deduct	-399.84	
		For Class 54 Rating, Add	553.26	
		For Class 55 Rating, Add	826.63	
		For Class 56 Rating, Add	1,096.37	
40 05 19 00-0079	EA	6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,393.26	445.58
		For Class 52 Rating, Deduct	-409.00	
		For Class 54 Rating, Add	565.82	
		For Class 55 Rating, Add	845.35	
		For Class 56 Rating, Add	1,121.16	
40 05 19 00-0080	EA	6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,482.84	449.75
		For Class 52 Rating, Deduct	-418.16	
		For Class 54 Rating, Add	578.39	
		For Class 55 Rating, Add	864.07	
		For Class 56 Rating, Add	1,145.95	
40 05 19 00-0081	EA	6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,572.41	453.91
		For Class 52 Rating, Deduct	-427.31	
		For Class 54 Rating, Add	590.95	
		For Class 55 Rating, Add	882.79	
		For Class 56 Rating, Add	1,170.74	
40 05 19 00-0082	EA	6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,661.98	458.07
		For Class 52 Rating, Deduct	-436.47	
		For Class 54 Rating, Add	603.52	
		For Class 55 Rating, Add	901.51	
		For Class 56 Rating, Add	1,195.53	
40 05 19 00-0083		8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0084	EA	8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,764.34	383.11
		For Class 52 Rating, Deduct	-130.23	
		For Class 54 Rating, Add	184.55	
		For Class 55 Rating, Add	277.93	
		For Class 56 Rating, Add	370.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0085	EA		8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,885.15	387.28
			For Class 52 Rating, Deduct	-142.82	
			For Class 54 Rating, Add	201.80	
			For Class 55 Rating, Add	303.62	
			For Class 56 Rating, Add	404.14	
40 05 19 00-0086	EA		8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,005.94	391.45
			For Class 52 Rating, Deduct	-155.41	
			For Class 54 Rating, Add	219.04	
			For Class 55 Rating, Add	329.30	
			For Class 56 Rating, Add	438.14	
40 05 19 00-0087	EA		8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,126.74	395.61
			For Class 52 Rating, Deduct	-168.01	
			For Class 54 Rating, Add	236.29	
			For Class 55 Rating, Add	354.98	
			For Class 56 Rating, Add	472.14	
40 05 19 00-0088	EA		8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,247.52	399.77
			For Class 52 Rating, Deduct	-180.60	
			For Class 54 Rating, Add	253.54	
			For Class 55 Rating, Add	380.66	
			For Class 56 Rating, Add	506.14	
40 05 19 00-0089	EA		8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,368.32	403.93
			For Class 52 Rating, Deduct	-193.19	
			For Class 54 Rating, Add	270.79	
			For Class 55 Rating, Add	406.34	
			For Class 56 Rating, Add	540.14	
40 05 19 00-0090	EA		8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,489.11	408.10
			For Class 52 Rating, Deduct	-205.79	
			For Class 54 Rating, Add	288.04	
			For Class 55 Rating, Add	432.02	
			For Class 56 Rating, Add	574.14	
40 05 19 00-0091	EA		8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,609.91	412.27
			For Class 52 Rating, Deduct	-218.38	
			For Class 54 Rating, Add	305.28	
			For Class 55 Rating, Add	457.70	
			For Class 56 Rating, Add	608.14	
40 05 19 00-0092	EA		8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,730.71	416.43
			For Class 52 Rating, Deduct	-230.97	
			For Class 54 Rating, Add	322.53	
			For Class 55 Rating, Add	483.39	
			For Class 56 Rating, Add	642.14	
40 05 19 00-0093	EA		8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,851.49	420.59
			For Class 52 Rating, Deduct	-243.57	
			For Class 54 Rating, Add	339.78	
			For Class 55 Rating, Add	509.07	
			For Class 56 Rating, Add	676.14	
40 05 19 00-0094	EA		8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,972.29	424.76
			For Class 52 Rating, Deduct	-256.16	
			For Class 54 Rating, Add	357.03	
			For Class 55 Rating, Add	534.75	
			For Class 56 Rating, Add	710.14	
40 05 19 00-0095	EA		8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,093.08	428.92
			For Class 52 Rating, Deduct	-268.75	
			For Class 54 Rating, Add	374.28	
			For Class 55 Rating, Add	560.43	
			For Class 56 Rating, Add	744.14	
40 05 19 00-0096	EA		8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,213.88	433.09
			For Class 52 Rating, Deduct	-281.35	
			For Class 54 Rating, Add	391.53	
			For Class 55 Rating, Add	586.11	
			For Class 56 Rating, Add	778.14	
40 05 19 00-0097	EA		8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,334.68	437.25
			For Class 52 Rating, Deduct	-293.94	
			For Class 54 Rating, Add	408.78	
			For Class 55 Rating, Add	611.79	
			For Class 56 Rating, Add	812.14	
40 05 19 00-0098	EA		8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,455.47	441.41
			For Class 52 Rating, Deduct	-306.53	
			For Class 54 Rating, Add	426.02	
			For Class 55 Rating, Add	637.48	
			For Class 56 Rating, Add	846.14	
40 05 19 00-0099	EA		8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,576.26	445.58
			For Class 52 Rating, Deduct	-319.13	
			For Class 54 Rating, Add	443.27	
			For Class 55 Rating, Add	663.16	
			For Class 56 Rating, Add	880.14	
40 05 19 00-0100	EA		8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,697.06	449.75
			For Class 52 Rating, Deduct	-331.72	
			For Class 54 Rating, Add	460.52	
			For Class 55 Rating, Add	688.84	
			For Class 56 Rating, Add	914.14	
40 05 19 00-0101	EA		8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,817.85	453.91
			For Class 52 Rating, Deduct	-344.31	
			For Class 54 Rating, Add	477.77	
			For Class 55 Rating, Add	714.52	
			For Class 56 Rating, Add	948.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0102	EA	8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,938.64	458.07	
		For Class 52 Rating, Deduct	-356.90		
		For Class 54 Rating, Add	495.02		
		For Class 55 Rating, Add	740.20		
		For Class 56 Rating, Add	982.14		
40 05 19 00-0103	EA	8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,059.43	462.23	
		For Class 52 Rating, Deduct	-369.50		
		For Class 54 Rating, Add	512.27		
		For Class 55 Rating, Add	765.88		
		For Class 56 Rating, Add	1,016.14		
40 05 19 00-0104	EA	8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,180.23	466.40	
		For Class 52 Rating, Deduct	-382.09		
		For Class 54 Rating, Add	529.51		
		For Class 55 Rating, Add	791.56		
		For Class 56 Rating, Add	1,050.14		
40 05 19 00-0105	EA	8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,301.03	470.57	
		For Class 52 Rating, Deduct	-394.69		
		For Class 54 Rating, Add	546.76		
		For Class 55 Rating, Add	817.25		
		For Class 56 Rating, Add	1,084.14		
40 05 19 00-0106	EA	8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,421.82	474.73	
		For Class 52 Rating, Deduct	-407.28		
		For Class 54 Rating, Add	564.01		
		For Class 55 Rating, Add	842.93		
		For Class 56 Rating, Add	1,118.14		
40 05 19 00-0107	EA	8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,542.62	478.89	
		For Class 52 Rating, Deduct	-419.87		
		For Class 54 Rating, Add	581.26		
		For Class 55 Rating, Add	868.61		
		For Class 56 Rating, Add	1,152.14		
40 05 19 00-0108	EA	8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,663.40	483.06	
		For Class 52 Rating, Deduct	-432.47		
		For Class 54 Rating, Add	598.51		
		For Class 55 Rating, Add	894.29		
		For Class 56 Rating, Add	1,186.14		
40 05 19 00-0109	EA	8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,784.20	487.22	
		For Class 52 Rating, Deduct	-445.06		
		For Class 54 Rating, Add	615.76		
		For Class 55 Rating, Add	919.97		
		For Class 56 Rating, Add	1,220.14		
40 05 19 00-0110	EA	8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,905.00	491.39	
		For Class 52 Rating, Deduct	-457.65		
		For Class 54 Rating, Add	633.00		
		For Class 55 Rating, Add	945.65		
		For Class 56 Rating, Add	1,254.14		
40 05 19 00-0111	EA	8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,025.79	495.55	
		For Class 52 Rating, Deduct	-470.24		
		For Class 54 Rating, Add	650.25		
		For Class 55 Rating, Add	971.33		
		For Class 56 Rating, Add	1,288.14		
40 05 19 00-0112	EA	8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,146.59	499.71	
		For Class 52 Rating, Deduct	-482.84		
		For Class 54 Rating, Add	667.50		
		For Class 55 Rating, Add	997.02		
		For Class 56 Rating, Add	1,322.14		
40 05 19 00-0113	EA	8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,267.37	503.88	
		For Class 52 Rating, Deduct	-495.43		
		For Class 54 Rating, Add	684.75		
		For Class 55 Rating, Add	1,022.70		
		For Class 56 Rating, Add	1,356.14		
40 05 19 00-0114	EA	8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,388.17	508.05	
		For Class 52 Rating, Deduct	-508.03		
		For Class 54 Rating, Add	702.00		
		For Class 55 Rating, Add	1,048.38		
		For Class 56 Rating, Add	1,390.14		
40 05 19 00-0115	EA	8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,508.96	512.21	
		For Class 52 Rating, Deduct	-520.62		
		For Class 54 Rating, Add	719.25		
		For Class 55 Rating, Add	1,074.06		
		For Class 56 Rating, Add	1,424.14		
40 05 19 00-0116	EA	8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,629.77	516.37	
		For Class 52 Rating, Deduct	-533.21		
		For Class 54 Rating, Add	736.50		
		For Class 55 Rating, Add	1,099.74		
		For Class 56 Rating, Add	1,458.14		
40 05 19 00-0117	EA	8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,750.55	520.53	
		For Class 52 Rating, Deduct	-545.80		
		For Class 54 Rating, Add	753.74		
		For Class 55 Rating, Add	1,125.42		
		For Class 56 Rating, Add	1,492.14		
40 05 19 00-0118	EA	8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,871.35	524.70	
		For Class 52 Rating, Deduct	-558.40		
		For Class 54 Rating, Add	770.99		
		For Class 55 Rating, Add	1,151.11		
		For Class 56 Rating, Add	1,526.14		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0119	EA	8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,992.14	528.87	
		For Class 52 Rating, Deduct	-570.99		
		For Class 54 Rating, Add	788.24		
		For Class 55 Rating, Add	1,176.79		
		For Class 56 Rating, Add	1,560.14		
40 05 19 00-0120	EA	8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,112.93	533.03	
		For Class 52 Rating, Deduct	-583.58		
		For Class 54 Rating, Add	805.49		
		For Class 55 Rating, Add	1,202.47		
		For Class 56 Rating, Add	1,594.14		
40 05 19 00-0121	EA	8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,233.73	537.19	
		For Class 52 Rating, Deduct	-596.18		
		For Class 54 Rating, Add	822.74		
		For Class 55 Rating, Add	1,228.15		
		For Class 56 Rating, Add	1,628.14		
40 05 19 00-0122	EA	8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,354.51	541.36	
		For Class 52 Rating, Deduct	-608.77		
		For Class 54 Rating, Add	839.98		
		For Class 55 Rating, Add	1,253.83		
		For Class 56 Rating, Add	1,662.14		
40 05 19 00-0123 10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe					
		(40 05 19 00-0002)			
40 05 19 00-0124	EA	10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,226.19	466.40	
		For Class 52 Rating, Deduct	-167.15		
		For Class 54 Rating, Add	236.41		
		For Class 55 Rating, Add	355.81		
		For Class 56 Rating, Add	473.70		
40 05 19 00-0125	EA	10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,383.41	470.57	
		For Class 52 Rating, Deduct	-183.75		
		For Class 54 Rating, Add	259.12		
		For Class 55 Rating, Add	389.62		
		For Class 56 Rating, Add	518.44		
40 05 19 00-0126	EA	10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,540.63	474.73	
		For Class 52 Rating, Deduct	-200.35		
		For Class 54 Rating, Add	281.83		
		For Class 55 Rating, Add	423.42		
		For Class 56 Rating, Add	563.19		
40 05 19 00-0127	EA	10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,697.86	478.89	
		For Class 52 Rating, Deduct	-216.95		
		For Class 54 Rating, Add	304.55		
		For Class 55 Rating, Add	457.23		
		For Class 56 Rating, Add	607.94		
40 05 19 00-0128	EA	10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,855.07	483.06	
		For Class 52 Rating, Deduct	-233.55		
		For Class 54 Rating, Add	327.26		
		For Class 55 Rating, Add	491.03		
		For Class 56 Rating, Add	652.68		
40 05 19 00-0129	EA	10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,012.29	487.22	
		For Class 52 Rating, Deduct	-250.15		
		For Class 54 Rating, Add	349.97		
		For Class 55 Rating, Add	524.84		
		For Class 56 Rating, Add	697.43		
40 05 19 00-0130	EA	10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,169.52	491.39	
		For Class 52 Rating, Deduct	-266.75		
		For Class 54 Rating, Add	372.68		
		For Class 55 Rating, Add	558.64		
		For Class 56 Rating, Add	742.18		
40 05 19 00-0131	EA	10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,326.74	495.55	
		For Class 52 Rating, Deduct	-283.35		
		For Class 54 Rating, Add	395.40		
		For Class 55 Rating, Add	592.45		
		For Class 56 Rating, Add	786.92		
40 05 19 00-0132	EA	10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,483.96	499.71	
		For Class 52 Rating, Deduct	-299.95		
		For Class 54 Rating, Add	418.11		
		For Class 55 Rating, Add	626.25		
		For Class 56 Rating, Add	831.67		
40 05 19 00-0133	EA	10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,641.17	503.88	
		For Class 52 Rating, Deduct	-316.55		
		For Class 54 Rating, Add	440.82		
		For Class 55 Rating, Add	660.05		
		For Class 56 Rating, Add	876.41		
40 05 19 00-0134	EA	10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,798.39	508.05	
		For Class 52 Rating, Deduct	-333.15		
		For Class 54 Rating, Add	463.53		
		For Class 55 Rating, Add	693.86		
		For Class 56 Rating, Add	921.16		
40 05 19 00-0135	EA	10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,955.62	512.21	
		For Class 52 Rating, Deduct	-349.75		
		For Class 54 Rating, Add	486.25		
		For Class 55 Rating, Add	727.67		
		For Class 56 Rating, Add	965.91		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0136	EA	10"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,112.85	516.37
			For Class 52 Rating, Deduct	-366.35	
			For Class 54 Rating, Add	508.96	
			For Class 55 Rating, Add	761.47	
			For Class 56 Rating, Add	1,010.65	
40 05 19 00-0137	EA	10"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,270.06	520.53
			For Class 52 Rating, Deduct	-382.95	
			For Class 54 Rating, Add	531.67	
			For Class 55 Rating, Add	795.27	
			For Class 56 Rating, Add	1,055.40	
40 05 19 00-0138	EA	10"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,427.28	524.70
			For Class 52 Rating, Deduct	-399.55	
			For Class 54 Rating, Add	554.38	
			For Class 55 Rating, Add	829.08	
			For Class 56 Rating, Add	1,100.14	
40 05 19 00-0139	EA	10"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,584.50	528.87
			For Class 52 Rating, Deduct	-416.15	
			For Class 54 Rating, Add	577.09	
			For Class 55 Rating, Add	862.88	
			For Class 56 Rating, Add	1,144.89	
40 05 19 00-0140	EA	10"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,741.72	533.03
			For Class 52 Rating, Deduct	-432.75	
			For Class 54 Rating, Add	599.81	
			For Class 55 Rating, Add	896.69	
			For Class 56 Rating, Add	1,189.63	
40 05 19 00-0141	EA	10"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,898.94	537.19
			For Class 52 Rating, Deduct	-449.35	
			For Class 54 Rating, Add	622.52	
			For Class 55 Rating, Add	930.49	
			For Class 56 Rating, Add	1,234.38	
40 05 19 00-0142	EA	10"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,056.16	541.36
			For Class 52 Rating, Deduct	-465.95	
			For Class 54 Rating, Add	645.23	
			For Class 55 Rating, Add	964.30	
			For Class 56 Rating, Add	1,279.13	
40 05 19 00-0143	EA	10"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,213.39	545.52
			For Class 52 Rating, Deduct	-482.55	
			For Class 54 Rating, Add	667.94	
			For Class 55 Rating, Add	998.10	
			For Class 56 Rating, Add	1,323.87	
40 05 19 00-0144	EA	10"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,370.61	549.69
			For Class 52 Rating, Deduct	-499.15	
			For Class 54 Rating, Add	690.66	
			For Class 55 Rating, Add	1,031.91	
			For Class 56 Rating, Add	1,368.62	
40 05 19 00-0145	EA	10"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,527.83	553.85
			For Class 52 Rating, Deduct	-515.75	
			For Class 54 Rating, Add	713.37	
			For Class 55 Rating, Add	1,065.71	
			For Class 56 Rating, Add	1,413.36	
40 05 19 00-0146	EA	10"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,685.05	558.01
			For Class 52 Rating, Deduct	-532.35	
			For Class 54 Rating, Add	736.08	
			For Class 55 Rating, Add	1,099.52	
			For Class 56 Rating, Add	1,458.11	
40 05 19 00-0147	EA	10"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,842.26	562.18
			For Class 52 Rating, Deduct	-548.95	
			For Class 54 Rating, Add	758.79	
			For Class 55 Rating, Add	1,133.32	
			For Class 56 Rating, Add	1,502.86	
40 05 19 00-0148	EA	10"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,999.48	566.35
			For Class 52 Rating, Deduct	-565.55	
			For Class 54 Rating, Add	781.51	
			For Class 55 Rating, Add	1,167.12	
			For Class 56 Rating, Add	1,547.60	
40 05 19 00-0149	EA	10"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,156.72	570.51
			For Class 52 Rating, Deduct	-582.15	
			For Class 54 Rating, Add	804.22	
			For Class 55 Rating, Add	1,200.93	
			For Class 56 Rating, Add	1,592.35	
40 05 19 00-0150	EA	10"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,313.94	574.67
			For Class 52 Rating, Deduct	-598.75	
			For Class 54 Rating, Add	826.93	
			For Class 55 Rating, Add	1,234.74	
			For Class 56 Rating, Add	1,637.10	
40 05 19 00-0151	EA	10"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,471.16	578.83
			For Class 52 Rating, Deduct	-615.35	
			For Class 54 Rating, Add	849.64	
			For Class 55 Rating, Add	1,268.54	
			For Class 56 Rating, Add	1,681.84	
40 05 19 00-0152	EA	10"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,628.37	583.00
			For Class 52 Rating, Deduct	-631.95	
			For Class 54 Rating, Add	872.36	
			For Class 55 Rating, Add	1,302.34	
			For Class 56 Rating, Add	1,726.59	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0153	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,785.59	587.17
		For Class 52 Rating, Deduct		-648.55	
		For Class 54 Rating, Add		895.07	
		For Class 55 Rating, Add		1,336.15	
		For Class 56 Rating, Add		1,771.33	
40 05 19 00-0154	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,942.81	591.33
		For Class 52 Rating, Deduct		-665.15	
		For Class 54 Rating, Add		917.78	
		For Class 55 Rating, Add		1,369.95	
		For Class 56 Rating, Add		1,816.08	
40 05 19 00-0155	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,097.44	595.49
		For Class 52 Rating, Deduct		-681.47	
		For Class 54 Rating, Add		940.10	
		For Class 55 Rating, Add		1,403.18	
		For Class 56 Rating, Add		1,860.06	
40 05 19 00-0156	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,257.26	599.66
		For Class 52 Rating, Deduct		-698.35	
		For Class 54 Rating, Add		963.20	
		For Class 55 Rating, Add		1,437.56	
		For Class 56 Rating, Add		1,905.57	
40 05 19 00-0157	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,414.48	603.82
		For Class 52 Rating, Deduct		-714.96	
		For Class 54 Rating, Add		985.92	
		For Class 55 Rating, Add		1,471.37	
		For Class 56 Rating, Add		1,950.32	
40 05 19 00-0158	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,571.70	607.99
		For Class 52 Rating, Deduct		-731.56	
		For Class 54 Rating, Add		1,008.63	
		For Class 55 Rating, Add		1,505.17	
		For Class 56 Rating, Add		1,995.06	
40 05 19 00-0159	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,728.92	612.15
		For Class 52 Rating, Deduct		-748.16	
		For Class 54 Rating, Add		1,031.34	
		For Class 55 Rating, Add		1,538.98	
		For Class 56 Rating, Add		2,039.81	
40 05 19 00-0160	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,886.14	616.31
		For Class 52 Rating, Deduct		-764.76	
		For Class 54 Rating, Add		1,054.06	
		For Class 55 Rating, Add		1,572.78	
		For Class 56 Rating, Add		2,084.55	
40 05 19 00-0161	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	8,043.36	620.48
		For Class 52 Rating, Deduct		-781.36	
		For Class 54 Rating, Add		1,076.77	
		For Class 55 Rating, Add		1,606.59	
		For Class 56 Rating, Add		2,129.30	
40 05 19 00-0162	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	8,200.58	624.65
		For Class 52 Rating, Deduct		-797.96	
		For Class 54 Rating, Add		1,099.48	
		For Class 55 Rating, Add		1,640.39	
		For Class 56 Rating, Add		2,174.05	
40 05 19 00-0163		12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)			
40 05 19 00-0164	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	2,918.03	583.00
		For Class 52 Rating, Deduct		-223.82	
		For Class 54 Rating, Add		315.80	
		For Class 55 Rating, Add		474.94	
		For Class 56 Rating, Add		632.04	
40 05 19 00-0165	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	3,114.28	587.17
		For Class 52 Rating, Deduct		-244.71	
		For Class 54 Rating, Add		344.37	
		For Class 55 Rating, Add		517.45	
		For Class 56 Rating, Add		688.30	
40 05 19 00-0166	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	3,310.53	591.33
		For Class 52 Rating, Deduct		-265.60	
		For Class 54 Rating, Add		372.94	
		For Class 55 Rating, Add		559.95	
		For Class 56 Rating, Add		744.56	
40 05 19 00-0167	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	3,506.79	595.49
		For Class 52 Rating, Deduct		-286.50	
		For Class 54 Rating, Add		401.51	
		For Class 55 Rating, Add		602.46	
		For Class 56 Rating, Add		800.82	
40 05 19 00-0168	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	3,703.04	599.66
		For Class 52 Rating, Deduct		-307.39	
		For Class 54 Rating, Add		430.07	
		For Class 55 Rating, Add		644.97	
		For Class 56 Rating, Add		857.07	
40 05 19 00-0169	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	3,899.28	603.82
		For Class 52 Rating, Deduct		-328.28	
		For Class 54 Rating, Add		458.64	
		For Class 55 Rating, Add		687.48	
		For Class 56 Rating, Add		913.33	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0170	EA	12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,095.53	607.99	
		For Class 52 Rating, Deduct	-349.18		
		For Class 54 Rating, Add	487.21		
		For Class 55 Rating, Add	729.99		
		For Class 56 Rating, Add	969.59		
40 05 19 00-0171	EA	12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,291.78	612.15	
		For Class 52 Rating, Deduct	-370.07		
		For Class 54 Rating, Add	515.77		
		For Class 55 Rating, Add	772.49		
		For Class 56 Rating, Add	1,025.85		
40 05 19 00-0172	EA	12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,488.03	616.31	
		For Class 52 Rating, Deduct	-390.96		
		For Class 54 Rating, Add	544.34		
		For Class 55 Rating, Add	815.00		
		For Class 56 Rating, Add	1,082.11		
40 05 19 00-0173	EA	12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,684.28	620.48	
		For Class 52 Rating, Deduct	-411.86		
		For Class 54 Rating, Add	572.91		
		For Class 55 Rating, Add	857.51		
		For Class 56 Rating, Add	1,138.37		
40 05 19 00-0174	EA	12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,880.53	624.65	
		For Class 52 Rating, Deduct	-432.75		
		For Class 54 Rating, Add	601.47		
		For Class 55 Rating, Add	900.02		
		For Class 56 Rating, Add	1,194.63		
40 05 19 00-0175	EA	12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,076.78	628.81	
		For Class 52 Rating, Deduct	-453.64		
		For Class 54 Rating, Add	630.04		
		For Class 55 Rating, Add	942.53		
		For Class 56 Rating, Add	1,250.89		
40 05 19 00-0176	EA	12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,273.03	632.97	
		For Class 52 Rating, Deduct	-474.54		
		For Class 54 Rating, Add	658.61		
		For Class 55 Rating, Add	985.03		
		For Class 56 Rating, Add	1,307.15		
40 05 19 00-0177	EA	12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,469.28	637.14	
		For Class 52 Rating, Deduct	-495.43		
		For Class 54 Rating, Add	687.17		
		For Class 55 Rating, Add	1,027.54		
		For Class 56 Rating, Add	1,363.41		
40 05 19 00-0178	EA	12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,665.53	641.30	
		For Class 52 Rating, Deduct	-516.32		
		For Class 54 Rating, Add	715.74		
		For Class 55 Rating, Add	1,070.05		
		For Class 56 Rating, Add	1,419.67		
40 05 19 00-0179	EA	12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,861.77	645.47	
		For Class 52 Rating, Deduct	-537.22		
		For Class 54 Rating, Add	744.31		
		For Class 55 Rating, Add	1,112.56		
		For Class 56 Rating, Add	1,475.93		
40 05 19 00-0180	EA	12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,058.03	649.63	
		For Class 52 Rating, Deduct	-558.11		
		For Class 54 Rating, Add	772.87		
		For Class 55 Rating, Add	1,155.07		
		For Class 56 Rating, Add	1,532.19		
40 05 19 00-0181	EA	12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,254.28	653.79	
		For Class 52 Rating, Deduct	-579.00		
		For Class 54 Rating, Add	801.44		
		For Class 55 Rating, Add	1,197.58		
		For Class 56 Rating, Add	1,588.45		
40 05 19 00-0182	EA	12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,450.53	657.96	
		For Class 52 Rating, Deduct	-599.90		
		For Class 54 Rating, Add	830.01		
		For Class 55 Rating, Add	1,240.08		
		For Class 56 Rating, Add	1,644.71		
40 05 19 00-0183	EA	12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,646.78	662.12	
		For Class 52 Rating, Deduct	-620.79		
		For Class 54 Rating, Add	858.57		
		For Class 55 Rating, Add	1,282.59		
		For Class 56 Rating, Add	1,700.97		
40 05 19 00-0184	EA	12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,843.02	666.29	
		For Class 52 Rating, Deduct	-641.69		
		For Class 54 Rating, Add	887.14		
		For Class 55 Rating, Add	1,325.10		
		For Class 56 Rating, Add	1,757.23		
40 05 19 00-0185	EA	12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,039.27	670.45	
		For Class 52 Rating, Deduct	-662.58		
		For Class 54 Rating, Add	915.71		
		For Class 55 Rating, Add	1,367.61		
		For Class 56 Rating, Add	1,813.48		
40 05 19 00-0186	EA	12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,235.52	674.61	
		For Class 52 Rating, Deduct	-683.47		
		For Class 54 Rating, Add	944.27		
		For Class 55 Rating, Add	1,410.12		
		For Class 56 Rating, Add	1,869.74		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0187	EA	12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,431.79	678.78
		For Class 52 Rating, Deduct	-704.37	
		For Class 54 Rating, Add	972.84	
		For Class 55 Rating, Add	1,452.63	
		For Class 56 Rating, Add	1,926.01	
40 05 19 00-0188	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,824.04	682.95
		For Class 52 Rating, Deduct	-725.26	
		For Class 54 Rating, Add	1,001.41	
		For Class 55 Rating, Add	1,495.13	
		For Class 56 Rating, Add	1,982.27	
40 05 19 00-0189	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,824.28	687.11
		For Class 52 Rating, Deduct	-746.15	
		For Class 54 Rating, Add	1,029.97	
		For Class 55 Rating, Add	1,537.64	
		For Class 56 Rating, Add	2,038.53	
40 05 19 00-0190	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,020.53	691.27
		For Class 52 Rating, Deduct	-767.05	
		For Class 54 Rating, Add	1,058.54	
		For Class 55 Rating, Add	1,580.15	
		For Class 56 Rating, Add	2,094.78	
40 05 19 00-0191	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,216.78	695.44
		For Class 52 Rating, Deduct	-787.94	
		For Class 54 Rating, Add	1,087.11	
		For Class 55 Rating, Add	1,622.66	
		For Class 56 Rating, Add	2,151.04	
40 05 19 00-0192	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,413.03	699.60
		For Class 52 Rating, Deduct	-808.83	
		For Class 54 Rating, Add	1,115.67	
		For Class 55 Rating, Add	1,665.17	
		For Class 56 Rating, Add	2,207.30	
40 05 19 00-0193	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,609.29	703.77
		For Class 52 Rating, Deduct	-829.73	
		For Class 54 Rating, Add	1,144.24	
		For Class 55 Rating, Add	1,707.67	
		For Class 56 Rating, Add	2,263.56	
40 05 19 00-0194	EA	12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,805.53	707.93
		For Class 52 Rating, Deduct	-850.62	
		For Class 54 Rating, Add	1,172.81	
		For Class 55 Rating, Add	1,750.18	
		For Class 56 Rating, Add	2,319.82	
40 05 19 00-0195	EA	12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,001.78	712.09
		For Class 52 Rating, Deduct	-871.51	
		For Class 54 Rating, Add	1,201.37	
		For Class 55 Rating, Add	1,792.69	
		For Class 56 Rating, Add	2,376.08	
40 05 19 00-0196	EA	12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,198.03	716.26
		For Class 52 Rating, Deduct	-892.41	
		For Class 54 Rating, Add	1,229.94	
		For Class 55 Rating, Add	1,835.20	
		For Class 56 Rating, Add	2,432.34	
40 05 19 00-0197	EA	12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,394.28	720.42
		For Class 52 Rating, Deduct	-913.30	
		For Class 54 Rating, Add	1,258.51	
		For Class 55 Rating, Add	1,877.71	
		For Class 56 Rating, Add	2,488.60	
40 05 19 00-0198	EA	12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,590.52	724.59
		For Class 52 Rating, Deduct	-934.19	
		For Class 54 Rating, Add	1,287.07	
		For Class 55 Rating, Add	1,920.21	
		For Class 56 Rating, Add	2,544.86	
40 05 19 00-0199	EA	12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,786.78	728.75
		For Class 52 Rating, Deduct	-955.09	
		For Class 54 Rating, Add	1,315.64	
		For Class 55 Rating, Add	1,962.72	
		For Class 56 Rating, Add	2,601.12	
40 05 19 00-0200	EA	12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,983.03	732.91
		For Class 52 Rating, Deduct	-975.98	
		For Class 54 Rating, Add	1,344.21	
		For Class 55 Rating, Add	2,005.23	
		For Class 56 Rating, Add	2,657.38	
40 05 19 00-0201	EA	12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,179.28	737.08
		For Class 52 Rating, Deduct	-996.87	
		For Class 54 Rating, Add	1,372.77	
		For Class 55 Rating, Add	2,047.74	
		For Class 56 Rating, Add	2,713.64	
40 05 19 00-0202	EA	12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,375.53	741.25
		For Class 52 Rating, Deduct	-1,017.77	
		For Class 54 Rating, Add	1,401.34	
		For Class 55 Rating, Add	2,090.25	
		For Class 56 Rating, Add	2,769.90	

40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,
Ductile Iron Pipe (40 05 19 00-0002)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0204	EA	14"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,909.10	699.60
			For Class 52 Rating, Deduct	-313.40	
			For Class 54 Rating, Add	440.09	
			For Class 55 Rating, Add	660.79	
			For Class 56 Rating, Add	878.64	
40 05 19 00-0205	EA	14"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,146.99	703.77
			For Class 52 Rating, Deduct	-338.87	
			For Class 54 Rating, Add	474.90	
			For Class 55 Rating, Add	712.58	
			For Class 56 Rating, Add	947.19	
40 05 19 00-0206	EA	14"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,384.86	707.93
			For Class 52 Rating, Deduct	-364.35	
			For Class 54 Rating, Add	509.71	
			For Class 55 Rating, Add	764.37	
			For Class 56 Rating, Add	1,015.73	
40 05 19 00-0207	EA	14"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,622.75	712.09
			For Class 52 Rating, Deduct	-389.82	
			For Class 54 Rating, Add	544.52	
			For Class 55 Rating, Add	816.17	
			For Class 56 Rating, Add	1,084.27	
40 05 19 00-0208	EA	14"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,860.63	716.26
			For Class 52 Rating, Deduct	-415.29	
			For Class 54 Rating, Add	579.33	
			For Class 55 Rating, Add	867.96	
			For Class 56 Rating, Add	1,152.81	
40 05 19 00-0209	EA	14"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,098.51	720.42
			For Class 52 Rating, Deduct	-440.77	
			For Class 54 Rating, Add	614.14	
			For Class 55 Rating, Add	919.75	
			For Class 56 Rating, Add	1,221.35	
40 05 19 00-0210	EA	14"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,336.38	724.59
			For Class 52 Rating, Deduct	-466.24	
			For Class 54 Rating, Add	648.95	
			For Class 55 Rating, Add	971.54	
			For Class 56 Rating, Add	1,289.89	
40 05 19 00-0211	EA	14"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,574.27	728.75
			For Class 52 Rating, Deduct	-491.71	
			For Class 54 Rating, Add	683.77	
			For Class 55 Rating, Add	1,023.33	
			For Class 56 Rating, Add	1,358.43	
40 05 19 00-0212	EA	14"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,812.15	732.91
			For Class 52 Rating, Deduct	-517.18	
			For Class 54 Rating, Add	718.58	
			For Class 55 Rating, Add	1,075.12	
			For Class 56 Rating, Add	1,426.97	
40 05 19 00-0213	EA	14"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,050.03	737.08
			For Class 52 Rating, Deduct	-542.66	
			For Class 54 Rating, Add	753.39	
			For Class 55 Rating, Add	1,126.92	
			For Class 56 Rating, Add	1,495.51	
40 05 19 00-0214	EA	14"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,287.91	741.25
			For Class 52 Rating, Deduct	-568.13	
			For Class 54 Rating, Add	788.20	
			For Class 55 Rating, Add	1,178.71	
			For Class 56 Rating, Add	1,564.05	
40 05 19 00-0215	EA	14"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,525.78	745.41
			For Class 52 Rating, Deduct	-593.60	
			For Class 54 Rating, Add	823.01	
			For Class 55 Rating, Add	1,230.50	
			For Class 56 Rating, Add	1,632.59	
40 05 19 00-0216	EA	14"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,763.66	749.57
			For Class 52 Rating, Deduct	-619.07	
			For Class 54 Rating, Add	857.82	
			For Class 55 Rating, Add	1,282.29	
			For Class 56 Rating, Add	1,701.13	
40 05 19 00-0217	EA	14"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,001.54	753.74
			For Class 52 Rating, Deduct	-644.55	
			For Class 54 Rating, Add	892.63	
			For Class 55 Rating, Add	1,334.08	
			For Class 56 Rating, Add	1,769.67	
40 05 19 00-0218	EA	14"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,239.43	757.90
			For Class 52 Rating, Deduct	-670.02	
			For Class 54 Rating, Add	927.44	
			For Class 55 Rating, Add	1,385.87	
			For Class 56 Rating, Add	1,838.21	
40 05 19 00-0219	EA	14"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,477.32	762.07
			For Class 52 Rating, Deduct	-695.49	
			For Class 54 Rating, Add	962.26	
			For Class 55 Rating, Add	1,437.67	
			For Class 56 Rating, Add	1,906.76	
40 05 19 00-0220	EA	14"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,715.19	766.22
			For Class 52 Rating, Deduct	-720.97	
			For Class 54 Rating, Add	997.07	
			For Class 55 Rating, Add	1,489.46	
			For Class 56 Rating, Add	1,975.30	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0221	EA	14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,953.07		770.39
		For Class 52 Rating, Deduct	-746.44		
		For Class 54 Rating, Add	1,031.88		
		For Class 55 Rating, Add	1,541.25		
		For Class 56 Rating, Add	2,043.84		
40 05 19 00-0222	EA	14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,190.95		774.56
		For Class 52 Rating, Deduct	-771.91		
		For Class 54 Rating, Add	1,066.69		
		For Class 55 Rating, Add	1,593.04		
		For Class 56 Rating, Add	2,112.38		
40 05 19 00-0223	EA	14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,428.83		778.72
		For Class 52 Rating, Deduct	-797.38		
		For Class 54 Rating, Add	1,101.50		
		For Class 55 Rating, Add	1,644.83		
		For Class 56 Rating, Add	2,180.92		
40 05 19 00-0224	EA	14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,666.72		782.89
		For Class 52 Rating, Deduct	-822.86		
		For Class 54 Rating, Add	1,136.31		
		For Class 55 Rating, Add	1,696.62		
		For Class 56 Rating, Add	2,249.46		
40 05 19 00-0225	EA	14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,904.59		787.05
		For Class 52 Rating, Deduct	-848.33		
		For Class 54 Rating, Add	1,171.12		
		For Class 55 Rating, Add	1,748.42		
		For Class 56 Rating, Add	2,318.00		
40 05 19 00-0226	EA	14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,142.47		791.21
		For Class 52 Rating, Deduct	-873.80		
		For Class 54 Rating, Add	1,205.93		
		For Class 55 Rating, Add	1,800.21		
		For Class 56 Rating, Add	2,386.54		
40 05 19 00-0227	EA	14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,380.35		795.38
		For Class 52 Rating, Deduct	-899.28		
		For Class 54 Rating, Add	1,240.75		
		For Class 55 Rating, Add	1,852.00		
		For Class 56 Rating, Add	2,455.08		
40 05 19 00-0228	EA	14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,618.23		799.55
		For Class 52 Rating, Deduct	-924.75		
		For Class 54 Rating, Add	1,275.56		
		For Class 55 Rating, Add	1,903.79		
		For Class 56 Rating, Add	2,523.62		
40 05 19 00-0229	EA	14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,856.11		803.71
		For Class 52 Rating, Deduct	-950.22		
		For Class 54 Rating, Add	1,310.37		
		For Class 55 Rating, Add	1,955.58		
		For Class 56 Rating, Add	2,592.16		
40 05 19 00-0230	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,094.00		807.87
		For Class 52 Rating, Deduct	-975.69		
		For Class 54 Rating, Add	1,345.18		
		For Class 55 Rating, Add	2,007.38		
		For Class 56 Rating, Add	2,660.70		
40 05 19 00-0231	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,331.88		812.04
		For Class 52 Rating, Deduct	-1,001.17		
		For Class 54 Rating, Add	1,379.99		
		For Class 55 Rating, Add	2,059.17		
		For Class 56 Rating, Add	2,729.24		
40 05 19 00-0232	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,569.76		816.20
		For Class 52 Rating, Deduct	-1,026.64		
		For Class 54 Rating, Add	1,414.80		
		For Class 55 Rating, Add	2,110.96		
		For Class 56 Rating, Add	2,797.78		
40 05 19 00-0233	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,807.64		820.37
		For Class 52 Rating, Deduct	-1,052.11		
		For Class 54 Rating, Add	1,449.61		
		For Class 55 Rating, Add	2,162.75		
		For Class 56 Rating, Add	2,866.32		
40 05 19 00-0234	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,045.52		824.52
		For Class 52 Rating, Deduct	-1,077.59		
		For Class 54 Rating, Add	1,484.43		
		For Class 55 Rating, Add	2,214.54		
		For Class 56 Rating, Add	2,934.86		
40 05 19 00-0235	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,283.39		828.69
		For Class 52 Rating, Deduct	-1,103.06		
		For Class 54 Rating, Add	1,519.24		
		For Class 55 Rating, Add	2,266.33		
		For Class 56 Rating, Add	3,003.40		
40 05 19 00-0236	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,521.27		832.86
		For Class 52 Rating, Deduct	-1,128.53		
		For Class 54 Rating, Add	1,554.05		
		For Class 55 Rating, Add	2,318.13		
		For Class 56 Rating, Add	3,071.94		
40 05 19 00-0237	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,759.16		837.02
		For Class 52 Rating, Deduct	-1,154.00		
		For Class 54 Rating, Add	1,588.86		
		For Class 55 Rating, Add	2,369.92		
		For Class 56 Rating, Add	3,140.48		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0238 EA 14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	11,997.04 -1,179.48 1,623.67 2,421.71 3,209.02	841.19
40 05 19 00-0239 EA 14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	12,234.92 -1,204.95 1,658.48 2,473.50 3,277.56	845.35
40 05 19 00-0240 EA 14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	12,472.79 -1,230.42 1,693.29 2,525.29 3,346.10	849.51
40 05 19 00-0241 EA 14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	12,710.67 -1,255.89 1,728.10 2,577.08 3,414.64	853.68
40 05 19 00-0242 16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0243 EA 16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,588.72 -371.50 521.13 782.21 1,039.91	799.55
40 05 19 00-0244 EA 16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,865.63 -401.27 561.80 842.71 1,119.97	803.71
40 05 19 00-0245 EA 16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,142.54 -431.03 602.46 903.20 1,200.02	807.87
40 05 19 00-0246 EA 16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,419.45 -460.80 643.13 963.70 1,280.07	812.04
40 05 19 00-0247 EA 16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,696.36 -490.57 683.79 1,024.19 1,360.13	816.20
40 05 19 00-0248 EA 16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,973.27 -520.33 724.46 1,084.69 1,440.18	820.37
40 05 19 00-0249 EA 16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,250.18 -550.10 765.12 1,145.18 1,520.24	824.52
40 05 19 00-0250 EA 16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,527.08 -579.86 805.79 1,205.68 1,600.29	828.69
40 05 19 00-0251 EA 16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,803.99 -609.63 846.46 1,266.17 1,680.34	832.86
40 05 19 00-0252 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,080.91 -639.40 887.12 1,326.67 1,760.40	837.02
40 05 19 00-0253 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,357.82 -669.16 927.79 1,387.16 1,840.45	841.19
40 05 19 00-0254 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,634.73 -698.93 968.45 1,447.66 1,920.51	845.35

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0255	EA		16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,911.63	849.51
			For Class 52 Rating, Deduct	-728.69	
			For Class 54 Rating, Add	1,009.12	
			For Class 55 Rating, Add	1,508.15	
			For Class 56 Rating, Add	2,000.56	
40 05 19 00-0256	EA		16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,188.54	853.68
			For Class 52 Rating, Deduct	-758.46	
			For Class 54 Rating, Add	1,049.78	
			For Class 55 Rating, Add	1,568.65	
			For Class 56 Rating, Add	2,080.62	
40 05 19 00-0257	EA		16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,465.45	857.85
			For Class 52 Rating, Deduct	-788.23	
			For Class 54 Rating, Add	1,090.45	
			For Class 55 Rating, Add	1,629.14	
			For Class 56 Rating, Add	2,160.67	
40 05 19 00-0258	EA		16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,742.37	862.01
			For Class 52 Rating, Deduct	-817.99	
			For Class 54 Rating, Add	1,131.12	
			For Class 55 Rating, Add	1,689.64	
			For Class 56 Rating, Add	2,240.72	
40 05 19 00-0259	EA		16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,019.28	866.17
			For Class 52 Rating, Deduct	-847.76	
			For Class 54 Rating, Add	1,171.78	
			For Class 55 Rating, Add	1,750.13	
			For Class 56 Rating, Add	2,320.78	
40 05 19 00-0260	EA		16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,296.18	870.34
			For Class 52 Rating, Deduct	-877.52	
			For Class 54 Rating, Add	1,212.45	
			For Class 55 Rating, Add	1,810.63	
			For Class 56 Rating, Add	2,400.83	
40 05 19 00-0261	EA		16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,573.09	874.50
			For Class 52 Rating, Deduct	-907.29	
			For Class 54 Rating, Add	1,253.11	
			For Class 55 Rating, Add	1,871.12	
			For Class 56 Rating, Add	2,480.89	
40 05 19 00-0262	EA		16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,850.00	878.67
			For Class 52 Rating, Deduct	-937.06	
			For Class 54 Rating, Add	1,293.78	
			For Class 55 Rating, Add	1,931.62	
			For Class 56 Rating, Add	2,560.94	
40 05 19 00-0263	EA		16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,126.91	882.82
			For Class 52 Rating, Deduct	-966.82	
			For Class 54 Rating, Add	1,334.44	
			For Class 55 Rating, Add	1,992.11	
			For Class 56 Rating, Add	2,640.99	
40 05 19 00-0264	EA		16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,403.83	886.99
			For Class 52 Rating, Deduct	-996.59	
			For Class 54 Rating, Add	1,375.11	
			For Class 55 Rating, Add	2,052.61	
			For Class 56 Rating, Add	2,721.05	
40 05 19 00-0265	EA		16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,680.73	891.16
			For Class 52 Rating, Deduct	-1,026.35	
			For Class 54 Rating, Add	1,415.78	
			For Class 55 Rating, Add	2,113.11	
			For Class 56 Rating, Add	2,801.10	
40 05 19 00-0266	EA		16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,957.63	895.32
			For Class 52 Rating, Deduct	-1,056.12	
			For Class 54 Rating, Add	1,456.44	
			For Class 55 Rating, Add	2,173.60	
			For Class 56 Rating, Add	2,881.15	
40 05 19 00-0267	EA		16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,234.54	899.49
			For Class 52 Rating, Deduct	-1,085.88	
			For Class 54 Rating, Add	1,497.11	
			For Class 55 Rating, Add	2,234.09	
			For Class 56 Rating, Add	2,961.21	
40 05 19 00-0268	EA		16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,511.45	903.65
			For Class 52 Rating, Deduct	-1,115.65	
			For Class 54 Rating, Add	1,537.77	
			For Class 55 Rating, Add	2,294.59	
			For Class 56 Rating, Add	3,041.26	
40 05 19 00-0269	EA		16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,788.36	907.81
			For Class 52 Rating, Deduct	-1,145.42	
			For Class 54 Rating, Add	1,578.44	
			For Class 55 Rating, Add	2,355.08	
			For Class 56 Rating, Add	3,121.32	
40 05 19 00-0270	EA		16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,065.26	911.98
			For Class 52 Rating, Deduct	-1,175.18	
			For Class 54 Rating, Add	1,619.10	
			For Class 55 Rating, Add	2,415.58	
			For Class 56 Rating, Add	3,201.37	
40 05 19 00-0271	EA		16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,342.18	916.15
			For Class 52 Rating, Deduct	-1,204.95	
			For Class 54 Rating, Add	1,659.77	
			For Class 55 Rating, Add	2,476.07	
			For Class 56 Rating, Add	3,281.43	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272	EA	16"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,619.09	920.31
			For Class 52 Rating, Deduct	-1,234.71	
			For Class 54 Rating, Add	1,700.43	
			For Class 55 Rating, Add	2,536.57	
			For Class 56 Rating, Add	3,361.48	
40 05 19 00-0273	EA	16"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,896.00	924.47
			For Class 52 Rating, Deduct	-1,264.48	
			For Class 54 Rating, Add	1,741.10	
			For Class 55 Rating, Add	2,597.06	
			For Class 56 Rating, Add	3,441.53	
40 05 19 00-0274	EA	16"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,172.90	928.64
			For Class 52 Rating, Deduct	-1,294.25	
			For Class 54 Rating, Add	1,781.77	
			For Class 55 Rating, Add	2,657.56	
			For Class 56 Rating, Add	3,521.59	
40 05 19 00-0275	EA	16"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,449.81	932.80
			For Class 52 Rating, Deduct	-1,324.01	
			For Class 54 Rating, Add	1,822.43	
			For Class 55 Rating, Add	2,718.05	
			For Class 56 Rating, Add	3,601.64	
40 05 19 00-0276	EA	16"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,726.72	936.97
			For Class 52 Rating, Deduct	-1,353.78	
			For Class 54 Rating, Add	1,863.10	
			For Class 55 Rating, Add	2,778.55	
			For Class 56 Rating, Add	3,681.70	
40 05 19 00-0277	EA	16"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,003.64	941.13
			For Class 52 Rating, Deduct	-1,383.54	
			For Class 54 Rating, Add	1,903.76	
			For Class 55 Rating, Add	2,839.05	
			For Class 56 Rating, Add	3,761.75	
40 05 19 00-0278	EA	16"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,280.55	945.29
			For Class 52 Rating, Deduct	-1,413.31	
			For Class 54 Rating, Add	1,944.43	
			For Class 55 Rating, Add	2,899.54	
			For Class 56 Rating, Add	3,841.80	
40 05 19 00-0279	EA	16"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,557.45	949.46
			For Class 52 Rating, Deduct	-1,443.08	
			For Class 54 Rating, Add	1,985.09	
			For Class 55 Rating, Add	2,960.04	
			For Class 56 Rating, Add	3,921.86	
40 05 19 00-0280	EA	16"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,834.36	953.62
			For Class 52 Rating, Deduct	-1,472.84	
			For Class 54 Rating, Add	2,025.76	
			For Class 55 Rating, Add	3,020.53	
			For Class 56 Rating, Add	4,001.91	
40 05 19 00-0281			18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0282	EA	18"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,346.33	901.15
			For Class 52 Rating, Deduct	-437.90	
			For Class 54 Rating, Add	613.53	
			For Class 55 Rating, Add	920.52	
			For Class 56 Rating, Add	1,223.53	
40 05 19 00-0283	EA	18"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,664.86	905.32
			For Class 52 Rating, Deduct	-472.25	
			For Class 54 Rating, Add	660.44	
			For Class 55 Rating, Add	990.30	
			For Class 56 Rating, Add	1,315.87	
40 05 19 00-0284	EA	18"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,983.40	909.49
			For Class 52 Rating, Deduct	-506.59	
			For Class 54 Rating, Add	707.35	
			For Class 55 Rating, Add	1,060.08	
			For Class 56 Rating, Add	1,408.20	
40 05 19 00-0285	EA	18"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,301.94	913.64
			For Class 52 Rating, Deduct	-540.94	
			For Class 54 Rating, Add	754.26	
			For Class 55 Rating, Add	1,129.85	
			For Class 56 Rating, Add	1,500.54	
40 05 19 00-0286	EA	18"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,620.48	917.81
			For Class 52 Rating, Deduct	-575.28	
			For Class 54 Rating, Add	801.17	
			For Class 55 Rating, Add	1,199.63	
			For Class 56 Rating, Add	1,592.87	
40 05 19 00-0287	EA	18"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,939.02	921.98
			For Class 52 Rating, Deduct	-609.63	
			For Class 54 Rating, Add	848.08	
			For Class 55 Rating, Add	1,269.41	
			For Class 56 Rating, Add	1,685.21	
40 05 19 00-0288	EA	18"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,257.56	926.14
			For Class 52 Rating, Deduct	-643.98	
			For Class 54 Rating, Add	894.99	
			For Class 55 Rating, Add	1,339.19	
			For Class 56 Rating, Add	1,777.54	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0289	EA	18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,576.10	930.30
		For Class 52 Rating, Deduct		-678.32	
		For Class 54 Rating, Add		941.90	
		For Class 55 Rating, Add		1,408.97	
		For Class 56 Rating, Add		1,869.88	
40 05 19 00-0290	EA	18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,894.64	934.46
		For Class 52 Rating, Deduct		-712.67	
		For Class 54 Rating, Add		988.81	
		For Class 55 Rating, Add		1,478.75	
		For Class 56 Rating, Add		1,962.21	
40 05 19 00-0291	EA	18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	8,213.18	938.63
		For Class 52 Rating, Deduct		-747.01	
		For Class 54 Rating, Add		1,035.72	
		For Class 55 Rating, Add		1,548.53	
		For Class 56 Rating, Add		2,054.55	
40 05 19 00-0292	EA	18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	8,531.72	942.80
		For Class 52 Rating, Deduct		-781.36	
		For Class 54 Rating, Add		1,082.63	
		For Class 55 Rating, Add		1,618.31	
		For Class 56 Rating, Add		2,146.88	
40 05 19 00-0293	EA	18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	8,850.25	946.96
		For Class 52 Rating, Deduct		-815.70	
		For Class 54 Rating, Add		1,129.54	
		For Class 55 Rating, Add		1,688.08	
		For Class 56 Rating, Add		2,239.22	
40 05 19 00-0294	EA	18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	9,168.80	951.12
		For Class 52 Rating, Deduct		-850.05	
		For Class 54 Rating, Add		1,176.45	
		For Class 55 Rating, Add		1,757.86	
		For Class 56 Rating, Add		2,331.55	
40 05 19 00-0295	EA	18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	9,487.34	955.29
		For Class 52 Rating, Deduct		-884.39	
		For Class 54 Rating, Add		1,223.36	
		For Class 55 Rating, Add		1,827.64	
		For Class 56 Rating, Add		2,423.89	
40 05 19 00-0296	EA	18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	9,805.88	959.45
		For Class 52 Rating, Deduct		-918.74	
		For Class 54 Rating, Add		1,270.27	
		For Class 55 Rating, Add		1,897.42	
		For Class 56 Rating, Add		2,516.22	
40 05 19 00-0297	EA	18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	10,124.42	963.62
		For Class 52 Rating, Deduct		-953.08	
		For Class 54 Rating, Add		1,317.18	
		For Class 55 Rating, Add		1,967.20	
		For Class 56 Rating, Add		2,608.56	
40 05 19 00-0298	EA	18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	10,442.95	967.79
		For Class 52 Rating, Deduct		-987.43	
		For Class 54 Rating, Add		1,364.09	
		For Class 55 Rating, Add		2,036.98	
		For Class 56 Rating, Add		2,700.89	
40 05 19 00-0299	EA	18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	10,761.49	971.94
		For Class 52 Rating, Deduct		-1,021.77	
		For Class 54 Rating, Add		1,411.00	
		For Class 55 Rating, Add		2,106.76	
		For Class 56 Rating, Add		2,793.23	
40 05 19 00-0300	EA	18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	11,080.03	976.11
		For Class 52 Rating, Deduct		-1,056.12	
		For Class 54 Rating, Add		1,457.91	
		For Class 55 Rating, Add		2,176.54	
		For Class 56 Rating, Add		2,885.56	
40 05 19 00-0301	EA	18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	11,398.59	980.28
		For Class 52 Rating, Deduct		-1,090.47	
		For Class 54 Rating, Add		1,504.82	
		For Class 55 Rating, Add		2,246.32	
		For Class 56 Rating, Add		2,977.90	
40 05 19 00-0302	EA	18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	11,717.13	984.44
		For Class 52 Rating, Deduct		-1,124.81	
		For Class 54 Rating, Add		1,551.73	
		For Class 55 Rating, Add		2,316.10	
		For Class 56 Rating, Add		3,070.23	
40 05 19 00-0303	EA	18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	12,035.66	988.60
		For Class 52 Rating, Deduct		-1,159.16	
		For Class 54 Rating, Add		1,598.64	
		For Class 55 Rating, Add		2,385.87	
		For Class 56 Rating, Add		3,162.57	
40 05 19 00-0304	EA	18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	12,354.20	992.76
		For Class 52 Rating, Deduct		-1,193.50	
		For Class 54 Rating, Add		1,645.55	
		For Class 55 Rating, Add		2,455.65	
		For Class 56 Rating, Add		3,254.90	
40 05 19 00-0305	EA	18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	12,672.74	996.93
		For Class 52 Rating, Deduct		-1,227.85	
		For Class 54 Rating, Add		1,692.46	
		For Class 55 Rating, Add		2,525.43	
		For Class 56 Rating, Add		3,347.24	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0306	EA	18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,991.28	1,001.10	
		For Class 52 Rating, Deduct	-1,262.19		
		For Class 54 Rating, Add	1,739.37		
		For Class 55 Rating, Add	2,595.21		
		For Class 56 Rating, Add	3,439.57		
40 05 19 00-0307	EA	18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,309.83	1,005.26	
		For Class 52 Rating, Deduct	-1,296.54		
		For Class 54 Rating, Add	1,786.28		
		For Class 55 Rating, Add	2,664.99		
		For Class 56 Rating, Add	3,531.91		
40 05 19 00-0308	EA	18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,628.36	1,009.42	
		For Class 52 Rating, Deduct	-1,330.88		
		For Class 54 Rating, Add	1,833.19		
		For Class 55 Rating, Add	2,734.77		
		For Class 56 Rating, Add	3,624.24		
40 05 19 00-0309	EA	18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,946.90	1,013.59	
		For Class 52 Rating, Deduct	-1,365.23		
		For Class 54 Rating, Add	1,880.10		
		For Class 55 Rating, Add	2,804.55		
		For Class 56 Rating, Add	3,716.58		
40 05 19 00-0310	EA	18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,265.44	1,017.75	
		For Class 52 Rating, Deduct	-1,399.57		
		For Class 54 Rating, Add	1,927.01		
		For Class 55 Rating, Add	2,874.33		
		For Class 56 Rating, Add	3,808.91		
40 05 19 00-0311	EA	18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,583.98	1,021.92	
		For Class 52 Rating, Deduct	-1,433.92		
		For Class 54 Rating, Add	1,973.92		
		For Class 55 Rating, Add	2,944.10		
		For Class 56 Rating, Add	3,901.25		
40 05 19 00-0312	EA	18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,902.52	1,026.09	
		For Class 52 Rating, Deduct	-1,468.26		
		For Class 54 Rating, Add	2,020.83		
		For Class 55 Rating, Add	3,013.88		
		For Class 56 Rating, Add	3,993.58		
40 05 19 00-0313	EA	18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,221.06	1,030.24	
		For Class 52 Rating, Deduct	-1,502.61		
		For Class 54 Rating, Add	2,067.74		
		For Class 55 Rating, Add	3,083.66		
		For Class 56 Rating, Add	4,085.92		
40 05 19 00-0314	EA	18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,539.60	1,034.41	
		For Class 52 Rating, Deduct	-1,536.95		
		For Class 54 Rating, Add	2,114.65		
		For Class 55 Rating, Add	3,153.44		
		For Class 56 Rating, Add	4,178.25		
40 05 19 00-0315	EA	18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,858.14	1,038.58	
		For Class 52 Rating, Deduct	-1,571.30		
		For Class 54 Rating, Add	2,161.56		
		For Class 55 Rating, Add	3,223.22		
		For Class 56 Rating, Add	4,270.59		
40 05 19 00-0316	EA	18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,176.68	1,042.74	
		For Class 52 Rating, Deduct	-1,605.64		
		For Class 54 Rating, Add	2,208.47		
		For Class 55 Rating, Add	3,293.00		
		For Class 56 Rating, Add	4,362.92		
40 05 19 00-0317	EA	18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,495.21	1,046.90	
		For Class 52 Rating, Deduct	-1,639.99		
		For Class 54 Rating, Add	2,255.38		
		For Class 55 Rating, Add	3,362.78		
		For Class 56 Rating, Add	4,455.26		
40 05 19 00-0318	EA	18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,813.75	1,051.07	
		For Class 52 Rating, Deduct	-1,674.34		
		For Class 54 Rating, Add	2,302.29		
		For Class 55 Rating, Add	3,432.55		
		For Class 56 Rating, Add	4,547.59		
40 05 19 00-0319	EA	18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,132.29	1,055.23	
		For Class 52 Rating, Deduct	-1,708.68		
		For Class 54 Rating, Add	2,349.20		
		For Class 55 Rating, Add	3,502.33		
		For Class 56 Rating, Add	4,639.93		
40 05 19 00-0320		20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)			
40 05 19 00-0321	EA	20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,265.33	1,028.58	
		For Class 52 Rating, Deduct	-517.76		
		For Class 54 Rating, Add	724.73		
		For Class 55 Rating, Add	1,087.04		
		For Class 56 Rating, Add	1,444.63		
40 05 19 00-0322	EA	20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,630.70	1,032.75	
		For Class 52 Rating, Deduct	-557.25		
		For Class 54 Rating, Add	778.67		
		For Class 55 Rating, Add	1,167.26		
		For Class 56 Rating, Add	1,550.78		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0323	EA	20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,996.07	1,036.91
		For Class 52 Rating, Deduct	-596.75	
		For Class 54 Rating, Add	832.60	
		For Class 55 Rating, Add	1,247.48	
		For Class 56 Rating, Add	1,656.93	
40 05 19 00-0324	EA	20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,361.45	1,041.07
		For Class 52 Rating, Deduct	-636.25	
		For Class 54 Rating, Add	886.54	
		For Class 55 Rating, Add	1,327.70	
		For Class 56 Rating, Add	1,763.09	
40 05 19 00-0325	EA	20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,726.82	1,045.24
		For Class 52 Rating, Deduct	-675.74	
		For Class 54 Rating, Add	940.47	
		For Class 55 Rating, Add	1,407.93	
		For Class 56 Rating, Add	1,869.24	
40 05 19 00-0326	EA	20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,092.21	1,049.40
		For Class 52 Rating, Deduct	-715.24	
		For Class 54 Rating, Add	994.41	
		For Class 55 Rating, Add	1,488.15	
		For Class 56 Rating, Add	1,975.39	
40 05 19 00-0327	EA	20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,457.57	1,053.57
		For Class 52 Rating, Deduct	-754.74	
		For Class 54 Rating, Add	1,048.34	
		For Class 55 Rating, Add	1,568.37	
		For Class 56 Rating, Add	2,081.54	
40 05 19 00-0328	EA	20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,822.95	1,057.73
		For Class 52 Rating, Deduct	-794.24	
		For Class 54 Rating, Add	1,102.28	
		For Class 55 Rating, Add	1,648.60	
		For Class 56 Rating, Add	2,187.69	
40 05 19 00-0329	EA	20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,188.32	1,061.89
		For Class 52 Rating, Deduct	-833.73	
		For Class 54 Rating, Add	1,156.22	
		For Class 55 Rating, Add	1,728.82	
		For Class 56 Rating, Add	2,293.84	
40 05 19 00-0330	EA	20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,553.70	1,066.06
		For Class 52 Rating, Deduct	-873.23	
		For Class 54 Rating, Add	1,210.15	
		For Class 55 Rating, Add	1,809.04	
		For Class 56 Rating, Add	2,399.99	
40 05 19 00-0331	EA	20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,919.07	1,070.22
		For Class 52 Rating, Deduct	-912.73	
		For Class 54 Rating, Add	1,264.09	
		For Class 55 Rating, Add	1,889.26	
		For Class 56 Rating, Add	2,506.14	
40 05 19 00-0332	EA	20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,284.45	1,074.39
		For Class 52 Rating, Deduct	-952.22	
		For Class 54 Rating, Add	1,318.02	
		For Class 55 Rating, Add	1,969.49	
		For Class 56 Rating, Add	2,612.30	
40 05 19 00-0333	EA	20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,649.82	1,078.55
		For Class 52 Rating, Deduct	-991.72	
		For Class 54 Rating, Add	1,371.96	
		For Class 55 Rating, Add	2,049.71	
		For Class 56 Rating, Add	2,718.45	
40 05 19 00-0334	EA	20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,015.20	1,082.71
		For Class 52 Rating, Deduct	-1,031.22	
		For Class 54 Rating, Add	1,425.89	
		For Class 55 Rating, Add	2,129.93	
		For Class 56 Rating, Add	2,824.60	
40 05 19 00-0335	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,380.57	1,086.88
		For Class 52 Rating, Deduct	-1,070.72	
		For Class 54 Rating, Add	1,479.83	
		For Class 55 Rating, Add	2,210.16	
		For Class 56 Rating, Add	2,930.75	
40 05 19 00-0336	EA	20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,745.95	1,091.05
		For Class 52 Rating, Deduct	-1,110.21	
		For Class 54 Rating, Add	1,533.76	
		For Class 55 Rating, Add	2,290.38	
		For Class 56 Rating, Add	3,036.90	
40 05 19 00-0337	EA	20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,111.31	1,095.21
		For Class 52 Rating, Deduct	-1,149.71	
		For Class 54 Rating, Add	1,587.70	
		For Class 55 Rating, Add	2,370.60	
		For Class 56 Rating, Add	3,143.05	
40 05 19 00-0338	EA	20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,476.70	1,099.37
		For Class 52 Rating, Deduct	-1,189.21	
		For Class 54 Rating, Add	1,641.64	
		For Class 55 Rating, Add	2,450.83	
		For Class 56 Rating, Add	3,249.21	
40 05 19 00-0339	EA	20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,842.07	1,103.54
		For Class 52 Rating, Deduct	-1,228.70	
		For Class 54 Rating, Add	1,695.57	
		For Class 55 Rating, Add	2,531.05	
		For Class 56 Rating, Add	3,355.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0340	EA	20"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,207.45	1,107.70
			For Class 52 Rating, Deduct	-1,268.20	
			For Class 54 Rating, Add	1,749.51	
			For Class 55 Rating, Add	2,611.27	
			For Class 56 Rating, Add	3,461.51	
40 05 19 00-0341	EA	20"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,572.82	1,111.87
			For Class 52 Rating, Deduct	-1,307.70	
			For Class 54 Rating, Add	1,803.44	
			For Class 55 Rating, Add	2,691.49	
			For Class 56 Rating, Add	3,567.66	
40 05 19 00-0342	EA	20"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,938.19	1,116.03
			For Class 52 Rating, Deduct	-1,347.20	
			For Class 54 Rating, Add	1,857.38	
			For Class 55 Rating, Add	2,771.72	
			For Class 56 Rating, Add	3,673.81	
40 05 19 00-0343	EA	20"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,303.56	1,120.19
			For Class 52 Rating, Deduct	-1,386.69	
			For Class 54 Rating, Add	1,911.31	
			For Class 55 Rating, Add	2,851.94	
			For Class 56 Rating, Add	3,779.96	
40 05 19 00-0344	EA	20"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,668.94	1,124.36
			For Class 52 Rating, Deduct	-1,426.19	
			For Class 54 Rating, Add	1,965.25	
			For Class 55 Rating, Add	2,932.16	
			For Class 56 Rating, Add	3,886.11	
40 05 19 00-0345	EA	20"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,034.32	1,128.52
			For Class 52 Rating, Deduct	-1,465.69	
			For Class 54 Rating, Add	2,019.18	
			For Class 55 Rating, Add	3,012.39	
			For Class 56 Rating, Add	3,992.26	
40 05 19 00-0346	EA	20"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,399.69	1,132.69
			For Class 52 Rating, Deduct	-1,505.19	
			For Class 54 Rating, Add	2,073.12	
			For Class 55 Rating, Add	3,092.61	
			For Class 56 Rating, Add	4,098.42	
40 05 19 00-0347	EA	20"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,765.06	1,136.85
			For Class 52 Rating, Deduct	-1,544.68	
			For Class 54 Rating, Add	2,127.05	
			For Class 55 Rating, Add	3,172.83	
			For Class 56 Rating, Add	4,204.57	
40 05 19 00-0348	EA	20"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,130.44	1,141.01
			For Class 52 Rating, Deduct	-1,584.18	
			For Class 54 Rating, Add	2,180.99	
			For Class 55 Rating, Add	3,253.05	
			For Class 56 Rating, Add	4,310.72	
40 05 19 00-0349	EA	20"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,495.81	1,145.18
			For Class 52 Rating, Deduct	-1,623.68	
			For Class 54 Rating, Add	2,234.92	
			For Class 55 Rating, Add	3,333.28	
			For Class 56 Rating, Add	4,416.87	
40 05 19 00-0350	EA	20"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,861.19	1,149.35
			For Class 52 Rating, Deduct	-1,663.17	
			For Class 54 Rating, Add	2,288.86	
			For Class 55 Rating, Add	3,413.50	
			For Class 56 Rating, Add	4,523.02	
40 05 19 00-0351	EA	20"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,226.56	1,153.51
			For Class 52 Rating, Deduct	-1,702.67	
			For Class 54 Rating, Add	2,342.80	
			For Class 55 Rating, Add	3,493.72	
			For Class 56 Rating, Add	4,629.17	
40 05 19 00-0352	EA	20"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,591.94	1,157.67
			For Class 52 Rating, Deduct	-1,742.17	
			For Class 54 Rating, Add	2,396.73	
			For Class 55 Rating, Add	3,573.95	
			For Class 56 Rating, Add	4,735.32	
40 05 19 00-0353	EA	20"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,957.31	1,161.84
			For Class 52 Rating, Deduct	-1,781.66	
			For Class 54 Rating, Add	2,450.67	
			For Class 55 Rating, Add	3,654.17	
			For Class 56 Rating, Add	4,841.47	
40 05 19 00-0354	EA	20"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,322.69	1,166.00
			For Class 52 Rating, Deduct	-1,821.16	
			For Class 54 Rating, Add	2,504.60	
			For Class 55 Rating, Add	3,734.39	
			For Class 56 Rating, Add	4,947.63	
40 05 19 00-0355	EA	20"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,688.06	1,170.17
			For Class 52 Rating, Deduct	-1,860.66	
			For Class 54 Rating, Add	2,558.54	
			For Class 55 Rating, Add	3,814.61	
			For Class 56 Rating, Add	5,053.78	
40 05 19 00-0356	EA	20"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,053.43	1,174.33
			For Class 52 Rating, Deduct	-1,900.16	
			For Class 54 Rating, Add	2,612.47	
			For Class 55 Rating, Add	3,894.84	
			For Class 56 Rating, Add	5,159.93	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0357	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,418.81	1,178.49
		For Class 52 Rating, Deduct	-1,939.65	
		For Class 54 Rating, Add	2,666.41	
		For Class 55 Rating, Add	3,975.06	
		For Class 56 Rating, Add	5,266.08	
40 05 19 00-0358	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,784.19	1,182.66
		For Class 52 Rating, Deduct	-1,979.15	
		For Class 54 Rating, Add	2,720.34	
		For Class 55 Rating, Add	4,055.28	
		For Class 56 Rating, Add	5,372.23	
40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,				
Ductile Iron Pipe (40 05 19 00-0002)				
40 05 19 00-0360	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,717.52	1,215.97
		For Class 52 Rating, Deduct	-646.27	
		For Class 54 Rating, Add	903.38	
		For Class 55 Rating, Add	1,354.37	
		For Class 56 Rating, Add	1,799.49	
40 05 19 00-0361	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,168.75	1,220.14
		For Class 52 Rating, Deduct	-695.21	
		For Class 54 Rating, Add	970.19	
		For Class 55 Rating, Add	1,453.74	
		For Class 56 Rating, Add	1,930.97	
40 05 19 00-0362	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,619.99	1,224.30
		For Class 52 Rating, Deduct	-744.15	
		For Class 54 Rating, Add	1,037.01	
		For Class 55 Rating, Add	1,553.11	
		For Class 56 Rating, Add	2,062.45	
40 05 19 00-0363	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,071.23	1,228.47
		For Class 52 Rating, Deduct	-793.09	
		For Class 54 Rating, Add	1,103.82	
		For Class 55 Rating, Add	1,652.48	
		For Class 56 Rating, Add	2,193.93	
40 05 19 00-0364	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,522.48	1,232.63
		For Class 52 Rating, Deduct	-842.03	
		For Class 54 Rating, Add	1,170.64	
		For Class 55 Rating, Add	1,751.85	
		For Class 56 Rating, Add	2,325.42	
40 05 19 00-0365	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,973.71	1,236.79
		For Class 52 Rating, Deduct	-890.98	
		For Class 54 Rating, Add	1,237.45	
		For Class 55 Rating, Add	1,851.23	
		For Class 56 Rating, Add	2,456.90	
40 05 19 00-0366	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,424.95	1,240.96
		For Class 52 Rating, Deduct	-939.92	
		For Class 54 Rating, Add	1,304.27	
		For Class 55 Rating, Add	1,950.60	
		For Class 56 Rating, Add	2,588.38	
40 05 19 00-0367	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,876.18	1,245.13
		For Class 52 Rating, Deduct	-988.86	
		For Class 54 Rating, Add	1,371.08	
		For Class 55 Rating, Add	2,049.96	
		For Class 56 Rating, Add	2,719.86	
40 05 19 00-0368	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,327.42	1,249.29
		For Class 52 Rating, Deduct	-1,037.80	
		For Class 54 Rating, Add	1,437.90	
		For Class 55 Rating, Add	2,149.34	
		For Class 56 Rating, Add	2,851.34	
40 05 19 00-0369	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,778.66	1,253.45
		For Class 52 Rating, Deduct	-1,086.74	
		For Class 54 Rating, Add	1,504.71	
		For Class 55 Rating, Add	2,248.71	
		For Class 56 Rating, Add	2,982.82	
40 05 19 00-0370	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,229.90	1,257.61
		For Class 52 Rating, Deduct	-1,135.69	
		For Class 54 Rating, Add	1,571.53	
		For Class 55 Rating, Add	2,348.08	
		For Class 56 Rating, Add	3,114.30	
40 05 19 00-0371	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,681.14	1,261.78
		For Class 52 Rating, Deduct	-1,184.63	
		For Class 54 Rating, Add	1,638.34	
		For Class 55 Rating, Add	2,447.45	
		For Class 56 Rating, Add	3,245.78	
40 05 19 00-0372	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,132.38	1,265.95
		For Class 52 Rating, Deduct	-1,233.57	
		For Class 54 Rating, Add	1,705.16	
		For Class 55 Rating, Add	2,546.82	
		For Class 56 Rating, Add	3,377.26	
40 05 19 00-0373	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,583.61	1,270.11
		For Class 52 Rating, Deduct	-1,282.51	
		For Class 54 Rating, Add	1,771.97	
		For Class 55 Rating, Add	2,646.19	
		For Class 56 Rating, Add	3,508.74	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0374	EA	24"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,034.85	1,274.27
			For Class 52 Rating, Deduct	-1,331.45	
			For Class 54 Rating, Add	1,838.79	
			For Class 55 Rating, Add	2,745.56	
			For Class 56 Rating, Add	3,640.22	
40 05 19 00-0375	EA	24"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,486.08	1,278.44
			For Class 52 Rating, Deduct	-1,380.40	
			For Class 54 Rating, Add	1,905.60	
			For Class 55 Rating, Add	2,844.93	
			For Class 56 Rating, Add	3,771.71	
40 05 19 00-0376	EA	24"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,937.32	1,282.60
			For Class 52 Rating, Deduct	-1,429.34	
			For Class 54 Rating, Add	1,972.42	
			For Class 55 Rating, Add	2,944.30	
			For Class 56 Rating, Add	3,903.19	
40 05 19 00-0377	EA	24"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,388.57	1,286.77
			For Class 52 Rating, Deduct	-1,478.28	
			For Class 54 Rating, Add	2,039.23	
			For Class 55 Rating, Add	3,043.67	
			For Class 56 Rating, Add	4,034.67	
40 05 19 00-0378	EA	24"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,839.81	1,290.93
			For Class 52 Rating, Deduct	-1,527.22	
			For Class 54 Rating, Add	2,106.05	
			For Class 55 Rating, Add	3,143.04	
			For Class 56 Rating, Add	4,166.15	
40 05 19 00-0379	EA	24"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,291.04	1,295.09
			For Class 52 Rating, Deduct	-1,576.16	
			For Class 54 Rating, Add	2,172.86	
			For Class 55 Rating, Add	3,242.41	
			For Class 56 Rating, Add	4,297.63	
40 05 19 00-0380	EA	24"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,742.27	1,299.26
			For Class 52 Rating, Deduct	-1,625.11	
			For Class 54 Rating, Add	2,239.68	
			For Class 55 Rating, Add	3,341.78	
			For Class 56 Rating, Add	4,429.11	
40 05 19 00-0381	EA	24"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,193.51	1,303.43
			For Class 52 Rating, Deduct	-1,674.05	
			For Class 54 Rating, Add	2,306.49	
			For Class 55 Rating, Add	3,441.15	
			For Class 56 Rating, Add	4,560.59	
40 05 19 00-0382	EA	24"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,644.75	1,307.59
			For Class 52 Rating, Deduct	-1,722.99	
			For Class 54 Rating, Add	2,373.31	
			For Class 55 Rating, Add	3,540.52	
			For Class 56 Rating, Add	4,692.07	
40 05 19 00-0383	EA	24"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,096.00	1,311.75
			For Class 52 Rating, Deduct	-1,771.93	
			For Class 54 Rating, Add	2,440.12	
			For Class 55 Rating, Add	3,639.89	
			For Class 56 Rating, Add	4,823.55	
40 05 19 00-0384	EA	24"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,547.24	1,315.91
			For Class 52 Rating, Deduct	-1,820.88	
			For Class 54 Rating, Add	2,506.94	
			For Class 55 Rating, Add	3,739.26	
			For Class 56 Rating, Add	4,955.04	
40 05 19 00-0385	EA	24"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,998.46	1,320.08
			For Class 52 Rating, Deduct	-1,869.82	
			For Class 54 Rating, Add	2,573.75	
			For Class 55 Rating, Add	3,838.63	
			For Class 56 Rating, Add	5,086.51	
40 05 19 00-0386	EA	24"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,449.70	1,324.25
			For Class 52 Rating, Deduct	-1,918.76	
			For Class 54 Rating, Add	2,640.57	
			For Class 55 Rating, Add	3,938.00	
			For Class 56 Rating, Add	5,218.00	
40 05 19 00-0387	EA	24"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,900.94	1,328.41
			For Class 52 Rating, Deduct	-1,967.70	
			For Class 54 Rating, Add	2,707.38	
			For Class 55 Rating, Add	4,037.37	
			For Class 56 Rating, Add	5,349.48	
40 05 19 00-0388	EA	24"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,352.18	1,332.57
			For Class 52 Rating, Deduct	-2,016.64	
			For Class 54 Rating, Add	2,774.20	
			For Class 55 Rating, Add	4,136.75	
			For Class 56 Rating, Add	5,480.96	
40 05 19 00-0389	EA	24"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,910.68	1,407.53
			For Class 52 Rating, Deduct	-2,065.59	
			For Class 54 Rating, Add	2,842.30	
			For Class 55 Rating, Add	4,238.69	
			For Class 56 Rating, Add	5,616.30	
40 05 19 00-0390	EA	24"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,361.91	1,411.69
			For Class 52 Rating, Deduct	-2,114.53	
			For Class 54 Rating, Add	2,909.11	
			For Class 55 Rating, Add	4,338.06	
			For Class 56 Rating, Add	5,747.78	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0391	EA	24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,813.16	1,415.86
		For Class 52 Rating, Deduct	-2,163.47	
		For Class 54 Rating, Add	2,975.93	
		For Class 55 Rating, Add	4,437.43	
		For Class 56 Rating, Add	5,879.26	
40 05 19 00-0392	EA	24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,264.39	1,420.03
		For Class 52 Rating, Deduct	-2,212.41	
		For Class 54 Rating, Add	3,042.74	
		For Class 55 Rating, Add	4,536.80	
		For Class 56 Rating, Add	6,010.74	
40 05 19 00-0393	EA	24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,715.63	1,424.19
		For Class 52 Rating, Deduct	-2,261.35	
		For Class 54 Rating, Add	3,109.56	
		For Class 55 Rating, Add	4,636.17	
		For Class 56 Rating, Add	6,142.23	
40 05 19 00-0394	EA	24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,166.87	1,428.35
		For Class 52 Rating, Deduct	-2,310.30	
		For Class 54 Rating, Add	3,176.38	
		For Class 55 Rating, Add	4,735.54	
		For Class 56 Rating, Add	6,273.71	
40 05 19 00-0395	EA	24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,618.11	1,432.51
		For Class 52 Rating, Deduct	-2,359.24	
		For Class 54 Rating, Add	3,243.19	
		For Class 55 Rating, Add	4,834.91	
		For Class 56 Rating, Add	6,405.19	
40 05 19 00-0396	EA	24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,069.34	1,436.68
		For Class 52 Rating, Deduct	-2,408.18	
		For Class 54 Rating, Add	3,310.00	
		For Class 55 Rating, Add	4,934.28	
		For Class 56 Rating, Add	6,536.67	
40 05 19 00-0397	EA	24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,520.57	1,440.85
		For Class 52 Rating, Deduct	-2,457.12	
		For Class 54 Rating, Add	3,376.82	
		For Class 55 Rating, Add	5,033.65	
		For Class 56 Rating, Add	6,668.15	

40 05 19 00-0398 30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-0002)

40 05 19 00-0399	EA	30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,940.42	1,715.69
		For Class 52 Rating, Deduct	-1,027.50	
		For Class 54 Rating, Add	1,432.33	
		For Class 55 Rating, Add	2,145.41	
		For Class 56 Rating, Add	2,849.15	
40 05 19 00-0400	EA	30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,589.41	1,719.85
		For Class 52 Rating, Deduct	-1,098.19	
		For Class 54 Rating, Add	1,528.81	
		For Class 55 Rating, Add	2,288.88	
		For Class 56 Rating, Add	3,038.96	
40 05 19 00-0401	EA	30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,238.39	1,724.02
		For Class 52 Rating, Deduct	-1,168.89	
		For Class 54 Rating, Add	1,625.28	
		For Class 55 Rating, Add	2,432.34	
		For Class 56 Rating, Add	3,228.78	
40 05 19 00-0402	EA	30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,887.37	1,728.18
		For Class 52 Rating, Deduct	-1,239.58	
		For Class 54 Rating, Add	1,721.76	
		For Class 55 Rating, Add	2,575.81	
		For Class 56 Rating, Add	3,418.60	
40 05 19 00-0403	EA	30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,536.35	1,732.35
		For Class 52 Rating, Deduct	-1,310.27	
		For Class 54 Rating, Add	1,818.24	
		For Class 55 Rating, Add	2,719.28	
		For Class 56 Rating, Add	3,608.41	
40 05 19 00-0404	EA	30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,185.34	1,736.50
		For Class 52 Rating, Deduct	-1,380.97	
		For Class 54 Rating, Add	1,914.71	
		For Class 55 Rating, Add	2,862.75	
		For Class 56 Rating, Add	3,798.23	
40 05 19 00-0405	EA	30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,834.33	1,740.67
		For Class 52 Rating, Deduct	-1,451.66	
		For Class 54 Rating, Add	2,011.19	
		For Class 55 Rating, Add	3,006.21	
		For Class 56 Rating, Add	3,988.04	
40 05 19 00-0406	EA	30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,483.30	1,744.84
		For Class 52 Rating, Deduct	-1,522.36	
		For Class 54 Rating, Add	2,107.67	
		For Class 55 Rating, Add	3,149.68	
		For Class 56 Rating, Add	4,177.86	
40 05 19 00-0407	EA	30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,132.29	1,749.00
		For Class 52 Rating, Deduct	-1,593.05	
		For Class 54 Rating, Add	2,204.14	
		For Class 55 Rating, Add	3,293.15	
		For Class 56 Rating, Add	4,367.68	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0408	EA	30"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,781.27	1,753.17
			For Class 52 Rating, Deduct	-1,663.75	
			For Class 54 Rating, Add	2,300.62	
			For Class 55 Rating, Add	3,436.62	
			For Class 56 Rating, Add	4,557.49	
40 05 19 00-0409	EA	30"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,430.26	1,757.33
			For Class 52 Rating, Deduct	-1,734.44	
			For Class 54 Rating, Add	2,397.10	
			For Class 55 Rating, Add	3,580.09	
			For Class 56 Rating, Add	4,747.31	
40 05 19 00-0410	EA	30"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,079.25	1,761.49
			For Class 52 Rating, Deduct	-1,805.13	
			For Class 54 Rating, Add	2,493.57	
			For Class 55 Rating, Add	3,723.55	
			For Class 56 Rating, Add	4,937.12	
40 05 19 00-0411	EA	30"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,728.22	1,765.66
			For Class 52 Rating, Deduct	-1,875.83	
			For Class 54 Rating, Add	2,590.05	
			For Class 55 Rating, Add	3,867.02	
			For Class 56 Rating, Add	5,126.94	
40 05 19 00-0412	EA	30"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,377.21	1,769.83
			For Class 52 Rating, Deduct	-1,946.52	
			For Class 54 Rating, Add	2,686.53	
			For Class 55 Rating, Add	4,010.49	
			For Class 56 Rating, Add	5,316.76	
40 05 19 00-0413	EA	30"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,026.19	1,773.99
			For Class 52 Rating, Deduct	-2,017.22	
			For Class 54 Rating, Add	2,783.00	
			For Class 55 Rating, Add	4,153.96	
			For Class 56 Rating, Add	5,506.57	
40 05 19 00-0414	EA	30"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,675.18	1,778.15
			For Class 52 Rating, Deduct	-2,087.91	
			For Class 54 Rating, Add	2,879.48	
			For Class 55 Rating, Add	4,297.43	
			For Class 56 Rating, Add	5,696.39	
40 05 19 00-0415	EA	30"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,324.16	1,782.32
			For Class 52 Rating, Deduct	-2,158.60	
			For Class 54 Rating, Add	2,975.96	
			For Class 55 Rating, Add	4,440.89	
			For Class 56 Rating, Add	5,886.20	
40 05 19 00-0416	EA	30"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,973.13	1,786.48
			For Class 52 Rating, Deduct	-2,229.30	
			For Class 54 Rating, Add	3,072.43	
			For Class 55 Rating, Add	4,584.36	
			For Class 56 Rating, Add	6,076.02	
40 05 19 00-0417	EA	30"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,622.13	1,790.65
			For Class 52 Rating, Deduct	-2,299.99	
			For Class 54 Rating, Add	3,168.91	
			For Class 55 Rating, Add	4,727.83	
			For Class 56 Rating, Add	6,265.84	
40 05 19 00-0418	EA	30"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,271.11	1,794.80
			For Class 52 Rating, Deduct	-2,370.69	
			For Class 54 Rating, Add	3,265.39	
			For Class 55 Rating, Add	4,871.29	
			For Class 56 Rating, Add	6,455.65	
40 05 19 00-0419	EA	30"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,920.10	1,798.97
			For Class 52 Rating, Deduct	-2,441.38	
			For Class 54 Rating, Add	3,361.87	
			For Class 55 Rating, Add	5,014.76	
			For Class 56 Rating, Add	6,645.47	
40 05 19 00-0420	EA	30"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,569.08	1,803.14
			For Class 52 Rating, Deduct	-2,512.08	
			For Class 54 Rating, Add	3,458.34	
			For Class 55 Rating, Add	5,158.23	
			For Class 56 Rating, Add	6,835.28	
40 05 19 00-0421	EA	30"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,218.06	1,807.30
			For Class 52 Rating, Deduct	-2,582.77	
			For Class 54 Rating, Add	3,554.62	
			For Class 55 Rating, Add	5,301.70	
			For Class 56 Rating, Add	7,025.10	
40 05 19 00-0422	EA	30"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,867.04	1,811.47
			For Class 52 Rating, Deduct	-2,653.46	
			For Class 54 Rating, Add	3,651.30	
			For Class 55 Rating, Add	5,445.17	
			For Class 56 Rating, Add	7,214.92	
40 05 19 00-0423	EA	30"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,513.43	1,815.63
			For Class 52 Rating, Deduct	-2,723.87	
			For Class 54 Rating, Add	3,747.38	
			For Class 55 Rating, Add	5,588.05	
			For Class 56 Rating, Add	7,403.96	
40 05 19 00-0424	EA	30"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,165.02	1,819.79
			For Class 52 Rating, Deduct	-2,794.85	
			For Class 54 Rating, Add	3,844.25	
			For Class 55 Rating, Add	5,732.10	
			For Class 56 Rating, Add	7,594.55	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0425	EA	30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,814.00	1,823.96
		For Class 52 Rating, Deduct	-2,865.55	
		For Class 54 Rating, Add	3,940.73	
		For Class 55 Rating, Add	5,875.57	
		For Class 56 Rating, Add	7,784.36	
40 05 19 00-0426	EA	30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,462.98	1,828.13
		For Class 52 Rating, Deduct	-2,936.24	
		For Class 54 Rating, Add	4,037.20	
		For Class 55 Rating, Add	6,019.04	
		For Class 56 Rating, Add	7,974.18	
40 05 19 00-0427	EA	30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,111.96	1,832.29
		For Class 52 Rating, Deduct	-3,006.93	
		For Class 54 Rating, Add	4,133.68	
		For Class 55 Rating, Add	6,162.51	
		For Class 56 Rating, Add	8,163.99	
40 05 19 00-0428	EA	30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,760.95	1,836.45
		For Class 52 Rating, Deduct	-3,077.63	
		For Class 54 Rating, Add	4,230.16	
		For Class 55 Rating, Add	6,305.97	
		For Class 56 Rating, Add	8,353.81	
40 05 19 00-0429	EA	30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,409.94	1,840.62
		For Class 52 Rating, Deduct	-3,148.32	
		For Class 54 Rating, Add	4,326.63	
		For Class 55 Rating, Add	6,449.44	
		For Class 56 Rating, Add	8,543.63	
40 05 19 00-0430	EA	30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,058.92	1,844.78
		For Class 52 Rating, Deduct	-3,219.02	
		For Class 54 Rating, Add	4,423.11	
		For Class 55 Rating, Add	6,592.91	
		For Class 56 Rating, Add	8,733.44	
40 05 19 00-0431	EA	30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,707.90	1,848.95
		For Class 52 Rating, Deduct	-3,289.71	
		For Class 54 Rating, Add	4,519.59	
		For Class 55 Rating, Add	6,736.38	
		For Class 56 Rating, Add	8,923.26	
40 05 19 00-0432	EA	30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,356.88	1,853.11
		For Class 52 Rating, Deduct	-3,360.41	
		For Class 54 Rating, Add	4,616.06	
		For Class 55 Rating, Add	6,879.84	
		For Class 56 Rating, Add	9,113.07	
40 05 19 00-0433	EA	30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,005.87	1,857.27
		For Class 52 Rating, Deduct	-3,431.10	
		For Class 54 Rating, Add	4,712.54	
		For Class 55 Rating, Add	7,023.31	
		For Class 56 Rating, Add	9,302.89	
40 05 19 00-0434	EA	30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,654.85	1,861.44
		For Class 52 Rating, Deduct	-3,501.79	
		For Class 54 Rating, Add	4,809.02	
		For Class 55 Rating, Add	7,166.78	
		For Class 56 Rating, Add	9,492.71	
40 05 19 00-0435	EA	30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,303.84	1,865.60
		For Class 52 Rating, Deduct	-3,572.49	
		For Class 54 Rating, Add	4,905.50	
		For Class 55 Rating, Add	7,310.25	
		For Class 56 Rating, Add	9,682.53	
40 05 19 00-0436	EA	30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,952.82	1,869.77
		For Class 52 Rating, Deduct	-3,643.18	
		For Class 54 Rating, Add	5,001.97	
		For Class 55 Rating, Add	7,453.72	
		For Class 56 Rating, Add	9,872.34	
40 05 19 00-0437		36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0438	EA	36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,659.63	2,173.76
		For Class 52 Rating, Deduct	-1,470.27	
		For Class 54 Rating, Add	2,044.43	
		For Class 55 Rating, Add	3,059.68	
		For Class 56 Rating, Add	4,061.56	
40 05 19 00-0439	EA	36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,540.19	2,177.93
		For Class 52 Rating, Deduct	-1,566.43	
		For Class 54 Rating, Add	2,175.65	
		For Class 55 Rating, Add	3,254.79	
		For Class 56 Rating, Add	4,319.69	
40 05 19 00-0440	EA	36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,420.74	2,182.09
		For Class 52 Rating, Deduct	-1,662.60	
		For Class 54 Rating, Add	2,306.86	
		For Class 55 Rating, Add	3,449.89	
		For Class 56 Rating, Add	4,577.82	
40 05 19 00-0441	EA	36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,301.31	2,186.25
		For Class 52 Rating, Deduct	-1,758.77	
		For Class 54 Rating, Add	2,438.07	
		For Class 55 Rating, Add	3,645.00	
		For Class 56 Rating, Add	4,835.95	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0442	EA	36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,181.86	2,190.42
		For Class 52 Rating, Deduct	-1,854.93	
		For Class 54 Rating, Add	2,569.28	
		For Class 55 Rating, Add	3,840.11	
		For Class 56 Rating, Add	5,094.07	
40 05 19 00-0443	EA	36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,062.41	2,194.58
		For Class 52 Rating, Deduct	-1,951.10	
		For Class 54 Rating, Add	2,700.49	
		For Class 55 Rating, Add	4,035.22	
		For Class 56 Rating, Add	5,352.20	
40 05 19 00-0444	EA	36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,942.96	2,198.75
		For Class 52 Rating, Deduct	-2,047.27	
		For Class 54 Rating, Add	2,831.71	
		For Class 55 Rating, Add	4,230.33	
		For Class 56 Rating, Add	5,610.33	
40 05 19 00-0445	EA	36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,823.52	2,202.91
		For Class 52 Rating, Deduct	-2,143.44	
		For Class 54 Rating, Add	2,962.92	
		For Class 55 Rating, Add	4,425.43	
		For Class 56 Rating, Add	5,868.46	
40 05 19 00-0446	EA	36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,704.07	2,207.07
		For Class 52 Rating, Deduct	-2,239.60	
		For Class 54 Rating, Add	3,094.13	
		For Class 55 Rating, Add	4,620.54	
		For Class 56 Rating, Add	6,126.59	
40 05 19 00-0447	EA	36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,584.64	2,211.24
		For Class 52 Rating, Deduct	-2,335.77	
		For Class 54 Rating, Add	3,225.34	
		For Class 55 Rating, Add	4,815.65	
		For Class 56 Rating, Add	6,384.72	
40 05 19 00-0448	EA	36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,465.18	2,215.41
		For Class 52 Rating, Deduct	-2,431.94	
		For Class 54 Rating, Add	3,356.56	
		For Class 55 Rating, Add	5,010.76	
		For Class 56 Rating, Add	6,642.85	
40 05 19 00-0449	EA	36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,345.74	2,219.57
		For Class 52 Rating, Deduct	-2,528.10	
		For Class 54 Rating, Add	3,487.77	
		For Class 55 Rating, Add	5,205.87	
		For Class 56 Rating, Add	6,900.98	
40 05 19 00-0450	EA	36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,226.29	2,223.73
		For Class 52 Rating, Deduct	-2,624.27	
		For Class 54 Rating, Add	3,618.98	
		For Class 55 Rating, Add	5,400.97	
		For Class 56 Rating, Add	7,159.11	
40 05 19 00-0451	EA	36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,106.85	2,227.89
		For Class 52 Rating, Deduct	-2,720.44	
		For Class 54 Rating, Add	3,750.19	
		For Class 55 Rating, Add	5,596.08	
		For Class 56 Rating, Add	7,417.24	
40 05 19 00-0452	EA	36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,987.40	2,232.06
		For Class 52 Rating, Deduct	-2,816.60	
		For Class 54 Rating, Add	3,881.41	
		For Class 55 Rating, Add	5,791.19	
		For Class 56 Rating, Add	7,675.37	
40 05 19 00-0453	EA	36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,867.96	2,236.23
		For Class 52 Rating, Deduct	-2,912.77	
		For Class 54 Rating, Add	4,012.62	
		For Class 55 Rating, Add	5,986.30	
		For Class 56 Rating, Add	7,933.50	
40 05 19 00-0454	EA	36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,748.51	2,240.38
		For Class 52 Rating, Deduct	-3,008.94	
		For Class 54 Rating, Add	4,143.83	
		For Class 55 Rating, Add	6,181.41	
		For Class 56 Rating, Add	8,191.63	
40 05 19 00-0455	EA	36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,629.07	2,244.55
		For Class 52 Rating, Deduct	-3,105.11	
		For Class 54 Rating, Add	4,275.04	
		For Class 55 Rating, Add	6,376.52	
		For Class 56 Rating, Add	8,449.76	
40 05 19 00-0456	EA	36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,509.63	2,248.72
		For Class 52 Rating, Deduct	-3,201.27	
		For Class 54 Rating, Add	4,406.26	
		For Class 55 Rating, Add	6,571.62	
		For Class 56 Rating, Add	8,707.89	
40 05 19 00-0457	EA	36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,390.18	2,252.88
		For Class 52 Rating, Deduct	-3,297.44	
		For Class 54 Rating, Add	4,537.47	
		For Class 55 Rating, Add	6,766.73	
		For Class 56 Rating, Add	8,966.02	
40 05 19 00-0458	EA	36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,270.73	2,257.05
		For Class 52 Rating, Deduct	-3,393.61	
		For Class 54 Rating, Add	4,668.68	
		For Class 55 Rating, Add	6,961.84	
		For Class 56 Rating, Add	9,224.15	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0459	EA	36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	35,151.28	2,261.21
		For Class 52 Rating, Deduct		-3,489.77	
		For Class 54 Rating, Add		4,799.89	
		For Class 55 Rating, Add		7,156.95	
		For Class 56 Rating, Add		9,482.28	
40 05 19 00-0460	EA	36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	36,031.85	2,265.37
		For Class 52 Rating, Deduct		-3,585.94	
		For Class 54 Rating, Add		4,931.11	
		For Class 55 Rating, Add		7,352.06	
		For Class 56 Rating, Add		9,740.41	
40 05 19 00-0461	EA	36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	36,912.40	2,269.54
		For Class 52 Rating, Deduct		-3,682.11	
		For Class 54 Rating, Add		5,062.32	
		For Class 55 Rating, Add		7,547.16	
		For Class 56 Rating, Add		9,998.53	
40 05 19 00-0462	EA	36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	37,792.96	2,273.71
		For Class 52 Rating, Deduct		-3,778.27	
		For Class 54 Rating, Add		5,193.53	
		For Class 55 Rating, Add		7,742.27	
		For Class 56 Rating, Add		10,256.67	
40 05 19 00-0463	EA	36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	38,673.50	2,277.87
		For Class 52 Rating, Deduct		-3,874.44	
		For Class 54 Rating, Add		5,324.74	
		For Class 55 Rating, Add		7,937.38	
		For Class 56 Rating, Add		10,514.79	
40 05 19 00-0464	EA	36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	39,554.06	2,282.03
		For Class 52 Rating, Deduct		-3,970.61	
		For Class 54 Rating, Add		5,455.96	
		For Class 55 Rating, Add		8,132.49	
		For Class 56 Rating, Add		10,772.92	
40 05 19 00-0465	EA	36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	40,434.61	2,286.19
		For Class 52 Rating, Deduct		-4,066.77	
		For Class 54 Rating, Add		5,587.17	
		For Class 55 Rating, Add		8,327.60	
		For Class 56 Rating, Add		11,031.05	
40 05 19 00-0466	EA	36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	41,315.18	2,290.36
		For Class 52 Rating, Deduct		-4,162.94	
		For Class 54 Rating, Add		5,718.38	
		For Class 55 Rating, Add		8,522.71	
		For Class 56 Rating, Add		11,289.18	
40 05 19 00-0467	EA	36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	42,195.73	2,294.53
		For Class 52 Rating, Deduct		-4,259.11	
		For Class 54 Rating, Add		5,849.59	
		For Class 55 Rating, Add		8,717.81	
		For Class 56 Rating, Add		11,547.31	
40 05 19 00-0468	EA	36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	43,076.28	2,298.68
		For Class 52 Rating, Deduct		-4,355.28	
		For Class 54 Rating, Add		5,980.81	
		For Class 55 Rating, Add		8,912.92	
		For Class 56 Rating, Add		11,805.44	
40 05 19 00-0469	EA	36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	43,956.83	2,302.85
		For Class 52 Rating, Deduct		-4,451.44	
		For Class 54 Rating, Add		6,112.02	
		For Class 55 Rating, Add		9,108.03	
		For Class 56 Rating, Add		12,063.57	
40 05 19 00-0470	EA	36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	44,837.39	2,307.02
		For Class 52 Rating, Deduct		-4,547.61	
		For Class 54 Rating, Add		6,243.23	
		For Class 55 Rating, Add		9,303.14	
		For Class 56 Rating, Add		12,321.70	
40 05 19 00-0471	EA	36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	45,717.94	2,311.18
		For Class 52 Rating, Deduct		-4,643.78	
		For Class 54 Rating, Add		6,374.44	
		For Class 55 Rating, Add		9,498.24	
		For Class 56 Rating, Add		12,579.83	
40 05 19 00-0472	EA	36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	46,598.50	2,315.35
		For Class 52 Rating, Deduct		-4,739.94	
		For Class 54 Rating, Add		6,505.66	
		For Class 55 Rating, Add		9,693.35	
		For Class 56 Rating, Add		12,837.96	
40 05 19 00-0473	EA	36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	47,479.05	2,319.51
		For Class 52 Rating, Deduct		-4,836.11	
		For Class 54 Rating, Add		6,636.87	
		For Class 55 Rating, Add		9,888.46	
		For Class 56 Rating, Add		13,096.09	
40 05 19 00-0474	EA	36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	48,359.61	2,323.67
		For Class 52 Rating, Deduct		-4,932.28	
		For Class 54 Rating, Add		6,768.08	
		For Class 55 Rating, Add		10,083.57	
		For Class 56 Rating, Add		13,354.22	
40 05 19 00-0475	EA	36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	49,240.16	2,327.84
		For Class 52 Rating, Deduct		-5,028.44	
		For Class 54 Rating, Add		6,899.29	
		For Class 55 Rating, Add		10,278.68	
		For Class 56 Rating, Add		13,612.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0476			42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0477	EA		42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,982.64	2,740.11
			For Class 52 Rating, Deduct	-1,961.41	
			For Class 54 Rating, Add	2,724.46	
			For Class 55 Rating, Add	4,075.94	
			For Class 56 Rating, Add	5,409.59	
40 05 19 00-0478	EA		42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,295.11	2,744.27
			For Class 52 Rating, Deduct	-2,105.08	
			For Class 54 Rating, Add	2,920.46	
			For Class 55 Rating, Add	4,367.37	
			For Class 56 Rating, Add	5,795.14	
40 05 19 00-0479	EA		42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,591.96	2,748.43
			For Class 52 Rating, Deduct	-2,247.04	
			For Class 54 Rating, Add	3,114.12	
			For Class 55 Rating, Add	4,655.31	
			For Class 56 Rating, Add	6,176.08	
40 05 19 00-0480	EA		42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,901.84	2,752.60
			For Class 52 Rating, Deduct	-2,390.44	
			For Class 54 Rating, Add	3,309.73	
			For Class 55 Rating, Add	4,946.16	
			For Class 56 Rating, Add	6,560.86	
40 05 19 00-0481	EA		42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,198.70	2,756.76
			For Class 52 Rating, Deduct	-2,532.40	
			For Class 54 Rating, Add	3,503.39	
			For Class 55 Rating, Add	5,234.11	
			For Class 56 Rating, Add	6,941.80	
40 05 19 00-0482	EA		42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,511.17	2,760.93
			For Class 52 Rating, Deduct	-2,676.07	
			For Class 54 Rating, Add	3,699.39	
			For Class 55 Rating, Add	5,525.53	
			For Class 56 Rating, Add	7,327.34	
40 05 19 00-0483	EA		42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,805.42	2,765.09
			For Class 52 Rating, Deduct	-2,817.75	
			For Class 54 Rating, Add	3,892.66	
			For Class 55 Rating, Add	5,812.89	
			For Class 56 Rating, Add	7,707.51	
40 05 19 00-0484	EA		42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,117.91	2,769.25
			For Class 52 Rating, Deduct	-2,961.43	
			For Class 54 Rating, Add	4,088.66	
			For Class 55 Rating, Add	6,104.32	
			For Class 56 Rating, Add	8,093.06	
40 05 19 00-0485	EA		42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,414.77	2,773.42
			For Class 52 Rating, Deduct	-3,103.39	
			For Class 54 Rating, Add	4,282.32	
			For Class 55 Rating, Add	6,392.27	
			For Class 56 Rating, Add	8,474.00	
40 05 19 00-0486	EA		42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,724.64	2,777.58
			For Class 52 Rating, Deduct	-3,246.78	
			For Class 54 Rating, Add	4,477.93	
			For Class 55 Rating, Add	6,683.11	
			For Class 56 Rating, Add	8,858.78	
40 05 19 00-0487	EA		42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,021.50	2,781.75
			For Class 52 Rating, Deduct	-3,388.74	
			For Class 54 Rating, Add	4,671.59	
			For Class 55 Rating, Add	6,971.06	
			For Class 56 Rating, Add	9,239.72	
40 05 19 00-0488	EA		42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,331.36	2,785.91
			For Class 52 Rating, Deduct	-3,532.13	
			For Class 54 Rating, Add	4,867.20	
			For Class 55 Rating, Add	7,261.90	
			For Class 56 Rating, Add	9,624.49	
40 05 19 00-0489	EA		42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,628.23	2,790.07
			For Class 52 Rating, Deduct	-3,674.09	
			For Class 54 Rating, Add	5,060.86	
			For Class 55 Rating, Add	7,549.85	
			For Class 56 Rating, Add	10,005.44	
40 05 19 00-0490	EA		42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,927.70	2,794.24
			For Class 52 Rating, Deduct	-3,816.34	
			For Class 54 Rating, Add	5,254.90	
			For Class 55 Rating, Add	7,838.37	
			For Class 56 Rating, Add	10,387.14	
40 05 19 00-0491	EA		42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,234.97	2,798.41
			For Class 52 Rating, Deduct	-3,959.45	
			For Class 54 Rating, Add	5,450.12	
			For Class 55 Rating, Add	8,128.64	
			For Class 56 Rating, Add	10,771.15	
40 05 19 00-0492	EA		42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,531.83	2,802.57
			For Class 52 Rating, Deduct	-4,101.41	
			For Class 54 Rating, Add	5,643.78	
			For Class 55 Rating, Add	8,416.58	
			For Class 56 Rating, Add	11,152.09	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0493	EA	42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,844.30	2,806.73
		For Class 52 Rating, Deduct	-4,245.08	
		For Class 54 Rating, Add	5,839.78	
		For Class 55 Rating, Add	8,708.01	
		For Class 56 Rating, Add	11,537.64	
40 05 19 00-0494	EA	42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,141.16	2,810.90
		For Class 52 Rating, Deduct	-4,387.05	
		For Class 54 Rating, Add	6,033.44	
		For Class 55 Rating, Add	8,995.95	
		For Class 56 Rating, Add	11,918.58	
40 05 19 00-0495	EA	42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,451.03	2,815.06
		For Class 52 Rating, Deduct	-4,530.44	
		For Class 54 Rating, Add	6,229.05	
		For Class 55 Rating, Add	9,286.80	
		For Class 56 Rating, Add	12,303.36	
40 05 19 00-0496	EA	42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,747.90	2,819.23
		For Class 52 Rating, Deduct	-4,672.40	
		For Class 54 Rating, Add	6,422.71	
		For Class 55 Rating, Add	9,574.74	
		For Class 56 Rating, Add	12,684.30	
40 05 19 00-0497	EA	42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,060.38	2,823.39
		For Class 52 Rating, Deduct	-4,816.08	
		For Class 54 Rating, Add	6,618.71	
		For Class 55 Rating, Add	9,866.17	
		For Class 56 Rating, Add	13,069.84	
40 05 19 00-0498	EA	42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,357.23	2,827.55
		For Class 52 Rating, Deduct	-4,958.04	
		For Class 54 Rating, Add	6,812.37	
		For Class 55 Rating, Add	10,154.11	
		For Class 56 Rating, Add	13,450.78	
40 05 19 00-0499	EA	42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,667.10	2,831.72
		For Class 52 Rating, Deduct	-5,101.43	
		For Class 54 Rating, Add	7,007.98	
		For Class 55 Rating, Add	10,444.96	
		For Class 56 Rating, Add	13,835.56	
40 05 19 00-0500	EA	42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,963.96	2,835.88
		For Class 52 Rating, Deduct	-5,243.39	
		For Class 54 Rating, Add	7,201.64	
		For Class 55 Rating, Add	10,732.90	
		For Class 56 Rating, Add	14,216.50	
40 05 19 00-0501	EA	42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,276.44	2,840.05
		For Class 52 Rating, Deduct	-5,387.07	
		For Class 54 Rating, Add	7,397.64	
		For Class 55 Rating, Add	11,024.33	
		For Class 56 Rating, Add	14,602.05	
40 05 19 00-0502	EA	42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,573.30	2,844.21
		For Class 52 Rating, Deduct	-5,529.03	
		For Class 54 Rating, Add	7,591.30	
		For Class 55 Rating, Add	11,312.27	
		For Class 56 Rating, Add	14,982.99	
40 05 19 00-0503	EA	42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,880.57	2,848.37
		For Class 52 Rating, Deduct	-5,672.13	
		For Class 54 Rating, Add	7,786.52	
		For Class 55 Rating, Add	11,602.54	
		For Class 56 Rating, Add	15,367.00	
40 05 19 00-0504	EA	42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,180.03	2,852.54
		For Class 52 Rating, Deduct	-5,814.38	
		For Class 54 Rating, Add	7,980.56	
		For Class 55 Rating, Add	11,891.06	
		For Class 56 Rating, Add	15,748.70	
40 05 19 00-0505	EA	42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,216.71	2,856.71
		For Class 52 Rating, Deduct	-5,927.72	
		For Class 54 Rating, Add	8,135.20	
		For Class 55 Rating, Add	12,120.99	
		For Class 56 Rating, Add	16,052.89	
40 05 19 00-0506	EA	42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,786.77	2,860.87
		For Class 52 Rating, Deduct	-6,099.73	
		For Class 54 Rating, Add	8,369.83	
		For Class 55 Rating, Add	12,469.85	
		For Class 56 Rating, Add	16,514.42	
40 05 19 00-0507	EA	42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,083.63	2,865.03
		For Class 52 Rating, Deduct	-6,241.69	
		For Class 54 Rating, Add	8,563.49	
		For Class 55 Rating, Add	12,757.80	
		For Class 56 Rating, Add	16,895.36	
40 05 19 00-0508	EA	42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	62,393.49	2,869.20
		For Class 52 Rating, Deduct	-6,385.09	
		For Class 54 Rating, Add	8,759.10	
		For Class 55 Rating, Add	13,048.64	
		For Class 56 Rating, Add	17,280.14	
40 05 19 00-0509	EA	42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	63,690.37	2,873.36
		For Class 52 Rating, Deduct	-6,527.05	
		For Class 54 Rating, Add	8,952.76	
		For Class 55 Rating, Add	13,336.59	
		For Class 56 Rating, Add	17,661.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0510	EA	42"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	65,002.84	2,877.53
			For Class 52 Rating, Deduct	-6,670.72	
			For Class 54 Rating, Add	9,148.76	
			For Class 55 Rating, Add	13,628.02	
			For Class 56 Rating, Add	18,046.63	
40 05 19 00-0511	EA	42"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	66,297.10	2,881.69
			For Class 52 Rating, Deduct	-6,812.40	
			For Class 54 Rating, Add	9,342.03	
			For Class 55 Rating, Add	13,915.38	
			For Class 56 Rating, Add	18,426.80	
40 05 19 00-0512	EA	42"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	67,609.57	2,885.85
			For Class 52 Rating, Deduct	-6,956.08	
			For Class 54 Rating, Add	9,538.03	
			For Class 55 Rating, Add	14,206.80	
			For Class 56 Rating, Add	18,812.34	
40 05 19 00-0513	EA	42"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	68,906.43	2,890.02
			For Class 52 Rating, Deduct	-7,098.04	
			For Class 54 Rating, Add	9,731.69	
			For Class 55 Rating, Add	14,494.75	
			For Class 56 Rating, Add	19,193.29	
40 05 19 00-0514	EA	42"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	70,216.30	2,894.18
			For Class 52 Rating, Deduct	-7,241.43	
			For Class 54 Rating, Add	9,927.30	
			For Class 55 Rating, Add	14,785.60	
			For Class 56 Rating, Add	19,578.06	
40 05 19 00-0515			48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0516	EA	48"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,573.68	3,443.86
			For Class 52 Rating, Deduct	-2,459.13	
			For Class 54 Rating, Add	3,415.97	
			For Class 55 Rating, Add	5,110.55	
			For Class 56 Rating, Add	6,782.78	
40 05 19 00-0517	EA	48"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,481.99	3,448.03
			For Class 52 Rating, Deduct	-2,668.35	
			For Class 54 Rating, Add	3,701.35	
			For Class 55 Rating, Add	5,534.85	
			For Class 56 Rating, Add	7,344.10	
40 05 19 00-0518	EA	48"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,387.70	3,452.20
			For Class 52 Rating, Deduct	-2,877.28	
			For Class 54 Rating, Add	3,986.33	
			For Class 55 Rating, Add	5,958.57	
			For Class 56 Rating, Add	7,904.65	
40 05 19 00-0519	EA	48"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,309.03	3,456.36
			For Class 52 Rating, Deduct	-3,087.93	
			For Class 54 Rating, Add	4,273.66	
			For Class 55 Rating, Add	6,385.77	
			For Class 56 Rating, Add	8,469.80	
40 05 19 00-0520	EA	48"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,217.34	3,460.53
			For Class 52 Rating, Deduct	-3,297.15	
			For Class 54 Rating, Add	4,559.04	
			For Class 55 Rating, Add	6,810.07	
			For Class 56 Rating, Add	9,031.12	
40 05 19 00-0521	EA	48"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,125.65	3,464.69
			For Class 52 Rating, Deduct	-3,506.37	
			For Class 54 Rating, Add	4,844.41	
			For Class 55 Rating, Add	7,234.36	
			For Class 56 Rating, Add	9,592.44	
40 05 19 00-0522	EA	48"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,044.37	3,468.85
			For Class 52 Rating, Deduct	-3,716.74	
			For Class 54 Rating, Add	5,131.35	
			For Class 55 Rating, Add	7,660.98	
			For Class 56 Rating, Add	10,156.83	
40 05 19 00-0523	EA	48"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,955.29	3,473.02
			For Class 52 Rating, Deduct	-3,926.25	
			For Class 54 Rating, Add	5,417.12	
			For Class 55 Rating, Add	8,085.86	
			For Class 56 Rating, Add	10,718.91	
40 05 19 00-0524	EA	48"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,861.00	3,477.19
			For Class 52 Rating, Deduct	-4,135.18	
			For Class 54 Rating, Add	5,702.10	
			For Class 55 Rating, Add	8,509.58	
			For Class 56 Rating, Add	11,279.46	
40 05 19 00-0525	EA	48"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,782.32	3,481.35
			For Class 52 Rating, Deduct	-4,345.83	
			For Class 54 Rating, Add	5,989.43	
			For Class 55 Rating, Add	8,936.78	
			For Class 56 Rating, Add	11,844.62	
40 05 19 00-0526	EA	48"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,690.64	3,485.51
			For Class 52 Rating, Deduct	-4,555.05	
			For Class 54 Rating, Add	6,274.81	
			For Class 55 Rating, Add	9,361.08	
			For Class 56 Rating, Add	12,405.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0527	EA		48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,611.96	3,489.68
			For Class 52 Rating, Deduct	-4,765.70	
			For Class 54 Rating, Add	6,562.13	
			For Class 55 Rating, Add	9,788.28	
			For Class 56 Rating, Add	12,971.09	
40 05 19 00-0528	EA		48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,517.67	3,493.84
			For Class 52 Rating, Deduct	-4,974.64	
			For Class 54 Rating, Add	6,847.12	
			For Class 55 Rating, Add	10,211.99	
			For Class 56 Rating, Add	13,531.64	
40 05 19 00-0529	EA		48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,425.99	3,498.01
			For Class 52 Rating, Deduct	-5,183.86	
			For Class 54 Rating, Add	7,132.50	
			For Class 55 Rating, Add	10,636.29	
			For Class 56 Rating, Add	14,092.96	
40 05 19 00-0530	EA		48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,347.30	3,502.16
			For Class 52 Rating, Deduct	-5,394.51	
			For Class 54 Rating, Add	7,419.82	
			For Class 55 Rating, Add	11,063.49	
			For Class 56 Rating, Add	14,658.12	
40 05 19 00-0531	EA		48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,255.61	3,506.33
			For Class 52 Rating, Deduct	-5,603.73	
			For Class 54 Rating, Add	7,705.20	
			For Class 55 Rating, Add	11,487.79	
			For Class 56 Rating, Add	15,219.44	
40 05 19 00-0532	EA		48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,161.33	3,510.50
			For Class 52 Rating, Deduct	-5,812.66	
			For Class 54 Rating, Add	7,990.19	
			For Class 55 Rating, Add	11,911.51	
			For Class 56 Rating, Add	15,779.99	
40 05 19 00-0533	EA		48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,082.66	3,514.66
			For Class 52 Rating, Deduct	-6,023.32	
			For Class 54 Rating, Add	8,277.51	
			For Class 55 Rating, Add	12,338.71	
			For Class 56 Rating, Add	16,345.14	
40 05 19 00-0534	EA		48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,990.97	3,518.83
			For Class 52 Rating, Deduct	-6,232.54	
			For Class 54 Rating, Add	8,562.89	
			For Class 55 Rating, Add	12,763.01	
			For Class 56 Rating, Add	16,906.46	
40 05 19 00-0535	EA		48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	63,896.67	3,522.99
			For Class 52 Rating, Deduct	-6,441.47	
			For Class 54 Rating, Add	8,847.88	
			For Class 55 Rating, Add	13,186.72	
			For Class 56 Rating, Add	17,467.01	
40 05 19 00-0536	EA		48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	65,817.99	3,527.15
			For Class 52 Rating, Deduct	-6,652.12	
			For Class 54 Rating, Add	9,135.20	
			For Class 55 Rating, Add	13,613.92	
			For Class 56 Rating, Add	18,032.17	
40 05 19 00-0537	EA		48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	67,728.91	3,531.32
			For Class 52 Rating, Deduct	-6,861.63	
			For Class 54 Rating, Add	9,420.97	
			For Class 55 Rating, Add	14,038.80	
			For Class 56 Rating, Add	18,594.25	
40 05 19 00-0538	EA		48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	69,634.63	3,535.49
			For Class 52 Rating, Deduct	-7,070.56	
			For Class 54 Rating, Add	9,705.96	
			For Class 55 Rating, Add	14,462.52	
			For Class 56 Rating, Add	19,154.80	
40 05 19 00-0539	EA		48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	71,555.95	3,539.65
			For Class 52 Rating, Deduct	-7,281.21	
			For Class 54 Rating, Add	9,993.28	
			For Class 55 Rating, Add	14,889.72	
			For Class 56 Rating, Add	19,719.96	
40 05 19 00-0540	EA		48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	73,464.26	3,543.81
			For Class 52 Rating, Deduct	-7,490.43	
			For Class 54 Rating, Add	10,278.66	
			For Class 55 Rating, Add	15,314.02	
			For Class 56 Rating, Add	20,281.28	
40 05 19 00-0541	EA		48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	75,369.97	3,547.98
			For Class 52 Rating, Deduct	-7,699.37	
			For Class 54 Rating, Add	10,563.65	
			For Class 55 Rating, Add	15,737.74	
			For Class 56 Rating, Add	20,841.83	
40 05 19 00-0542	EA		48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	77,291.29	3,552.14
			For Class 52 Rating, Deduct	-7,910.02	
			For Class 54 Rating, Add	10,850.97	
			For Class 55 Rating, Add	16,164.93	
			For Class 56 Rating, Add	21,406.98	
40 05 19 00-0543	EA		48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	79,199.61	3,556.31
			For Class 52 Rating, Deduct	-8,119.24	
			For Class 54 Rating, Add	11,136.35	
			For Class 55 Rating, Add	16,589.23	
			For Class 56 Rating, Add	21,968.30	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0544	EA		48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	80,873.76	3,560.46
			For Class 52 Rating, Deduct	-8,302.70	
			For Class 54 Rating, Add	11,386.60	
			For Class 55 Rating, Add	16,961.31	
			For Class 56 Rating, Add	22,460.54	
40 05 19 00-0545	EA		48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	83,029.24	3,564.63
			For Class 52 Rating, Deduct	-8,539.11	
			For Class 54 Rating, Add	11,709.05	
			For Class 55 Rating, Add	17,440.73	
			For Class 56 Rating, Add	23,094.78	
40 05 19 00-0546	EA		48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	84,934.95	3,568.80
			For Class 52 Rating, Deduct	-8,748.04	
			For Class 54 Rating, Add	11,994.04	
			For Class 55 Rating, Add	17,864.45	
			For Class 56 Rating, Add	23,655.33	
40 05 19 00-0547	EA		48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	86,858.88	3,572.96
			For Class 52 Rating, Deduct	-8,958.98	
			For Class 54 Rating, Add	12,281.76	
			For Class 55 Rating, Add	18,292.23	
			For Class 56 Rating, Add	24,221.25	
40 05 19 00-0548	EA		48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	88,764.59	3,577.13
			For Class 52 Rating, Deduct	-9,167.92	
			For Class 54 Rating, Add	12,566.74	
			For Class 55 Rating, Add	18,715.95	
			For Class 56 Rating, Add	24,781.80	
40 05 19 00-0549	EA		48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	90,670.29	3,581.29
			For Class 52 Rating, Deduct	-9,376.85	
			For Class 54 Rating, Add	12,851.73	
			For Class 55 Rating, Add	19,139.66	
			For Class 56 Rating, Add	25,342.35	
40 05 19 00-0550	EA		48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	92,594.22	3,585.45
			For Class 52 Rating, Deduct	-9,587.79	
			For Class 54 Rating, Add	13,139.45	
			For Class 55 Rating, Add	19,567.44	
			For Class 56 Rating, Add	25,908.28	
40 05 19 00-0551	EA		48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	94,499.94	3,589.62
			For Class 52 Rating, Deduct	-9,796.72	
			For Class 54 Rating, Add	13,424.43	
			For Class 55 Rating, Add	19,991.16	
			For Class 56 Rating, Add	26,468.83	
40 05 19 00-0552	EA		48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	96,408.25	3,593.79
			For Class 52 Rating, Deduct	-10,005.94	
			For Class 54 Rating, Add	13,709.81	
			For Class 55 Rating, Add	20,415.46	
			For Class 56 Rating, Add	27,030.15	
40 05 19 00-0553	EA		48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	98,329.58	3,597.94
			For Class 52 Rating, Deduct	-10,216.60	
			For Class 54 Rating, Add	13,997.14	
			For Class 55 Rating, Add	20,842.66	
			For Class 56 Rating, Add	27,595.30	
40 05 19 00-0554			Flanged End x Grooved End (FxG), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0001)		
40 05 19 00-0555			4" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0556	EA		4" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	731.06	190.56
			For Class 52 Rating, Deduct	-48.66	
			For Class 54 Rating, Add	69.81	
			For Class 55 Rating, Add	105.57	
			For Class 56 Rating, Add	140.88	
40 05 19 00-0557	EA		4" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	803.75	193.89
			For Class 52 Rating, Deduct	-56.10	
			For Class 54 Rating, Add	80.02	
			For Class 55 Rating, Add	120.78	
			For Class 56 Rating, Add	161.02	
40 05 19 00-0558	EA		4" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	876.45	197.23
			For Class 52 Rating, Deduct	-63.54	
			For Class 54 Rating, Add	90.23	
			For Class 55 Rating, Add	135.98	
			For Class 56 Rating, Add	181.16	
40 05 19 00-0559	EA		4" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	949.15	200.55
			For Class 52 Rating, Deduct	-70.98	
			For Class 54 Rating, Add	100.44	
			For Class 55 Rating, Add	151.19	
			For Class 56 Rating, Add	201.30	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-0560	EA	4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,021.85		203.89
		For Class 52 Rating, Deduct		-78.42		
		For Class 54 Rating, Add		110.65		
		For Class 55 Rating, Add		166.40		
		For Class 56 Rating, Add		221.44		
40 05 19 00-0561	EA	4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,094.54		207.22
		For Class 52 Rating, Deduct		-85.86		
		For Class 54 Rating, Add		120.85		
		For Class 55 Rating, Add		181.60		
		For Class 56 Rating, Add		241.57		
40 05 19 00-0562	EA	4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,167.24		210.55
		For Class 52 Rating, Deduct		-93.31		
		For Class 54 Rating, Add		131.06		
		For Class 55 Rating, Add		196.81		
		For Class 56 Rating, Add		261.71		
40 05 19 00-0563	EA	4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,239.94		213.88
		For Class 52 Rating, Deduct		-100.75		
		For Class 54 Rating, Add		141.27		
		For Class 55 Rating, Add		212.02		
		For Class 56 Rating, Add		281.85		
40 05 19 00-0564	EA	4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,312.63		217.21
		For Class 52 Rating, Deduct		-108.19		
		For Class 54 Rating, Add		151.48		
		For Class 55 Rating, Add		227.23		
		For Class 56 Rating, Add		301.99		
40 05 19 00-0565	EA	4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,385.34		220.54
		For Class 52 Rating, Deduct		-115.63		
		For Class 54 Rating, Add		161.69		
		For Class 55 Rating, Add		242.43		
		For Class 56 Rating, Add		322.13		
40 05 19 00-0566	EA	4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,458.03		223.88
		For Class 52 Rating, Deduct		-123.07		
		For Class 54 Rating, Add		171.89		
		For Class 55 Rating, Add		257.64		
		For Class 56 Rating, Add		342.27		
40 05 19 00-0567	EA	4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,530.73		227.20
		For Class 52 Rating, Deduct		-130.51		
		For Class 54 Rating, Add		182.10		
		For Class 55 Rating, Add		272.85		
		For Class 56 Rating, Add		362.40		
40 05 19 00-0568	EA	4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,603.43		230.54
		For Class 52 Rating, Deduct		-137.95		
		For Class 54 Rating, Add		192.31		
		For Class 55 Rating, Add		288.05		
		For Class 56 Rating, Add		382.54		
40 05 19 00-0569	EA	4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,676.12		233.87
		For Class 52 Rating, Deduct		-145.40		
		For Class 54 Rating, Add		202.52		
		For Class 55 Rating, Add		303.26		
		For Class 56 Rating, Add		402.68		
40 05 19 00-0570	EA	4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,748.82		237.20
		For Class 52 Rating, Deduct		-152.84		
		For Class 54 Rating, Add		212.73		
		For Class 55 Rating, Add		318.47		
		For Class 56 Rating, Add		422.82		
40 05 19 00-0571	EA	4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,821.52		240.53
		For Class 52 Rating, Deduct		-160.28		
		For Class 54 Rating, Add		222.94		
		For Class 55 Rating, Add		333.68		
		For Class 56 Rating, Add		442.96		
40 05 19 00-0572	EA	4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,894.22		243.86
		For Class 52 Rating, Deduct		-167.72		
		For Class 54 Rating, Add		233.14		
		For Class 55 Rating, Add		348.88		
		For Class 56 Rating, Add		463.10		
40 05 19 00-0573	EA	4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,966.91		247.19
		For Class 52 Rating, Deduct		-175.16		
		For Class 54 Rating, Add		243.35		
		For Class 55 Rating, Add		364.09		
		For Class 56 Rating, Add		483.24		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0574	EA		4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,039.61	250.53
			For Class 52 Rating, Deduct	-182.60	
			For Class 54 Rating, Add	253.56	
			For Class 55 Rating, Add	379.29	
			For Class 56 Rating, Add	503.37	
40 05 19 00-0575	EA		4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,112.30	253.85
			For Class 52 Rating, Deduct	-190.04	
			For Class 54 Rating, Add	263.77	
			For Class 55 Rating, Add	394.50	
			For Class 56 Rating, Add	523.51	
40 05 19 00-0576	EA		4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,185.00	257.19
			For Class 52 Rating, Deduct	-197.49	
			For Class 54 Rating, Add	273.97	
			For Class 55 Rating, Add	409.71	
			For Class 56 Rating, Add	543.65	
40 05 19 00-0577	EA		4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,257.69	260.53
			For Class 52 Rating, Deduct	-204.93	
			For Class 54 Rating, Add	284.18	
			For Class 55 Rating, Add	424.92	
			For Class 56 Rating, Add	563.79	
40 05 19 00-0578	EA		4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,330.39	263.85
			For Class 52 Rating, Deduct	-212.37	
			For Class 54 Rating, Add	294.39	
			For Class 55 Rating, Add	440.12	
			For Class 56 Rating, Add	583.92	
40 05 19 00-0579	EA		4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,403.09	267.19
			For Class 52 Rating, Deduct	-219.81	
			For Class 54 Rating, Add	304.60	
			For Class 55 Rating, Add	455.33	
			For Class 56 Rating, Add	604.06	
40 05 19 00-0580	EA		4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,475.78	270.51
			For Class 52 Rating, Deduct	-227.25	
			For Class 54 Rating, Add	314.81	
			For Class 55 Rating, Add	470.54	
			For Class 56 Rating, Add	624.20	
40 05 19 00-0581	EA		4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,548.49	273.85
			For Class 52 Rating, Deduct	-234.69	
			For Class 54 Rating, Add	325.01	
			For Class 55 Rating, Add	485.74	
			For Class 56 Rating, Add	644.34	
40 05 19 00-0582	EA		4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,621.18	277.18
			For Class 52 Rating, Deduct	-242.13	
			For Class 54 Rating, Add	335.22	
			For Class 55 Rating, Add	500.95	
			For Class 56 Rating, Add	664.48	
40 05 19 00-0583	EA		4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,693.88	280.51
			For Class 52 Rating, Deduct	-249.58	
			For Class 54 Rating, Add	345.43	
			For Class 55 Rating, Add	516.16	
			For Class 56 Rating, Add	684.62	
40 05 19 00-0584	EA		4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,766.58	283.84
			For Class 52 Rating, Deduct	-257.02	
			For Class 54 Rating, Add	355.64	
			For Class 55 Rating, Add	531.37	
			For Class 56 Rating, Add	704.76	
40 05 19 00-0585	EA		4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,839.27	287.18
			For Class 52 Rating, Deduct	-264.46	
			For Class 54 Rating, Add	365.85	
			For Class 55 Rating, Add	546.57	
			For Class 56 Rating, Add	724.89	
40 05 19 00-0586	EA		4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,911.97	290.50
			For Class 52 Rating, Deduct	-271.90	
			For Class 54 Rating, Add	376.05	
			For Class 55 Rating, Add	561.78	
			For Class 56 Rating, Add	745.03	
40 05 19 00-0587	EA		4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,984.67	293.84
			For Class 52 Rating, Deduct	-279.34	
			For Class 54 Rating, Add	386.26	
			For Class 55 Rating, Add	576.99	
			For Class 56 Rating, Add	765.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0588	EA	4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,057.37	297.16
		For Class 52 Rating, Deduct		-286.78	
		For Class 54 Rating, Add		396.47	
		For Class 55 Rating, Add		592.19	
		For Class 56 Rating, Add		785.31	
40 05 19 00-0589	EA	4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,130.06	300.50
		For Class 52 Rating, Deduct		-294.22	
		For Class 54 Rating, Add		406.68	
		For Class 55 Rating, Add		607.40	
		For Class 56 Rating, Add		805.45	
40 05 19 00-0590	EA	4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,202.77	303.83
		For Class 52 Rating, Deduct		-301.67	
		For Class 54 Rating, Add		416.89	
		For Class 55 Rating, Add		622.61	
		For Class 56 Rating, Add		825.59	
40 05 19 00-0591	EA	4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,275.46	307.16
		For Class 52 Rating, Deduct		-309.11	
		For Class 54 Rating, Add		427.10	
		For Class 55 Rating, Add		637.81	
		For Class 56 Rating, Add		845.72	
40 05 19 00-0592	EA	4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,348.16	310.49
		For Class 52 Rating, Deduct		-316.55	
		For Class 54 Rating, Add		437.30	
		For Class 55 Rating, Add		653.02	
		For Class 56 Rating, Add		865.86	
40 05 19 00-0593	EA	4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,420.86	313.83
		For Class 52 Rating, Deduct		-323.99	
		For Class 54 Rating, Add		447.51	
		For Class 55 Rating, Add		668.23	
		For Class 56 Rating, Add		886.00	
40 05 19 00-0594	EA	4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,493.55	317.15
		For Class 52 Rating, Deduct		-331.43	
		For Class 54 Rating, Add		457.72	
		For Class 55 Rating, Add		683.44	
		For Class 56 Rating, Add		906.14	
40 05 19 00-0595 6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0596	EA	6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		912.43	239.86
		For Class 52 Rating, Deduct		-60.39	
		For Class 54 Rating, Add		86.71	
		For Class 55 Rating, Add		131.15	
		For Class 56 Rating, Add		175.04	
40 05 19 00-0597	EA	6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,000.75	243.20
		For Class 52 Rating, Deduct		-69.55	
		For Class 54 Rating, Add		99.26	
		For Class 55 Rating, Add		149.84	
		For Class 56 Rating, Add		199.78	
40 05 19 00-0598	EA	6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,089.05	246.52
		For Class 52 Rating, Deduct		-78.71	
		For Class 54 Rating, Add		111.81	
		For Class 55 Rating, Add		168.53	
		For Class 56 Rating, Add		224.53	
40 05 19 00-0599	EA	6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,177.36	249.86
		For Class 52 Rating, Deduct		-87.87	
		For Class 54 Rating, Add		124.36	
		For Class 55 Rating, Add		187.22	
		For Class 56 Rating, Add		249.27	
40 05 19 00-0600	EA	6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,265.67	253.19
		For Class 52 Rating, Deduct		-97.03	
		For Class 54 Rating, Add		136.91	
		For Class 55 Rating, Add		205.90	
		For Class 56 Rating, Add		274.02	
40 05 19 00-0601	EA	6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,353.98	256.52
		For Class 52 Rating, Deduct		-106.18	
		For Class 54 Rating, Add		149.46	
		For Class 55 Rating, Add		224.59	
		For Class 56 Rating, Add		298.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0602	EA	6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,442.28	259.85
		For Class 52 Rating, Deduct		-115.34	
		For Class 54 Rating, Add		162.01	
		For Class 55 Rating, Add		243.28	
		For Class 56 Rating, Add		323.50	
40 05 19 00-0603	EA	6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,530.61	263.19
		For Class 52 Rating, Deduct		-124.50	
		For Class 54 Rating, Add		174.56	
		For Class 55 Rating, Add		261.97	
		For Class 56 Rating, Add		348.25	
40 05 19 00-0604	EA	6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,618.91	266.51
		For Class 52 Rating, Deduct		-133.66	
		For Class 54 Rating, Add		187.11	
		For Class 55 Rating, Add		280.66	
		For Class 56 Rating, Add		372.99	
40 05 19 00-0605	EA	6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,707.21	269.85
		For Class 52 Rating, Deduct		-142.82	
		For Class 54 Rating, Add		199.66	
		For Class 55 Rating, Add		299.35	
		For Class 56 Rating, Add		397.73	
40 05 19 00-0606	EA	6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,795.53	273.18
		For Class 52 Rating, Deduct		-151.98	
		For Class 54 Rating, Add		212.21	
		For Class 55 Rating, Add		318.04	
		For Class 56 Rating, Add		422.48	
40 05 19 00-0607	EA	6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,883.83	276.51
		For Class 52 Rating, Deduct		-161.14	
		For Class 54 Rating, Add		224.76	
		For Class 55 Rating, Add		336.72	
		For Class 56 Rating, Add		447.22	
40 05 19 00-0608	EA	6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,972.14	279.84
		For Class 52 Rating, Deduct		-170.30	
		For Class 54 Rating, Add		237.31	
		For Class 55 Rating, Add		355.41	
		For Class 56 Rating, Add		471.97	
40 05 19 00-0609	EA	6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,060.45	283.17
		For Class 52 Rating, Deduct		-179.45	
		For Class 54 Rating, Add		249.86	
		For Class 55 Rating, Add		374.10	
		For Class 56 Rating, Add		496.71	
40 05 19 00-0610	EA	6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,148.77	286.50
		For Class 52 Rating, Deduct		-188.61	
		For Class 54 Rating, Add		262.41	
		For Class 55 Rating, Add		392.79	
		For Class 56 Rating, Add		521.46	
40 05 19 00-0611	EA	6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,237.07	289.84
		For Class 52 Rating, Deduct		-197.77	
		For Class 54 Rating, Add		274.96	
		For Class 55 Rating, Add		411.48	
		For Class 56 Rating, Add		546.20	
40 05 19 00-0612	EA	6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,325.38	293.16
		For Class 52 Rating, Deduct		-206.93	
		For Class 54 Rating, Add		287.51	
		For Class 55 Rating, Add		430.17	
		For Class 56 Rating, Add		570.94	
40 05 19 00-0613	EA	6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,413.69	296.50
		For Class 52 Rating, Deduct		-216.09	
		For Class 54 Rating, Add		300.06	
		For Class 55 Rating, Add		448.85	
		For Class 56 Rating, Add		595.69	
40 05 19 00-0614	EA	6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,501.99	299.83
		For Class 52 Rating, Deduct		-225.25	
		For Class 54 Rating, Add		312.61	
		For Class 55 Rating, Add		467.54	
		For Class 56 Rating, Add		620.43	
40 05 19 00-0615	EA	6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,590.31	303.16
		For Class 52 Rating, Deduct		-234.41	
		For Class 54 Rating, Add		325.16	
		For Class 55 Rating, Add		486.23	
		For Class 56 Rating, Add		645.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0616	EA	6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	2,678.61		306.49
		For Class 52 Rating, Deduct	-243.57		
		For Class 54 Rating, Add	337.71		
		For Class 55 Rating, Add	504.92		
		For Class 56 Rating, Add	669.92		
40 05 19 00-0617	EA	6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	2,766.93		309.82
		For Class 52 Rating, Deduct	-252.73		
		For Class 54 Rating, Add	350.26		
		For Class 55 Rating, Add	523.61		
		For Class 56 Rating, Add	694.66		
40 05 19 00-0618	EA	6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	2,855.24		313.15
		For Class 52 Rating, Deduct	-261.88		
		For Class 54 Rating, Add	362.81		
		For Class 55 Rating, Add	542.30		
		For Class 56 Rating, Add	719.41		
40 05 19 00-0619	EA	6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	2,943.54		316.49
		For Class 52 Rating, Deduct	-271.04		
		For Class 54 Rating, Add	375.36		
		For Class 55 Rating, Add	560.98		
		For Class 56 Rating, Add	744.15		
40 05 19 00-0620	EA	6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,031.85		319.81
		For Class 52 Rating, Deduct	-280.20		
		For Class 54 Rating, Add	387.91		
		For Class 55 Rating, Add	579.67		
		For Class 56 Rating, Add	768.89		
40 05 19 00-0621	EA	6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,120.16		323.15
		For Class 52 Rating, Deduct	-289.36		
		For Class 54 Rating, Add	400.46		
		For Class 55 Rating, Add	598.36		
		For Class 56 Rating, Add	793.64		
40 05 19 00-0622	EA	6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,208.47		326.48
		For Class 52 Rating, Deduct	-298.52		
		For Class 54 Rating, Add	413.01		
		For Class 55 Rating, Add	617.05		
		For Class 56 Rating, Add	818.38		
40 05 19 00-0623	EA	6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,296.77		329.81
		For Class 52 Rating, Deduct	-307.68		
		For Class 54 Rating, Add	425.56		
		For Class 55 Rating, Add	635.74		
		For Class 56 Rating, Add	843.12		
40 05 19 00-0624	EA	6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,385.10		333.15
		For Class 52 Rating, Deduct	-316.84		
		For Class 54 Rating, Add	438.11		
		For Class 55 Rating, Add	654.43		
		For Class 56 Rating, Add	867.87		
40 05 19 00-0625	EA	6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,473.40		336.47
		For Class 52 Rating, Deduct	-325.99		
		For Class 54 Rating, Add	450.66		
		For Class 55 Rating, Add	673.12		
		For Class 56 Rating, Add	892.61		
40 05 19 00-0626	EA	6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,561.71		339.81
		For Class 52 Rating, Deduct	-335.15		
		For Class 54 Rating, Add	463.21		
		For Class 55 Rating, Add	691.80		
		For Class 56 Rating, Add	917.36		
40 05 19 00-0627	EA	6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,650.02		343.14
		For Class 52 Rating, Deduct	-344.31		
		For Class 54 Rating, Add	475.76		
		For Class 55 Rating, Add	710.49		
		For Class 56 Rating, Add	942.10		
40 05 19 00-0628	EA	6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,738.32		346.47
		For Class 52 Rating, Deduct	-353.47		
		For Class 54 Rating, Add	488.30		
		For Class 55 Rating, Add	729.18		
		For Class 56 Rating, Add	966.84		
40 05 19 00-0629	EA	6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,826.63		349.80
		For Class 52 Rating, Deduct	-362.63		
		For Class 54 Rating, Add	500.85		
		For Class 55 Rating, Add	747.87		
		For Class 56 Rating, Add	991.59		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0630	EA	6"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	3,914.94 -371.79 513.40 766.56 1,016.33	353.14
40 05 19 00-0631	EA	6"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,003.26 -380.95 525.96 785.25 1,041.08	356.46
40 05 19 00-0632	EA	6"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,091.56 -390.11 538.50 803.94 1,065.82	359.80
40 05 19 00-0633	EA	6"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,179.88 -399.26 551.05 822.62 1,090.56	363.12
40 05 19 00-0634	EA	6"	Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,268.18 -408.42 563.60 841.31 1,115.31	366.46
40 05 19 00-0635			8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0636	EA	8"	Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,265.77 -88.15 125.78 189.86 253.13	306.49
40 05 19 00-0637	EA	8"	Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,385.31 -100.75 143.02 215.51 287.08	309.82
40 05 19 00-0638	EA	8"	Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,504.84 -113.34 160.25 241.16 321.04	313.15
40 05 19 00-0639	EA	8"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,624.36 -125.93 177.48 266.81 354.99	316.49
40 05 19 00-0640	EA	8"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,743.90 -138.53 194.71 292.46 388.95	319.81
40 05 19 00-0641	EA	8"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,863.43 -151.12 211.95 318.11 422.90	323.15
40 05 19 00-0642	EA	8"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,982.97 -163.71 229.18 343.76 456.86	326.48
40 05 19 00-0643	EA	8"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	2,102.49 -176.31 246.41 369.41 490.81	329.81

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-0644	EA	8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,222.04		333.15
		For Class 52 Rating, Deduct		-188.90		
		For Class 54 Rating, Add		263.65		
		For Class 55 Rating, Add		395.07		
		For Class 56 Rating, Add		524.77		
40 05 19 00-0645	EA	8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,341.56		336.47
		For Class 52 Rating, Deduct		-201.49		
		For Class 54 Rating, Add		280.88		
		For Class 55 Rating, Add		420.72		
		For Class 56 Rating, Add		558.72		
40 05 19 00-0646	EA	8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,461.10		339.81
		For Class 52 Rating, Deduct		-214.09		
		For Class 54 Rating, Add		298.11		
		For Class 55 Rating, Add		446.37		
		For Class 56 Rating, Add		592.68		
40 05 19 00-0647	EA	8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,580.63		343.14
		For Class 52 Rating, Deduct		-226.68		
		For Class 54 Rating, Add		315.35		
		For Class 55 Rating, Add		472.02		
		For Class 56 Rating, Add		626.63		
40 05 19 00-0648	EA	8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,700.16		346.47
		For Class 52 Rating, Deduct		-239.27		
		For Class 54 Rating, Add		332.58		
		For Class 55 Rating, Add		497.67		
		For Class 56 Rating, Add		660.59		
40 05 19 00-0649	EA	8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,819.69		349.80
		For Class 52 Rating, Deduct		-251.87		
		For Class 54 Rating, Add		349.81		
		For Class 55 Rating, Add		523.32		
		For Class 56 Rating, Add		694.54		
40 05 19 00-0650	EA	8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,939.22		353.14
		For Class 52 Rating, Deduct		-264.46		
		For Class 54 Rating, Add		367.05		
		For Class 55 Rating, Add		548.97		
		For Class 56 Rating, Add		728.49		
40 05 19 00-0651	EA	8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,058.76		356.46
		For Class 52 Rating, Deduct		-277.05		
		For Class 54 Rating, Add		384.28		
		For Class 55 Rating, Add		574.62		
		For Class 56 Rating, Add		762.45		
40 05 19 00-0652	EA	8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,178.28		359.80
		For Class 52 Rating, Deduct		-289.65		
		For Class 54 Rating, Add		401.51		
		For Class 55 Rating, Add		600.27		
		For Class 56 Rating, Add		796.40		
40 05 19 00-0653	EA	8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,297.83		363.12
		For Class 52 Rating, Deduct		-302.24		
		For Class 54 Rating, Add		418.75		
		For Class 55 Rating, Add		625.93		
		For Class 56 Rating, Add		830.36		
40 05 19 00-0654	EA	8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,417.35		366.46
		For Class 52 Rating, Deduct		-314.83		
		For Class 54 Rating, Add		435.98		
		For Class 55 Rating, Add		651.58		
		For Class 56 Rating, Add		864.31		
40 05 19 00-0655	EA	8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,536.88		369.79
		For Class 52 Rating, Deduct		-327.43		
		For Class 54 Rating, Add		453.21		
		For Class 55 Rating, Add		677.23		
		For Class 56 Rating, Add		898.27		
40 05 19 00-0656	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,656.41		373.12
		For Class 52 Rating, Deduct		-340.02		
		For Class 54 Rating, Add		470.45		
		For Class 55 Rating, Add		702.88		
		For Class 56 Rating, Add		932.22		
40 05 19 00-0657	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,775.95		376.45
		For Class 52 Rating, Deduct		-352.61		
		For Class 54 Rating, Add		487.68		
		For Class 55 Rating, Add		728.53		
		For Class 56 Rating, Add		966.18		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0658	EA		8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,895.48	379.79
			For Class 52 Rating, Deduct	-365.21	
			For Class 54 Rating, Add	504.91	
			For Class 55 Rating, Add	754.18	
			For Class 56 Rating, Add	1,000.13	
40 05 19 00-0659	EA		8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,015.00	383.11
			For Class 52 Rating, Deduct	-377.80	
			For Class 54 Rating, Add	522.15	
			For Class 55 Rating, Add	779.83	
			For Class 56 Rating, Add	1,034.08	
40 05 19 00-0660	EA		8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,134.55	386.45
			For Class 52 Rating, Deduct	-390.39	
			For Class 54 Rating, Add	539.38	
			For Class 55 Rating, Add	805.48	
			For Class 56 Rating, Add	1,068.04	
40 05 19 00-0661	EA		8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,254.07	389.78
			For Class 52 Rating, Deduct	-402.99	
			For Class 54 Rating, Add	556.61	
			For Class 55 Rating, Add	831.13	
			For Class 56 Rating, Add	1,101.99	
40 05 19 00-0662	EA		8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,373.61	393.11
			For Class 52 Rating, Deduct	-415.58	
			For Class 54 Rating, Add	573.85	
			For Class 55 Rating, Add	856.79	
			For Class 56 Rating, Add	1,135.95	
40 05 19 00-0663	EA		8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,493.14	396.44
			For Class 52 Rating, Deduct	-428.17	
			For Class 54 Rating, Add	591.08	
			For Class 55 Rating, Add	882.44	
			For Class 56 Rating, Add	1,169.90	
40 05 19 00-0664	EA		8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,612.67	399.77
			For Class 52 Rating, Deduct	-440.77	
			For Class 54 Rating, Add	608.31	
			For Class 55 Rating, Add	908.09	
			For Class 56 Rating, Add	1,203.86	
40 05 19 00-0665	EA		8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,732.20	403.10
			For Class 52 Rating, Deduct	-453.36	
			For Class 54 Rating, Add	625.55	
			For Class 55 Rating, Add	933.74	
			For Class 56 Rating, Add	1,237.81	
40 05 19 00-0666	EA		8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,851.74	406.44
			For Class 52 Rating, Deduct	-465.95	
			For Class 54 Rating, Add	642.78	
			For Class 55 Rating, Add	959.39	
			For Class 56 Rating, Add	1,271.77	
40 05 19 00-0667	EA		8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,971.27	409.76
			For Class 52 Rating, Deduct	-478.55	
			For Class 54 Rating, Add	660.01	
			For Class 55 Rating, Add	985.04	
			For Class 56 Rating, Add	1,305.72	
40 05 19 00-0668	EA		8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,090.79	413.10
			For Class 52 Rating, Deduct	-491.14	
			For Class 54 Rating, Add	677.24	
			For Class 55 Rating, Add	1,010.69	
			For Class 56 Rating, Add	1,339.67	
40 05 19 00-0669	EA		8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,210.34	416.43
			For Class 52 Rating, Deduct	-503.73	
			For Class 54 Rating, Add	694.48	
			For Class 55 Rating, Add	1,036.34	
			For Class 56 Rating, Add	1,373.63	
40 05 19 00-0670	EA		8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,329.86	419.76
			For Class 52 Rating, Deduct	-516.32	
			For Class 54 Rating, Add	711.71	
			For Class 55 Rating, Add	1,061.99	
			For Class 56 Rating, Add	1,407.58	
40 05 19 00-0671	EA		8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,449.39	423.09
			For Class 52 Rating, Deduct	-528.92	
			For Class 54 Rating, Add	728.94	
			For Class 55 Rating, Add	1,087.65	
			For Class 56 Rating, Add	1,441.54	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0672	EA	8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		5,568.93	426.42
		For Class 52 Rating, Deduct		-541.51	
		For Class 54 Rating, Add		746.18	
		For Class 55 Rating, Add		1,113.30	
		For Class 56 Rating, Add		1,475.49	
40 05 19 00-0673	EA	8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		5,688.46	429.75
		For Class 52 Rating, Deduct		-554.11	
		For Class 54 Rating, Add		763.41	
		For Class 55 Rating, Add		1,138.95	
		For Class 56 Rating, Add		1,509.45	
40 05 19 00-0674	EA	8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		5,807.99	433.09
		For Class 52 Rating, Deduct		-566.70	
		For Class 54 Rating, Add		780.64	
		For Class 55 Rating, Add		1,164.60	
		For Class 56 Rating, Add		1,543.40	
40 05 19 00-0675 10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0676	EA	10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		1,590.49	373.12
		For Class 52 Rating, Deduct		-112.77	
		For Class 54 Rating, Add		160.56	
		For Class 55 Rating, Add		242.18	
		For Class 56 Rating, Add		322.77	
40 05 19 00-0677	EA	10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		1,746.45	376.45
		For Class 52 Rating, Deduct		-129.37	
		For Class 54 Rating, Add		183.26	
		For Class 55 Rating, Add		275.95	
		For Class 56 Rating, Add		367.47	
40 05 19 00-0678	EA	10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		1,902.41	379.79
		For Class 52 Rating, Deduct		-145.97	
		For Class 54 Rating, Add		205.95	
		For Class 55 Rating, Add		309.73	
		For Class 56 Rating, Add		412.17	
40 05 19 00-0679	EA	10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		2,058.36	383.11
		For Class 52 Rating, Deduct		-162.57	
		For Class 54 Rating, Add		228.65	
		For Class 55 Rating, Add		343.50	
		For Class 56 Rating, Add		456.87	
40 05 19 00-0680	EA	10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		2,214.33	386.45
		For Class 52 Rating, Deduct		-179.17	
		For Class 54 Rating, Add		251.35	
		For Class 55 Rating, Add		377.28	
		For Class 56 Rating, Add		501.58	
40 05 19 00-0681	EA	10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		2,370.28	389.78
		For Class 52 Rating, Deduct		-195.77	
		For Class 54 Rating, Add		274.04	
		For Class 55 Rating, Add		411.05	
		For Class 56 Rating, Add		546.27	
40 05 19 00-0682	EA	10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		2,526.24	393.11
		For Class 52 Rating, Deduct		-212.37	
		For Class 54 Rating, Add		296.74	
		For Class 55 Rating, Add		444.82	
		For Class 56 Rating, Add		590.98	
40 05 19 00-0683	EA	10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		2,682.21	396.44
		For Class 52 Rating, Deduct		-228.97	
		For Class 54 Rating, Add		319.44	
		For Class 55 Rating, Add		478.60	
		For Class 56 Rating, Add		635.68	
40 05 19 00-0684	EA	10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		2,838.16	399.77
		For Class 52 Rating, Deduct		-245.57	
		For Class 54 Rating, Add		342.14	
		For Class 55 Rating, Add		512.37	
		For Class 56 Rating, Add		660.38	
40 05 19 00-0685	EA	10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		2,994.12	403.10
		For Class 52 Rating, Deduct		-262.17	
		For Class 54 Rating, Add		364.83	
		For Class 55 Rating, Add		546.15	
		For Class 56 Rating, Add		725.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0686	EA	10"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,150.08	406.44
			For Class 52 Rating, Deduct	-278.77	
			For Class 54 Rating, Add	387.53	
			For Class 55 Rating, Add	579.92	
			For Class 56 Rating, Add	769.78	
40 05 19 00-0687	EA	10"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,306.04	409.76
			For Class 52 Rating, Deduct	-295.37	
			For Class 54 Rating, Add	410.23	
			For Class 55 Rating, Add	613.70	
			For Class 56 Rating, Add	814.48	
40 05 19 00-0688	EA	10"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,461.99	413.10
			For Class 52 Rating, Deduct	-311.97	
			For Class 54 Rating, Add	432.92	
			For Class 55 Rating, Add	647.47	
			For Class 56 Rating, Add	859.18	
40 05 19 00-0689	EA	10"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,617.96	416.43
			For Class 52 Rating, Deduct	-328.57	
			For Class 54 Rating, Add	455.62	
			For Class 55 Rating, Add	681.24	
			For Class 56 Rating, Add	903.88	
40 05 19 00-0690	EA	10"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,773.92	419.76
			For Class 52 Rating, Deduct	-345.17	
			For Class 54 Rating, Add	478.32	
			For Class 55 Rating, Add	715.02	
			For Class 56 Rating, Add	948.58	
40 05 19 00-0691	EA	10"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,929.87	423.09
			For Class 52 Rating, Deduct	-361.77	
			For Class 54 Rating, Add	501.02	
			For Class 55 Rating, Add	748.79	
			For Class 56 Rating, Add	993.28	
40 05 19 00-0692	EA	10"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,085.84	426.42
			For Class 52 Rating, Deduct	-378.37	
			For Class 54 Rating, Add	523.71	
			For Class 55 Rating, Add	782.57	
			For Class 56 Rating, Add	1,037.98	
40 05 19 00-0693	EA	10"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,241.79	429.75
			For Class 52 Rating, Deduct	-394.97	
			For Class 54 Rating, Add	546.41	
			For Class 55 Rating, Add	816.34	
			For Class 56 Rating, Add	1,082.68	
40 05 19 00-0694	EA	10"	Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,397.75	433.09
			For Class 52 Rating, Deduct	-411.57	
			For Class 54 Rating, Add	569.11	
			For Class 55 Rating, Add	850.12	
			For Class 56 Rating, Add	1,127.38	
40 05 19 00-0695	EA	10"	Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,553.71	436.41
			For Class 52 Rating, Deduct	-428.17	
			For Class 54 Rating, Add	591.81	
			For Class 55 Rating, Add	883.89	
			For Class 56 Rating, Add	1,172.08	
40 05 19 00-0696	EA	10"	Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,709.67	439.75
			For Class 52 Rating, Deduct	-444.77	
			For Class 54 Rating, Add	614.50	
			For Class 55 Rating, Add	917.66	
			For Class 56 Rating, Add	1,216.78	
40 05 19 00-0697	EA	10"	Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,865.63	443.09
			For Class 52 Rating, Deduct	-461.37	
			For Class 54 Rating, Add	637.20	
			For Class 55 Rating, Add	951.44	
			For Class 56 Rating, Add	1,261.49	
40 05 19 00-0698	EA	10"	Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,021.60	446.41
			For Class 52 Rating, Deduct	-477.97	
			For Class 54 Rating, Add	659.90	
			For Class 55 Rating, Add	985.22	
			For Class 56 Rating, Add	1,306.19	
40 05 19 00-0699	EA	10"	Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,177.55	449.75
			For Class 52 Rating, Deduct	-494.57	
			For Class 54 Rating, Add	682.60	
			For Class 55 Rating, Add	1,018.99	
			For Class 56 Rating, Add	1,350.89	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA	10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,333.50	453.07
		For Class 52 Rating, Deduct		-511.17	
		For Class 54 Rating, Add		705.29	
		For Class 55 Rating, Add		1,052.76	
		For Class 56 Rating, Add		1,395.59	
40 05 19 00-0701	EA	10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,489.47	456.41
		For Class 52 Rating, Deduct		-527.77	
		For Class 54 Rating, Add		727.99	
		For Class 55 Rating, Add		1,086.54	
		For Class 56 Rating, Add		1,440.29	
40 05 19 00-0702	EA	10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,645.42	459.74
		For Class 52 Rating, Deduct		-544.37	
		For Class 54 Rating, Add		750.69	
		For Class 55 Rating, Add		1,120.31	
		For Class 56 Rating, Add		1,484.99	
40 05 19 00-0703	EA	10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,801.38	463.07
		For Class 52 Rating, Deduct		-560.97	
		For Class 54 Rating, Add		773.38	
		For Class 55 Rating, Add		1,154.09	
		For Class 56 Rating, Add		1,529.69	
40 05 19 00-0704	EA	10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,957.34	466.40
		For Class 52 Rating, Deduct		-577.57	
		For Class 54 Rating, Add		796.08	
		For Class 55 Rating, Add		1,187.86	
		For Class 56 Rating, Add		1,574.39	
40 05 19 00-0705	EA	10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,113.31	469.74
		For Class 52 Rating, Deduct		-594.17	
		For Class 54 Rating, Add		818.78	
		For Class 55 Rating, Add		1,221.64	
		For Class 56 Rating, Add		1,619.09	
40 05 19 00-0706	EA	10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,269.26	473.06
		For Class 52 Rating, Deduct		-610.78	
		For Class 54 Rating, Add		841.48	
		For Class 55 Rating, Add		1,255.41	
		For Class 56 Rating, Add		1,663.79	
40 05 19 00-0707	EA	10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,425.22	476.40
		For Class 52 Rating, Deduct		-627.38	
		For Class 54 Rating, Add		864.17	
		For Class 55 Rating, Add		1,289.18	
		For Class 56 Rating, Add		1,708.49	
40 05 19 00-0708	EA	10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,581.18	479.72
		For Class 52 Rating, Deduct		-643.98	
		For Class 54 Rating, Add		886.87	
		For Class 55 Rating, Add		1,322.96	
		For Class 56 Rating, Add		1,753.19	
40 05 19 00-0709	EA	10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,737.13	483.06
		For Class 52 Rating, Deduct		-660.58	
		For Class 54 Rating, Add		909.57	
		For Class 55 Rating, Add		1,356.73	
		For Class 56 Rating, Add		1,797.89	
40 05 19 00-0710	EA	10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,893.10	486.39
		For Class 52 Rating, Deduct		-677.18	
		For Class 54 Rating, Add		932.26	
		For Class 55 Rating, Add		1,390.51	
		For Class 56 Rating, Add		1,842.59	
40 05 19 00-0711	EA	10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,049.05	489.72
		For Class 52 Rating, Deduct		-693.78	
		For Class 54 Rating, Add		954.96	
		For Class 55 Rating, Add		1,424.28	
		For Class 56 Rating, Add		1,887.29	
40 05 19 00-0712	EA	10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,205.02	493.05
		For Class 52 Rating, Deduct		-710.38	
		For Class 54 Rating, Add		977.66	
		For Class 55 Rating, Add		1,458.06	
		For Class 56 Rating, Add		1,931.99	
40 05 19 00-0713	EA	10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,360.98	496.39
		For Class 52 Rating, Deduct		-726.98	
		For Class 54 Rating, Add		1,000.36	
		For Class 55 Rating, Add		1,491.83	
		For Class 56 Rating, Add		1,976.70	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0714	EA		10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,516.94	499.71
			For Class 52 Rating, Deduct.....	-743.58	
			For Class 54 Rating, Add.....	1,023.05	
			For Class 55 Rating, Add.....	1,525.60	
			For Class 56 Rating, Add.....	2,021.40	
40 05 19 00-0715			12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0716	EA		12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,064.87	466.40
			For Class 52 Rating, Deduct.....	-149.40	
			For Class 54 Rating, Add.....	212.21	
			For Class 55 Rating, Add.....	319.84	
			For Class 56 Rating, Add.....	426.11	
40 05 19 00-0717	EA		12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,259.86	469.74
			For Class 52 Rating, Deduct.....	-170.30	
			For Class 54 Rating, Add.....	240.76	
			For Class 55 Rating, Add.....	362.32	
			For Class 56 Rating, Add.....	482.32	
40 05 19 00-0718	EA		12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,454.84	473.06
			For Class 52 Rating, Deduct.....	-191.19	
			For Class 54 Rating, Add.....	269.31	
			For Class 55 Rating, Add.....	404.79	
			For Class 56 Rating, Add.....	538.54	
40 05 19 00-0719	EA		12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,649.83	476.40
			For Class 52 Rating, Deduct.....	-212.08	
			For Class 54 Rating, Add.....	297.86	
			For Class 55 Rating, Add.....	447.27	
			For Class 56 Rating, Add.....	594.75	
40 05 19 00-0720	EA		12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,844.82	479.72
			For Class 52 Rating, Deduct.....	-232.98	
			For Class 54 Rating, Add.....	326.42	
			For Class 55 Rating, Add.....	489.75	
			For Class 56 Rating, Add.....	650.97	
40 05 19 00-0721	EA		12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,039.80	483.06
			For Class 52 Rating, Deduct.....	-253.87	
			For Class 54 Rating, Add.....	354.97	
			For Class 55 Rating, Add.....	532.23	
			For Class 56 Rating, Add.....	707.18	
40 05 19 00-0722	EA		12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,234.80	486.39
			For Class 52 Rating, Deduct.....	-274.76	
			For Class 54 Rating, Add.....	383.52	
			For Class 55 Rating, Add.....	574.71	
			For Class 56 Rating, Add.....	763.39	
40 05 19 00-0723	EA		12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,429.78	489.72
			For Class 52 Rating, Deduct.....	-295.66	
			For Class 54 Rating, Add.....	412.07	
			For Class 55 Rating, Add.....	617.18	
			For Class 56 Rating, Add.....	819.61	
40 05 19 00-0724	EA		12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,624.77	493.05
			For Class 52 Rating, Deduct.....	-316.55	
			For Class 54 Rating, Add.....	440.62	
			For Class 55 Rating, Add.....	659.66	
			For Class 56 Rating, Add.....	875.82	
40 05 19 00-0725	EA		12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,819.76	496.39
			For Class 52 Rating, Deduct.....	-337.44	
			For Class 54 Rating, Add.....	469.17	
			For Class 55 Rating, Add.....	702.14	
			For Class 56 Rating, Add.....	932.04	
40 05 19 00-0726	EA		12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,014.75	499.71
			For Class 52 Rating, Deduct.....	-358.34	
			For Class 54 Rating, Add.....	497.73	
			For Class 55 Rating, Add.....	744.62	
			For Class 56 Rating, Add.....	988.25	
40 05 19 00-0727	EA		12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,209.73	503.05
			For Class 52 Rating, Deduct.....	-379.23	
			For Class 54 Rating, Add.....	526.28	
			For Class 55 Rating, Add.....	787.09	
			For Class 56 Rating, Add.....	1,044.46	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0728	EA	12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,404.72	506.37
		For Class 52 Rating, Deduct		-400.12	
		For Class 54 Rating, Add		554.83	
		For Class 55 Rating, Add		829.57	
		For Class 56 Rating, Add		1,100.68	
40 05 19 00-0729	EA	12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,599.71	509.71
		For Class 52 Rating, Deduct		-421.02	
		For Class 54 Rating, Add		583.38	
		For Class 55 Rating, Add		872.05	
		For Class 56 Rating, Add		1,156.89	
40 05 19 00-0730	EA	12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,794.69	513.04
		For Class 52 Rating, Deduct		-441.91	
		For Class 54 Rating, Add		611.93	
		For Class 55 Rating, Add		914.53	
		For Class 56 Rating, Add		1,213.11	
40 05 19 00-0731	EA	12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,989.69	516.37
		For Class 52 Rating, Deduct		-462.80	
		For Class 54 Rating, Add		640.48	
		For Class 55 Rating, Add		957.01	
		For Class 56 Rating, Add		1,269.32	
40 05 19 00-0732	EA	12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,184.67	519.70
		For Class 52 Rating, Deduct		-483.70	
		For Class 54 Rating, Add		669.04	
		For Class 55 Rating, Add		999.48	
		For Class 56 Rating, Add		1,325.53	
40 05 19 00-0733	EA	12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,379.66	523.04
		For Class 52 Rating, Deduct		-504.59	
		For Class 54 Rating, Add		697.59	
		For Class 55 Rating, Add		1,041.96	
		For Class 56 Rating, Add		1,381.75	
40 05 19 00-0734	EA	12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,574.65	526.36
		For Class 52 Rating, Deduct		-525.48	
		For Class 54 Rating, Add		726.14	
		For Class 55 Rating, Add		1,084.44	
		For Class 56 Rating, Add		1,437.96	
40 05 19 00-0735	EA	12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,769.64	529.70
		For Class 52 Rating, Deduct		-546.38	
		For Class 54 Rating, Add		754.69	
		For Class 55 Rating, Add		1,126.92	
		For Class 56 Rating, Add		1,494.18	
40 05 19 00-0736	EA	12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,964.63	533.03
		For Class 52 Rating, Deduct		-567.27	
		For Class 54 Rating, Add		783.24	
		For Class 55 Rating, Add		1,169.40	
		For Class 56 Rating, Add		1,550.39	
40 05 19 00-0737	EA	12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,159.61	536.36
		For Class 52 Rating, Deduct		-588.16	
		For Class 54 Rating, Add		811.79	
		For Class 55 Rating, Add		1,211.87	
		For Class 56 Rating, Add		1,606.61	
40 05 19 00-0738	EA	12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,354.61	539.69
		For Class 52 Rating, Deduct		-609.06	
		For Class 54 Rating, Add		840.35	
		For Class 55 Rating, Add		1,254.35	
		For Class 56 Rating, Add		1,662.82	
40 05 19 00-0739	EA	12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,549.59	543.02
		For Class 52 Rating, Deduct		-629.95	
		For Class 54 Rating, Add		868.90	
		For Class 55 Rating, Add		1,296.83	
		For Class 56 Rating, Add		1,719.03	
40 05 19 00-0740	EA	12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,744.58	546.35
		For Class 52 Rating, Deduct		-650.84	
		For Class 54 Rating, Add		897.45	
		For Class 55 Rating, Add		1,339.31	
		For Class 56 Rating, Add		1,775.25	
40 05 19 00-0741	EA	12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,939.57	549.69
		For Class 52 Rating, Deduct		-671.74	
		For Class 54 Rating, Add		926.00	
		For Class 55 Rating, Add		1,381.78	
		For Class 56 Rating, Add		1,831.46	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-0742	EA	12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,134.55	553.02
		For Class 52 Rating, Deduct	-692.63	
		For Class 54 Rating, Add	954.55	
		For Class 55 Rating, Add	1,424.26	
		For Class 56 Rating, Add	1,887.68	
40 05 19 00-0743	EA	12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,329.54	556.35
		For Class 52 Rating, Deduct	-713.52	
		For Class 54 Rating, Add	983.10	
		For Class 55 Rating, Add	1,466.74	
		For Class 56 Rating, Add	1,943.89	
40 05 19 00-0744	EA	12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,524.53	559.69
		For Class 52 Rating, Deduct	-734.42	
		For Class 54 Rating, Add	1,011.66	
		For Class 55 Rating, Add	1,509.22	
		For Class 56 Rating, Add	2,000.10	
40 05 19 00-0745	EA	12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,719.52	563.01
		For Class 52 Rating, Deduct	-755.31	
		For Class 54 Rating, Add	1,040.21	
		For Class 55 Rating, Add	1,551.70	
		For Class 56 Rating, Add	2,056.32	
40 05 19 00-0746	EA	12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,914.50	566.35
		For Class 52 Rating, Deduct	-776.21	
		For Class 54 Rating, Add	1,068.76	
		For Class 55 Rating, Add	1,594.17	
		For Class 56 Rating, Add	2,112.53	
40 05 19 00-0747	EA	12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,109.50	569.67
		For Class 52 Rating, Deduct	-797.10	
		For Class 54 Rating, Add	1,097.31	
		For Class 55 Rating, Add	1,636.65	
		For Class 56 Rating, Add	2,168.75	
40 05 19 00-0748	EA	12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,304.48	573.01
		For Class 52 Rating, Deduct	-817.99	
		For Class 54 Rating, Add	1,125.86	
		For Class 55 Rating, Add	1,679.13	
		For Class 56 Rating, Add	2,224.96	
40 05 19 00-0749	EA	12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,499.47	576.34
		For Class 52 Rating, Deduct	-838.89	
		For Class 54 Rating, Add	1,154.41	
		For Class 55 Rating, Add	1,721.61	
		For Class 56 Rating, Add	2,281.17	
40 05 19 00-0750	EA	12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,694.46	579.67
		For Class 52 Rating, Deduct	-859.78	
		For Class 54 Rating, Add	1,182.96	
		For Class 55 Rating, Add	1,764.08	
		For Class 56 Rating, Add	2,337.39	
40 05 19 00-0751	EA	12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,889.44	583.00
		For Class 52 Rating, Deduct	-880.67	
		For Class 54 Rating, Add	1,211.52	
		For Class 55 Rating, Add	1,806.56	
		For Class 56 Rating, Add	2,393.60	
40 05 19 00-0752	EA	12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,084.43	586.34
		For Class 52 Rating, Deduct	-901.57	
		For Class 54 Rating, Add	1,240.07	
		For Class 55 Rating, Add	1,849.04	
		For Class 56 Rating, Add	2,449.82	
40 05 19 00-0753	EA	12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,279.42	589.66
		For Class 52 Rating, Deduct	-922.46	
		For Class 54 Rating, Add	1,268.62	
		For Class 55 Rating, Add	1,891.52	
		For Class 56 Rating, Add	2,506.03	
40 05 19 00-0754	EA	12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,474.41	593.00
		For Class 52 Rating, Deduct	-943.35	
		For Class 54 Rating, Add	1,297.17	
		For Class 55 Rating, Add	1,934.00	
		For Class 56 Rating, Add	2,562.24	

40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined,
Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0756	EA	14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	2,877.50		559.69
		For Class 52 Rating, Deduct	-223.25		
		For Class 54 Rating, Add	314.60		
		For Class 55 Rating, Add	472.93		
		For Class 56 Rating, Add	629.23		
40 05 19 00-0757	EA	14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,114.12		563.01
		For Class 52 Rating, Deduct	-248.72		
		For Class 54 Rating, Add	349.40		
		For Class 55 Rating, Add	524.69		
		For Class 56 Rating, Add	697.73		
40 05 19 00-0758	EA	14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,350.73		566.35
		For Class 52 Rating, Deduct	-274.19		
		For Class 54 Rating, Add	384.19		
		For Class 55 Rating, Add	576.45		
		For Class 56 Rating, Add	766.22		
40 05 19 00-0759	EA	14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,587.36		569.67
		For Class 52 Rating, Deduct	-299.66		
		For Class 54 Rating, Add	418.99		
		For Class 55 Rating, Add	628.21		
		For Class 56 Rating, Add	834.72		
40 05 19 00-0760	EA	14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,823.97		573.01
		For Class 52 Rating, Deduct	-325.14		
		For Class 54 Rating, Add	453.79		
		For Class 55 Rating, Add	679.98		
		For Class 56 Rating, Add	903.21		
40 05 19 00-0761	EA	14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	4,060.59		576.34
		For Class 52 Rating, Deduct	-350.61		
		For Class 54 Rating, Add	488.58		
		For Class 55 Rating, Add	731.74		
		For Class 56 Rating, Add	971.70		
40 05 19 00-0762	EA	14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	4,297.21		579.67
		For Class 52 Rating, Deduct	-376.08		
		For Class 54 Rating, Add	523.38		
		For Class 55 Rating, Add	783.50		
		For Class 56 Rating, Add	1,040.20		
40 05 19 00-0763	EA	14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	4,533.82		583.00
		For Class 52 Rating, Deduct	-401.55		
		For Class 54 Rating, Add	558.17		
		For Class 55 Rating, Add	835.26		
		For Class 56 Rating, Add	1,108.69		
40 05 19 00-0764	EA	14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	4,770.44		586.34
		For Class 52 Rating, Deduct	-427.03		
		For Class 54 Rating, Add	592.97		
		For Class 55 Rating, Add	887.02		
		For Class 56 Rating, Add	1,177.19		
40 05 19 00-0765	EA	14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	5,007.07		589.66
		For Class 52 Rating, Deduct	-452.50		
		For Class 54 Rating, Add	627.77		
		For Class 55 Rating, Add	938.78		
		For Class 56 Rating, Add	1,245.69		
40 05 19 00-0766	EA	14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	5,243.69		593.00
		For Class 52 Rating, Deduct	-477.97		
		For Class 54 Rating, Add	662.56		
		For Class 55 Rating, Add	990.55		
		For Class 56 Rating, Add	1,314.18		
40 05 19 00-0767	EA	14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	5,480.30		596.32
		For Class 52 Rating, Deduct	-503.45		
		For Class 54 Rating, Add	697.36		
		For Class 55 Rating, Add	1,042.31		
		For Class 56 Rating, Add	1,382.68		
40 05 19 00-0768	EA	14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	5,716.93		599.66
		For Class 52 Rating, Deduct	-528.92		
		For Class 54 Rating, Add	732.16		
		For Class 55 Rating, Add	1,094.07		
		For Class 56 Rating, Add	1,451.17		
40 05 19 00-0769	EA	14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	5,953.54		602.99
		For Class 52 Rating, Deduct	-554.39		
		For Class 54 Rating, Add	766.95		
		For Class 55 Rating, Add	1,145.83		
		For Class 56 Rating, Add	1,519.67		



MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST
40 05 19 00-0770	EA	14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,190.15	606.32
		For Class 52 Rating, Deduct		-579.86	
		For Class 54 Rating, Add		801.75	
		For Class 55 Rating, Add		1,197.59	
		For Class 56 Rating, Add		1,588.16	
40 05 19 00-0771	EA	14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,426.78	609.65
		For Class 52 Rating, Deduct		-605.34	
		For Class 54 Rating, Add		836.54	
		For Class 55 Rating, Add		1,249.35	
		For Class 56 Rating, Add		1,656.66	
40 05 19 00-0772	EA	14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,663.39	612.99
		For Class 52 Rating, Deduct		-630.81	
		For Class 54 Rating, Add		871.34	
		For Class 55 Rating, Add		1,301.11	
		For Class 56 Rating, Add		1,725.15	
40 05 19 00-0773	EA	14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,900.01	616.31
		For Class 52 Rating, Deduct		-656.28	
		For Class 54 Rating, Add		906.14	
		For Class 55 Rating, Add		1,352.87	
		For Class 56 Rating, Add		1,793.65	
40 05 19 00-0774	EA	14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,136.63	619.65
		For Class 52 Rating, Deduct		-681.75	
		For Class 54 Rating, Add		940.93	
		For Class 55 Rating, Add		1,404.64	
		For Class 56 Rating, Add		1,862.14	
40 05 19 00-0775	EA	14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,373.25	622.97
		For Class 52 Rating, Deduct		-707.23	
		For Class 54 Rating, Add		975.73	
		For Class 55 Rating, Add		1,456.40	
		For Class 56 Rating, Add		1,930.64	
40 05 19 00-0776	EA	14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,609.87	626.31
		For Class 52 Rating, Deduct		-732.70	
		For Class 54 Rating, Add		1,010.53	
		For Class 55 Rating, Add		1,508.16	
		For Class 56 Rating, Add		1,999.13	
40 05 19 00-0777	EA	14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,846.50	629.64
		For Class 52 Rating, Deduct		-758.17	
		For Class 54 Rating, Add		1,045.32	
		For Class 55 Rating, Add		1,559.92	
		For Class 56 Rating, Add		2,067.63	
40 05 19 00-0778	EA	14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,083.11	632.97
		For Class 52 Rating, Deduct		-783.65	
		For Class 54 Rating, Add		1,080.12	
		For Class 55 Rating, Add		1,611.68	
		For Class 56 Rating, Add		2,136.12	
40 05 19 00-0779	EA	14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,319.72	636.30
		For Class 52 Rating, Deduct		-809.12	
		For Class 54 Rating, Add		1,114.91	
		For Class 55 Rating, Add		1,663.44	
		For Class 56 Rating, Add		2,204.62	
40 05 19 00-0780	EA	14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,556.35	639.64
		For Class 52 Rating, Deduct		-834.59	
		For Class 54 Rating, Add		1,149.71	
		For Class 55 Rating, Add		1,715.21	
		For Class 56 Rating, Add		2,273.11	
40 05 19 00-0781	EA	14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,792.96	642.96
		For Class 52 Rating, Deduct		-860.06	
		For Class 54 Rating, Add		1,184.51	
		For Class 55 Rating, Add		1,766.97	
		For Class 56 Rating, Add		2,341.61	
40 05 19 00-0782	EA	14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,029.58	646.30
		For Class 52 Rating, Deduct		-885.54	
		For Class 54 Rating, Add		1,219.30	
		For Class 55 Rating, Add		1,818.73	
		For Class 56 Rating, Add		2,410.10	
40 05 19 00-0783	EA	14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,266.20	649.63
		For Class 52 Rating, Deduct		-911.01	
		For Class 54 Rating, Add		1,254.10	
		For Class 55 Rating, Add		1,870.49	
		For Class 56 Rating, Add		2,478.60	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0784	EA	14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,502.82	652.96
		For Class 52 Rating, Deduct		-936.48	
		For Class 54 Rating, Add		1,288.89	
		For Class 55 Rating, Add		1,922.25	
		For Class 56 Rating, Add		2,547.09	
40 05 19 00-0785	EA	14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,739.43	656.29
		For Class 52 Rating, Deduct		-961.96	
		For Class 54 Rating, Add		1,323.69	
		For Class 55 Rating, Add		1,974.01	
		For Class 56 Rating, Add		2,615.59	
40 05 19 00-0786	EA	14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,976.05	659.62
		For Class 52 Rating, Deduct		-987.43	
		For Class 54 Rating, Add		1,358.49	
		For Class 55 Rating, Add		2,025.77	
		For Class 56 Rating, Add		2,684.08	
40 05 19 00-0787	EA	14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,212.67	662.95
		For Class 52 Rating, Deduct		-1,012.90	
		For Class 54 Rating, Add		1,393.28	
		For Class 55 Rating, Add		2,077.53	
		For Class 56 Rating, Add		2,752.58	
40 05 19 00-0788	EA	14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,449.29	666.29
		For Class 52 Rating, Deduct		-1,038.37	
		For Class 54 Rating, Add		1,428.08	
		For Class 55 Rating, Add		2,129.30	
		For Class 56 Rating, Add		2,821.07	
40 05 19 00-0789	EA	14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,685.91	669.62
		For Class 52 Rating, Deduct		-1,063.85	
		For Class 54 Rating, Add		1,462.88	
		For Class 55 Rating, Add		2,181.06	
		For Class 56 Rating, Add		2,889.57	
40 05 19 00-0790	EA	14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,922.53	672.95
		For Class 52 Rating, Deduct		-1,089.32	
		For Class 54 Rating, Add		1,497.67	
		For Class 55 Rating, Add		2,232.82	
		For Class 56 Rating, Add		2,958.06	
40 05 19 00-0791	EA	14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,159.15	676.29
		For Class 52 Rating, Deduct		-1,114.79	
		For Class 54 Rating, Add		1,532.47	
		For Class 55 Rating, Add		2,284.58	
		For Class 56 Rating, Add		3,026.56	
40 05 19 00-0792	EA	14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,395.76	679.61
		For Class 52 Rating, Deduct		-1,140.27	
		For Class 54 Rating, Add		1,567.26	
		For Class 55 Rating, Add		2,336.34	
		For Class 56 Rating, Add		3,095.05	
40 05 19 00-0793	EA	14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,632.39	682.95
		For Class 52 Rating, Deduct		-1,165.74	
		For Class 54 Rating, Add		1,602.06	
		For Class 55 Rating, Add		2,388.10	
		For Class 56 Rating, Add		3,163.55	
40 05 19 00-0794		16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)			
40 05 19 00-0795	EA	16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,370.72	639.64
		For Class 52 Rating, Deduct		-264.17	
		For Class 54 Rating, Add		371.87	
		For Class 55 Rating, Add		558.81	
		For Class 56 Rating, Add		743.35	
40 05 19 00-0796	EA	16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,646.36	642.96
		For Class 52 Rating, Deduct		-293.94	
		For Class 54 Rating, Add		412.52	
		For Class 55 Rating, Add		619.27	
		For Class 56 Rating, Add		823.36	
40 05 19 00-0797	EA	16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,922.01	646.30
		For Class 52 Rating, Deduct		-323.70	
		For Class 54 Rating, Add		453.17	
		For Class 55 Rating, Add		679.74	
		For Class 56 Rating, Add		903.37	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0798	EA	16"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,197.66	649.63
			For Class 52 Rating, Deduct	-353.47	
			For Class 54 Rating, Add	493.82	
			For Class 55 Rating, Add	740.20	
			For Class 56 Rating, Add	983.38	
40 05 19 00-0799	EA	16"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,473.31	652.96
			For Class 52 Rating, Deduct	-383.24	
			For Class 54 Rating, Add	534.47	
			For Class 55 Rating, Add	800.67	
			For Class 56 Rating, Add	1,063.39	
40 05 19 00-0800	EA	16"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,748.95	656.29
			For Class 52 Rating, Deduct	-413.00	
			For Class 54 Rating, Add	575.12	
			For Class 55 Rating, Add	861.13	
			For Class 56 Rating, Add	1,143.40	
40 05 19 00-0801	EA	16"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,024.60	659.62
			For Class 52 Rating, Deduct	-442.77	
			For Class 54 Rating, Add	615.77	
			For Class 55 Rating, Add	921.60	
			For Class 56 Rating, Add	1,223.40	
40 05 19 00-0802	EA	16"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,300.25	662.95
			For Class 52 Rating, Deduct	-472.53	
			For Class 54 Rating, Add	656.42	
			For Class 55 Rating, Add	982.06	
			For Class 56 Rating, Add	1,303.41	
40 05 19 00-0803	EA	16"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,575.89	666.29
			For Class 52 Rating, Deduct	-502.30	
			For Class 54 Rating, Add	697.07	
			For Class 55 Rating, Add	1,042.53	
			For Class 56 Rating, Add	1,383.42	
40 05 19 00-0804	EA	16"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,825.52	669.62
			For Class 52 Rating, Deduct	-529.20	
			For Class 54 Rating, Add	733.82	
			For Class 55 Rating, Add	1,097.19	
			For Class 56 Rating, Add	1,455.75	
40 05 19 00-0805	EA	16"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,127.19	672.95
			For Class 52 Rating, Deduct	-561.63	
			For Class 54 Rating, Add	778.37	
			For Class 55 Rating, Add	1,163.46	
			For Class 56 Rating, Add	1,543.44	
40 05 19 00-0806	EA	16"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,402.84	676.29
			For Class 52 Rating, Deduct	-591.60	
			For Class 54 Rating, Add	819.02	
			For Class 55 Rating, Add	1,223.92	
			For Class 56 Rating, Add	1,623.45	
40 05 19 00-0807	EA	16"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,678.48	679.61
			For Class 52 Rating, Deduct	-621.36	
			For Class 54 Rating, Add	859.67	
			For Class 55 Rating, Add	1,284.39	
			For Class 56 Rating, Add	1,703.46	
40 05 19 00-0808	EA	16"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,954.14	682.95
			For Class 52 Rating, Deduct	-651.13	
			For Class 54 Rating, Add	900.32	
			For Class 55 Rating, Add	1,344.85	
			For Class 56 Rating, Add	1,783.47	
40 05 19 00-0809	EA	16"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,229.78	686.27
			For Class 52 Rating, Deduct	-680.90	
			For Class 54 Rating, Add	940.97	
			For Class 55 Rating, Add	1,405.32	
			For Class 56 Rating, Add	1,863.47	
40 05 19 00-0810	EA	16"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,505.42	689.61
			For Class 52 Rating, Deduct	-710.66	
			For Class 54 Rating, Add	981.62	
			For Class 55 Rating, Add	1,465.78	
			For Class 56 Rating, Add	1,943.48	
40 05 19 00-0811	EA	16"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,781.08	692.94
			For Class 52 Rating, Deduct	-740.43	
			For Class 54 Rating, Add	1,022.27	
			For Class 55 Rating, Add	1,526.25	
			For Class 56 Rating, Add	2,023.49	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0812	EA	16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,056.72	696.27
		For Class 52 Rating, Deduct		-770.19	
		For Class 54 Rating, Add		1,062.92	
		For Class 55 Rating, Add		1,586.71	
		For Class 56 Rating, Add		2,103.50	
40 05 19 00-0813	EA	16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,332.37	699.60
		For Class 52 Rating, Deduct		-799.96	
		For Class 54 Rating, Add		1,103.58	
		For Class 55 Rating, Add		1,647.18	
		For Class 56 Rating, Add		2,183.51	
40 05 19 00-0814	EA	16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,608.02	702.94
		For Class 52 Rating, Deduct		-829.73	
		For Class 54 Rating, Add		1,144.23	
		For Class 55 Rating, Add		1,707.64	
		For Class 56 Rating, Add		2,263.52	
40 05 19 00-0815	EA	16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,883.67	706.26
		For Class 52 Rating, Deduct		-859.49	
		For Class 54 Rating, Add		1,184.88	
		For Class 55 Rating, Add		1,768.11	
		For Class 56 Rating, Add		2,343.53	
40 05 19 00-0816	EA	16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,159.31	709.60
		For Class 52 Rating, Deduct		-889.26	
		For Class 54 Rating, Add		1,225.53	
		For Class 55 Rating, Add		1,828.57	
		For Class 56 Rating, Add		2,423.54	
40 05 19 00-0817	EA	16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,434.96	712.92
		For Class 52 Rating, Deduct		-919.02	
		For Class 54 Rating, Add		1,266.18	
		For Class 55 Rating, Add		1,889.04	
		For Class 56 Rating, Add		2,503.54	
40 05 19 00-0818	EA	16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,710.60	716.26
		For Class 52 Rating, Deduct		-948.79	
		For Class 54 Rating, Add		1,306.83	
		For Class 55 Rating, Add		1,949.50	
		For Class 56 Rating, Add		2,583.55	
40 05 19 00-0819	EA	16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,986.24	719.59
		For Class 52 Rating, Deduct		-978.56	
		For Class 54 Rating, Add		1,347.48	
		For Class 55 Rating, Add		2,009.97	
		For Class 56 Rating, Add		2,663.56	
40 05 19 00-0820	EA	16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,261.90	722.92
		For Class 52 Rating, Deduct		-1,008.32	
		For Class 54 Rating, Add		1,388.13	
		For Class 55 Rating, Add		2,070.43	
		For Class 56 Rating, Add		2,743.57	
40 05 19 00-0821	EA	16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,537.54	726.25
		For Class 52 Rating, Deduct		-1,038.09	
		For Class 54 Rating, Add		1,428.78	
		For Class 55 Rating, Add		2,130.90	
		For Class 56 Rating, Add		2,823.58	
40 05 19 00-0822	EA	16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,813.19	729.59
		For Class 52 Rating, Deduct		-1,067.85	
		For Class 54 Rating, Add		1,469.43	
		For Class 55 Rating, Add		2,191.36	
		For Class 56 Rating, Add		2,903.58	
40 05 19 00-0823	EA	16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,088.84	732.91
		For Class 52 Rating, Deduct		-1,097.62	
		For Class 54 Rating, Add		1,510.08	
		For Class 55 Rating, Add		2,251.83	
		For Class 56 Rating, Add		2,983.59	
40 05 19 00-0824	EA	16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,364.49	736.25
		For Class 52 Rating, Deduct		-1,127.39	
		For Class 54 Rating, Add		1,550.73	
		For Class 55 Rating, Add		2,312.29	
		For Class 56 Rating, Add		3,063.60	
40 05 19 00-0825	EA	16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,640.13	739.57
		For Class 52 Rating, Deduct		-1,157.15	
		For Class 54 Rating, Add		1,591.38	
		For Class 55 Rating, Add		2,372.76	
		For Class 56 Rating, Add		3,143.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0826	EA	16"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,915.78	742.91
			For Class 52 Rating, Deduct	-1,186.92	
			For Class 54 Rating, Add	1,632.03	
			For Class 55 Rating, Add	2,433.22	
			For Class 56 Rating, Add	3,223.62	
40 05 19 00-0827	EA	16"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,191.43	746.24
			For Class 52 Rating, Deduct	-1,216.68	
			For Class 54 Rating, Add	1,672.68	
			For Class 55 Rating, Add	2,493.69	
			For Class 56 Rating, Add	3,303.63	
40 05 19 00-0828	EA	16"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,467.07	749.57
			For Class 52 Rating, Deduct	-1,246.45	
			For Class 54 Rating, Add	1,713.33	
			For Class 55 Rating, Add	2,554.15	
			For Class 56 Rating, Add	3,383.64	
40 05 19 00-0829	EA	16"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,742.73	752.90
			For Class 52 Rating, Deduct	-1,276.22	
			For Class 54 Rating, Add	1,753.98	
			For Class 55 Rating, Add	2,614.62	
			For Class 56 Rating, Add	3,463.65	
40 05 19 00-0830	EA	16"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,018.37	756.24
			For Class 52 Rating, Deduct	-1,305.98	
			For Class 54 Rating, Add	1,794.63	
			For Class 55 Rating, Add	2,675.08	
			For Class 56 Rating, Add	3,543.65	
40 05 19 00-0831	EA	16"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,294.02	759.56
			For Class 52 Rating, Deduct	-1,335.75	
			For Class 54 Rating, Add	1,835.28	
			For Class 55 Rating, Add	2,735.55	
			For Class 56 Rating, Add	3,623.66	
40 05 19 00-0832	EA	16"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,569.67	762.90
			For Class 52 Rating, Deduct	-1,365.51	
			For Class 54 Rating, Add	1,875.93	
			For Class 55 Rating, Add	2,796.01	
			For Class 56 Rating, Add	3,703.67	
40 05 19 00-0833			18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0834	EA	18"	Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,941.41	720.93
			For Class 52 Rating, Deduct	-313.40	
			For Class 54 Rating, Add	440.47	
			For Class 55 Rating, Add	661.56	
			For Class 56 Rating, Add	879.81	
40 05 19 00-0835	EA	18"	Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,258.69	724.25
			For Class 52 Rating, Deduct	-347.75	
			For Class 54 Rating, Add	487.37	
			For Class 55 Rating, Add	731.31	
			For Class 56 Rating, Add	972.10	
40 05 19 00-0836	EA	18"	Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,575.96	727.59
			For Class 52 Rating, Deduct	-382.09	
			For Class 54 Rating, Add	534.26	
			For Class 55 Rating, Add	801.06	
			For Class 56 Rating, Add	1,064.39	
40 05 19 00-0837	EA	18"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,893.23	730.92
			For Class 52 Rating, Deduct	-416.44	
			For Class 54 Rating, Add	581.16	
			For Class 55 Rating, Add	870.81	
			For Class 56 Rating, Add	1,156.68	
40 05 19 00-0838	EA	18"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,210.52	734.25
			For Class 52 Rating, Deduct	-450.78	
			For Class 54 Rating, Add	628.05	
			For Class 55 Rating, Add	940.56	
			For Class 56 Rating, Add	1,248.97	
40 05 19 00-0839	EA	18"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,527.79	737.58
			For Class 52 Rating, Deduct	-485.13	
			For Class 54 Rating, Add	674.95	
			For Class 55 Rating, Add	1,010.31	
			For Class 56 Rating, Add	1,341.26	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0840	EA	18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,845.07		740.92
		For Class 52 Rating, Deduct	-519.47		
		For Class 54 Rating, Add	721.84		
		For Class 55 Rating, Add	1,080.06		
		For Class 56 Rating, Add	1,433.54		
40 05 19 00-0841	EA	18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,162.36		744.25
		For Class 52 Rating, Deduct	-553.82		
		For Class 54 Rating, Add	768.74		
		For Class 55 Rating, Add	1,149.81		
		For Class 56 Rating, Add	1,525.84		
40 05 19 00-0842	EA	18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,479.64		747.58
		For Class 52 Rating, Deduct	-588.16		
		For Class 54 Rating, Add	815.63		
		For Class 55 Rating, Add	1,219.55		
		For Class 56 Rating, Add	1,618.13		
40 05 19 00-0843	EA	18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,796.91		750.91
		For Class 52 Rating, Deduct	-622.51		
		For Class 54 Rating, Add	862.53		
		For Class 55 Rating, Add	1,289.30		
		For Class 56 Rating, Add	1,710.42		
40 05 19 00-0844	EA	18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,114.19		754.24
		For Class 52 Rating, Deduct	-656.86		
		For Class 54 Rating, Add	909.42		
		For Class 55 Rating, Add	1,359.05		
		For Class 56 Rating, Add	1,802.71		
40 05 19 00-0845	EA	18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,431.47		757.58
		For Class 52 Rating, Deduct	-691.20		
		For Class 54 Rating, Add	956.32		
		For Class 55 Rating, Add	1,428.80		
		For Class 56 Rating, Add	1,895.00		
40 05 19 00-0846	EA	18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,748.74		760.90
		For Class 52 Rating, Deduct	-725.55		
		For Class 54 Rating, Add	1,003.21		
		For Class 55 Rating, Add	1,498.55		
		For Class 56 Rating, Add	1,987.28		
40 05 19 00-0847	EA	18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,066.03		764.24
		For Class 52 Rating, Deduct	-759.89		
		For Class 54 Rating, Add	1,050.11		
		For Class 55 Rating, Add	1,568.30		
		For Class 56 Rating, Add	2,079.57		
40 05 19 00-0848	EA	18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,383.30		767.57
		For Class 52 Rating, Deduct	-794.24		
		For Class 54 Rating, Add	1,097.01		
		For Class 55 Rating, Add	1,638.04		
		For Class 56 Rating, Add	2,171.86		
40 05 19 00-0849	EA	18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,700.58		770.90
		For Class 52 Rating, Deduct	-828.58		
		For Class 54 Rating, Add	1,143.90		
		For Class 55 Rating, Add	1,707.79		
		For Class 56 Rating, Add	2,264.15		
40 05 19 00-0850	EA	18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,017.86		774.23
		For Class 52 Rating, Deduct	-862.93		
		For Class 54 Rating, Add	1,190.80		
		For Class 55 Rating, Add	1,777.54		
		For Class 56 Rating, Add	2,356.44		
40 05 19 00-0851	EA	18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,335.14		777.56
		For Class 52 Rating, Deduct	-897.27		
		For Class 54 Rating, Add	1,237.69		
		For Class 55 Rating, Add	1,847.29		
		For Class 56 Rating, Add	2,448.73		
40 05 19 00-0852	EA	18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,652.41		780.89
		For Class 52 Rating, Deduct	-931.62		
		For Class 54 Rating, Add	1,284.59		
		For Class 55 Rating, Add	1,917.04		
		For Class 56 Rating, Add	2,541.02		
40 05 19 00-0853	EA	18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,969.69		784.23
		For Class 52 Rating, Deduct	-965.96		
		For Class 54 Rating, Add	1,331.48		
		For Class 55 Rating, Add	1,986.79		
		For Class 56 Rating, Add	2,633.31		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0854	EA		18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,286.97	787.55
			For Class 52 Rating, Deduct	-1,000.31	
			For Class 54 Rating, Add	1,378.38	
			For Class 55 Rating, Add	2,056.54	
			For Class 56 Rating, Add	2,725.60	
40 05 19 00-0855	EA		18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,604.24	790.89
			For Class 52 Rating, Deduct	-1,034.65	
			For Class 54 Rating, Add	1,425.27	
			For Class 55 Rating, Add	2,126.28	
			For Class 56 Rating, Add	2,817.89	
40 05 19 00-0856	EA		18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,921.53	794.22
			For Class 52 Rating, Deduct	-1,069.00	
			For Class 54 Rating, Add	1,472.17	
			For Class 55 Rating, Add	2,196.03	
			For Class 56 Rating, Add	2,910.18	
40 05 19 00-0857	EA		18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,238.80	797.55
			For Class 52 Rating, Deduct	-1,103.34	
			For Class 54 Rating, Add	1,519.06	
			For Class 55 Rating, Add	2,265.78	
			For Class 56 Rating, Add	3,002.47	
40 05 19 00-0858	EA		18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,556.08	800.88
			For Class 52 Rating, Deduct	-1,137.69	
			For Class 54 Rating, Add	1,565.96	
			For Class 55 Rating, Add	2,335.53	
			For Class 56 Rating, Add	3,094.76	
40 05 19 00-0859	EA		18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,873.36	804.22
			For Class 52 Rating, Deduct	-1,172.03	
			For Class 54 Rating, Add	1,612.85	
			For Class 55 Rating, Add	2,405.28	
			For Class 56 Rating, Add	3,187.05	
40 05 19 00-0860	EA		18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,190.63	807.54
			For Class 52 Rating, Deduct	-1,206.38	
			For Class 54 Rating, Add	1,659.75	
			For Class 55 Rating, Add	2,475.03	
			For Class 56 Rating, Add	3,279.34	
40 05 19 00-0861	EA		18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,507.91	810.88
			For Class 52 Rating, Deduct	-1,240.73	
			For Class 54 Rating, Add	1,706.64	
			For Class 55 Rating, Add	2,544.77	
			For Class 56 Rating, Add	3,371.63	
40 05 19 00-0862	EA		18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,825.19	814.20
			For Class 52 Rating, Deduct	-1,275.07	
			For Class 54 Rating, Add	1,753.54	
			For Class 55 Rating, Add	2,614.52	
			For Class 56 Rating, Add	3,463.92	
40 05 19 00-0863	EA		18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,142.47	817.54
			For Class 52 Rating, Deduct	-1,309.42	
			For Class 54 Rating, Add	1,800.43	
			For Class 55 Rating, Add	2,684.27	
			For Class 56 Rating, Add	3,556.21	
40 05 19 00-0864	EA		18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,459.74	820.87
			For Class 52 Rating, Deduct	-1,343.76	
			For Class 54 Rating, Add	1,847.33	
			For Class 55 Rating, Add	2,754.02	
			For Class 56 Rating, Add	3,648.50	
40 05 19 00-0865	EA		18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,777.03	824.20
			For Class 52 Rating, Deduct	-1,378.11	
			For Class 54 Rating, Add	1,894.22	
			For Class 55 Rating, Add	2,823.77	
			For Class 56 Rating, Add	3,740.79	
40 05 19 00-0866	EA		18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,094.31	827.53
			For Class 52 Rating, Deduct	-1,412.45	
			For Class 54 Rating, Add	1,941.12	
			For Class 55 Rating, Add	2,893.52	
			For Class 56 Rating, Add	3,833.08	
40 05 19 00-0867	EA		18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,411.59	830.87
			For Class 52 Rating, Deduct	-1,446.80	
			For Class 54 Rating, Add	1,988.01	
			For Class 55 Rating, Add	2,963.27	
			For Class 56 Rating, Add	3,925.37	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-0868	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,728.87	834.19
		For Class 52 Rating, Deduct		-1,481.14	
		For Class 54 Rating, Add		2,034.91	
		For Class 55 Rating, Add		3,033.02	
		For Class 56 Rating, Add		4,017.66	
40 05 19 00-0869	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,046.14	837.53
		For Class 52 Rating, Deduct		-1,515.49	
		For Class 54 Rating, Add		2,081.80	
		For Class 55 Rating, Add		3,102.76	
		For Class 56 Rating, Add		4,109.95	
40 05 19 00-0870	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,363.42	840.85
		For Class 52 Rating, Deduct		-1,549.83	
		For Class 54 Rating, Add		2,128.70	
		For Class 55 Rating, Add		3,172.51	
		For Class 56 Rating, Add		4,202.24	
40 05 19 00-0871	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,680.70	844.19
		For Class 52 Rating, Deduct		-1,584.18	
		For Class 54 Rating, Add		2,175.59	
		For Class 55 Rating, Add		3,242.26	
		For Class 56 Rating, Add		4,294.53	
40 05 19 00-0872		20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)			
40 05 19 00-0873	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,574.62	822.86
		For Class 52 Rating, Deduct		-366.06	
		For Class 54 Rating, Add		514.14	
		For Class 55 Rating, Add		772.04	
		For Class 56 Rating, Add		1,026.60	
40 05 19 00-0874	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,938.73	826.20
		For Class 52 Rating, Deduct		-405.56	
		For Class 54 Rating, Add		568.06	
		For Class 55 Rating, Add		852.23	
		For Class 56 Rating, Add		1,132.71	
40 05 19 00-0875	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,302.85	829.52
		For Class 52 Rating, Deduct		-445.06	
		For Class 54 Rating, Add		621.98	
		For Class 55 Rating, Add		932.42	
		For Class 56 Rating, Add		1,238.81	
40 05 19 00-0876	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,666.95	832.86
		For Class 52 Rating, Deduct		-484.56	
		For Class 54 Rating, Add		675.90	
		For Class 55 Rating, Add		1,012.61	
		For Class 56 Rating, Add		1,344.92	
40 05 19 00-0877	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,031.08	836.19
		For Class 52 Rating, Deduct		-524.05	
		For Class 54 Rating, Add		729.82	
		For Class 55 Rating, Add		1,092.81	
		For Class 56 Rating, Add		1,451.03	
40 05 19 00-0878	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,395.18	839.52
		For Class 52 Rating, Deduct		-563.55	
		For Class 54 Rating, Add		783.74	
		For Class 55 Rating, Add		1,173.00	
		For Class 56 Rating, Add		1,557.13	
40 05 19 00-0879	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,759.29	842.85
		For Class 52 Rating, Deduct		-603.05	
		For Class 54 Rating, Add		837.66	
		For Class 55 Rating, Add		1,253.19	
		For Class 56 Rating, Add		1,663.24	
40 05 19 00-0880	EA	20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,123.41	846.19
		For Class 52 Rating, Deduct		-642.54	
		For Class 54 Rating, Add		891.58	
		For Class 55 Rating, Add		1,333.38	
		For Class 56 Rating, Add		1,769.34	
40 05 19 00-0881	EA	20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,487.52	849.51
		For Class 52 Rating, Deduct		-682.04	
		For Class 54 Rating, Add		945.50	
		For Class 55 Rating, Add		1,413.58	
		For Class 56 Rating, Add		1,875.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0882	EA		20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,851.63	852.85
			For Class 52 Rating, Deduct	-721.54	
			For Class 54 Rating, Add	999.42	
			For Class 55 Rating, Add	1,493.77	
			For Class 56 Rating, Add	1,981.55	
40 05 19 00-0883	EA		20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,215.75	856.17
			For Class 52 Rating, Deduct	-761.04	
			For Class 54 Rating, Add	1,053.34	
			For Class 55 Rating, Add	1,573.96	
			For Class 56 Rating, Add	2,087.66	
40 05 19 00-0884	EA		20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,579.86	859.51
			For Class 52 Rating, Deduct	-800.53	
			For Class 54 Rating, Add	1,107.26	
			For Class 55 Rating, Add	1,654.15	
			For Class 56 Rating, Add	2,193.77	
40 05 19 00-0885	EA		20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,943.97	862.84
			For Class 52 Rating, Deduct	-840.03	
			For Class 54 Rating, Add	1,161.18	
			For Class 55 Rating, Add	1,734.35	
			For Class 56 Rating, Add	2,299.87	
40 05 19 00-0886	EA		20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,308.09	866.17
			For Class 52 Rating, Deduct	-879.53	
			For Class 54 Rating, Add	1,215.10	
			For Class 55 Rating, Add	1,814.54	
			For Class 56 Rating, Add	2,405.98	
40 05 19 00-0887	EA		20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,672.20	869.50
			For Class 52 Rating, Deduct	-919.02	
			For Class 54 Rating, Add	1,269.02	
			For Class 55 Rating, Add	1,894.73	
			For Class 56 Rating, Add	2,512.08	
40 05 19 00-0888	EA		20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,036.30	872.84
			For Class 52 Rating, Deduct	-958.52	
			For Class 54 Rating, Add	1,322.94	
			For Class 55 Rating, Add	1,974.92	
			For Class 56 Rating, Add	2,618.19	
40 05 19 00-0889	EA		20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,400.43	876.16
			For Class 52 Rating, Deduct	-998.02	
			For Class 54 Rating, Add	1,376.87	
			For Class 55 Rating, Add	2,055.12	
			For Class 56 Rating, Add	2,724.30	
40 05 19 00-0890	EA		20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,764.53	879.50
			For Class 52 Rating, Deduct	-1,037.52	
			For Class 54 Rating, Add	1,430.78	
			For Class 55 Rating, Add	2,135.31	
			For Class 56 Rating, Add	2,830.40	
40 05 19 00-0891	EA		20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,128.64	882.82
			For Class 52 Rating, Deduct	-1,077.01	
			For Class 54 Rating, Add	1,484.70	
			For Class 55 Rating, Add	2,215.50	
			For Class 56 Rating, Add	2,936.51	
40 05 19 00-0892	EA		20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,492.76	886.16
			For Class 52 Rating, Deduct	-1,116.51	
			For Class 54 Rating, Add	1,538.63	
			For Class 55 Rating, Add	2,295.69	
			For Class 56 Rating, Add	3,042.61	
40 05 19 00-0893	EA		20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,856.87	889.50
			For Class 52 Rating, Deduct	-1,156.01	
			For Class 54 Rating, Add	1,592.55	
			For Class 55 Rating, Add	2,375.89	
			For Class 56 Rating, Add	3,148.72	
40 05 19 00-0894	EA		20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,220.98	892.82
			For Class 52 Rating, Deduct	-1,195.50	
			For Class 54 Rating, Add	1,646.47	
			For Class 55 Rating, Add	2,456.08	
			For Class 56 Rating, Add	3,254.82	
40 05 19 00-0895	EA		20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,585.09	896.16
			For Class 52 Rating, Deduct	-1,235.00	
			For Class 54 Rating, Add	1,700.39	
			For Class 55 Rating, Add	2,536.27	
			For Class 56 Rating, Add	3,360.93	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0896	EA	20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,949.21		899.49
		For Class 52 Rating, Deduct	-1,274.50		
		For Class 54 Rating, Add	1,754.31		
		For Class 55 Rating, Add	2,616.46		
		For Class 56 Rating, Add	3,467.04		
40 05 19 00-0897	EA	20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,313.31		902.82
		For Class 52 Rating, Deduct	-1,314.00		
		For Class 54 Rating, Add	1,808.23		
		For Class 55 Rating, Add	2,696.66		
		For Class 56 Rating, Add	3,573.14		
40 05 19 00-0898	EA	20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,677.44		906.15
		For Class 52 Rating, Deduct	-1,353.49		
		For Class 54 Rating, Add	1,862.15		
		For Class 55 Rating, Add	2,776.85		
		For Class 56 Rating, Add	3,679.25		
40 05 19 00-0899	EA	20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,041.54		909.49
		For Class 52 Rating, Deduct	-1,392.99		
		For Class 54 Rating, Add	1,916.07		
		For Class 55 Rating, Add	2,857.04		
		For Class 56 Rating, Add	3,785.35		
40 05 19 00-0900	EA	20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,405.66		912.81
		For Class 52 Rating, Deduct	-1,432.49		
		For Class 54 Rating, Add	1,969.99		
		For Class 55 Rating, Add	2,937.24		
		For Class 56 Rating, Add	3,891.46		
40 05 19 00-0901	EA	20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,769.77		916.15
		For Class 52 Rating, Deduct	-1,471.98		
		For Class 54 Rating, Add	2,023.91		
		For Class 55 Rating, Add	3,017.43		
		For Class 56 Rating, Add	3,997.56		
40 05 19 00-0902	EA	20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,133.89		919.47
		For Class 52 Rating, Deduct	-1,511.48		
		For Class 54 Rating, Add	2,077.83		
		For Class 55 Rating, Add	3,097.62		
		For Class 56 Rating, Add	4,103.67		
40 05 19 00-0903	EA	20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,497.99		922.81
		For Class 52 Rating, Deduct	-1,550.98		
		For Class 54 Rating, Add	2,131.75		
		For Class 55 Rating, Add	3,177.81		
		For Class 56 Rating, Add	4,209.78		
40 05 19 00-0904	EA	20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,862.11		926.14
		For Class 52 Rating, Deduct	-1,590.48		
		For Class 54 Rating, Add	2,185.67		
		For Class 55 Rating, Add	3,258.01		
		For Class 56 Rating, Add	4,315.88		
40 05 19 00-0905	EA	20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,226.22		929.47
		For Class 52 Rating, Deduct	-1,629.97		
		For Class 54 Rating, Add	2,239.59		
		For Class 55 Rating, Add	3,338.20		
		For Class 56 Rating, Add	4,421.99		
40 05 19 00-0906	EA	20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,590.33		932.80
		For Class 52 Rating, Deduct	-1,669.47		
		For Class 54 Rating, Add	2,293.51		
		For Class 55 Rating, Add	3,418.39		
		For Class 56 Rating, Add	4,528.09		
40 05 19 00-0907	EA	20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,954.45		936.14
		For Class 52 Rating, Deduct	-1,708.97		
		For Class 54 Rating, Add	2,347.43		
		For Class 55 Rating, Add	3,498.58		
		For Class 56 Rating, Add	4,634.20		
40 05 19 00-0908	EA	20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,318.56		939.46
		For Class 52 Rating, Deduct	-1,748.46		
		For Class 54 Rating, Add	2,401.35		
		For Class 55 Rating, Add	3,578.78		
		For Class 56 Rating, Add	4,740.31		
40 05 19 00-0909	EA	20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,682.67		942.80
		For Class 52 Rating, Deduct	-1,787.96		
		For Class 54 Rating, Add	2,455.27		
		For Class 55 Rating, Add	3,658.97		
		For Class 56 Rating, Add	4,846.41		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0910	EA		20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,046.79	946.12
			For Class 52 Rating, Deduct	-1,827.46	
			For Class 54 Rating, Add	2,509.19	
			For Class 55 Rating, Add	3,739.16	
			For Class 56 Rating, Add	4,952.52	
40 05 19 00-0911			24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0912	EA		24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,678.61	972.77
			For Class 52 Rating, Deduct	-462.52	
			For Class 54 Rating, Add	648.39	
			For Class 55 Rating, Add	973.02	
			For Class 56 Rating, Add	1,293.45	
40 05 19 00-0913	EA		24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,128.58	976.11
			For Class 52 Rating, Deduct	-511.46	
			For Class 54 Rating, Add	715.19	
			For Class 55 Rating, Add	1,072.36	
			For Class 56 Rating, Add	1,424.88	
40 05 19 00-0914	EA		24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,578.56	979.44
			For Class 52 Rating, Deduct	-560.40	
			For Class 54 Rating, Add	781.99	
			For Class 55 Rating, Add	1,171.70	
			For Class 56 Rating, Add	1,556.32	
40 05 19 00-0915	EA		24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,028.54	982.77
			For Class 52 Rating, Deduct	-609.34	
			For Class 54 Rating, Add	848.79	
			For Class 55 Rating, Add	1,271.04	
			For Class 56 Rating, Add	1,687.76	
40 05 19 00-0916	EA		24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,478.51	986.10
			For Class 52 Rating, Deduct	-658.29	
			For Class 54 Rating, Add	915.59	
			For Class 55 Rating, Add	1,370.38	
			For Class 56 Rating, Add	1,819.19	
40 05 19 00-0917	EA		24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,928.49	989.44
			For Class 52 Rating, Deduct	-707.23	
			For Class 54 Rating, Add	982.39	
			For Class 55 Rating, Add	1,469.72	
			For Class 56 Rating, Add	1,950.62	
40 05 19 00-0918	EA		24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,378.46	992.76
			For Class 52 Rating, Deduct	-756.17	
			For Class 54 Rating, Add	1,049.19	
			For Class 55 Rating, Add	1,569.06	
			For Class 56 Rating, Add	2,082.06	
40 05 19 00-0919	EA		24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,828.44	996.10
			For Class 52 Rating, Deduct	-805.11	
			For Class 54 Rating, Add	1,115.99	
			For Class 55 Rating, Add	1,668.40	
			For Class 56 Rating, Add	2,213.50	
40 05 19 00-0920	EA		24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,278.42	999.43
			For Class 52 Rating, Deduct	-854.05	
			For Class 54 Rating, Add	1,182.79	
			For Class 55 Rating, Add	1,767.74	
			For Class 56 Rating, Add	2,344.93	
40 05 19 00-0921	EA		24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,728.39	1,002.76
			For Class 52 Rating, Deduct	-903.00	
			For Class 54 Rating, Add	1,249.59	
			For Class 55 Rating, Add	1,867.08	
			For Class 56 Rating, Add	2,476.37	
40 05 19 00-0922	EA		24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,178.37	1,006.10
			For Class 52 Rating, Deduct	-951.94	
			For Class 54 Rating, Add	1,316.39	
			For Class 55 Rating, Add	1,966.42	
			For Class 56 Rating, Add	2,607.80	
40 05 19 00-0923	EA		24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,628.34	1,009.42
			For Class 52 Rating, Deduct	-1,000.88	
			For Class 54 Rating, Add	1,383.19	
			For Class 55 Rating, Add	2,065.76	
			For Class 56 Rating, Add	2,739.24	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0924	EA	24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,078.32		1,012.76
		For Class 52 Rating, Deduct	-1,049.82		
		For Class 54 Rating, Add	1,449.99		
		For Class 55 Rating, Add	2,165.10		
		For Class 56 Rating, Add	2,870.67		
40 05 19 00-0925	EA	24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,528.29		1,016.09
		For Class 52 Rating, Deduct	-1,098.76		
		For Class 54 Rating, Add	1,516.79		
		For Class 55 Rating, Add	2,264.44		
		For Class 56 Rating, Add	3,002.11		
40 05 19 00-0926	EA	24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,978.28		1,019.42
		For Class 52 Rating, Deduct	-1,147.71		
		For Class 54 Rating, Add	1,583.59		
		For Class 55 Rating, Add	2,363.79		
		For Class 56 Rating, Add	3,133.55		
40 05 19 00-0927	EA	24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,428.25		1,022.75
		For Class 52 Rating, Deduct	-1,196.65		
		For Class 54 Rating, Add	1,650.39		
		For Class 55 Rating, Add	2,463.13		
		For Class 56 Rating, Add	3,264.98		
40 05 19 00-0928	EA	24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,878.23		1,026.09
		For Class 52 Rating, Deduct	-1,245.59		
		For Class 54 Rating, Add	1,717.19		
		For Class 55 Rating, Add	2,562.47		
		For Class 56 Rating, Add	3,396.42		
40 05 19 00-0929	EA	24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,328.20		1,029.41
		For Class 52 Rating, Deduct	-1,294.53		
		For Class 54 Rating, Add	1,783.99		
		For Class 55 Rating, Add	2,661.80		
		For Class 56 Rating, Add	3,527.85		
40 05 19 00-0930	EA	24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,778.17		1,032.75
		For Class 52 Rating, Deduct	-1,343.48		
		For Class 54 Rating, Add	1,850.79		
		For Class 55 Rating, Add	2,761.14		
		For Class 56 Rating, Add	3,659.29		
40 05 19 00-0931	EA	24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,228.15		1,036.07
		For Class 52 Rating, Deduct	-1,392.42		
		For Class 54 Rating, Add	1,917.59		
		For Class 55 Rating, Add	2,860.49		
		For Class 56 Rating, Add	3,790.72		
40 05 19 00-0932	EA	24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,678.13		1,039.41
		For Class 52 Rating, Deduct	-1,441.36		
		For Class 54 Rating, Add	1,984.39		
		For Class 55 Rating, Add	2,959.83		
		For Class 56 Rating, Add	3,922.16		
40 05 19 00-0933	EA	24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,128.11		1,042.74
		For Class 52 Rating, Deduct	-1,490.30		
		For Class 54 Rating, Add	2,051.19		
		For Class 55 Rating, Add	3,059.17		
		For Class 56 Rating, Add	4,053.60		
40 05 19 00-0934	EA	24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,578.08		1,046.07
		For Class 52 Rating, Deduct	-1,539.24		
		For Class 54 Rating, Add	2,117.99		
		For Class 55 Rating, Add	3,158.51		
		For Class 56 Rating, Add	4,185.03		
40 05 19 00-0935	EA	24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,028.06		1,049.40
		For Class 52 Rating, Deduct	-1,588.19		
		For Class 54 Rating, Add	2,184.79		
		For Class 55 Rating, Add	3,257.85		
		For Class 56 Rating, Add	4,316.47		
40 05 19 00-0936	EA	24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,478.03		1,052.74
		For Class 52 Rating, Deduct	-1,637.13		
		For Class 54 Rating, Add	2,251.59		
		For Class 55 Rating, Add	3,357.19		
		For Class 56 Rating, Add	4,447.90		
40 05 19 00-0937	EA	24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,928.00		1,056.06
		For Class 52 Rating, Deduct	-1,686.07		
		For Class 54 Rating, Add	2,318.39		
		For Class 55 Rating, Add	3,456.53		
		For Class 56 Rating, Add	4,579.34		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938	EA		24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		17,377.99	1,059.40
		For Class 52 Rating, Deduct		-1,735.01	
		For Class 54 Rating, Add		2,385.19	
		For Class 55 Rating, Add		3,555.87	
		For Class 56 Rating, Add		4,710.77	
40 05 19 00-0939	EA		24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		17,827.96	1,062.72
		For Class 52 Rating, Deduct		-1,783.95	
		For Class 54 Rating, Add		2,451.99	
		For Class 55 Rating, Add		3,655.21	
		For Class 56 Rating, Add		4,842.21	
40 05 19 00-0940	EA		24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		18,277.94	1,066.06
		For Class 52 Rating, Deduct		-1,832.90	
		For Class 54 Rating, Add		2,518.79	
		For Class 55 Rating, Add		3,754.55	
		For Class 56 Rating, Add		4,973.65	
40 05 19 00-0941	EA		24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		18,813.72	1,126.02
		For Class 52 Rating, Deduct		-1,881.84	
		For Class 54 Rating, Add		2,586.62	
		For Class 55 Rating, Add		3,855.95	
		For Class 56 Rating, Add		5,108.17	
40 05 19 00-0942	EA		24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		19,263.69	1,129.36
		For Class 52 Rating, Deduct		-1,930.78	
		For Class 54 Rating, Add		2,653.42	
		For Class 55 Rating, Add		3,955.29	
		For Class 56 Rating, Add		5,239.60	
40 05 19 00-0943	EA		24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		19,713.67	1,132.69
		For Class 52 Rating, Deduct		-1,979.72	
		For Class 54 Rating, Add		2,720.22	
		For Class 55 Rating, Add		4,054.63	
		For Class 56 Rating, Add		5,371.04	
40 05 19 00-0944	EA		24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		20,163.65	1,136.02
		For Class 52 Rating, Deduct		-2,028.67	
		For Class 54 Rating, Add		2,787.02	
		For Class 55 Rating, Add		4,153.97	
		For Class 56 Rating, Add		5,502.48	
40 05 19 00-0945	EA		24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		20,613.62	1,139.35
		For Class 52 Rating, Deduct		-2,077.61	
		For Class 54 Rating, Add		2,853.82	
		For Class 55 Rating, Add		4,253.31	
		For Class 56 Rating, Add		5,633.91	
40 05 19 00-0946	EA		24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		21,063.61	1,142.68
		For Class 52 Rating, Deduct		-2,126.55	
		For Class 54 Rating, Add		2,920.62	
		For Class 55 Rating, Add		4,352.65	
		For Class 56 Rating, Add		5,765.35	
40 05 19 00-0947	EA		24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		21,513.57	1,146.01
		For Class 52 Rating, Deduct		-2,175.49	
		For Class 54 Rating, Add		2,987.42	
		For Class 55 Rating, Add		4,451.99	
		For Class 56 Rating, Add		5,896.78	
40 05 19 00-0948	EA		24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		21,963.55	1,149.35
		For Class 52 Rating, Deduct		-2,224.43	
		For Class 54 Rating, Add		3,054.22	
		For Class 55 Rating, Add		4,551.33	
		For Class 56 Rating, Add		6,028.22	
40 05 19 00-0949	EA		24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		22,413.53	1,152.67
		For Class 52 Rating, Deduct		-2,273.38	
		For Class 54 Rating, Add		3,121.02	
		For Class 55 Rating, Add		4,650.67	
		For Class 56 Rating, Add		6,159.65	
40 05 19 00-0950			30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0951	EA		30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		8,792.57	1,372.55
		For Class 52 Rating, Deduct		-738.42	
		For Class 54 Rating, Add		1,031.90	
		For Class 55 Rating, Add		1,546.90	
		For Class 56 Rating, Add		2,055.19	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0952	EA	30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,440.30		1,375.88
		For Class 52 Rating, Deduct	-809.12		
		For Class 54 Rating, Add	1,128.36		
		For Class 55 Rating, Add	1,690.34		
		For Class 56 Rating, Add	2,244.96		
40 05 19 00-0953	EA	30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,088.02		1,379.21
		For Class 52 Rating, Deduct	-879.81		
		For Class 54 Rating, Add	1,224.82		
		For Class 55 Rating, Add	1,833.77		
		For Class 56 Rating, Add	2,434.73		
40 05 19 00-0954	EA	30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,735.74		1,382.55
		For Class 52 Rating, Deduct	-950.51		
		For Class 54 Rating, Add	1,321.28		
		For Class 55 Rating, Add	1,977.21		
		For Class 56 Rating, Add	2,624.50		
40 05 19 00-0955	EA	30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,383.47		1,385.87
		For Class 52 Rating, Deduct	-1,021.20		
		For Class 54 Rating, Add	1,417.75		
		For Class 55 Rating, Add	2,120.65		
		For Class 56 Rating, Add	2,814.27		
40 05 19 00-0956	EA	30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,031.18		1,389.21
		For Class 52 Rating, Deduct	-1,091.90		
		For Class 54 Rating, Add	1,514.21		
		For Class 55 Rating, Add	2,264.09		
		For Class 56 Rating, Add	3,004.04		
40 05 19 00-0957	EA	30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,678.91		1,392.54
		For Class 52 Rating, Deduct	-1,162.59		
		For Class 54 Rating, Add	1,610.67		
		For Class 55 Rating, Add	2,407.52		
		For Class 56 Rating, Add	3,193.81		
40 05 19 00-0958	EA	30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,326.63		1,395.87
		For Class 52 Rating, Deduct	-1,233.28		
		For Class 54 Rating, Add	1,707.13		
		For Class 55 Rating, Add	2,550.96		
		For Class 56 Rating, Add	3,383.58		
40 05 19 00-0959	EA	30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,974.35		1,399.20
		For Class 52 Rating, Deduct	-1,303.98		
		For Class 54 Rating, Add	1,803.59		
		For Class 55 Rating, Add	2,694.40		
		For Class 56 Rating, Add	3,573.35		
40 05 19 00-0960	EA	30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,622.07		1,402.53
		For Class 52 Rating, Deduct	-1,374.67		
		For Class 54 Rating, Add	1,900.05		
		For Class 55 Rating, Add	2,837.84		
		For Class 56 Rating, Add	3,763.12		
40 05 19 00-0961	EA	30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,269.80		1,405.86
		For Class 52 Rating, Deduct	-1,445.37		
		For Class 54 Rating, Add	1,996.52		
		For Class 55 Rating, Add	2,981.28		
		For Class 56 Rating, Add	3,952.90		
40 05 19 00-0962	EA	30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,917.52		1,409.20
		For Class 52 Rating, Deduct	-1,516.06		
		For Class 54 Rating, Add	2,092.98		
		For Class 55 Rating, Add	3,124.71		
		For Class 56 Rating, Add	4,142.66		
40 05 19 00-0963	EA	30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,565.23		1,412.52
		For Class 52 Rating, Deduct	-1,586.75		
		For Class 54 Rating, Add	2,189.44		
		For Class 55 Rating, Add	3,268.15		
		For Class 56 Rating, Add	4,332.43		
40 05 19 00-0964	EA	30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,212.97		1,415.86
		For Class 52 Rating, Deduct	-1,657.45		
		For Class 54 Rating, Add	2,285.90		
		For Class 55 Rating, Add	3,411.59		
		For Class 56 Rating, Add	4,522.21		
40 05 19 00-0965	EA	30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,860.68		1,419.19
		For Class 52 Rating, Deduct	-1,728.14		
		For Class 54 Rating, Add	2,382.36		
		For Class 55 Rating, Add	3,555.02		
		For Class 56 Rating, Add	4,711.98		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0966	EA		30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	18,508.40	1,422.52
			For Class 52 Rating, Deduct	-1,798.84	
			For Class 54 Rating, Add	2,478.82	
			For Class 55 Rating, Add	3,698.46	
			For Class 56 Rating, Add	4,901.75	
40 05 19 00-0967	EA		30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	19,156.12	1,425.85
			For Class 52 Rating, Deduct	-1,869.53	
			For Class 54 Rating, Add	2,575.29	
			For Class 55 Rating, Add	3,841.90	
			For Class 56 Rating, Add	5,091.52	
40 05 19 00-0968	EA		30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	19,803.85	1,429.19
			For Class 52 Rating, Deduct	-1,940.23	
			For Class 54 Rating, Add	2,671.75	
			For Class 55 Rating, Add	3,985.34	
			For Class 56 Rating, Add	5,281.29	
40 05 19 00-0969	EA		30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	20,451.57	1,432.51
			For Class 52 Rating, Deduct	-2,010.92	
			For Class 54 Rating, Add	2,768.21	
			For Class 55 Rating, Add	4,128.77	
			For Class 56 Rating, Add	5,471.06	
40 05 19 00-0970	EA		30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	21,099.28	1,435.85
			For Class 52 Rating, Deduct	-2,081.61	
			For Class 54 Rating, Add	2,864.67	
			For Class 55 Rating, Add	4,272.21	
			For Class 56 Rating, Add	5,660.83	
40 05 19 00-0971	EA		30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	21,747.02	1,439.18
			For Class 52 Rating, Deduct	-2,152.31	
			For Class 54 Rating, Add	2,961.13	
			For Class 55 Rating, Add	4,415.65	
			For Class 56 Rating, Add	5,850.60	
40 05 19 00-0972	EA		30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	22,394.73	1,442.51
			For Class 52 Rating, Deduct	-2,223.00	
			For Class 54 Rating, Add	3,057.59	
			For Class 55 Rating, Add	4,559.09	
			For Class 56 Rating, Add	6,040.37	
40 05 19 00-0973	EA		30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	23,042.46	1,445.85
			For Class 52 Rating, Deduct	-2,293.70	
			For Class 54 Rating, Add	3,154.06	
			For Class 55 Rating, Add	4,702.53	
			For Class 56 Rating, Add	6,230.14	
40 05 19 00-0974	EA		30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	23,690.18	1,449.17
			For Class 52 Rating, Deduct	-2,364.39	
			For Class 54 Rating, Add	3,250.52	
			For Class 55 Rating, Add	4,845.96	
			For Class 56 Rating, Add	6,419.91	
40 05 19 00-0975	EA		30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	24,337.90	1,452.51
			For Class 52 Rating, Deduct	-2,435.09	
			For Class 54 Rating, Add	3,346.98	
			For Class 55 Rating, Add	4,989.40	
			For Class 56 Rating, Add	6,609.68	
40 05 19 00-0976	EA		30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	24,985.62	1,455.84
			For Class 52 Rating, Deduct	-2,505.78	
			For Class 54 Rating, Add	3,443.44	
			For Class 55 Rating, Add	5,132.84	
			For Class 56 Rating, Add	6,799.45	
40 05 19 00-0977	EA		30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	25,633.34	1,459.17
			For Class 52 Rating, Deduct	-2,576.47	
			For Class 54 Rating, Add	3,539.90	
			For Class 55 Rating, Add	5,276.27	
			For Class 56 Rating, Add	6,989.22	
40 05 19 00-0978	EA		30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	26,281.07	1,462.50
			For Class 52 Rating, Deduct	-2,647.17	
			For Class 54 Rating, Add	3,636.36	
			For Class 55 Rating, Add	5,419.71	
			For Class 56 Rating, Add	7,178.99	
40 05 19 00-0979	EA		30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	26,928.78	1,465.83
			For Class 52 Rating, Deduct	-2,717.86	
			For Class 54 Rating, Add	3,732.83	
			For Class 55 Rating, Add	5,563.15	
			For Class 56 Rating, Add	7,368.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,576.52	1,469.16
			For Class 52 Rating, Deduct	-2,788.56	
			For Class 54 Rating, Add	3,829.29	
			For Class 55 Rating, Add	5,706.59	
			For Class 56 Rating, Add	7,558.54	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,224.23	1,472.50
			For Class 52 Rating, Deduct	-2,859.25	
			For Class 54 Rating, Add	3,925.75	
			For Class 55 Rating, Add	5,850.02	
			For Class 56 Rating, Add	7,748.31	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,871.95	1,475.82
			For Class 52 Rating, Deduct	-2,929.94	
			For Class 54 Rating, Add	4,022.21	
			For Class 55 Rating, Add	5,993.46	
			For Class 56 Rating, Add	7,938.08	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,519.68	1,479.16
			For Class 52 Rating, Deduct	-3,000.64	
			For Class 54 Rating, Add	4,118.67	
			For Class 55 Rating, Add	6,136.90	
			For Class 56 Rating, Add	8,127.85	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,167.39	1,482.49
			For Class 52 Rating, Deduct	-3,071.33	
			For Class 54 Rating, Add	4,215.13	
			For Class 55 Rating, Add	6,280.34	
			For Class 56 Rating, Add	8,317.62	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,815.12	1,485.82
			For Class 52 Rating, Deduct	-3,142.03	
			For Class 54 Rating, Add	4,311.60	
			For Class 55 Rating, Add	6,423.78	
			For Class 56 Rating, Add	8,507.39	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,462.84	1,489.15
			For Class 52 Rating, Deduct	-3,212.72	
			For Class 54 Rating, Add	4,408.06	
			For Class 55 Rating, Add	6,567.21	
			For Class 56 Rating, Add	8,697.16	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,110.57	1,492.48
			For Class 52 Rating, Deduct	-3,283.42	
			For Class 54 Rating, Add	4,504.52	
			For Class 55 Rating, Add	6,710.65	
			For Class 56 Rating, Add	8,886.93	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,758.28	1,495.81
			For Class 52 Rating, Deduct	-3,354.11	
			For Class 54 Rating, Add	4,600.98	
			For Class 55 Rating, Add	6,854.09	
			For Class 56 Rating, Add	9,076.70	
40 05 19 00-0989			36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0990	EA		36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,098.04	1,739.01
			For Class 52 Rating, Deduct	-1,040.95	
			For Class 54 Rating, Add	1,451.10	
			For Class 55 Rating, Add	2,173.53	
			For Class 56 Rating, Add	2,886.49	
40 05 19 00-0991	EA		36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,977.33	1,742.34
			For Class 52 Rating, Deduct	-1,137.12	
			For Class 54 Rating, Add	1,582.29	
			For Class 55 Rating, Add	2,368.60	
			For Class 56 Rating, Add	3,144.58	
40 05 19 00-0992	EA		36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,856.63	1,745.67
			For Class 52 Rating, Deduct	-1,233.28	
			For Class 54 Rating, Add	1,713.49	
			For Class 55 Rating, Add	2,563.68	
			For Class 56 Rating, Add	3,402.66	
40 05 19 00-0993	EA		36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,735.92	1,749.00
			For Class 52 Rating, Deduct	-1,329.45	
			For Class 54 Rating, Add	1,844.69	
			For Class 55 Rating, Add	2,758.76	
			For Class 56 Rating, Add	3,660.75	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0994	EA	36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	15,615.21	1,752.33
		For Class 52 Rating, Deduct	-1,425.62	
		For Class 54 Rating, Add	1,975.88	
		For Class 55 Rating, Add	2,953.84	
		For Class 56 Rating, Add	3,918.83	
40 05 19 00-0995	EA	36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	16,494.51	1,755.66
		For Class 52 Rating, Deduct	-1,521.79	
		For Class 54 Rating, Add	2,107.08	
		For Class 55 Rating, Add	3,148.92	
		For Class 56 Rating, Add	4,176.91	
40 05 19 00-0996	EA	36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	17,373.80	1,759.00
		For Class 52 Rating, Deduct	-1,617.95	
		For Class 54 Rating, Add	2,238.28	
		For Class 55 Rating, Add	3,343.99	
		For Class 56 Rating, Add	4,435.00	
40 05 19 00-0997	EA	36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	18,253.09	1,762.32
		For Class 52 Rating, Deduct	-1,714.12	
		For Class 54 Rating, Add	2,369.48	
		For Class 55 Rating, Add	3,539.07	
		For Class 56 Rating, Add	4,693.08	
40 05 19 00-0998	EA	36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	19,132.38	1,765.66
		For Class 52 Rating, Deduct	-1,810.29	
		For Class 54 Rating, Add	2,500.67	
		For Class 55 Rating, Add	3,734.15	
		For Class 56 Rating, Add	4,951.16	
40 05 19 00-0999	EA	36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	20,011.68	1,769.00
		For Class 52 Rating, Deduct	-1,906.45	
		For Class 54 Rating, Add	2,631.87	
		For Class 55 Rating, Add	3,929.23	
		For Class 56 Rating, Add	5,209.25	
40 05 19 00-1000	EA	36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	20,890.96	1,772.32
		For Class 52 Rating, Deduct	-2,002.62	
		For Class 54 Rating, Add	2,763.07	
		For Class 55 Rating, Add	4,124.30	
		For Class 56 Rating, Add	5,467.33	
40 05 19 00-1001	EA	36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	21,770.27	1,775.66
		For Class 52 Rating, Deduct	-2,098.79	
		For Class 54 Rating, Add	2,894.27	
		For Class 55 Rating, Add	4,319.38	
		For Class 56 Rating, Add	5,725.42	
40 05 19 00-1002	EA	36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	22,649.55	1,778.98
		For Class 52 Rating, Deduct	-2,194.95	
		For Class 54 Rating, Add	3,025.46	
		For Class 55 Rating, Add	4,514.46	
		For Class 56 Rating, Add	5,983.50	
40 05 19 00-1003	EA	36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	23,528.85	1,782.32
		For Class 52 Rating, Deduct	-2,291.12	
		For Class 54 Rating, Add	3,156.66	
		For Class 55 Rating, Add	4,709.54	
		For Class 56 Rating, Add	6,241.59	
40 05 19 00-1004	EA	36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	24,408.14	1,785.65
		For Class 52 Rating, Deduct	-2,387.29	
		For Class 54 Rating, Add	3,287.86	
		For Class 55 Rating, Add	4,904.61	
		For Class 56 Rating, Add	6,499.67	
40 05 19 00-1005	EA	36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	25,287.44	1,788.98
		For Class 52 Rating, Deduct	-2,483.45	
		For Class 54 Rating, Add	3,419.06	
		For Class 55 Rating, Add	5,099.69	
		For Class 56 Rating, Add	6,757.75	
40 05 19 00-1006	EA	36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	26,166.72	1,792.31
		For Class 52 Rating, Deduct	-2,579.62	
		For Class 54 Rating, Add	3,550.25	
		For Class 55 Rating, Add	5,294.77	
		For Class 56 Rating, Add	7,015.84	
40 05 19 00-1007	EA	36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe	27,046.02	1,795.65
		For Class 52 Rating, Deduct	-2,675.79	
		For Class 54 Rating, Add	3,681.45	
		For Class 55 Rating, Add	5,489.85	
		For Class 56 Rating, Add	7,273.92	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1008	EA		36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,925.32	1,798.97
			For Class 52 Rating, Deduct	-2,771.96	
			For Class 54 Rating, Add	3,812.65	
			For Class 55 Rating, Add	5,684.93	
			For Class 56 Rating, Add	7,532.01	
40 05 19 00-1009	EA		36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,804.60	1,802.31
			For Class 52 Rating, Deduct	-2,868.12	
			For Class 54 Rating, Add	3,943.85	
			For Class 55 Rating, Add	5,880.00	
			For Class 56 Rating, Add	7,790.09	
40 05 19 00-1010	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,683.91	1,805.64
			For Class 52 Rating, Deduct	-2,964.29	
			For Class 54 Rating, Add	4,075.04	
			For Class 55 Rating, Add	6,075.08	
			For Class 56 Rating, Add	8,048.18	
40 05 19 00-1011	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,563.19	1,808.97
			For Class 52 Rating, Deduct	-3,060.46	
			For Class 54 Rating, Add	4,206.24	
			For Class 55 Rating, Add	6,270.16	
			For Class 56 Rating, Add	8,306.26	
40 05 19 00-1012	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,442.49	1,812.30
			For Class 52 Rating, Deduct	-3,156.62	
			For Class 54 Rating, Add	4,337.44	
			For Class 55 Rating, Add	6,465.24	
			For Class 56 Rating, Add	8,564.34	
40 05 19 00-1013	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,321.78	1,815.63
			For Class 52 Rating, Deduct	-3,252.79	
			For Class 54 Rating, Add	4,468.63	
			For Class 55 Rating, Add	6,660.32	
			For Class 56 Rating, Add	8,822.43	
40 05 19 00-1014	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,201.07	1,818.96
			For Class 52 Rating, Deduct	-3,348.96	
			For Class 54 Rating, Add	4,599.83	
			For Class 55 Rating, Add	6,855.39	
			For Class 56 Rating, Add	9,080.51	
40 05 19 00-1015	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,080.36	1,822.30
			For Class 52 Rating, Deduct	-3,445.12	
			For Class 54 Rating, Add	4,731.03	
			For Class 55 Rating, Add	7,050.47	
			For Class 56 Rating, Add	9,338.59	
40 05 19 00-1016	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,959.66	1,825.62
			For Class 52 Rating, Deduct	-3,541.29	
			For Class 54 Rating, Add	4,862.23	
			For Class 55 Rating, Add	7,245.55	
			For Class 56 Rating, Add	9,596.68	
40 05 19 00-1017	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,838.95	1,828.96
			For Class 52 Rating, Deduct	-3,637.46	
			For Class 54 Rating, Add	4,993.42	
			For Class 55 Rating, Add	7,440.63	
			For Class 56 Rating, Add	9,854.76	
40 05 19 00-1018	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,718.24	1,832.29
			For Class 52 Rating, Deduct	-3,733.63	
			For Class 54 Rating, Add	5,124.62	
			For Class 55 Rating, Add	7,635.71	
			For Class 56 Rating, Add	10,112.85	
40 05 19 00-1019	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,597.54	1,835.62
			For Class 52 Rating, Deduct	-3,829.79	
			For Class 54 Rating, Add	5,255.82	
			For Class 55 Rating, Add	7,830.78	
			For Class 56 Rating, Add	10,370.93	
40 05 19 00-1020	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,476.83	1,838.95
			For Class 52 Rating, Deduct	-3,925.96	
			For Class 54 Rating, Add	5,387.02	
			For Class 55 Rating, Add	8,025.86	
			For Class 56 Rating, Add	10,629.02	
40 05 19 00-1021	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,356.12	1,842.28
			For Class 52 Rating, Deduct	-4,022.13	
			For Class 54 Rating, Add	5,518.21	
			For Class 55 Rating, Add	8,220.94	
			For Class 56 Rating, Add	10,887.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1022	EA		36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,235.42	1,845.61
			For Class 52 Rating, Deduct	-4,118.29	
			For Class 54 Rating, Add	5,649.41	
			For Class 55 Rating, Add	8,416.02	
			For Class 56 Rating, Add	11,145.18	
40 05 19 00-1023	EA		36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,114.70	1,848.95
			For Class 52 Rating, Deduct	-4,214.46	
			For Class 54 Rating, Add	5,780.61	
			For Class 55 Rating, Add	8,611.09	
			For Class 56 Rating, Add	11,403.27	
40 05 19 00-1024	EA		36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,994.00	1,852.27
			For Class 52 Rating, Deduct	-4,310.63	
			For Class 54 Rating, Add	5,911.81	
			For Class 55 Rating, Add	8,806.17	
			For Class 56 Rating, Add	11,661.35	
40 05 19 00-1025	EA		36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,873.29	1,855.61
			For Class 52 Rating, Deduct	-4,406.79	
			For Class 54 Rating, Add	6,043.00	
			For Class 55 Rating, Add	9,001.25	
			For Class 56 Rating, Add	11,919.43	
40 05 19 00-1026	EA		36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,752.59	1,858.94
			For Class 52 Rating, Deduct	-4,502.96	
			For Class 54 Rating, Add	6,174.20	
			For Class 55 Rating, Add	9,196.33	
			For Class 56 Rating, Add	12,177.52	
40 05 19 00-1027	EA		36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,631.87	1,862.27
			For Class 52 Rating, Deduct	-4,599.13	
			For Class 54 Rating, Add	6,305.40	
			For Class 55 Rating, Add	9,391.40	
			For Class 56 Rating, Add	12,435.60	
40 05 19 00-1028			Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0001)		
40 05 19 00-1029			4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1030	EA		4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	624.14	162.93
			For Class 52 Rating, Deduct	-41.50	
			For Class 54 Rating, Add	59.55	
			For Class 55 Rating, Add	90.06	
			For Class 56 Rating, Add	120.18	
40 05 19 00-1031	EA		4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	696.10	165.78
			For Class 52 Rating, Deduct	-48.94	
			For Class 54 Rating, Add	69.75	
			For Class 55 Rating, Add	105.25	
			For Class 56 Rating, Add	140.30	
40 05 19 00-1032	EA		4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	768.06	168.63
			For Class 52 Rating, Deduct	-56.38	
			For Class 54 Rating, Add	79.95	
			For Class 55 Rating, Add	120.44	
			For Class 56 Rating, Add	160.41	
40 05 19 00-1033	EA		4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	840.04	171.46
			For Class 52 Rating, Deduct	-63.83	
			For Class 54 Rating, Add	90.15	
			For Class 55 Rating, Add	135.63	
			For Class 56 Rating, Add	180.52	
40 05 19 00-1034	EA		4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	912.00	174.32
			For Class 52 Rating, Deduct	-71.27	
			For Class 54 Rating, Add	100.35	
			For Class 55 Rating, Add	150.82	
			For Class 56 Rating, Add	200.63	
40 05 19 00-1035	EA		4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	983.96	177.17
			For Class 52 Rating, Deduct	-78.71	
			For Class 54 Rating, Add	110.55	
			For Class 55 Rating, Add	166.01	
			For Class 56 Rating, Add	220.74	
40 05 19 00-1036	EA		4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,055.93	180.02
			For Class 52 Rating, Deduct	-86.15	
			For Class 54 Rating, Add	120.75	
			For Class 55 Rating, Add	181.20	
			For Class 56 Rating, Add	240.86	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1037	EA	4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,127.90		182.86
		For Class 52 Rating, Deduct	-93.59		
		For Class 54 Rating, Add	130.95		
		For Class 55 Rating, Add	196.38		
		For Class 56 Rating, Add	260.97		
40 05 19 00-1038	EA	4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,199.86		185.72
		For Class 52 Rating, Deduct	-101.03		
		For Class 54 Rating, Add	141.15		
		For Class 55 Rating, Add	211.57		
		For Class 56 Rating, Add	281.08		
40 05 19 00-1039	EA	4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,271.82		188.57
		For Class 52 Rating, Deduct	-108.47		
		For Class 54 Rating, Add	151.35		
		For Class 55 Rating, Add	226.76		
		For Class 56 Rating, Add	301.19		
40 05 19 00-1040	EA	4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,343.79		191.41
		For Class 52 Rating, Deduct	-115.92		
		For Class 54 Rating, Add	161.55		
		For Class 55 Rating, Add	241.95		
		For Class 56 Rating, Add	321.31		
40 05 19 00-1041	EA	4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,415.76		194.26
		For Class 52 Rating, Deduct	-123.36		
		For Class 54 Rating, Add	171.75		
		For Class 55 Rating, Add	257.14		
		For Class 56 Rating, Add	341.42		
40 05 19 00-1042	EA	4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,487.72		197.10
		For Class 52 Rating, Deduct	-130.80		
		For Class 54 Rating, Add	181.95		
		For Class 55 Rating, Add	272.33		
		For Class 56 Rating, Add	361.53		
40 05 19 00-1043	EA	4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,559.69		199.96
		For Class 52 Rating, Deduct	-138.24		
		For Class 54 Rating, Add	192.15		
		For Class 55 Rating, Add	287.52		
		For Class 56 Rating, Add	381.64		
40 05 19 00-1044	EA	4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,631.65		202.80
		For Class 52 Rating, Deduct	-145.68		
		For Class 54 Rating, Add	202.34		
		For Class 55 Rating, Add	302.71		
		For Class 56 Rating, Add	401.75		
40 05 19 00-1045	EA	4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,703.62		205.65
		For Class 52 Rating, Deduct	-153.12		
		For Class 54 Rating, Add	212.54		
		For Class 55 Rating, Add	317.90		
		For Class 56 Rating, Add	421.87		
40 05 19 00-1046	EA	4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,775.59		208.50
		For Class 52 Rating, Deduct	-160.56		
		For Class 54 Rating, Add	222.74		
		For Class 55 Rating, Add	333.09		
		For Class 56 Rating, Add	441.98		
40 05 19 00-1047	EA	4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,847.55		211.34
		For Class 52 Rating, Deduct	-168.01		
		For Class 54 Rating, Add	232.94		
		For Class 55 Rating, Add	348.28		
		For Class 56 Rating, Add	462.09		
40 05 19 00-1048	EA	4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,919.52		214.20
		For Class 52 Rating, Deduct	-175.45		
		For Class 54 Rating, Add	243.14		
		For Class 55 Rating, Add	363.47		
		For Class 56 Rating, Add	482.20		
40 05 19 00-1049	EA	4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,991.48		217.05
		For Class 52 Rating, Deduct	-182.89		
		For Class 54 Rating, Add	253.34		
		For Class 55 Rating, Add	378.66		
		For Class 56 Rating, Add	502.31		
40 05 19 00-1050	EA	4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	2,063.45		219.90
		For Class 52 Rating, Deduct	-190.33		
		For Class 54 Rating, Add	263.54		
		For Class 55 Rating, Add	393.85		
		For Class 56 Rating, Add	522.43		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1051	EA		4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,135.41	222.74
			For Class 52 Rating, Deduct	-197.77	
			For Class 54 Rating, Add	273.74	
			For Class 55 Rating, Add	409.04	
			For Class 56 Rating, Add	542.54	
40 05 19 00-1052	EA		4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,207.38	225.59
			For Class 52 Rating, Deduct	-205.21	
			For Class 54 Rating, Add	283.94	
			For Class 55 Rating, Add	424.23	
			For Class 56 Rating, Add	562.65	
40 05 19 00-1053	EA		4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,279.35	228.44
			For Class 52 Rating, Deduct	-212.66	
			For Class 54 Rating, Add	294.14	
			For Class 55 Rating, Add	439.42	
			For Class 56 Rating, Add	582.76	
40 05 19 00-1054	EA		4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,351.31	231.28
			For Class 52 Rating, Deduct	-220.10	
			For Class 54 Rating, Add	304.34	
			For Class 55 Rating, Add	454.61	
			For Class 56 Rating, Add	602.88	
40 05 19 00-1055	EA		4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,423.27	234.13
			For Class 52 Rating, Deduct	-227.54	
			For Class 54 Rating, Add	314.54	
			For Class 55 Rating, Add	469.80	
			For Class 56 Rating, Add	622.99	
40 05 19 00-1056	EA		4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,495.25	236.99
			For Class 52 Rating, Deduct	-234.98	
			For Class 54 Rating, Add	324.74	
			For Class 55 Rating, Add	484.99	
			For Class 56 Rating, Add	643.10	
40 05 19 00-1057	EA		4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,567.21	239.84
			For Class 52 Rating, Deduct	-242.42	
			For Class 54 Rating, Add	334.94	
			For Class 55 Rating, Add	500.18	
			For Class 56 Rating, Add	663.21	
40 05 19 00-1058	EA		4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,639.17	242.68
			For Class 52 Rating, Deduct	-249.86	
			For Class 54 Rating, Add	345.13	
			For Class 55 Rating, Add	515.36	
			For Class 56 Rating, Add	683.32	
40 05 19 00-1059	EA		4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,711.14	245.53
			For Class 52 Rating, Deduct	-257.30	
			For Class 54 Rating, Add	355.33	
			For Class 55 Rating, Add	530.55	
			For Class 56 Rating, Add	703.44	
40 05 19 00-1060	EA		4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,783.11	248.38
			For Class 52 Rating, Deduct	-264.75	
			For Class 54 Rating, Add	365.53	
			For Class 55 Rating, Add	545.74	
			For Class 56 Rating, Add	723.55	
40 05 19 00-1061	EA		4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,855.07	251.24
			For Class 52 Rating, Deduct	-272.19	
			For Class 54 Rating, Add	375.73	
			For Class 55 Rating, Add	560.93	
			For Class 56 Rating, Add	743.66	
40 05 19 00-1062	EA		4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,927.03	254.07
			For Class 52 Rating, Deduct	-279.63	
			For Class 54 Rating, Add	385.93	
			For Class 55 Rating, Add	576.12	
			For Class 56 Rating, Add	763.77	
40 05 19 00-1063	EA		4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,999.01	256.92
			For Class 52 Rating, Deduct	-287.07	
			For Class 54 Rating, Add	396.13	
			For Class 55 Rating, Add	591.31	
			For Class 56 Rating, Add	783.88	
40 05 19 00-1064	EA		4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,070.97	259.77
			For Class 52 Rating, Deduct	-294.51	
			For Class 54 Rating, Add	406.33	
			For Class 55 Rating, Add	606.50	
			For Class 56 Rating, Add	804.00	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1065	EA	4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,142.93		262.61
		For Class 52 Rating, Deduct	-301.95		
		For Class 54 Rating, Add	416.53		
		For Class 55 Rating, Add	621.69		
		For Class 56 Rating, Add	824.11		
40 05 19 00-1066	EA	4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,214.90		265.47
		For Class 52 Rating, Deduct	-309.39		
		For Class 54 Rating, Add	426.73		
		For Class 55 Rating, Add	636.88		
		For Class 56 Rating, Add	844.22		
40 05 19 00-1067	EA	4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,286.87		268.32
		For Class 52 Rating, Deduct	-316.84		
		For Class 54 Rating, Add	436.93		
		For Class 55 Rating, Add	652.07		
		For Class 56 Rating, Add	864.33		
40 05 19 00-1068	EA	4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,358.83		271.17
		For Class 52 Rating, Deduct	-324.28		
		For Class 54 Rating, Add	447.13		
		For Class 55 Rating, Add	667.26		
		For Class 56 Rating, Add	884.44		
40 05 19 00-1069 6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1070	EA	6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	781.68		205.09
		For Class 52 Rating, Deduct	-51.80		
		For Class 54 Rating, Add	74.37		
		For Class 55 Rating, Add	112.48		
		For Class 56 Rating, Add	150.12		
40 05 19 00-1071	EA	6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	869.26		207.94
		For Class 52 Rating, Deduct	-60.96		
		For Class 54 Rating, Add	86.91		
		For Class 55 Rating, Add	131.15		
		For Class 56 Rating, Add	174.83		
40 05 19 00-1072	EA	6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	956.83		210.77
		For Class 52 Rating, Deduct	-70.12		
		For Class 54 Rating, Add	99.45		
		For Class 55 Rating, Add	149.82		
		For Class 56 Rating, Add	199.55		
40 05 19 00-1073	EA	6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,044.41		213.63
		For Class 52 Rating, Deduct	-79.28		
		For Class 54 Rating, Add	111.99		
		For Class 55 Rating, Add	168.49		
		For Class 56 Rating, Add	224.27		
40 05 19 00-1074	EA	6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,131.98		216.48
		For Class 52 Rating, Deduct	-88.44		
		For Class 54 Rating, Add	124.53		
		For Class 55 Rating, Add	187.16		
		For Class 56 Rating, Add	248.98		
40 05 19 00-1075	EA	6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,219.56		219.32
		For Class 52 Rating, Deduct	-97.60		
		For Class 54 Rating, Add	137.08		
		For Class 55 Rating, Add	205.83		
		For Class 56 Rating, Add	273.70		
40 05 19 00-1076	EA	6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,307.15		222.17
		For Class 52 Rating, Deduct	-106.76		
		For Class 54 Rating, Add	149.62		
		For Class 55 Rating, Add	224.51		
		For Class 56 Rating, Add	298.42		
40 05 19 00-1077	EA	6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,394.72		225.02
		For Class 52 Rating, Deduct	-115.92		
		For Class 54 Rating, Add	162.16		
		For Class 55 Rating, Add	243.18		
		For Class 56 Rating, Add	323.14		
40 05 19 00-1078	EA	6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	1,482.29		227.88
		For Class 52 Rating, Deduct	-125.07		
		For Class 54 Rating, Add	174.70		
		For Class 55 Rating, Add	261.85		
		For Class 56 Rating, Add	347.86		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1079	EA	6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,569.88	230.72
		For Class 52 Rating, Deduct		-134.23	
		For Class 54 Rating, Add		187.24	
		For Class 55 Rating, Add		280.52	
		For Class 56 Rating, Add		372.57	
40 05 19 00-1080	EA	6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,657.45	233.57
		For Class 52 Rating, Deduct		-143.39	
		For Class 54 Rating, Add		199.78	
		For Class 55 Rating, Add		299.19	
		For Class 56 Rating, Add		397.29	
40 05 19 00-1081	EA	6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,745.02	236.41
		For Class 52 Rating, Deduct		-152.55	
		For Class 54 Rating, Add		212.32	
		For Class 55 Rating, Add		317.86	
		For Class 56 Rating, Add		422.01	
40 05 19 00-1082	EA	6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,832.61	239.25
		For Class 52 Rating, Deduct		-161.71	
		For Class 54 Rating, Add		224.86	
		For Class 55 Rating, Add		336.53	
		For Class 56 Rating, Add		446.72	
40 05 19 00-1083	EA	6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,920.19	242.11
		For Class 52 Rating, Deduct		-170.87	
		For Class 54 Rating, Add		237.40	
		For Class 55 Rating, Add		355.20	
		For Class 56 Rating, Add		471.44	
40 05 19 00-1084	EA	6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,007.76	244.96
		For Class 52 Rating, Deduct		-180.03	
		For Class 54 Rating, Add		249.95	
		For Class 55 Rating, Add		373.87	
		For Class 56 Rating, Add		496.16	
40 05 19 00-1085	EA	6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,095.33	247.81
		For Class 52 Rating, Deduct		-189.19	
		For Class 54 Rating, Add		262.49	
		For Class 55 Rating, Add		392.54	
		For Class 56 Rating, Add		520.88	
40 05 19 00-1086	EA	6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,182.92	250.65
		For Class 52 Rating, Deduct		-198.34	
		For Class 54 Rating, Add		275.03	
		For Class 55 Rating, Add		411.21	
		For Class 56 Rating, Add		545.60	
40 05 19 00-1087	EA	6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,270.49	253.51
		For Class 52 Rating, Deduct		-207.50	
		For Class 54 Rating, Add		287.57	
		For Class 55 Rating, Add		429.88	
		For Class 56 Rating, Add		570.31	
40 05 19 00-1088	EA	6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,358.06	256.36
		For Class 52 Rating, Deduct		-216.66	
		For Class 54 Rating, Add		300.11	
		For Class 55 Rating, Add		448.55	
		For Class 56 Rating, Add		595.03	
40 05 19 00-1089	EA	6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,445.64	259.21
		For Class 52 Rating, Deduct		-225.82	
		For Class 54 Rating, Add		312.65	
		For Class 55 Rating, Add		467.22	
		For Class 56 Rating, Add		619.75	
40 05 19 00-1090	EA	6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,533.23	262.05
		For Class 52 Rating, Deduct		-234.98	
		For Class 54 Rating, Add		325.19	
		For Class 55 Rating, Add		485.90	
		For Class 56 Rating, Add		644.47	
40 05 19 00-1091	EA	6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,620.80	264.90
		For Class 52 Rating, Deduct		-244.14	
		For Class 54 Rating, Add		337.73	
		For Class 55 Rating, Add		504.57	
		For Class 56 Rating, Add		669.18	
40 05 19 00-1092	EA	6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,708.38	267.75
		For Class 52 Rating, Deduct		-253.30	
		For Class 54 Rating, Add		350.27	
		For Class 55 Rating, Add		523.24	
		For Class 56 Rating, Add		693.90	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1093	EA	6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	2,795.96		270.59
		For Class 52 Rating, Deduct	-262.46		
		For Class 54 Rating, Add	362.81		
		For Class 55 Rating, Add	541.91		
		For Class 56 Rating, Add	718.62		
40 05 19 00-1094	EA	6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	2,883.53		273.44
		For Class 52 Rating, Deduct	-271.61		
		For Class 54 Rating, Add	375.35		
		For Class 55 Rating, Add	560.58		
		For Class 56 Rating, Add	743.34		
40 05 19 00-1095	EA	6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	2,971.10		276.29
		For Class 52 Rating, Deduct	-280.77		
		For Class 54 Rating, Add	387.90		
		For Class 55 Rating, Add	579.25		
		For Class 56 Rating, Add	768.05		
40 05 19 00-1096	EA	6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,058.68		279.15
		For Class 52 Rating, Deduct	-289.93		
		For Class 54 Rating, Add	400.44		
		For Class 55 Rating, Add	597.92		
		For Class 56 Rating, Add	792.77		
40 05 19 00-1097	EA	6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,146.27		281.99
		For Class 52 Rating, Deduct	-299.09		
		For Class 54 Rating, Add	412.98		
		For Class 55 Rating, Add	616.59		
		For Class 56 Rating, Add	817.49		
40 05 19 00-1098	EA	6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,233.84		284.84
		For Class 52 Rating, Deduct	-308.25		
		For Class 54 Rating, Add	425.52		
		For Class 55 Rating, Add	635.26		
		For Class 56 Rating, Add	842.21		
40 05 19 00-1099	EA	6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,321.42		287.69
		For Class 52 Rating, Deduct	-317.41		
		For Class 54 Rating, Add	438.06		
		For Class 55 Rating, Add	653.93		
		For Class 56 Rating, Add	866.92		
40 05 19 00-1100	EA	6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,408.99		290.52
		For Class 52 Rating, Deduct	-326.57		
		For Class 54 Rating, Add	450.60		
		For Class 55 Rating, Add	672.60		
		For Class 56 Rating, Add	891.64		
40 05 19 00-1101	EA	6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,496.57		293.38
		For Class 52 Rating, Deduct	-335.73		
		For Class 54 Rating, Add	463.14		
		For Class 55 Rating, Add	691.28		
		For Class 56 Rating, Add	916.36		
40 05 19 00-1102	EA	6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,584.15		296.23
		For Class 52 Rating, Deduct	-344.88		
		For Class 54 Rating, Add	475.68		
		For Class 55 Rating, Add	709.95		
		For Class 56 Rating, Add	941.07		
40 05 19 00-1103	EA	6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,671.73		299.08
		For Class 52 Rating, Deduct	-354.04		
		For Class 54 Rating, Add	488.22		
		For Class 55 Rating, Add	728.62		
		For Class 56 Rating, Add	965.79		
40 05 19 00-1104	EA	6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,759.30		301.92
		For Class 52 Rating, Deduct	-363.20		
		For Class 54 Rating, Add	500.77		
		For Class 55 Rating, Add	747.29		
		For Class 56 Rating, Add	990.51		
40 05 19 00-1105	EA	6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,846.88		304.78
		For Class 52 Rating, Deduct	-372.36		
		For Class 54 Rating, Add	513.31		
		For Class 55 Rating, Add	765.96		
		For Class 56 Rating, Add	1,015.23		
40 05 19 00-1106	EA	6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe	3,934.46		307.63
		For Class 52 Rating, Deduct	-381.52		
		For Class 54 Rating, Add	525.85		
		For Class 55 Rating, Add	784.63		
		For Class 56 Rating, Add	1,039.95		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1107	EA	6"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,022.03 -390.68 538.39 803.30 1,064.66	310.47
40 05 19 00-1108	EA	6"	Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,109.61 -399.84 550.93 821.97 1,089.38	313.32
40 05 19 00-1109			8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1110	EA	8"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,081.35 -75.27 107.41 162.13 216.16	262.05
40 05 19 00-1111	EA	8"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,200.15 -87.87 124.63 187.76 250.09	264.90
40 05 19 00-1112	EA	8"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,318.95 -100.46 141.86 213.40 284.02	267.75
40 05 19 00-1113	EA	8"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,437.76 -113.05 159.08 239.03 317.95	270.59
40 05 19 00-1114	EA	8"	Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,556.55 -125.65 176.31 264.66 351.88	273.44
40 05 19 00-1115	EA	8"	Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,675.35 -138.24 193.53 290.30 385.81	276.29
40 05 19 00-1116	EA	8"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,794.15 -150.83 210.76 315.93 419.73	279.15
40 05 19 00-1117	EA	8"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	1,912.96 -163.43 227.98 341.57 453.66	281.99
40 05 19 00-1118	EA	8"	Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	2,031.75 -176.02 245.21 367.20 487.59	284.84
40 05 19 00-1119	EA	8"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	2,150.56 -188.61 262.43 392.83 521.52	287.69
40 05 19 00-1120	EA	8"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	2,269.35 -201.21 279.65 418.47 555.45	290.52

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1121	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		2,388.15		293.38
		For Class 52 Rating, Deduct		-213.80		
		For Class 54 Rating, Add		296.88		
		For Class 55 Rating, Add		444.10		
		For Class 56 Rating, Add		589.37		
40 05 19 00-1122	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		2,506.96		296.23
		For Class 52 Rating, Deduct		-226.39		
		For Class 54 Rating, Add		314.10		
		For Class 55 Rating, Add		469.73		
		For Class 56 Rating, Add		623.30		
40 05 19 00-1123	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		2,625.75		299.08
		For Class 52 Rating, Deduct		-238.99		
		For Class 54 Rating, Add		331.33		
		For Class 55 Rating, Add		495.37		
		For Class 56 Rating, Add		657.23		
40 05 19 00-1124	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		2,744.55		301.92
		For Class 52 Rating, Deduct		-251.58		
		For Class 54 Rating, Add		348.55		
		For Class 55 Rating, Add		521.00		
		For Class 56 Rating, Add		691.16		
40 05 19 00-1125	EA	8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		2,863.35		304.78
		For Class 52 Rating, Deduct		-264.17		
		For Class 54 Rating, Add		365.78		
		For Class 55 Rating, Add		546.63		
		For Class 56 Rating, Add		725.09		
40 05 19 00-1126	EA	8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		2,982.16		307.63
		For Class 52 Rating, Deduct		-276.77		
		For Class 54 Rating, Add		383.00		
		For Class 55 Rating, Add		572.27		
		For Class 56 Rating, Add		759.02		
40 05 19 00-1127	EA	8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,100.95		310.47
		For Class 52 Rating, Deduct		-289.36		
		For Class 54 Rating, Add		400.23		
		For Class 55 Rating, Add		597.90		
		For Class 56 Rating, Add		792.94		
40 05 19 00-1128	EA	8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,219.76		313.32
		For Class 52 Rating, Deduct		-301.95		
		For Class 54 Rating, Add		417.45		
		For Class 55 Rating, Add		623.54		
		For Class 56 Rating, Add		826.87		
40 05 19 00-1129	EA	8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,338.56		316.17
		For Class 52 Rating, Deduct		-314.55		
		For Class 54 Rating, Add		434.68		
		For Class 55 Rating, Add		649.17		
		For Class 56 Rating, Add		860.80		
40 05 19 00-1130	EA	8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,457.35		319.03
		For Class 52 Rating, Deduct		-327.14		
		For Class 54 Rating, Add		451.90		
		For Class 55 Rating, Add		674.80		
		For Class 56 Rating, Add		894.73		
40 05 19 00-1131	EA	8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,576.15		321.86
		For Class 52 Rating, Deduct		-339.73		
		For Class 54 Rating, Add		469.12		
		For Class 55 Rating, Add		700.44		
		For Class 56 Rating, Add		928.66		
40 05 19 00-1132	EA	8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,694.96		324.71
		For Class 52 Rating, Deduct		-352.33		
		For Class 54 Rating, Add		486.35		
		For Class 55 Rating, Add		726.07		
		For Class 56 Rating, Add		962.59		
40 05 19 00-1133	EA	8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,813.76		327.56
		For Class 52 Rating, Deduct		-364.92		
		For Class 54 Rating, Add		503.57		
		For Class 55 Rating, Add		751.70		
		For Class 56 Rating, Add		996.51		
40 05 19 00-1134	EA	8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,932.55		330.42
		For Class 52 Rating, Deduct		-377.51		
		For Class 54 Rating, Add		520.80		
		For Class 55 Rating, Add		777.34		
		For Class 56 Rating, Add		1,030.44		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1135	EA		8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,051.36	333.26
			For Class 52 Rating, Deduct	-390.11	
			For Class 54 Rating, Add	538.02	
			For Class 55 Rating, Add	802.97	
			For Class 56 Rating, Add	1,064.37	
40 05 19 00-1136	EA		8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,170.16	336.11
			For Class 52 Rating, Deduct	-402.70	
			For Class 54 Rating, Add	555.25	
			For Class 55 Rating, Add	828.60	
			For Class 56 Rating, Add	1,098.30	
40 05 19 00-1137	EA		8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,288.96	338.96
			For Class 52 Rating, Deduct	-415.29	
			For Class 54 Rating, Add	572.47	
			For Class 55 Rating, Add	854.24	
			For Class 56 Rating, Add	1,132.23	
40 05 19 00-1138	EA		8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,407.75	341.80
			For Class 52 Rating, Deduct	-427.89	
			For Class 54 Rating, Add	589.70	
			For Class 55 Rating, Add	879.87	
			For Class 56 Rating, Add	1,166.16	
40 05 19 00-1139	EA		8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,526.55	344.66
			For Class 52 Rating, Deduct	-440.48	
			For Class 54 Rating, Add	606.92	
			For Class 55 Rating, Add	905.50	
			For Class 56 Rating, Add	1,200.08	
40 05 19 00-1140	EA		8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,645.36	347.50
			For Class 52 Rating, Deduct	-453.07	
			For Class 54 Rating, Add	624.14	
			For Class 55 Rating, Add	931.14	
			For Class 56 Rating, Add	1,234.01	
40 05 19 00-1141	EA		8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,764.15	350.35
			For Class 52 Rating, Deduct	-465.67	
			For Class 54 Rating, Add	641.37	
			For Class 55 Rating, Add	956.77	
			For Class 56 Rating, Add	1,267.94	
40 05 19 00-1142	EA		8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,882.96	353.19
			For Class 52 Rating, Deduct	-478.26	
			For Class 54 Rating, Add	658.59	
			For Class 55 Rating, Add	982.41	
			For Class 56 Rating, Add	1,301.87	
40 05 19 00-1143	EA		8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,001.76	356.05
			For Class 52 Rating, Deduct	-490.85	
			For Class 54 Rating, Add	675.82	
			For Class 55 Rating, Add	1,008.04	
			For Class 56 Rating, Add	1,335.80	
40 05 19 00-1144	EA		8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,120.56	358.90
			For Class 52 Rating, Deduct	-503.45	
			For Class 54 Rating, Add	693.04	
			For Class 55 Rating, Add	1,033.67	
			For Class 56 Rating, Add	1,369.73	
40 05 19 00-1145	EA		8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,239.36	361.74
			For Class 52 Rating, Deduct	-516.04	
			For Class 54 Rating, Add	710.27	
			For Class 55 Rating, Add	1,059.31	
			For Class 56 Rating, Add	1,403.65	
40 05 19 00-1146	EA		8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,358.16	364.59
			For Class 52 Rating, Deduct	-528.63	
			For Class 54 Rating, Add	727.49	
			For Class 55 Rating, Add	1,084.94	
			For Class 56 Rating, Add	1,437.58	
40 05 19 00-1147	EA		8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,476.96	367.44
			For Class 52 Rating, Deduct	-541.23	
			For Class 54 Rating, Add	744.72	
			For Class 55 Rating, Add	1,110.57	
			For Class 56 Rating, Add	1,471.51	
40 05 19 00-1148	EA		8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,595.76	370.30
			For Class 52 Rating, Deduct	-553.82	
			For Class 54 Rating, Add	761.94	
			For Class 55 Rating, Add	1,136.21	
			For Class 56 Rating, Add	1,505.44	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1149 10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1150	EA	10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,365.41		319.03
		For Class 52 Rating, Deduct	-97.03		
		For Class 54 Rating, Add	138.11		
		For Class 55 Rating, Add	208.30		
		For Class 56 Rating, Add	277.61		
40 05 19 00-1151	EA	10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,520.63		321.86
		For Class 52 Rating, Deduct	-113.63		
		For Class 54 Rating, Add	160.80		
		For Class 55 Rating, Add	242.05		
		For Class 56 Rating, Add	322.28		
40 05 19 00-1152	EA	10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,675.87		324.71
		For Class 52 Rating, Deduct	-130.23		
		For Class 54 Rating, Add	183.48		
		For Class 55 Rating, Add	275.81		
		For Class 56 Rating, Add	366.95		
40 05 19 00-1153	EA	10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,831.09		327.56
		For Class 52 Rating, Deduct	-146.83		
		For Class 54 Rating, Add	206.17		
		For Class 55 Rating, Add	309.57		
		For Class 56 Rating, Add	411.63		
40 05 19 00-1154	EA	10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,986.32		330.42
		For Class 52 Rating, Deduct	-163.43		
		For Class 54 Rating, Add	228.86		
		For Class 55 Rating, Add	343.33		
		For Class 56 Rating, Add	456.30		
40 05 19 00-1155	EA	10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,141.55		333.26
		For Class 52 Rating, Deduct	-180.03		
		For Class 54 Rating, Add	251.55		
		For Class 55 Rating, Add	377.08		
		For Class 56 Rating, Add	500.98		
40 05 19 00-1156	EA	10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,296.78		336.11
		For Class 52 Rating, Deduct	-196.63		
		For Class 54 Rating, Add	274.24		
		For Class 55 Rating, Add	410.84		
		For Class 56 Rating, Add	545.65		
40 05 19 00-1157	EA	10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,452.00		338.96
		For Class 52 Rating, Deduct	-213.23		
		For Class 54 Rating, Add	296.93		
		For Class 55 Rating, Add	444.60		
		For Class 56 Rating, Add	590.33		
40 05 19 00-1158	EA	10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,607.22		341.80
		For Class 52 Rating, Deduct	-229.83		
		For Class 54 Rating, Add	319.62		
		For Class 55 Rating, Add	478.35		
		For Class 56 Rating, Add	635.00		
40 05 19 00-1159	EA	10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,762.45		344.66
		For Class 52 Rating, Deduct	-246.43		
		For Class 54 Rating, Add	342.30		
		For Class 55 Rating, Add	512.11		
		For Class 56 Rating, Add	679.67		
40 05 19 00-1160	EA	10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,917.68		347.50
		For Class 52 Rating, Deduct	-263.03		
		For Class 54 Rating, Add	364.99		
		For Class 55 Rating, Add	545.87		
		For Class 56 Rating, Add	724.35		
40 05 19 00-1161	EA	10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,072.91		350.35
		For Class 52 Rating, Deduct	-279.63		
		For Class 54 Rating, Add	387.68		
		For Class 55 Rating, Add	579.62		
		For Class 56 Rating, Add	769.02		
40 05 19 00-1162	EA	10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,228.14		353.19
		For Class 52 Rating, Deduct	-296.23		
		For Class 54 Rating, Add	410.37		
		For Class 55 Rating, Add	613.38		
		For Class 56 Rating, Add	813.70		
40 05 19 00-1163	EA	10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,383.37		356.05
		For Class 52 Rating, Deduct	-312.83		
		For Class 54 Rating, Add	433.06		
		For Class 55 Rating, Add	647.14		
		For Class 56 Rating, Add	858.37		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1164	EA	10"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,538.59	358.90
			For Class 52 Rating, Deduct	-329.43	
			For Class 54 Rating, Add	455.75	
			For Class 55 Rating, Add	680.89	
			For Class 56 Rating, Add	903.05	
40 05 19 00-1165	EA	10"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,693.82	361.74
			For Class 52 Rating, Deduct	-346.03	
			For Class 54 Rating, Add	478.44	
			For Class 55 Rating, Add	714.65	
			For Class 56 Rating, Add	947.72	
40 05 19 00-1166	EA	10"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,849.04	364.59
			For Class 52 Rating, Deduct	-362.63	
			For Class 54 Rating, Add	501.12	
			For Class 55 Rating, Add	748.41	
			For Class 56 Rating, Add	992.39	
40 05 19 00-1167	EA	10"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,004.27	367.44
			For Class 52 Rating, Deduct	-379.23	
			For Class 54 Rating, Add	523.81	
			For Class 55 Rating, Add	782.16	
			For Class 56 Rating, Add	1,037.07	
40 05 19 00-1168	EA	10"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,159.50	370.30
			For Class 52 Rating, Deduct	-395.83	
			For Class 54 Rating, Add	546.50	
			For Class 55 Rating, Add	815.92	
			For Class 56 Rating, Add	1,081.74	
40 05 19 00-1169	EA	10"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,314.73	373.13
			For Class 52 Rating, Deduct	-412.43	
			For Class 54 Rating, Add	569.19	
			For Class 55 Rating, Add	849.68	
			For Class 56 Rating, Add	1,126.42	
40 05 19 00-1170	EA	10"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,469.95	375.98
			For Class 52 Rating, Deduct	-429.03	
			For Class 54 Rating, Add	591.88	
			For Class 55 Rating, Add	883.43	
			For Class 56 Rating, Add	1,171.09	
40 05 19 00-1171	EA	10"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,625.18	378.83
			For Class 52 Rating, Deduct	-445.63	
			For Class 54 Rating, Add	614.57	
			For Class 55 Rating, Add	917.19	
			For Class 56 Rating, Add	1,215.76	
40 05 19 00-1172	EA	10"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,780.41	381.67
			For Class 52 Rating, Deduct	-462.23	
			For Class 54 Rating, Add	637.25	
			For Class 55 Rating, Add	950.95	
			For Class 56 Rating, Add	1,260.44	
40 05 19 00-1173	EA	10"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,935.63	384.53
			For Class 52 Rating, Deduct	-478.83	
			For Class 54 Rating, Add	659.94	
			For Class 55 Rating, Add	984.70	
			For Class 56 Rating, Add	1,305.11	
40 05 19 00-1174	EA	10"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,090.85	387.38
			For Class 52 Rating, Deduct	-495.43	
			For Class 54 Rating, Add	682.63	
			For Class 55 Rating, Add	1,018.46	
			For Class 56 Rating, Add	1,349.79	
40 05 19 00-1175	EA	10"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,246.09	390.23
			For Class 52 Rating, Deduct	-512.03	
			For Class 54 Rating, Add	705.32	
			For Class 55 Rating, Add	1,052.22	
			For Class 56 Rating, Add	1,394.46	
40 05 19 00-1176	EA	10"	Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,401.32	393.07
			For Class 52 Rating, Deduct	-528.63	
			For Class 54 Rating, Add	728.01	
			For Class 55 Rating, Add	1,085.98	
			For Class 56 Rating, Add	1,439.14	
40 05 19 00-1177	EA	10"	Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,556.54	395.93
			For Class 52 Rating, Deduct	-545.23	
			For Class 54 Rating, Add	750.70	
			For Class 55 Rating, Add	1,119.73	
			For Class 56 Rating, Add	1,483.81	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1178	EA		10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,711.78	398.78
			For Class 52 Rating, Deduct	-561.83	
			For Class 54 Rating, Add	773.39	
			For Class 55 Rating, Add	1,153.49	
			For Class 56 Rating, Add	1,528.48	
40 05 19 00-1179	EA		10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,867.00	401.63
			For Class 52 Rating, Deduct	-578.43	
			For Class 54 Rating, Add	796.07	
			For Class 55 Rating, Add	1,187.25	
			For Class 56 Rating, Add	1,573.16	
40 05 19 00-1180	EA		10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,022.22	404.46
			For Class 52 Rating, Deduct	-595.03	
			For Class 54 Rating, Add	818.76	
			For Class 55 Rating, Add	1,221.00	
			For Class 56 Rating, Add	1,617.83	
40 05 19 00-1181	EA		10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,177.44	407.32
			For Class 52 Rating, Deduct	-611.63	
			For Class 54 Rating, Add	841.45	
			For Class 55 Rating, Add	1,254.76	
			For Class 56 Rating, Add	1,662.51	
40 05 19 00-1182	EA		10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,332.68	410.17
			For Class 52 Rating, Deduct	-628.23	
			For Class 54 Rating, Add	864.14	
			For Class 55 Rating, Add	1,288.52	
			For Class 56 Rating, Add	1,707.18	
40 05 19 00-1183	EA		10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,487.91	413.01
			For Class 52 Rating, Deduct	-644.83	
			For Class 54 Rating, Add	886.83	
			For Class 55 Rating, Add	1,322.27	
			For Class 56 Rating, Add	1,751.86	
40 05 19 00-1184	EA		10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,643.13	415.86
			For Class 52 Rating, Deduct	-661.43	
			For Class 54 Rating, Add	909.52	
			For Class 55 Rating, Add	1,356.03	
			For Class 56 Rating, Add	1,796.53	
40 05 19 00-1185	EA		10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,798.36	418.71
			For Class 52 Rating, Deduct	-678.03	
			For Class 54 Rating, Add	932.21	
			For Class 55 Rating, Add	1,389.79	
			For Class 56 Rating, Add	1,841.20	
40 05 19 00-1186	EA		10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,953.59	421.57
			For Class 52 Rating, Deduct	-694.63	
			For Class 54 Rating, Add	954.89	
			For Class 55 Rating, Add	1,423.54	
			For Class 56 Rating, Add	1,885.88	
40 05 19 00-1187	EA		10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,108.81	424.41
			For Class 52 Rating, Deduct	-711.23	
			For Class 54 Rating, Add	977.58	
			For Class 55 Rating, Add	1,457.30	
			For Class 56 Rating, Add	1,930.55	
40 05 19 00-1188	EA		10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,264.04	427.26
			For Class 52 Rating, Deduct	-727.83	
			For Class 54 Rating, Add	1,000.27	
			For Class 55 Rating, Add	1,491.06	
			For Class 56 Rating, Add	1,975.23	
40 05 19 00-1189			12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1190	EA		12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,780.28	398.78
			For Class 52 Rating, Deduct	-129.37	
			For Class 54 Rating, Add	183.66	
			For Class 55 Rating, Add	276.76	
			For Class 56 Rating, Add	368.69	
40 05 19 00-1191	EA		12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,974.53	401.63
			For Class 52 Rating, Deduct	-150.26	
			For Class 54 Rating, Add	212.20	
			For Class 55 Rating, Add	319.22	
			For Class 56 Rating, Add	424.88	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1192	EA	12"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,168.78	404.46
			For Class 52 Rating, Deduct	-171.15	
			For Class 54 Rating, Add	240.75	
			For Class 55 Rating, Add	361.68	
			For Class 56 Rating, Add	481.07	
40 05 19 00-1193	EA	12"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,363.03	407.32
			For Class 52 Rating, Deduct	-192.05	
			For Class 54 Rating, Add	269.29	
			For Class 55 Rating, Add	404.14	
			For Class 56 Rating, Add	537.25	
40 05 19 00-1194	EA	12"	Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,557.30	410.17
			For Class 52 Rating, Deduct	-212.94	
			For Class 54 Rating, Add	297.83	
			For Class 55 Rating, Add	446.61	
			For Class 56 Rating, Add	593.44	
40 05 19 00-1195	EA	12"	Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,751.55	413.01
			For Class 52 Rating, Deduct	-233.83	
			For Class 54 Rating, Add	326.37	
			For Class 55 Rating, Add	489.07	
			For Class 56 Rating, Add	649.63	
40 05 19 00-1196	EA	12"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,945.80	415.86
			For Class 52 Rating, Deduct	-254.73	
			For Class 54 Rating, Add	354.92	
			For Class 55 Rating, Add	531.53	
			For Class 56 Rating, Add	705.82	
40 05 19 00-1197	EA	12"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,140.06	418.71
			For Class 52 Rating, Deduct	-275.62	
			For Class 54 Rating, Add	383.46	
			For Class 55 Rating, Add	573.99	
			For Class 56 Rating, Add	762.01	
40 05 19 00-1198	EA	12"	Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,334.32	421.57
			For Class 52 Rating, Deduct	-296.51	
			For Class 54 Rating, Add	412.00	
			For Class 55 Rating, Add	616.45	
			For Class 56 Rating, Add	818.19	
40 05 19 00-1199	EA	12"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,528.57	424.41
			For Class 52 Rating, Deduct	-317.41	
			For Class 54 Rating, Add	440.55	
			For Class 55 Rating, Add	658.91	
			For Class 56 Rating, Add	874.38	
40 05 19 00-1200	EA	12"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,722.83	427.26
			For Class 52 Rating, Deduct	-338.30	
			For Class 54 Rating, Add	469.09	
			For Class 55 Rating, Add	701.37	
			For Class 56 Rating, Add	930.57	
40 05 19 00-1201	EA	12"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,917.09	430.10
			For Class 52 Rating, Deduct	-359.20	
			For Class 54 Rating, Add	497.63	
			For Class 55 Rating, Add	743.83	
			For Class 56 Rating, Add	986.76	
40 05 19 00-1202	EA	12"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,111.34	432.94
			For Class 52 Rating, Deduct	-380.09	
			For Class 54 Rating, Add	526.17	
			For Class 55 Rating, Add	786.29	
			For Class 56 Rating, Add	1,042.94	
40 05 19 00-1203	EA	12"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,305.59	435.80
			For Class 52 Rating, Deduct	-400.98	
			For Class 54 Rating, Add	554.72	
			For Class 55 Rating, Add	828.75	
			For Class 56 Rating, Add	1,099.13	
40 05 19 00-1204	EA	12"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,499.85	438.65
			For Class 52 Rating, Deduct	-421.88	
			For Class 54 Rating, Add	583.26	
			For Class 55 Rating, Add	871.21	
			For Class 56 Rating, Add	1,155.32	
40 05 19 00-1205	EA	12"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,694.11	441.50
			For Class 52 Rating, Deduct	-442.77	
			For Class 54 Rating, Add	611.80	
			For Class 55 Rating, Add	913.67	
			For Class 56 Rating, Add	1,211.51	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 19 00-1206	EA 12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,888.36		444.34	
	For Class 52 Rating, Deduct	-463.66			
	For Class 54 Rating, Add	640.35			
	For Class 55 Rating, Add	956.13			
	For Class 56 Rating, Add	1,267.69			
40 05 19 00-1207	EA 12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,082.62		447.20	
	For Class 52 Rating, Deduct	-484.56			
	For Class 54 Rating, Add	668.89			
	For Class 55 Rating, Add	998.59			
	For Class 56 Rating, Add	1,323.88			
40 05 19 00-1208	EA 12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,276.87		450.05	
	For Class 52 Rating, Deduct	-505.45			
	For Class 54 Rating, Add	697.43			
	For Class 55 Rating, Add	1,041.05			
	For Class 56 Rating, Add	1,380.07			
40 05 19 00-1209	EA 12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,471.13		452.89	
	For Class 52 Rating, Deduct	-526.34			
	For Class 54 Rating, Add	725.97			
	For Class 55 Rating, Add	1,083.51			
	For Class 56 Rating, Add	1,436.26			
40 05 19 00-1210	EA 12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,665.39		455.74	
	For Class 52 Rating, Deduct	-547.24			
	For Class 54 Rating, Add	754.52			
	For Class 55 Rating, Add	1,125.97			
	For Class 56 Rating, Add	1,492.45			
40 05 19 00-1211	EA 12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,859.64		458.58	
	For Class 52 Rating, Deduct	-568.13			
	For Class 54 Rating, Add	783.06			
	For Class 55 Rating, Add	1,168.43			
	For Class 56 Rating, Add	1,548.63			
40 05 19 00-1212	EA 12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,053.89		461.44	
	For Class 52 Rating, Deduct	-589.02			
	For Class 54 Rating, Add	811.60			
	For Class 55 Rating, Add	1,210.89			
	For Class 56 Rating, Add	1,604.82			
40 05 19 00-1213	EA 12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,248.15		464.28	
	For Class 52 Rating, Deduct	-609.92			
	For Class 54 Rating, Add	840.15			
	For Class 55 Rating, Add	1,253.35			
	For Class 56 Rating, Add	1,661.01			
40 05 19 00-1214	EA 12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,442.41		467.13	
	For Class 52 Rating, Deduct	-630.81			
	For Class 54 Rating, Add	868.69			
	For Class 55 Rating, Add	1,295.81			
	For Class 56 Rating, Add	1,717.20			
40 05 19 00-1215	EA 12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,636.66		469.98	
	For Class 52 Rating, Deduct	-651.70			
	For Class 54 Rating, Add	897.23			
	For Class 55 Rating, Add	1,338.27			
	For Class 56 Rating, Add	1,773.38			
40 05 19 00-1216	EA 12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,830.92		472.84	
	For Class 52 Rating, Deduct	-672.60			
	For Class 54 Rating, Add	925.77			
	For Class 55 Rating, Add	1,380.73			
	For Class 56 Rating, Add	1,829.57			
40 05 19 00-1217	EA 12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,025.18		475.68	
	For Class 52 Rating, Deduct	-693.49			
	For Class 54 Rating, Add	954.32			
	For Class 55 Rating, Add	1,423.19			
	For Class 56 Rating, Add	1,885.76			
40 05 19 00-1218	EA 12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,219.43		478.53	
	For Class 52 Rating, Deduct	-714.38			
	For Class 54 Rating, Add	982.86			
	For Class 55 Rating, Add	1,465.65			
	For Class 56 Rating, Add	1,941.95			
40 05 19 00-1219	EA 12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,413.68		481.38	
	For Class 52 Rating, Deduct	-735.28			
	For Class 54 Rating, Add	1,011.40			
	For Class 55 Rating, Add	1,508.11			
	For Class 56 Rating, Add	1,998.13			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1220	EA	12"	Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,607.95	484.21
			For Class 52 Rating, Deduct	-756.17	
			For Class 54 Rating, Add	1,039.94	
			For Class 55 Rating, Add	1,550.57	
			For Class 56 Rating, Add	2,054.32	
40 05 19 00-1221	EA	12"	Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,802.20	487.07
			For Class 52 Rating, Deduct	-777.06	
			For Class 54 Rating, Add	1,068.49	
			For Class 55 Rating, Add	1,593.03	
			For Class 56 Rating, Add	2,110.51	
40 05 19 00-1222	EA	12"	Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,996.45	489.92
			For Class 52 Rating, Deduct	-797.96	
			For Class 54 Rating, Add	1,097.03	
			For Class 55 Rating, Add	1,635.49	
			For Class 56 Rating, Add	2,166.70	
40 05 19 00-1223	EA	12"	Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,190.71	492.77
			For Class 52 Rating, Deduct	-818.65	
			For Class 54 Rating, Add	1,125.57	
			For Class 55 Rating, Add	1,677.95	
			For Class 56 Rating, Add	2,222.88	
40 05 19 00-1224	EA	12"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,384.97	495.61
			For Class 52 Rating, Deduct	-839.74	
			For Class 54 Rating, Add	1,154.12	
			For Class 55 Rating, Add	1,720.41	
			For Class 56 Rating, Add	2,279.07	
40 05 19 00-1225	EA	12"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,579.22	498.47
			For Class 52 Rating, Deduct	-860.64	
			For Class 54 Rating, Add	1,182.66	
			For Class 55 Rating, Add	1,762.87	
			For Class 56 Rating, Add	2,335.26	
40 05 19 00-1226	EA	12"	Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,773.47	501.32
			For Class 52 Rating, Deduct	-881.53	
			For Class 54 Rating, Add	1,211.20	
			For Class 55 Rating, Add	1,805.33	
			For Class 56 Rating, Add	2,391.45	
40 05 19 00-1227	EA	12"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,967.74	504.16
			For Class 52 Rating, Deduct	-902.42	
			For Class 54 Rating, Add	1,239.74	
			For Class 55 Rating, Add	1,847.79	
			For Class 56 Rating, Add	2,447.64	
40 05 19 00-1228	EA	12"	Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,161.99	507.01
			For Class 52 Rating, Deduct	-923.32	
			For Class 54 Rating, Add	1,268.29	
			For Class 55 Rating, Add	1,890.25	
			For Class 56 Rating, Add	2,503.82	
40 05 19 00-1229			14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1230	EA	14"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,403.28	478.53
			For Class 52 Rating, Deduct	-184.61	
			For Class 54 Rating, Add	260.44	
			For Class 55 Rating, Add	391.65	
			For Class 56 Rating, Add	521.18	
40 05 19 00-1231	EA	14"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,639.16	481.38
			For Class 52 Rating, Deduct	-210.08	
			For Class 54 Rating, Add	295.22	
			For Class 55 Rating, Add	443.39	
			For Class 56 Rating, Add	589.65	
40 05 19 00-1232	EA	14"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,875.06	484.21
			For Class 52 Rating, Deduct	-235.55	
			For Class 54 Rating, Add	330.01	
			For Class 55 Rating, Add	495.14	
			For Class 56 Rating, Add	658.12	
40 05 19 00-1233	EA	14"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,110.94	487.07
			For Class 52 Rating, Deduct	-261.02	
			For Class 54 Rating, Add	364.80	
			For Class 55 Rating, Add	546.88	
			For Class 56 Rating, Add	726.59	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1234	EA	14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,346.82	489.92
		For Class 52 Rating, Deduct		-286.50	
		For Class 54 Rating, Add		399.59	
		For Class 55 Rating, Add		598.62	
		For Class 56 Rating, Add		795.06	
40 05 19 00-1235	EA	14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,582.71	492.77
		For Class 52 Rating, Deduct		-311.97	
		For Class 54 Rating, Add		434.37	
		For Class 55 Rating, Add		650.37	
		For Class 56 Rating, Add		863.52	
40 05 19 00-1236	EA	14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,818.60	495.61
		For Class 52 Rating, Deduct		-337.44	
		For Class 54 Rating, Add		469.16	
		For Class 55 Rating, Add		702.11	
		For Class 56 Rating, Add		931.99	
40 05 19 00-1237	EA	14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,054.48	498.47
		For Class 52 Rating, Deduct		-362.92	
		For Class 54 Rating, Add		503.95	
		For Class 55 Rating, Add		753.85	
		For Class 56 Rating, Add		1,000.46	
40 05 19 00-1238	EA	14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,290.37	501.32
		For Class 52 Rating, Deduct		-388.39	
		For Class 54 Rating, Add		538.74	
		For Class 55 Rating, Add		805.60	
		For Class 56 Rating, Add		1,068.93	
40 05 19 00-1239	EA	14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,526.27	504.16
		For Class 52 Rating, Deduct		-413.86	
		For Class 54 Rating, Add		573.52	
		For Class 55 Rating, Add		857.34	
		For Class 56 Rating, Add		1,137.40	
40 05 19 00-1240	EA	14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,762.15	507.01
		For Class 52 Rating, Deduct		-439.33	
		For Class 54 Rating, Add		608.31	
		For Class 55 Rating, Add		909.09	
		For Class 56 Rating, Add		1,205.87	
40 05 19 00-1241	EA	14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,998.03	509.86
		For Class 52 Rating, Deduct		-464.81	
		For Class 54 Rating, Add		643.10	
		For Class 55 Rating, Add		960.83	
		For Class 56 Rating, Add		1,274.34	
40 05 19 00-1242	EA	14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,233.92	512.72
		For Class 52 Rating, Deduct		-490.28	
		For Class 54 Rating, Add		677.89	
		For Class 55 Rating, Add		1,012.57	
		For Class 56 Rating, Add		1,342.81	
40 05 19 00-1243	EA	14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,469.81	515.55
		For Class 52 Rating, Deduct		-515.75	
		For Class 54 Rating, Add		712.67	
		For Class 55 Rating, Add		1,064.32	
		For Class 56 Rating, Add		1,411.28	
40 05 19 00-1244	EA	14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,705.69	518.40
		For Class 52 Rating, Deduct		-541.23	
		For Class 54 Rating, Add		747.46	
		For Class 55 Rating, Add		1,116.06	
		For Class 56 Rating, Add		1,479.74	
40 05 19 00-1245	EA	14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,941.58	521.25
		For Class 52 Rating, Deduct		-566.70	
		For Class 54 Rating, Add		782.25	
		For Class 55 Rating, Add		1,167.81	
		For Class 56 Rating, Add		1,548.21	
40 05 19 00-1246	EA	14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,177.46	524.09
		For Class 52 Rating, Deduct		-592.17	
		For Class 54 Rating, Add		817.03	
		For Class 55 Rating, Add		1,219.55	
		For Class 56 Rating, Add		1,616.68	
40 05 19 00-1247	EA	14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,413.35	526.95
		For Class 52 Rating, Deduct		-617.64	
		For Class 54 Rating, Add		851.82	
		For Class 55 Rating, Add		1,271.29	
		For Class 56 Rating, Add		1,685.15	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1248	EA		14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,649.23	529.80
			For Class 52 Rating, Deduct	-643.12	
			For Class 54 Rating, Add	886.61	
			For Class 55 Rating, Add	1,323.04	
			For Class 56 Rating, Add	1,753.62	
40 05 19 00-1249	EA		14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,885.13	532.65
			For Class 52 Rating, Deduct	-668.59	
			For Class 54 Rating, Add	921.40	
			For Class 55 Rating, Add	1,374.78	
			For Class 56 Rating, Add	1,822.09	
40 05 19 00-1250	EA		14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,121.01	535.49
			For Class 52 Rating, Deduct	-694.06	
			For Class 54 Rating, Add	956.19	
			For Class 55 Rating, Add	1,426.53	
			For Class 56 Rating, Add	1,890.56	
40 05 19 00-1251	EA		14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,356.90	538.35
			For Class 52 Rating, Deduct	-719.54	
			For Class 54 Rating, Add	990.97	
			For Class 55 Rating, Add	1,478.27	
			For Class 56 Rating, Add	1,959.03	
40 05 19 00-1252	EA		14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,592.79	541.19
			For Class 52 Rating, Deduct	-745.01	
			For Class 54 Rating, Add	1,025.76	
			For Class 55 Rating, Add	1,530.01	
			For Class 56 Rating, Add	2,027.50	
40 05 19 00-1253	EA		14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,828.67	544.04
			For Class 52 Rating, Deduct	-770.48	
			For Class 54 Rating, Add	1,060.55	
			For Class 55 Rating, Add	1,581.76	
			For Class 56 Rating, Add	2,095.96	
40 05 19 00-1254	EA		14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,064.56	546.88
			For Class 52 Rating, Deduct	-795.95	
			For Class 54 Rating, Add	1,095.33	
			For Class 55 Rating, Add	1,633.50	
			For Class 56 Rating, Add	2,164.43	
40 05 19 00-1255	EA		14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,300.45	549.74
			For Class 52 Rating, Deduct	-821.43	
			For Class 54 Rating, Add	1,130.12	
			For Class 55 Rating, Add	1,685.25	
			For Class 56 Rating, Add	2,232.90	
40 05 19 00-1256	EA		14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,536.33	552.59
			For Class 52 Rating, Deduct	-846.90	
			For Class 54 Rating, Add	1,164.91	
			For Class 55 Rating, Add	1,736.99	
			For Class 56 Rating, Add	2,301.37	
40 05 19 00-1257	EA		14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,772.21	555.43
			For Class 52 Rating, Deduct	-872.37	
			For Class 54 Rating, Add	1,199.70	
			For Class 55 Rating, Add	1,788.73	
			For Class 56 Rating, Add	2,369.84	
40 05 19 00-1258	EA		14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,008.11	558.28
			For Class 52 Rating, Deduct	-897.84	
			For Class 54 Rating, Add	1,234.48	
			For Class 55 Rating, Add	1,840.48	
			For Class 56 Rating, Add	2,438.31	
40 05 19 00-1259	EA		14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,243.99	561.13
			For Class 52 Rating, Deduct	-923.32	
			For Class 54 Rating, Add	1,269.27	
			For Class 55 Rating, Add	1,892.22	
			For Class 56 Rating, Add	2,506.78	
40 05 19 00-1260	EA		14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,479.87	563.99
			For Class 52 Rating, Deduct	-948.79	
			For Class 54 Rating, Add	1,304.06	
			For Class 55 Rating, Add	1,943.96	
			For Class 56 Rating, Add	2,575.24	
40 05 19 00-1261	EA		14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,715.76	566.83
			For Class 52 Rating, Deduct	-974.26	
			For Class 54 Rating, Add	1,338.85	
			For Class 55 Rating, Add	1,995.71	
			For Class 56 Rating, Add	2,643.71	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1262	EA	14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,951.66	569.67
		For Class 52 Rating, Deduct		-999.74	
		For Class 54 Rating, Add		1,373.63	
		For Class 55 Rating, Add		2,047.45	
		For Class 56 Rating, Add		2,712.18	
40 05 19 00-1263	EA	14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,187.54	572.52
		For Class 52 Rating, Deduct		-1,025.21	
		For Class 54 Rating, Add		1,408.42	
		For Class 55 Rating, Add		2,099.20	
		For Class 56 Rating, Add		2,780.65	
40 05 19 00-1264	EA	14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,423.42	575.36
		For Class 52 Rating, Deduct		-1,050.68	
		For Class 54 Rating, Add		1,443.21	
		For Class 55 Rating, Add		2,150.94	
		For Class 56 Rating, Add		2,849.12	
40 05 19 00-1265	EA	14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,659.31	578.22
		For Class 52 Rating, Deduct		-1,076.15	
		For Class 54 Rating, Add		1,478.00	
		For Class 55 Rating, Add		2,202.68	
		For Class 56 Rating, Add		2,917.59	
40 05 19 00-1266	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,895.20	581.07
		For Class 52 Rating, Deduct		-1,101.63	
		For Class 54 Rating, Add		1,512.78	
		For Class 55 Rating, Add		2,254.43	
		For Class 56 Rating, Add		2,986.06	
40 05 19 00-1267	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,131.08	583.92
		For Class 52 Rating, Deduct		-1,127.10	
		For Class 54 Rating, Add		1,547.57	
		For Class 55 Rating, Add		2,306.17	
		For Class 56 Rating, Add		3,054.53	
40 05 19 00-1268 16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1269	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,813.88	546.88
		For Class 52 Rating, Deduct		-218.38	
		For Class 54 Rating, Add		307.73	
		For Class 55 Rating, Add		462.60	
		For Class 56 Rating, Add		615.48	
40 05 19 00-1270	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,088.80	549.74
		For Class 52 Rating, Deduct		-248.14	
		For Class 54 Rating, Add		348.37	
		For Class 55 Rating, Add		523.05	
		For Class 56 Rating, Add		695.46	
40 05 19 00-1271	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,363.71	552.59
		For Class 52 Rating, Deduct		-277.91	
		For Class 54 Rating, Add		389.02	
		For Class 55 Rating, Add		583.49	
		For Class 56 Rating, Add		775.45	
40 05 19 00-1272	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,638.62	555.43
		For Class 52 Rating, Deduct		-307.68	
		For Class 54 Rating, Add		429.66	
		For Class 55 Rating, Add		643.94	
		For Class 56 Rating, Add		855.43	
40 05 19 00-1273	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,913.55	558.28
		For Class 52 Rating, Deduct		-337.44	
		For Class 54 Rating, Add		470.30	
		For Class 55 Rating, Add		704.39	
		For Class 56 Rating, Add		935.41	
40 05 19 00-1274	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,188.46	561.13
		For Class 52 Rating, Deduct		-367.21	
		For Class 54 Rating, Add		510.94	
		For Class 55 Rating, Add		764.84	
		For Class 56 Rating, Add		1,015.39	
40 05 19 00-1275	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,463.37	563.99
		For Class 52 Rating, Deduct		-396.97	
		For Class 54 Rating, Add		551.58	
		For Class 55 Rating, Add		825.28	
		For Class 56 Rating, Add		1,095.38	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1276	EA	16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,738.28	566.83
		For Class 52 Rating, Deduct	-426.74	
		For Class 54 Rating, Add	592.22	
		For Class 55 Rating, Add	885.73	
		For Class 56 Rating, Add	1,175.36	
40 05 19 00-1277	EA	16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,013.21	569.67
		For Class 52 Rating, Deduct	-456.51	
		For Class 54 Rating, Add	632.87	
		For Class 55 Rating, Add	946.18	
		For Class 56 Rating, Add	1,255.34	
40 05 19 00-1278	EA	16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,288.12	572.52
		For Class 52 Rating, Deduct	-486.27	
		For Class 54 Rating, Add	673.51	
		For Class 55 Rating, Add	1,006.63	
		For Class 56 Rating, Add	1,335.32	
40 05 19 00-1279	EA	16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,563.03	575.36
		For Class 52 Rating, Deduct	-516.04	
		For Class 54 Rating, Add	714.15	
		For Class 55 Rating, Add	1,067.07	
		For Class 56 Rating, Add	1,415.31	
40 05 19 00-1280	EA	16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,837.95	578.22
		For Class 52 Rating, Deduct	-545.80	
		For Class 54 Rating, Add	754.79	
		For Class 55 Rating, Add	1,127.52	
		For Class 56 Rating, Add	1,495.29	
40 05 19 00-1281	EA	16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,112.87	581.07
		For Class 52 Rating, Deduct	-575.57	
		For Class 54 Rating, Add	795.43	
		For Class 55 Rating, Add	1,187.97	
		For Class 56 Rating, Add	1,575.27	
40 05 19 00-1282	EA	16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,387.78	583.92
		For Class 52 Rating, Deduct	-605.34	
		For Class 54 Rating, Add	836.08	
		For Class 55 Rating, Add	1,248.42	
		For Class 56 Rating, Add	1,655.25	
40 05 19 00-1283	EA	16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,662.70	586.76
		For Class 52 Rating, Deduct	-635.10	
		For Class 54 Rating, Add	876.72	
		For Class 55 Rating, Add	1,308.86	
		For Class 56 Rating, Add	1,735.24	
40 05 19 00-1284	EA	16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,937.62	589.62
		For Class 52 Rating, Deduct	-664.87	
		For Class 54 Rating, Add	917.36	
		For Class 55 Rating, Add	1,369.31	
		For Class 56 Rating, Add	1,815.22	
40 05 19 00-1285	EA	16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,212.53	592.47
		For Class 52 Rating, Deduct	-694.63	
		For Class 54 Rating, Add	958.00	
		For Class 55 Rating, Add	1,429.76	
		For Class 56 Rating, Add	1,895.20	
40 05 19 00-1286	EA	16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,487.44	595.30
		For Class 52 Rating, Deduct	-724.40	
		For Class 54 Rating, Add	998.64	
		For Class 55 Rating, Add	1,490.21	
		For Class 56 Rating, Add	1,975.18	
40 05 19 00-1287	EA	16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,762.36	598.15
		For Class 52 Rating, Deduct	-754.17	
		For Class 54 Rating, Add	1,039.28	
		For Class 55 Rating, Add	1,550.65	
		For Class 56 Rating, Add	2,055.16	
40 05 19 00-1288	EA	16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,037.28	601.01
		For Class 52 Rating, Deduct	-783.93	
		For Class 54 Rating, Add	1,079.93	
		For Class 55 Rating, Add	1,611.10	
		For Class 56 Rating, Add	2,135.15	
40 05 19 00-1289	EA	16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,312.19	603.86
		For Class 52 Rating, Deduct	-813.70	
		For Class 54 Rating, Add	1,120.57	
		For Class 55 Rating, Add	1,671.55	
		For Class 56 Rating, Add	2,215.13	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1290	EA	16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,587.11		606.70
		For Class 52 Rating, Deduct	-843.46		
		For Class 54 Rating, Add	1,161.21		
		For Class 55 Rating, Add	1,731.99		
		For Class 56 Rating, Add	2,295.11		
40 05 19 00-1291	EA	16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,862.02		609.55
		For Class 52 Rating, Deduct	-873.23		
		For Class 54 Rating, Add	1,201.85		
		For Class 55 Rating, Add	1,792.44		
		For Class 56 Rating, Add	2,375.09		
40 05 19 00-1292	EA	16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,136.94		612.40
		For Class 52 Rating, Deduct	-903.00		
		For Class 54 Rating, Add	1,242.49		
		For Class 55 Rating, Add	1,852.89		
		For Class 56 Rating, Add	2,455.08		
40 05 19 00-1293	EA	16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,411.86		615.26
		For Class 52 Rating, Deduct	-932.76		
		For Class 54 Rating, Add	1,283.14		
		For Class 55 Rating, Add	1,913.34		
		For Class 56 Rating, Add	2,535.06		
40 05 19 00-1294	EA	16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,686.77		618.10
		For Class 52 Rating, Deduct	-962.53		
		For Class 54 Rating, Add	1,323.78		
		For Class 55 Rating, Add	1,973.78		
		For Class 56 Rating, Add	2,615.04		
40 05 19 00-1295	EA	16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,961.69		620.95
		For Class 52 Rating, Deduct	-992.29		
		For Class 54 Rating, Add	1,364.42		
		For Class 55 Rating, Add	2,034.23		
		For Class 56 Rating, Add	2,695.02		
40 05 19 00-1296	EA	16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,236.60		623.80
		For Class 52 Rating, Deduct	-1,022.06		
		For Class 54 Rating, Add	1,405.06		
		For Class 55 Rating, Add	2,094.68		
		For Class 56 Rating, Add	2,775.01		
40 05 19 00-1297	EA	16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,511.52		626.63
		For Class 52 Rating, Deduct	-1,051.83		
		For Class 54 Rating, Add	1,445.70		
		For Class 55 Rating, Add	2,155.13		
		For Class 56 Rating, Add	2,854.99		
40 05 19 00-1298	EA	16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,786.43		629.49
		For Class 52 Rating, Deduct	-1,081.59		
		For Class 54 Rating, Add	1,486.34		
		For Class 55 Rating, Add	2,215.57		
		For Class 56 Rating, Add	2,934.97		
40 05 19 00-1299	EA	16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,061.35		632.34
		For Class 52 Rating, Deduct	-1,111.36		
		For Class 54 Rating, Add	1,526.99		
		For Class 55 Rating, Add	2,276.02		
		For Class 56 Rating, Add	3,014.95		
40 05 19 00-1300	EA	16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,336.27		635.19
		For Class 52 Rating, Deduct	-1,141.12		
		For Class 54 Rating, Add	1,567.63		
		For Class 55 Rating, Add	2,336.47		
		For Class 56 Rating, Add	3,094.94		
40 05 19 00-1301	EA	16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,611.17		638.03
		For Class 52 Rating, Deduct	-1,170.89		
		For Class 54 Rating, Add	1,608.27		
		For Class 55 Rating, Add	2,396.91		
		For Class 56 Rating, Add	3,174.91		
40 05 19 00-1302	EA	16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,886.08		640.89
		For Class 52 Rating, Deduct	-1,200.66		
		For Class 54 Rating, Add	1,648.91		
		For Class 55 Rating, Add	2,457.36		
		For Class 56 Rating, Add	3,254.90		
40 05 19 00-1303	EA	16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,161.01		643.74
		For Class 52 Rating, Deduct	-1,230.42		
		For Class 54 Rating, Add	1,689.55		
		For Class 55 Rating, Add	2,517.81		
		For Class 56 Rating, Add	3,334.88		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1304	EA		16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,435.92	646.58
			For Class 52 Rating, Deduct	-1,260.19	
			For Class 54 Rating, Add	1,730.19	
			For Class 55 Rating, Add	2,578.26	
			For Class 56 Rating, Add	3,414.86	
40 05 19 00-1305	EA		16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,710.83	649.43
			For Class 52 Rating, Deduct	-1,289.95	
			For Class 54 Rating, Add	1,770.84	
			For Class 55 Rating, Add	2,638.70	
			For Class 56 Rating, Add	3,494.84	
40 05 19 00-1306	EA		16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,985.75	652.27
			For Class 52 Rating, Deduct	-1,319.72	
			For Class 54 Rating, Add	1,811.48	
			For Class 55 Rating, Add	2,699.15	
			For Class 56 Rating, Add	3,574.83	
40 05 19 00-1307			18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1308	EA		18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,262.65	616.39
			For Class 52 Rating, Deduct	-256.16	
			For Class 54 Rating, Add	360.52	
			For Class 55 Rating, Add	541.72	
			For Class 56 Rating, Add	720.59	
40 05 19 00-1309	EA		18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,579.19	619.24
			For Class 52 Rating, Deduct	-290.50	
			For Class 54 Rating, Add	407.40	
			For Class 55 Rating, Add	611.45	
			For Class 56 Rating, Add	812.86	
40 05 19 00-1310	EA		18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,895.73	622.09
			For Class 52 Rating, Deduct	-324.85	
			For Class 54 Rating, Add	454.29	
			For Class 55 Rating, Add	681.18	
			For Class 56 Rating, Add	905.12	
40 05 19 00-1311	EA		18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,212.28	624.94
			For Class 52 Rating, Deduct	-359.20	
			For Class 54 Rating, Add	501.17	
			For Class 55 Rating, Add	750.91	
			For Class 56 Rating, Add	997.38	
40 05 19 00-1312	EA		18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,528.83	627.79
			For Class 52 Rating, Deduct	-393.54	
			For Class 54 Rating, Add	548.06	
			For Class 55 Rating, Add	820.64	
			For Class 56 Rating, Add	1,089.65	
40 05 19 00-1313	EA		18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,845.37	630.62
			For Class 52 Rating, Deduct	-427.89	
			For Class 54 Rating, Add	594.95	
			For Class 55 Rating, Add	890.37	
			For Class 56 Rating, Add	1,181.91	
40 05 19 00-1314	EA		18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,161.92	633.47
			For Class 52 Rating, Deduct	-462.23	
			For Class 54 Rating, Add	641.83	
			For Class 55 Rating, Add	960.10	
			For Class 56 Rating, Add	1,274.17	
40 05 19 00-1315	EA		18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,478.47	636.33
			For Class 52 Rating, Deduct	-496.58	
			For Class 54 Rating, Add	688.72	
			For Class 55 Rating, Add	1,029.83	
			For Class 56 Rating, Add	1,366.44	
40 05 19 00-1316	EA		18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,795.01	639.18
			For Class 52 Rating, Deduct	-530.92	
			For Class 54 Rating, Add	735.61	
			For Class 55 Rating, Add	1,099.57	
			For Class 56 Rating, Add	1,458.70	
40 05 19 00-1317	EA		18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,111.55	642.02
			For Class 52 Rating, Deduct	-565.27	
			For Class 54 Rating, Add	782.49	
			For Class 55 Rating, Add	1,169.30	
			For Class 56 Rating, Add	1,550.96	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1318	EA	18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,428.11	644.87
		For Class 52 Rating, Deduct		-599.61	
		For Class 54 Rating, Add		829.38	
		For Class 55 Rating, Add		1,239.03	
		For Class 56 Rating, Add		1,643.23	
40 05 19 00-1319	EA	18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,744.65	647.73
		For Class 52 Rating, Deduct		-633.96	
		For Class 54 Rating, Add		876.26	
		For Class 55 Rating, Add		1,308.76	
		For Class 56 Rating, Add		1,735.49	
40 05 19 00-1320	EA	18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,061.19	650.57
		For Class 52 Rating, Deduct		-668.30	
		For Class 54 Rating, Add		923.15	
		For Class 55 Rating, Add		1,378.49	
		For Class 56 Rating, Add		1,827.75	
40 05 19 00-1321	EA	18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,377.73	653.42
		For Class 52 Rating, Deduct		-702.65	
		For Class 54 Rating, Add		970.04	
		For Class 55 Rating, Add		1,448.22	
		For Class 56 Rating, Add		1,920.02	
40 05 19 00-1322	EA	18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,694.29	656.27
		For Class 52 Rating, Deduct		-736.99	
		For Class 54 Rating, Add		1,016.92	
		For Class 55 Rating, Add		1,517.95	
		For Class 56 Rating, Add		2,012.28	
40 05 19 00-1323	EA	18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,010.83	659.11
		For Class 52 Rating, Deduct		-771.34	
		For Class 54 Rating, Add		1,063.81	
		For Class 55 Rating, Add		1,587.68	
		For Class 56 Rating, Add		2,104.54	
40 05 19 00-1324	EA	18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,327.37	661.96
		For Class 52 Rating, Deduct		-805.68	
		For Class 54 Rating, Add		1,110.70	
		For Class 55 Rating, Add		1,657.41	
		For Class 56 Rating, Add		2,196.80	
40 05 19 00-1325	EA	18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,643.93	664.81
		For Class 52 Rating, Deduct		-840.03	
		For Class 54 Rating, Add		1,157.58	
		For Class 55 Rating, Add		1,727.15	
		For Class 56 Rating, Add		2,289.07	
40 05 19 00-1326	EA	18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,960.48	667.66
		For Class 52 Rating, Deduct		-874.38	
		For Class 54 Rating, Add		1,204.47	
		For Class 55 Rating, Add		1,796.88	
		For Class 56 Rating, Add		2,381.33	
40 05 19 00-1327	EA	18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,277.02	670.50
		For Class 52 Rating, Deduct		-908.72	
		For Class 54 Rating, Add		1,251.36	
		For Class 55 Rating, Add		1,866.61	
		For Class 56 Rating, Add		2,473.60	
40 05 19 00-1328	EA	18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,593.57	673.35
		For Class 52 Rating, Deduct		-943.07	
		For Class 54 Rating, Add		1,298.24	
		For Class 55 Rating, Add		1,936.34	
		For Class 56 Rating, Add		2,565.86	
40 05 19 00-1329	EA	18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,910.12	676.21
		For Class 52 Rating, Deduct		-977.41	
		For Class 54 Rating, Add		1,345.13	
		For Class 55 Rating, Add		2,006.07	
		For Class 56 Rating, Add		2,658.12	
40 05 19 00-1330	EA	18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,226.66	679.06
		For Class 52 Rating, Deduct		-1,011.76	
		For Class 54 Rating, Add		1,392.01	
		For Class 55 Rating, Add		2,075.80	
		For Class 56 Rating, Add		2,750.39	
40 05 19 00-1331	EA	18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,543.21	681.90
		For Class 52 Rating, Deduct		-1,046.10	
		For Class 54 Rating, Add		1,438.90	
		For Class 55 Rating, Add		2,145.53	
		For Class 56 Rating, Add		2,842.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1332	EA		18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,859.75	684.74
			For Class 52 Rating, Deduct	-1,080.45	
			For Class 54 Rating, Add	1,485.79	
			For Class 55 Rating, Add	2,215.26	
			For Class 56 Rating, Add	2,934.91	
40 05 19 00-1333	EA		18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,176.30	687.60
			For Class 52 Rating, Deduct	-1,114.79	
			For Class 54 Rating, Add	1,532.67	
			For Class 55 Rating, Add	2,284.99	
			For Class 56 Rating, Add	3,027.18	
40 05 19 00-1334	EA		18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,492.84	690.45
			For Class 52 Rating, Deduct	-1,149.14	
			For Class 54 Rating, Add	1,579.56	
			For Class 55 Rating, Add	2,354.72	
			For Class 56 Rating, Add	3,119.44	
40 05 19 00-1335	EA		18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,809.39	693.29
			For Class 52 Rating, Deduct	-1,183.48	
			For Class 54 Rating, Add	1,626.45	
			For Class 55 Rating, Add	2,424.45	
			For Class 56 Rating, Add	3,211.70	
40 05 19 00-1336	EA		18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,125.93	696.14
			For Class 52 Rating, Deduct	-1,217.63	
			For Class 54 Rating, Add	1,673.33	
			For Class 55 Rating, Add	2,494.19	
			For Class 56 Rating, Add	3,303.97	
40 05 19 00-1337	EA		18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,442.48	699.00
			For Class 52 Rating, Deduct	-1,252.17	
			For Class 54 Rating, Add	1,720.22	
			For Class 55 Rating, Add	2,563.92	
			For Class 56 Rating, Add	3,396.23	
40 05 19 00-1338	EA		18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,759.03	701.84
			For Class 52 Rating, Deduct	-1,286.52	
			For Class 54 Rating, Add	1,767.11	
			For Class 55 Rating, Add	2,633.65	
			For Class 56 Rating, Add	3,488.49	
40 05 19 00-1339	EA		18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,075.57	704.69
			For Class 52 Rating, Deduct	-1,320.86	
			For Class 54 Rating, Add	1,813.99	
			For Class 55 Rating, Add	2,703.38	
			For Class 56 Rating, Add	3,580.76	
40 05 19 00-1340	EA		18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,392.12	707.54
			For Class 52 Rating, Deduct	-1,355.21	
			For Class 54 Rating, Add	1,860.88	
			For Class 55 Rating, Add	2,773.11	
			For Class 56 Rating, Add	3,673.02	
40 05 19 00-1341	EA		18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,708.67	710.39
			For Class 52 Rating, Deduct	-1,389.56	
			For Class 54 Rating, Add	1,907.76	
			For Class 55 Rating, Add	2,842.84	
			For Class 56 Rating, Add	3,765.28	
40 05 19 00-1342	EA		18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,025.21	713.23
			For Class 52 Rating, Deduct	-1,423.90	
			For Class 54 Rating, Add	1,954.65	
			For Class 55 Rating, Add	2,912.57	
			For Class 56 Rating, Add	3,857.55	
40 05 19 00-1343	EA		18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,341.75	716.08
			For Class 52 Rating, Deduct	-1,458.25	
			For Class 54 Rating, Add	2,001.54	
			For Class 55 Rating, Add	2,982.30	
			For Class 56 Rating, Add	3,949.81	
40 05 19 00-1344	EA		18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,658.30	718.93
			For Class 52 Rating, Deduct	-1,492.59	
			For Class 54 Rating, Add	2,048.42	
			For Class 55 Rating, Add	3,052.03	
			For Class 56 Rating, Add	4,042.07	
40 05 19 00-1345	EA		18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,974.85	721.77
			For Class 52 Rating, Deduct	-1,526.94	
			For Class 54 Rating, Add	2,095.31	
			For Class 55 Rating, Add	3,121.76	
			For Class 56 Rating, Add	4,134.34	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1346 20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1347	EA	20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,808.40	703.55
		For Class 52 Rating, Deduct		-301.67	
		For Class 54 Rating, Add		424.15	
		For Class 55 Rating, Add		637.14	
		For Class 56 Rating, Add		847.39	
40 05 19 00-1348	EA	20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,171.79	706.41
		For Class 52 Rating, Deduct		-341.16	
		For Class 54 Rating, Add		478.07	
		For Class 55 Rating, Add		717.32	
		For Class 56 Rating, Add		953.47	
40 05 19 00-1349	EA	20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,535.17	709.24
		For Class 52 Rating, Deduct		-380.66	
		For Class 54 Rating, Add		531.98	
		For Class 55 Rating, Add		797.49	
		For Class 56 Rating, Add		1,059.55	
40 05 19 00-1350	EA	20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,898.55	712.09
		For Class 52 Rating, Deduct		-420.16	
		For Class 54 Rating, Add		585.89	
		For Class 55 Rating, Add		877.67	
		For Class 56 Rating, Add		1,165.63	
40 05 19 00-1351	EA	20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,261.92	714.94
		For Class 52 Rating, Deduct		-459.65	
		For Class 54 Rating, Add		639.80	
		For Class 55 Rating, Add		957.84	
		For Class 56 Rating, Add		1,271.71	
40 05 19 00-1352	EA	20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,625.32	717.78
		For Class 52 Rating, Deduct		-499.15	
		For Class 54 Rating, Add		693.71	
		For Class 55 Rating, Add		1,038.02	
		For Class 56 Rating, Add		1,377.79	
40 05 19 00-1353	EA	20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,988.69	720.64
		For Class 52 Rating, Deduct		-538.65	
		For Class 54 Rating, Add		747.62	
		For Class 55 Rating, Add		1,118.19	
		For Class 56 Rating, Add		1,483.87	
40 05 19 00-1354	EA	20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,352.07	723.49
		For Class 52 Rating, Deduct		-578.15	
		For Class 54 Rating, Add		801.54	
		For Class 55 Rating, Add		1,198.37	
		For Class 56 Rating, Add		1,589.95	
40 05 19 00-1355	EA	20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,715.44	726.34
		For Class 52 Rating, Deduct		-617.64	
		For Class 54 Rating, Add		855.45	
		For Class 55 Rating, Add		1,278.54	
		For Class 56 Rating, Add		1,696.03	
40 05 19 00-1356	EA	20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,078.84	729.18
		For Class 52 Rating, Deduct		-657.14	
		For Class 54 Rating, Add		909.36	
		For Class 55 Rating, Add		1,358.72	
		For Class 56 Rating, Add		1,802.11	
40 05 19 00-1357	EA	20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,442.21	732.04
		For Class 52 Rating, Deduct		-696.64	
		For Class 54 Rating, Add		963.27	
		For Class 55 Rating, Add		1,438.89	
		For Class 56 Rating, Add		1,908.18	
40 05 19 00-1358	EA	20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,805.59	734.88
		For Class 52 Rating, Deduct		-736.14	
		For Class 54 Rating, Add		1,017.18	
		For Class 55 Rating, Add		1,519.07	
		For Class 56 Rating, Add		2,014.27	
40 05 19 00-1359	EA	20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,168.98	737.72
		For Class 52 Rating, Deduct		-775.63	
		For Class 54 Rating, Add		1,071.09	
		For Class 55 Rating, Add		1,599.24	
		For Class 56 Rating, Add		2,120.34	
40 05 19 00-1360	EA	20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,532.36	740.57
		For Class 52 Rating, Deduct		-815.13	
		For Class 54 Rating, Add		1,125.01	
		For Class 55 Rating, Add		1,679.42	
		For Class 56 Rating, Add		2,226.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1361	EA	20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	8,895.73	743.43
		For Class 52 Rating, Deduct		-854.63	
		For Class 54 Rating, Add		1,178.92	
		For Class 55 Rating, Add		1,759.59	
		For Class 56 Rating, Add		2,332.50	
40 05 19 00-1362	EA	20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	9,259.12	746.28
		For Class 52 Rating, Deduct		-894.12	
		For Class 54 Rating, Add		1,232.83	
		For Class 55 Rating, Add		1,839.77	
		For Class 56 Rating, Add		2,438.58	
40 05 19 00-1363	EA	20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	9,622.50	749.12
		For Class 52 Rating, Deduct		-933.62	
		For Class 54 Rating, Add		1,286.74	
		For Class 55 Rating, Add		1,919.94	
		For Class 56 Rating, Add		2,544.66	
40 05 19 00-1364	EA	20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	9,985.88	751.97
		For Class 52 Rating, Deduct		-973.12	
		For Class 54 Rating, Add		1,340.65	
		For Class 55 Rating, Add		2,000.12	
		For Class 56 Rating, Add		2,650.74	
40 05 19 00-1365	EA	20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile	Iron Pipe	10,349.25	754.82
		For Class 52 Rating, Deduct		-1,012.61	
		For Class 54 Rating, Add		1,394.56	
		For Class 55 Rating, Add		2,080.29	
		For Class 56 Rating, Add		2,756.82	
40 05 19 00-1366	EA	20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile	Iron Pipe	10,712.64	757.68
		For Class 52 Rating, Deduct		-1,052.11	
		For Class 54 Rating, Add		1,448.47	
		For Class 55 Rating, Add		2,160.47	
		For Class 56 Rating, Add		2,862.90	
40 05 19 00-1367	EA	20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile	Iron Pipe	11,076.02	760.52
		For Class 52 Rating, Deduct		-1,091.61	
		For Class 54 Rating, Add		1,502.39	
		For Class 55 Rating, Add		2,240.64	
		For Class 56 Rating, Add		2,968.98	
40 05 19 00-1368	EA	20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile	Iron Pipe	11,439.40	763.36
		For Class 52 Rating, Deduct		-1,131.11	
		For Class 54 Rating, Add		1,556.30	
		For Class 55 Rating, Add		2,320.82	
		For Class 56 Rating, Add		3,075.06	
40 05 19 00-1369	EA	20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile	Iron Pipe	11,802.78	766.21
		For Class 52 Rating, Deduct		-1,170.60	
		For Class 54 Rating, Add		1,610.21	
		For Class 55 Rating, Add		2,400.99	
		For Class 56 Rating, Add		3,181.14	
40 05 19 00-1370	EA	20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile	Iron Pipe	12,166.16	769.05
		For Class 52 Rating, Deduct		-1,210.10	
		For Class 54 Rating, Add		1,664.12	
		For Class 55 Rating, Add		2,481.17	
		For Class 56 Rating, Add		3,287.22	
40 05 19 00-1371	EA	20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile	Iron Pipe	12,529.54	771.91
		For Class 52 Rating, Deduct		-1,249.60	
		For Class 54 Rating, Add		1,718.03	
		For Class 55 Rating, Add		2,561.34	
		For Class 56 Rating, Add		3,393.30	
40 05 19 00-1372	EA	20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile	Iron Pipe	12,892.93	774.76
		For Class 52 Rating, Deduct		-1,289.10	
		For Class 54 Rating, Add		1,771.94	
		For Class 55 Rating, Add		2,641.52	
		For Class 56 Rating, Add		3,499.38	
40 05 19 00-1373	EA	20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile	Iron Pipe	13,256.30	777.61
		For Class 52 Rating, Deduct		-1,328.59	
		For Class 54 Rating, Add		1,825.85	
		For Class 55 Rating, Add		2,721.70	
		For Class 56 Rating, Add		3,605.46	
40 05 19 00-1374	EA	20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile	Iron Pipe	13,619.69	780.45
		For Class 52 Rating, Deduct		-1,368.09	
		For Class 54 Rating, Add		1,879.77	
		For Class 55 Rating, Add		2,801.87	
		For Class 56 Rating, Add		3,711.54	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1375	EA	20"	Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,983.06	783.31
			For Class 52 Rating, Deduct	-1,407.59	
			For Class 54 Rating, Add	1,933.68	
			For Class 55 Rating, Add	2,882.05	
			For Class 56 Rating, Add	3,817.62	
40 05 19 00-1376	EA	20"	Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,346.45	786.16
			For Class 52 Rating, Deduct	-1,447.08	
			For Class 54 Rating, Add	1,987.59	
			For Class 55 Rating, Add	2,962.22	
			For Class 56 Rating, Add	3,923.70	
40 05 19 00-1377	EA	20"	Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,709.82	788.99
			For Class 52 Rating, Deduct	-1,486.58	
			For Class 54 Rating, Add	2,041.50	
			For Class 55 Rating, Add	3,042.40	
			For Class 56 Rating, Add	4,029.78	
40 05 19 00-1378	EA	20"	Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,073.21	791.84
			For Class 52 Rating, Deduct	-1,526.08	
			For Class 54 Rating, Add	2,095.41	
			For Class 55 Rating, Add	3,122.57	
			For Class 56 Rating, Add	4,135.86	
40 05 19 00-1379	EA	20"	Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,436.59	794.70
			For Class 52 Rating, Deduct	-1,565.58	
			For Class 54 Rating, Add	2,149.32	
			For Class 55 Rating, Add	3,202.75	
			For Class 56 Rating, Add	4,241.93	
40 05 19 00-1380	EA	20"	Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,799.97	797.55
			For Class 52 Rating, Deduct	-1,605.07	
			For Class 54 Rating, Add	2,203.24	
			For Class 55 Rating, Add	3,282.92	
			For Class 56 Rating, Add	4,348.02	
40 05 19 00-1381	EA	20"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,163.34	800.39
			For Class 52 Rating, Deduct	-1,644.57	
			For Class 54 Rating, Add	2,257.15	
			For Class 55 Rating, Add	3,363.10	
			For Class 56 Rating, Add	4,454.09	
40 05 19 00-1382	EA	20"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,526.74	803.24
			For Class 52 Rating, Deduct	-1,684.07	
			For Class 54 Rating, Add	2,311.06	
			For Class 55 Rating, Add	3,443.27	
			For Class 56 Rating, Add	4,560.17	
40 05 19 00-1383	EA	20"	Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,890.11	806.09
			For Class 52 Rating, Deduct	-1,723.56	
			For Class 54 Rating, Add	2,364.97	
			For Class 55 Rating, Add	3,523.45	
			For Class 56 Rating, Add	4,666.25	
40 05 19 00-1384	EA	20"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,253.49	808.94
			For Class 52 Rating, Deduct	-1,763.06	
			For Class 54 Rating, Add	2,418.88	
			For Class 55 Rating, Add	3,603.62	
			For Class 56 Rating, Add	4,772.33	
40 05 19 00-1385			24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1386	EA	24"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,684.32	831.72
			For Class 52 Rating, Deduct	-376.65	
			For Class 54 Rating, Add	528.74	
			For Class 55 Rating, Add	793.83	
			For Class 56 Rating, Add	1,055.49	
40 05 19 00-1387	EA	24"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,133.57	834.58
			For Class 52 Rating, Deduct	-425.60	
			For Class 54 Rating, Add	595.53	
			For Class 55 Rating, Add	893.15	
			For Class 56 Rating, Add	1,186.90	
40 05 19 00-1388	EA	24"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,582.80	837.43
			For Class 52 Rating, Deduct	-474.54	
			For Class 54 Rating, Add	662.32	
			For Class 55 Rating, Add	992.47	
			For Class 56 Rating, Add	1,318.30	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1389	EA	24"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,032.05	840.27
			For Class 52 Rating, Deduct	-523.48	
			For Class 54 Rating, Add	729.11	
			For Class 55 Rating, Add	1,091.79	
			For Class 56 Rating, Add	1,449.71	
40 05 19 00-1390	EA	24"	Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,481.29	843.12
			For Class 52 Rating, Deduct	-572.42	
			For Class 54 Rating, Add	795.91	
			For Class 55 Rating, Add	1,191.12	
			For Class 56 Rating, Add	1,581.12	
40 05 19 00-1391	EA	24"	Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,930.54	845.96
			For Class 52 Rating, Deduct	-621.36	
			For Class 54 Rating, Add	862.70	
			For Class 55 Rating, Add	1,290.44	
			For Class 56 Rating, Add	1,712.53	
40 05 19 00-1392	EA	24"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,379.78	848.82
			For Class 52 Rating, Deduct	-670.31	
			For Class 54 Rating, Add	929.49	
			For Class 55 Rating, Add	1,389.76	
			For Class 56 Rating, Add	1,843.94	
40 05 19 00-1393	EA	24"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,829.02	851.66
			For Class 52 Rating, Deduct	-719.25	
			For Class 54 Rating, Add	996.28	
			For Class 55 Rating, Add	1,489.08	
			For Class 56 Rating, Add	1,975.35	
40 05 19 00-1394	EA	24"	Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,278.27	854.51
			For Class 52 Rating, Deduct	-768.19	
			For Class 54 Rating, Add	1,063.07	
			For Class 55 Rating, Add	1,588.40	
			For Class 56 Rating, Add	2,106.76	
40 05 19 00-1395	EA	24"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,727.51	857.36
			For Class 52 Rating, Deduct	-817.13	
			For Class 54 Rating, Add	1,129.86	
			For Class 55 Rating, Add	1,687.73	
			For Class 56 Rating, Add	2,238.17	
40 05 19 00-1396	EA	24"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,176.76	860.21
			For Class 52 Rating, Deduct	-866.08	
			For Class 54 Rating, Add	1,196.65	
			For Class 55 Rating, Add	1,787.05	
			For Class 56 Rating, Add	2,369.58	
40 05 19 00-1397	EA	24"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,626.00	863.06
			For Class 52 Rating, Deduct	-915.02	
			For Class 54 Rating, Add	1,263.44	
			For Class 55 Rating, Add	1,886.37	
			For Class 56 Rating, Add	2,500.99	
40 05 19 00-1398	EA	24"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,075.25	865.91
			For Class 52 Rating, Deduct	-963.96	
			For Class 54 Rating, Add	1,330.23	
			For Class 55 Rating, Add	1,985.70	
			For Class 56 Rating, Add	2,632.40	
40 05 19 00-1399	EA	24"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,524.49	868.76
			For Class 52 Rating, Deduct	-1,012.90	
			For Class 54 Rating, Add	1,397.02	
			For Class 55 Rating, Add	2,085.02	
			For Class 56 Rating, Add	2,763.80	
40 05 19 00-1400	EA	24"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,973.73	871.59
			For Class 52 Rating, Deduct	-1,061.64	
			For Class 54 Rating, Add	1,463.82	
			For Class 55 Rating, Add	2,184.34	
			For Class 56 Rating, Add	2,895.21	
40 05 19 00-1401	EA	24"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,422.97	874.45
			For Class 52 Rating, Deduct	-1,110.79	
			For Class 54 Rating, Add	1,530.61	
			For Class 55 Rating, Add	2,283.66	
			For Class 56 Rating, Add	3,026.62	
40 05 19 00-1402	EA	24"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,872.23	877.30
			For Class 52 Rating, Deduct	-1,159.73	
			For Class 54 Rating, Add	1,597.40	
			For Class 55 Rating, Add	2,382.99	
			For Class 56 Rating, Add	3,158.03	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1403	EA	24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,321.47		880.14
		For Class 52 Rating, Deduct	-1,208.67		
		For Class 54 Rating, Add	1,664.19		
		For Class 55 Rating, Add	2,482.31		
		For Class 56 Rating, Add	3,289.44		
40 05 19 00-1404	EA	24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,770.71		882.99
		For Class 52 Rating, Deduct	-1,257.61		
		For Class 54 Rating, Add	1,730.98		
		For Class 55 Rating, Add	2,581.63		
		For Class 56 Rating, Add	3,420.85		
40 05 19 00-1405	EA	24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,219.94		885.85
		For Class 52 Rating, Deduct	-1,306.55		
		For Class 54 Rating, Add	1,797.77		
		For Class 55 Rating, Add	2,680.95		
		For Class 56 Rating, Add	3,552.26		
40 05 19 00-1406	EA	24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,669.20		888.70
		For Class 52 Rating, Deduct	-1,355.50		
		For Class 54 Rating, Add	1,864.56		
		For Class 55 Rating, Add	2,780.28		
		For Class 56 Rating, Add	3,683.67		
40 05 19 00-1407	EA	24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,118.44		891.54
		For Class 52 Rating, Deduct	-1,404.44		
		For Class 54 Rating, Add	1,931.35		
		For Class 55 Rating, Add	2,879.60		
		For Class 56 Rating, Add	3,815.08		
40 05 19 00-1408	EA	24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,567.68		894.39
		For Class 52 Rating, Deduct	-1,453.38		
		For Class 54 Rating, Add	1,998.14		
		For Class 55 Rating, Add	2,978.92		
		For Class 56 Rating, Add	3,946.49		
40 05 19 00-1409	EA	24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,016.94		897.24
		For Class 52 Rating, Deduct	-1,502.32		
		For Class 54 Rating, Add	2,064.94		
		For Class 55 Rating, Add	3,078.25		
		For Class 56 Rating, Add	4,077.90		
40 05 19 00-1410	EA	24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,466.18		900.10
		For Class 52 Rating, Deduct	-1,551.27		
		For Class 54 Rating, Add	2,131.73		
		For Class 55 Rating, Add	3,177.57		
		For Class 56 Rating, Add	4,209.31		
40 05 19 00-1411	EA	24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,915.41		902.93
		For Class 52 Rating, Deduct	-1,600.21		
		For Class 54 Rating, Add	2,198.52		
		For Class 55 Rating, Add	3,276.89		
		For Class 56 Rating, Add	4,340.71		
40 05 19 00-1412	EA	24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,364.66		905.78
		For Class 52 Rating, Deduct	-1,649.15		
		For Class 54 Rating, Add	2,265.31		
		For Class 55 Rating, Add	3,376.21		
		For Class 56 Rating, Add	4,472.12		
40 05 19 00-1413	EA	24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,813.91		908.63
		For Class 52 Rating, Deduct	-1,698.09		
		For Class 54 Rating, Add	2,332.10		
		For Class 55 Rating, Add	3,475.53		
		For Class 56 Rating, Add	4,603.53		
40 05 19 00-1414	EA	24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,263.15		911.47
		For Class 52 Rating, Deduct	-1,747.03		
		For Class 54 Rating, Add	2,398.89		
		For Class 55 Rating, Add	3,574.86		
		For Class 56 Rating, Add	4,734.94		
40 05 19 00-1415	EA	24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,785.77		962.74
		For Class 52 Rating, Deduct	-1,795.98		
		For Class 54 Rating, Add	2,466.56		
		For Class 55 Rating, Add	3,675.94		
		For Class 56 Rating, Add	4,868.99		
40 05 19 00-1416	EA	24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,235.01		965.60
		For Class 52 Rating, Deduct	-1,844.92		
		For Class 54 Rating, Add	2,533.35		
		For Class 55 Rating, Add	3,775.26		
		For Class 56 Rating, Add	5,000.40		



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-1417	EA	24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,684.24	968.45
		For Class 52 Rating, Deduct	-1,893.86	
		For Class 54 Rating, Add	2,600.14	
		For Class 55 Rating, Add	3,874.58	
		For Class 56 Rating, Add	5,131.81	
40 05 19 00-1418	EA	24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,133.50	971.30
		For Class 52 Rating, Deduct	-1,942.80	
		For Class 54 Rating, Add	2,666.93	
		For Class 55 Rating, Add	3,973.91	
		For Class 56 Rating, Add	5,263.22	
40 05 19 00-1419	EA	24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,582.74	974.14
		For Class 52 Rating, Deduct	-1,991.74	
		For Class 54 Rating, Add	2,733.73	
		For Class 55 Rating, Add	4,073.23	
		For Class 56 Rating, Add	5,394.63	
40 05 19 00-1420	EA	24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,031.98	977.00
		For Class 52 Rating, Deduct	-2,040.69	
		For Class 54 Rating, Add	2,800.52	
		For Class 55 Rating, Add	4,172.55	
		For Class 56 Rating, Add	5,526.04	
40 05 19 00-1421	EA	24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,481.22	979.85
		For Class 52 Rating, Deduct	-2,089.63	
		For Class 54 Rating, Add	2,867.31	
		For Class 55 Rating, Add	4,271.88	
		For Class 56 Rating, Add	5,657.45	
40 05 19 00-1422	EA	24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,930.48	982.68
		For Class 52 Rating, Deduct	-2,138.57	
		For Class 54 Rating, Add	2,934.10	
		For Class 55 Rating, Add	4,371.20	
		For Class 56 Rating, Add	5,788.86	
40 05 19 00-1423	EA	24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,379.71	985.53
		For Class 52 Rating, Deduct	-2,187.51	
		For Class 54 Rating, Add	3,000.89	
		For Class 55 Rating, Add	4,470.52	
		For Class 56 Rating, Add	5,920.27	
40 05 19 00-1424		30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1425	EA	30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,190.07	1,173.54
		For Class 52 Rating, Deduct	-595.32	
		For Class 54 Rating, Add	833.14	
		For Class 55 Rating, Add	1,249.55	
		For Class 56 Rating, Add	1,660.55	
40 05 19 00-1426	EA	30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,837.06	1,176.37
		For Class 52 Rating, Deduct	-666.01	
		For Class 54 Rating, Add	929.59	
		For Class 55 Rating, Add	1,392.97	
		For Class 56 Rating, Add	1,850.29	
40 05 19 00-1427	EA	30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,484.05	1,179.22
		For Class 52 Rating, Deduct	-736.71	
		For Class 54 Rating, Add	1,026.04	
		For Class 55 Rating, Add	1,536.39	
		For Class 56 Rating, Add	2,040.04	
40 05 19 00-1428	EA	30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,131.04	1,182.07
		For Class 52 Rating, Deduct	-807.40	
		For Class 54 Rating, Add	1,122.50	
		For Class 55 Rating, Add	1,679.81	
		For Class 56 Rating, Add	2,229.78	
40 05 19 00-1429	EA	30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,778.03	1,184.93
		For Class 52 Rating, Deduct	-878.10	
		For Class 54 Rating, Add	1,218.95	
		For Class 55 Rating, Add	1,823.23	
		For Class 56 Rating, Add	2,419.53	
40 05 19 00-1430	EA	30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,425.02	1,187.77
		For Class 52 Rating, Deduct	-948.79	
		For Class 54 Rating, Add	1,315.40	
		For Class 55 Rating, Add	1,966.65	
		For Class 56 Rating, Add	2,609.27	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431	EA	30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,072.01	1,190.62
		For Class 52 Rating, Deduct		-1,019.48	
		For Class 54 Rating, Add		1,411.85	
		For Class 55 Rating, Add		2,110.07	
		For Class 56 Rating, Add		2,799.01	
40 05 19 00-1432	EA	30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,718.99	1,193.47
		For Class 52 Rating, Deduct		-1,090.18	
		For Class 54 Rating, Add		1,508.31	
		For Class 55 Rating, Add		2,253.49	
		For Class 56 Rating, Add		2,988.76	
40 05 19 00-1433	EA	30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,366.00	1,196.32
		For Class 52 Rating, Deduct		-1,160.87	
		For Class 54 Rating, Add		1,604.76	
		For Class 55 Rating, Add		2,396.91	
		For Class 56 Rating, Add		3,178.50	
40 05 19 00-1434	EA	30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,012.98	1,199.17
		For Class 52 Rating, Deduct		-1,231.57	
		For Class 54 Rating, Add		1,701.21	
		For Class 55 Rating, Add		2,540.33	
		For Class 56 Rating, Add		3,368.25	
40 05 19 00-1435	EA	30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,659.97	1,202.02
		For Class 52 Rating, Deduct		-1,302.26	
		For Class 54 Rating, Add		1,797.67	
		For Class 55 Rating, Add		2,683.75	
		For Class 56 Rating, Add		3,557.99	
40 05 19 00-1436	EA	30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,306.96	1,204.87
		For Class 52 Rating, Deduct		-1,372.96	
		For Class 54 Rating, Add		1,894.12	
		For Class 55 Rating, Add		2,827.17	
		For Class 56 Rating, Add		3,747.74	
40 05 19 00-1437	EA	30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,953.95	1,207.70
		For Class 52 Rating, Deduct		-1,443.65	
		For Class 54 Rating, Add		1,990.57	
		For Class 55 Rating, Add		2,970.59	
		For Class 56 Rating, Add		3,937.48	
40 05 19 00-1438	EA	30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,600.94	1,210.56
		For Class 52 Rating, Deduct		-1,514.34	
		For Class 54 Rating, Add		2,087.02	
		For Class 55 Rating, Add		3,114.01	
		For Class 56 Rating, Add		4,127.22	
40 05 19 00-1439	EA	30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		16,247.92	1,213.41
		For Class 52 Rating, Deduct		-1,585.04	
		For Class 54 Rating, Add		2,183.48	
		For Class 55 Rating, Add		3,257.43	
		For Class 56 Rating, Add		4,316.97	
40 05 19 00-1440	EA	30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		16,894.93	1,216.25
		For Class 52 Rating, Deduct		-1,655.73	
		For Class 54 Rating, Add		2,279.93	
		For Class 55 Rating, Add		3,400.85	
		For Class 56 Rating, Add		4,506.71	
40 05 19 00-1441	EA	30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		17,541.91	1,219.10
		For Class 52 Rating, Deduct		-1,726.43	
		For Class 54 Rating, Add		2,376.38	
		For Class 55 Rating, Add		3,544.27	
		For Class 56 Rating, Add		4,696.46	
40 05 19 00-1442	EA	30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		18,188.90	1,221.96
		For Class 52 Rating, Deduct		-1,797.12	
		For Class 54 Rating, Add		2,472.84	
		For Class 55 Rating, Add		3,687.69	
		For Class 56 Rating, Add		4,886.20	
40 05 19 00-1443	EA	30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		18,835.89	1,224.81
		For Class 52 Rating, Deduct		-1,867.81	
		For Class 54 Rating, Add		2,569.29	
		For Class 55 Rating, Add		3,831.11	
		For Class 56 Rating, Add		5,075.95	
40 05 19 00-1444	EA	30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		19,482.88	1,227.65
		For Class 52 Rating, Deduct		-1,938.51	
		For Class 54 Rating, Add		2,665.74	
		For Class 55 Rating, Add		3,974.53	
		For Class 56 Rating, Add		5,265.69	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1445	EA	30"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,129.87	1,230.50
			For Class 52 Rating, Deduct	-2,009.20	
			For Class 54 Rating, Add	2,762.19	
			For Class 55 Rating, Add	4,117.95	
			For Class 56 Rating, Add	5,455.43	
40 05 19 00-1446	EA	30"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,776.85	1,233.35
			For Class 52 Rating, Deduct	-2,079.90	
			For Class 54 Rating, Add	2,858.65	
			For Class 55 Rating, Add	4,261.37	
			For Class 56 Rating, Add	5,645.18	
40 05 19 00-1447	EA	30"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,423.85	1,236.19
			For Class 52 Rating, Deduct	-2,150.59	
			For Class 54 Rating, Add	2,955.10	
			For Class 55 Rating, Add	4,404.79	
			For Class 56 Rating, Add	5,834.92	
40 05 19 00-1448	EA	30"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,070.84	1,239.04
			For Class 52 Rating, Deduct	-2,221.29	
			For Class 54 Rating, Add	3,051.55	
			For Class 55 Rating, Add	4,548.21	
			For Class 56 Rating, Add	6,024.67	
40 05 19 00-1449	EA	30"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,717.83	1,241.89
			For Class 52 Rating, Deduct	-2,291.98	
			For Class 54 Rating, Add	3,148.01	
			For Class 55 Rating, Add	4,691.63	
			For Class 56 Rating, Add	6,214.41	
40 05 19 00-1450	EA	30"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,364.82	1,244.74
			For Class 52 Rating, Deduct	-2,362.67	
			For Class 54 Rating, Add	3,244.46	
			For Class 55 Rating, Add	4,835.05	
			For Class 56 Rating, Add	6,404.16	
40 05 19 00-1451	EA	30"	Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,011.81	1,247.58
			For Class 52 Rating, Deduct	-2,433.37	
			For Class 54 Rating, Add	3,340.91	
			For Class 55 Rating, Add	4,978.47	
			For Class 56 Rating, Add	6,593.90	
40 05 19 00-1452	EA	30"	Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,658.80	1,250.44
			For Class 52 Rating, Deduct	-2,504.06	
			For Class 54 Rating, Add	3,437.37	
			For Class 55 Rating, Add	5,121.89	
			For Class 56 Rating, Add	6,783.64	
40 05 19 00-1453	EA	30"	Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,305.79	1,253.29
			For Class 52 Rating, Deduct	-2,574.76	
			For Class 54 Rating, Add	3,533.82	
			For Class 55 Rating, Add	5,265.31	
			For Class 56 Rating, Add	6,973.39	
40 05 19 00-1454	EA	30"	Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,952.78	1,256.14
			For Class 52 Rating, Deduct	-2,645.45	
			For Class 54 Rating, Add	3,630.27	
			For Class 55 Rating, Add	5,408.73	
			For Class 56 Rating, Add	7,163.13	
40 05 19 00-1455	EA	30"	Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,599.77	1,258.98
			For Class 52 Rating, Deduct	-2,716.14	
			For Class 54 Rating, Add	3,726.72	
			For Class 55 Rating, Add	5,552.15	
			For Class 56 Rating, Add	7,352.88	
40 05 19 00-1456	EA	30"	Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,246.77	1,261.83
			For Class 52 Rating, Deduct	-2,786.84	
			For Class 54 Rating, Add	3,823.18	
			For Class 55 Rating, Add	5,695.57	
			For Class 56 Rating, Add	7,542.62	
40 05 19 00-1457	EA	30"	Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,893.75	1,264.68
			For Class 52 Rating, Deduct	-2,857.53	
			For Class 54 Rating, Add	3,919.63	
			For Class 55 Rating, Add	5,838.99	
			For Class 56 Rating, Add	7,732.37	
40 05 19 00-1458	EA	30"	Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,540.73	1,267.52
			For Class 52 Rating, Deduct	-2,928.23	
			For Class 54 Rating, Add	4,016.08	
			For Class 55 Rating, Add	5,982.41	
			For Class 56 Rating, Add	7,922.11	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1459	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,187.73	1,270.37
			For Class 52 Rating, Deduct	-2,998.92	
			For Class 54 Rating, Add	4,112.54	
			For Class 55 Rating, Add	6,125.83	
			For Class 56 Rating, Add	8,111.85	
40 05 19 00-1460	EA		30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,834.72	1,273.23
			For Class 52 Rating, Deduct	-3,069.61	
			For Class 54 Rating, Add	4,208.99	
			For Class 55 Rating, Add	6,269.25	
			For Class 56 Rating, Add	8,301.60	
40 05 19 00-1461	EA		30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,481.71	1,276.08
			For Class 52 Rating, Deduct	-3,140.31	
			For Class 54 Rating, Add	4,305.44	
			For Class 55 Rating, Add	6,412.67	
			For Class 56 Rating, Add	8,491.34	
40 05 19 00-1462	EA		30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,128.70	1,278.92
			For Class 52 Rating, Deduct	-3,211.00	
			For Class 54 Rating, Add	4,401.89	
			For Class 55 Rating, Add	6,556.09	
			For Class 56 Rating, Add	8,681.09	
40 05 19 00-1463 36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1464	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,959.69	1,486.85
			For Class 52 Rating, Deduct	-847.76	
			For Class 54 Rating, Add	1,183.07	
			For Class 55 Rating, Add	1,772.70	
			For Class 56 Rating, Add	2,354.63	
40 05 19 00-1465	EA		36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,838.25	1,489.70
			For Class 52 Rating, Deduct	-943.92	
			For Class 54 Rating, Add	1,314.25	
			For Class 55 Rating, Add	1,967.76	
			For Class 56 Rating, Add	2,612.69	
40 05 19 00-1466	EA		36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,716.82	1,492.54
			For Class 52 Rating, Deduct	-1,040.09	
			For Class 54 Rating, Add	1,445.44	
			For Class 55 Rating, Add	2,162.82	
			For Class 56 Rating, Add	2,870.75	
40 05 19 00-1467	EA		36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,595.37	1,495.40
			For Class 52 Rating, Deduct	-1,136.26	
			For Class 54 Rating, Add	1,576.63	
			For Class 55 Rating, Add	2,357.88	
			For Class 56 Rating, Add	3,128.80	
40 05 19 00-1468	EA		36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,473.94	1,498.25
			For Class 52 Rating, Deduct	-1,232.43	
			For Class 54 Rating, Add	1,707.82	
			For Class 55 Rating, Add	2,552.94	
			For Class 56 Rating, Add	3,386.86	
40 05 19 00-1469	EA		36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,352.49	1,501.09
			For Class 52 Rating, Deduct	-1,328.59	
			For Class 54 Rating, Add	1,839.01	
			For Class 55 Rating, Add	2,748.00	
			For Class 56 Rating, Add	3,644.92	
40 05 19 00-1470	EA		36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,231.06	1,503.94
			For Class 52 Rating, Deduct	-1,424.76	
			For Class 54 Rating, Add	1,970.20	
			For Class 55 Rating, Add	2,943.07	
			For Class 56 Rating, Add	3,902.98	
40 05 19 00-1471	EA		36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,109.62	1,506.80
			For Class 52 Rating, Deduct	-1,520.93	
			For Class 54 Rating, Add	2,101.39	
			For Class 55 Rating, Add	3,138.12	
			For Class 56 Rating, Add	4,161.04	
40 05 19 00-1472	EA		36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,988.18	1,509.65
			For Class 52 Rating, Deduct	-1,617.09	
			For Class 54 Rating, Add	2,232.58	
			For Class 55 Rating, Add	3,333.19	
			For Class 56 Rating, Add	4,419.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1473	EA	36"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,866.74	1,512.48
			For Class 52 Rating, Deduct	-1,713.26	
			For Class 54 Rating, Add	2,363.76	
			For Class 55 Rating, Add	3,528.24	
			For Class 56 Rating, Add	4,677.15	
40 05 19 00-1474	EA	36"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,745.31	1,515.33
			For Class 52 Rating, Deduct	-1,809.43	
			For Class 54 Rating, Add	2,494.95	
			For Class 55 Rating, Add	3,723.31	
			For Class 56 Rating, Add	4,935.21	
40 05 19 00-1475	EA	36"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,623.86	1,518.19
			For Class 52 Rating, Deduct	-1,905.59	
			For Class 54 Rating, Add	2,626.14	
			For Class 55 Rating, Add	3,918.37	
			For Class 56 Rating, Add	5,193.27	
40 05 19 00-1476	EA	36"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,502.42	1,521.03
			For Class 52 Rating, Deduct	-2,001.76	
			For Class 54 Rating, Add	2,757.33	
			For Class 55 Rating, Add	4,113.43	
			For Class 56 Rating, Add	5,451.33	
40 05 19 00-1477	EA	36"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,380.98	1,523.88
			For Class 52 Rating, Deduct	-2,097.93	
			For Class 54 Rating, Add	2,888.52	
			For Class 55 Rating, Add	4,308.49	
			For Class 56 Rating, Add	5,709.38	
40 05 19 00-1478	EA	36"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,259.55	1,526.73
			For Class 52 Rating, Deduct	-2,194.10	
			For Class 54 Rating, Add	3,019.71	
			For Class 55 Rating, Add	4,503.55	
			For Class 56 Rating, Add	5,967.44	
40 05 19 00-1479	EA	36"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,138.10	1,529.58
			For Class 52 Rating, Deduct	-2,290.26	
			For Class 54 Rating, Add	3,150.89	
			For Class 55 Rating, Add	4,698.61	
			For Class 56 Rating, Add	6,225.50	
40 05 19 00-1480	EA	36"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,016.66	1,532.43
			For Class 52 Rating, Deduct	-2,386.43	
			For Class 54 Rating, Add	3,282.08	
			For Class 55 Rating, Add	4,893.67	
			For Class 56 Rating, Add	6,483.56	
40 05 19 00-1481	EA	36"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,895.23	1,535.28
			For Class 52 Rating, Deduct	-2,482.60	
			For Class 54 Rating, Add	3,413.27	
			For Class 55 Rating, Add	5,088.73	
			For Class 56 Rating, Add	6,741.61	
40 05 19 00-1482	EA	36"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,773.79	1,538.12
			For Class 52 Rating, Deduct	-2,578.76	
			For Class 54 Rating, Add	3,544.46	
			For Class 55 Rating, Add	5,283.79	
			For Class 56 Rating, Add	6,999.67	
40 05 19 00-1483	EA	36"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,652.34	1,540.97
			For Class 52 Rating, Deduct	-2,674.93	
			For Class 54 Rating, Add	3,675.65	
			For Class 55 Rating, Add	5,478.85	
			For Class 56 Rating, Add	7,257.73	
40 05 19 00-1484	EA	36"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,530.91	1,543.81
			For Class 52 Rating, Deduct	-2,771.10	
			For Class 54 Rating, Add	3,806.84	
			For Class 55 Rating, Add	5,673.91	
			For Class 56 Rating, Add	7,515.79	
40 05 19 00-1485	EA	36"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,409.47	1,546.67
			For Class 52 Rating, Deduct	-2,867.26	
			For Class 54 Rating, Add	3,938.03	
			For Class 55 Rating, Add	5,868.97	
			For Class 56 Rating, Add	7,773.84	
40 05 19 00-1486	EA	36"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,288.03	1,549.52
			For Class 52 Rating, Deduct	-2,963.43	
			For Class 54 Rating, Add	4,069.22	
			For Class 55 Rating, Add	6,064.03	
			For Class 56 Rating, Add	8,031.90	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1487	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,166.58	1,552.36
			For Class 52 Rating, Deduct	-3,059.60	
			For Class 54 Rating, Add	4,200.40	
			For Class 55 Rating, Add	6,259.09	
			For Class 56 Rating, Add	8,289.96	
40 05 19 00-1488	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,045.16	1,555.21
			For Class 52 Rating, Deduct	-3,155.76	
			For Class 54 Rating, Add	4,331.59	
			For Class 55 Rating, Add	6,454.15	
			For Class 56 Rating, Add	8,548.02	
40 05 19 00-1489	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,923.72	1,558.07
			For Class 52 Rating, Deduct	-3,251.93	
			For Class 54 Rating, Add	4,462.78	
			For Class 55 Rating, Add	6,649.21	
			For Class 56 Rating, Add	8,806.08	
40 05 19 00-1490	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,802.27	1,560.92
			For Class 52 Rating, Deduct	-3,348.10	
			For Class 54 Rating, Add	4,593.97	
			For Class 55 Rating, Add	6,844.27	
			For Class 56 Rating, Add	9,064.13	
40 05 19 00-1491	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,680.84	1,563.76
			For Class 52 Rating, Deduct	-3,444.27	
			For Class 54 Rating, Add	4,725.16	
			For Class 55 Rating, Add	7,039.33	
			For Class 56 Rating, Add	9,322.19	
40 05 19 00-1492	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,559.40	1,566.60
			For Class 52 Rating, Deduct	-3,540.43	
			For Class 54 Rating, Add	4,856.35	
			For Class 55 Rating, Add	7,234.39	
			For Class 56 Rating, Add	9,580.25	
40 05 19 00-1493	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,437.96	1,569.45
			For Class 52 Rating, Deduct	-3,636.60	
			For Class 54 Rating, Add	4,987.54	
			For Class 55 Rating, Add	7,429.45	
			For Class 56 Rating, Add	9,838.31	
40 05 19 00-1494	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,316.52	1,572.30
			For Class 52 Rating, Deduct	-3,732.77	
			For Class 54 Rating, Add	5,118.72	
			For Class 55 Rating, Add	7,624.51	
			For Class 56 Rating, Add	10,096.36	
40 05 19 00-1495	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,195.08	1,575.15
			For Class 52 Rating, Deduct	-3,828.93	
			For Class 54 Rating, Add	5,249.91	
			For Class 55 Rating, Add	7,819.57	
			For Class 56 Rating, Add	10,354.42	
40 05 19 00-1496	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,073.64	1,578.00
			For Class 52 Rating, Deduct	-3,925.10	
			For Class 54 Rating, Add	5,381.10	
			For Class 55 Rating, Add	8,014.63	
			For Class 56 Rating, Add	10,612.48	
40 05 19 00-1497	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,952.21	1,580.85
			For Class 52 Rating, Deduct	-4,021.27	
			For Class 54 Rating, Add	5,512.29	
			For Class 55 Rating, Add	8,209.69	
			For Class 56 Rating, Add	10,870.54	
40 05 19 00-1498	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,830.76	1,583.69
			For Class 52 Rating, Deduct	-4,117.43	
			For Class 54 Rating, Add	5,643.48	
			For Class 55 Rating, Add	8,404.75	
			For Class 56 Rating, Add	11,128.59	
40 05 19 00-1499	EA		36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,709.33	1,586.55
			For Class 52 Rating, Deduct	-4,213.60	
			For Class 54 Rating, Add	5,774.67	
			For Class 55 Rating, Add	8,599.81	
			For Class 56 Rating, Add	11,386.65	
40 05 19 00-1500	EA		36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,587.88	1,589.40
			For Class 52 Rating, Deduct	-4,309.77	
			For Class 54 Rating, Add	5,905.85	
			For Class 55 Rating, Add	8,794.87	
			For Class 56 Rating, Add	11,644.71	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1501	EA		36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,466.45	1,592.23
			For Class 52 Rating, Deduct	-4,405.94	
			For Class 54 Rating, Add	6,037.04	
			For Class 55 Rating, Add	8,989.93	
			For Class 56 Rating, Add	11,902.77	
40 05 19 00-1502			42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1503	EA		42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,171.97	1,874.23
			For Class 52 Rating, Deduct	-1,136.54	
			For Class 54 Rating, Add	1,583.91	
			For Class 55 Rating, Add	2,372.24	
			For Class 56 Rating, Add	3,150.24	
40 05 19 00-1504	EA		42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,482.45	1,877.07
			For Class 52 Rating, Deduct	-1,280.22	
			For Class 54 Rating, Add	1,779.89	
			For Class 55 Rating, Add	2,663.62	
			For Class 56 Rating, Add	3,535.71	
40 05 19 00-1505	EA		42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,777.31	1,879.92
			For Class 52 Rating, Deduct	-1,422.18	
			For Class 54 Rating, Add	1,973.52	
			For Class 55 Rating, Add	2,951.51	
			For Class 56 Rating, Add	3,916.58	
40 05 19 00-1506	EA		42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,085.19	1,882.78
			For Class 52 Rating, Deduct	-1,565.58	
			For Class 54 Rating, Add	2,169.11	
			For Class 55 Rating, Add	3,242.31	
			For Class 56 Rating, Add	4,301.28	
40 05 19 00-1507	EA		42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,380.06	1,885.63
			For Class 52 Rating, Deduct	-1,707.54	
			For Class 54 Rating, Add	2,362.74	
			For Class 55 Rating, Add	3,530.21	
			For Class 56 Rating, Add	4,682.15	
40 05 19 00-1508	EA		42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,690.54	1,888.47
			For Class 52 Rating, Deduct	-1,851.21	
			For Class 54 Rating, Add	2,558.72	
			For Class 55 Rating, Add	3,821.59	
			For Class 56 Rating, Add	5,067.63	
40 05 19 00-1509	EA		42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,982.81	1,891.32
			For Class 52 Rating, Deduct	-1,992.89	
			For Class 54 Rating, Add	2,751.96	
			For Class 55 Rating, Add	4,108.90	
			For Class 56 Rating, Add	5,447.73	
40 05 19 00-1510	EA		42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,293.28	1,894.18
			For Class 52 Rating, Deduct	-2,136.57	
			For Class 54 Rating, Add	2,947.94	
			For Class 55 Rating, Add	4,400.28	
			For Class 56 Rating, Add	5,833.20	
40 05 19 00-1511	EA		42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,588.16	1,897.03
			For Class 52 Rating, Deduct	-2,278.53	
			For Class 54 Rating, Add	3,141.57	
			For Class 55 Rating, Add	4,688.18	
			For Class 56 Rating, Add	6,214.07	
40 05 19 00-1512	EA		42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,896.04	1,899.86
			For Class 52 Rating, Deduct	-2,421.92	
			For Class 54 Rating, Add	3,337.16	
			For Class 55 Rating, Add	4,978.98	
			For Class 56 Rating, Add	6,598.78	
40 05 19 00-1513	EA		42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,190.90	1,902.71
			For Class 52 Rating, Deduct	-2,563.88	
			For Class 54 Rating, Add	3,530.79	
			For Class 55 Rating, Add	5,266.87	
			For Class 56 Rating, Add	6,979.64	
40 05 19 00-1514	EA		42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,498.78	1,905.56
			For Class 52 Rating, Deduct	-2,707.27	
			For Class 54 Rating, Add	3,726.38	
			For Class 55 Rating, Add	5,557.67	
			For Class 56 Rating, Add	7,364.35	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1515	EA		42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	28,793.64	1,908.41
			For Class 52 Rating, Deduct	-2,849.23	
			For Class 54 Rating, Add	3,920.01	
			For Class 55 Rating, Add	5,845.57	
			For Class 56 Rating, Add	7,745.22	
40 05 19 00-1516	EA		42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	30,091.12	1,911.26
			For Class 52 Rating, Deduct	-2,991.48	
			For Class 54 Rating, Add	4,114.04	
			For Class 55 Rating, Add	6,134.05	
			For Class 56 Rating, Add	8,126.86	
40 05 19 00-1517	EA		42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	31,396.39	1,914.11
			For Class 52 Rating, Deduct	-3,134.59	
			For Class 54 Rating, Add	4,309.24	
			For Class 55 Rating, Add	6,424.26	
			For Class 56 Rating, Add	8,510.79	
40 05 19 00-1518	EA		42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	32,691.26	1,916.96
			For Class 52 Rating, Deduct	-3,276.55	
			For Class 54 Rating, Add	4,502.87	
			For Class 55 Rating, Add	6,712.16	
			For Class 56 Rating, Add	8,891.66	
40 05 19 00-1519	EA		42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	34,001.74	1,919.81
			For Class 52 Rating, Deduct	-3,420.22	
			For Class 54 Rating, Add	4,698.85	
			For Class 55 Rating, Add	7,003.54	
			For Class 56 Rating, Add	9,277.13	
40 05 19 00-1520	EA		42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	35,296.61	1,922.66
			For Class 52 Rating, Deduct	-3,562.19	
			For Class 54 Rating, Add	4,892.48	
			For Class 55 Rating, Add	7,291.44	
			For Class 56 Rating, Add	9,658.00	
40 05 19 00-1521	EA		42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	36,604.48	1,925.51
			For Class 52 Rating, Deduct	-3,705.58	
			For Class 54 Rating, Add	5,088.07	
			For Class 55 Rating, Add	7,582.23	
			For Class 56 Rating, Add	10,042.71	
40 05 19 00-1522	EA		42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	37,899.36	1,928.34
			For Class 52 Rating, Deduct	-3,847.54	
			For Class 54 Rating, Add	5,281.70	
			For Class 55 Rating, Add	7,870.13	
			For Class 56 Rating, Add	10,423.58	
40 05 19 00-1523	EA		42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	39,209.83	1,931.19
			For Class 52 Rating, Deduct	-3,991.21	
			For Class 54 Rating, Add	5,477.68	
			For Class 55 Rating, Add	8,161.51	
			For Class 56 Rating, Add	10,809.05	
40 05 19 00-1524	EA		42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	40,504.70	1,934.05
			For Class 52 Rating, Deduct	-4,133.18	
			For Class 54 Rating, Add	5,671.31	
			For Class 55 Rating, Add	8,449.40	
			For Class 56 Rating, Add	11,189.92	
40 05 19 00-1525	EA		42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	41,812.58	1,936.90
			For Class 52 Rating, Deduct	-4,276.57	
			For Class 54 Rating, Add	5,866.90	
			For Class 55 Rating, Add	8,740.20	
			For Class 56 Rating, Add	11,574.63	
40 05 19 00-1526	EA		42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	43,107.45	1,939.74
			For Class 52 Rating, Deduct	-4,418.53	
			For Class 54 Rating, Add	6,060.53	
			For Class 55 Rating, Add	9,028.10	
			For Class 56 Rating, Add	11,955.49	
40 05 19 00-1527	EA		42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	44,417.92	1,942.59
			For Class 52 Rating, Deduct	-4,562.21	
			For Class 54 Rating, Add	6,256.51	
			For Class 55 Rating, Add	9,319.48	
			For Class 56 Rating, Add	12,340.97	
40 05 19 00-1528	EA		42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	45,712.79	1,945.45
			For Class 52 Rating, Deduct	-4,704.17	
			For Class 54 Rating, Add	6,450.15	
			For Class 55 Rating, Add	9,607.37	
			For Class 56 Rating, Add	12,721.84	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-1529	EA	42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,018.08	1,948.29
		For Class 52 Rating, Deduct	-4,847.27	
		For Class 54 Rating, Add	6,645.34	
		For Class 55 Rating, Add	9,897.59	
		For Class 56 Rating, Add	13,105.78	
40 05 19 00-1530	EA	42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,315.54	1,951.14
		For Class 52 Rating, Deduct	-4,989.52	
		For Class 54 Rating, Add	6,839.37	
		For Class 55 Rating, Add	10,186.07	
		For Class 56 Rating, Add	13,487.41	
40 05 19 00-1531	EA	42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,350.21	1,953.98
		For Class 52 Rating, Deduct	-5,102.86	
		For Class 54 Rating, Add	6,993.97	
		For Class 55 Rating, Add	10,415.94	
		For Class 56 Rating, Add	13,791.52	
40 05 19 00-1532	EA	42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,918.29	1,956.83
		For Class 52 Rating, Deduct	-5,274.87	
		For Class 54 Rating, Add	7,228.59	
		For Class 55 Rating, Add	10,764.76	
		For Class 56 Rating, Add	14,252.99	
40 05 19 00-1533	EA	42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,213.16	1,959.68
		For Class 52 Rating, Deduct	-5,416.83	
		For Class 54 Rating, Add	7,422.22	
		For Class 55 Rating, Add	11,052.66	
		For Class 56 Rating, Add	14,633.85	
40 05 19 00-1534	EA	42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,521.03	1,962.53
		For Class 52 Rating, Deduct	-5,560.23	
		For Class 54 Rating, Add	7,617.81	
		For Class 55 Rating, Add	11,343.46	
		For Class 56 Rating, Add	15,018.56	
40 05 19 00-1535	EA	42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,815.90	1,965.38
		For Class 52 Rating, Deduct	-5,702.19	
		For Class 54 Rating, Add	7,811.44	
		For Class 55 Rating, Add	11,631.35	
		For Class 56 Rating, Add	15,399.43	
40 05 19 00-1536	EA	42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,126.38	1,968.23
		For Class 52 Rating, Deduct	-5,845.86	
		For Class 54 Rating, Add	8,007.42	
		For Class 55 Rating, Add	11,922.73	
		For Class 56 Rating, Add	15,784.90	
40 05 19 00-1537	EA	42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,418.65	1,971.07
		For Class 52 Rating, Deduct	-5,987.54	
		For Class 54 Rating, Add	8,200.66	
		For Class 55 Rating, Add	12,210.05	
		For Class 56 Rating, Add	16,165.00	
40 05 19 00-1538	EA	42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,729.12	1,973.93
		For Class 52 Rating, Deduct	-6,131.22	
		For Class 54 Rating, Add	8,396.64	
		For Class 55 Rating, Add	12,501.43	
		For Class 56 Rating, Add	16,550.48	
40 05 19 00-1539	EA	42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,023.99	1,976.78
		For Class 52 Rating, Deduct	-6,273.18	
		For Class 54 Rating, Add	8,590.27	
		For Class 55 Rating, Add	12,789.32	
		For Class 56 Rating, Add	16,931.34	
40 05 19 00-1540	EA	42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,331.87	1,979.61
		For Class 52 Rating, Deduct	-6,416.57	
		For Class 54 Rating, Add	8,785.86	
		For Class 55 Rating, Add	13,080.12	
		For Class 56 Rating, Add	17,316.05	
40 05 19 00-1541		48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1542	EA	48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,005.41	2,355.60
		For Class 52 Rating, Deduct	-1,477.99	
		For Class 54 Rating, Add	2,058.28	
		For Class 55 Rating, Add	3,081.96	
		For Class 56 Rating, Add	4,092.20	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1543	EA	48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,911.73		2,358.45
		For Class 52 Rating, Deduct	-1,687.22		
		For Class 54 Rating, Add	2,343.63		
		For Class 55 Rating, Add	3,506.21		
		For Class 56 Rating, Add	4,653.45		
40 05 19 00-1544	EA	48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,815.46		2,361.31
		For Class 52 Rating, Deduct	-1,896.15		
		For Class 54 Rating, Add	2,628.59		
		For Class 55 Rating, Add	3,929.88		
		For Class 56 Rating, Add	5,213.93		
40 05 19 00-1545	EA	48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,734.78		2,364.16
		For Class 52 Rating, Deduct	-2,106.80		
		For Class 54 Rating, Add	2,915.89		
		For Class 55 Rating, Add	4,357.03		
		For Class 56 Rating, Add	5,779.01		
40 05 19 00-1546	EA	48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,641.10		2,366.99
		For Class 52 Rating, Deduct	-2,316.02		
		For Class 54 Rating, Add	3,201.25		
		For Class 55 Rating, Add	4,781.28		
		For Class 56 Rating, Add	6,340.26		
40 05 19 00-1547	EA	48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,547.42		2,369.84
		For Class 52 Rating, Deduct	-2,525.24		
		For Class 54 Rating, Add	3,486.60		
		For Class 55 Rating, Add	5,205.53		
		For Class 56 Rating, Add	6,901.50		
40 05 19 00-1548	EA	48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,464.15		2,372.70
		For Class 52 Rating, Deduct	-2,735.61		
		For Class 54 Rating, Add	3,773.51		
		For Class 55 Rating, Add	5,632.10		
		For Class 56 Rating, Add	7,465.82		
40 05 19 00-1549	EA	48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,373.07		2,375.54
		For Class 52 Rating, Deduct	-2,945.11		
		For Class 54 Rating, Add	4,059.26		
		For Class 55 Rating, Add	6,056.93		
		For Class 56 Rating, Add	8,027.83		
40 05 19 00-1550	EA	48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,276.79		2,378.39
		For Class 52 Rating, Deduct	-3,154.05		
		For Class 54 Rating, Add	4,344.22		
		For Class 55 Rating, Add	6,480.60		
		For Class 56 Rating, Add	8,588.31		
40 05 19 00-1551	EA	48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,196.11		2,381.24
		For Class 52 Rating, Deduct	-3,364.70		
		For Class 54 Rating, Add	4,631.52		
		For Class 55 Rating, Add	6,907.75		
		For Class 56 Rating, Add	9,153.40		
40 05 19 00-1552	EA	48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,102.44		2,384.10
		For Class 52 Rating, Deduct	-3,573.92		
		For Class 54 Rating, Add	4,916.87		
		For Class 55 Rating, Add	7,332.00		
		For Class 56 Rating, Add	9,714.64		
40 05 19 00-1553	EA	48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,021.76		2,386.94
		For Class 52 Rating, Deduct	-3,784.57		
		For Class 54 Rating, Add	5,204.18		
		For Class 55 Rating, Add	7,759.16		
		For Class 56 Rating, Add	10,279.73		
40 05 19 00-1554	EA	48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,925.48		2,389.79
		For Class 52 Rating, Deduct	-3,993.50		
		For Class 54 Rating, Add	5,489.14		
		For Class 55 Rating, Add	8,182.82		
		For Class 56 Rating, Add	10,840.21		
40 05 19 00-1555	EA	48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,831.79		2,392.64
		For Class 52 Rating, Deduct	-4,202.72		
		For Class 54 Rating, Add	5,774.49		
		For Class 55 Rating, Add	8,607.07		
		For Class 56 Rating, Add	11,401.45		
40 05 19 00-1556	EA	48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,751.13		2,395.49
		For Class 52 Rating, Deduct	-4,413.38		
		For Class 54 Rating, Add	6,061.80		
		For Class 55 Rating, Add	9,034.23		
		For Class 56 Rating, Add	11,966.54		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1557	EA		48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,657.45	2,398.33
			For Class 52 Rating, Deduct	-4,622.60	
			For Class 54 Rating, Add	6,347.15	
			For Class 55 Rating, Add	9,458.48	
			For Class 56 Rating, Add	12,527.78	
40 05 19 00-1558	EA		48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,561.16	2,401.18
			For Class 52 Rating, Deduct	-4,831.53	
			For Class 54 Rating, Add	6,632.11	
			For Class 55 Rating, Add	9,882.15	
			For Class 56 Rating, Add	13,088.26	
40 05 19 00-1559	EA		48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,480.49	2,404.03
			For Class 52 Rating, Deduct	-5,042.18	
			For Class 54 Rating, Add	6,919.41	
			For Class 55 Rating, Add	10,309.30	
			For Class 56 Rating, Add	13,653.34	
40 05 19 00-1560	EA		48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,386.82	2,406.87
			For Class 52 Rating, Deduct	-5,251.40	
			For Class 54 Rating, Add	7,204.77	
			For Class 55 Rating, Add	10,733.55	
			For Class 56 Rating, Add	14,214.59	
40 05 19 00-1561	EA		48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,290.53	2,409.72
			For Class 52 Rating, Deduct	-5,460.34	
			For Class 54 Rating, Add	7,489.73	
			For Class 55 Rating, Add	11,157.22	
			For Class 56 Rating, Add	14,775.07	
40 05 19 00-1562	EA		48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,209.85	2,412.58
			For Class 52 Rating, Deduct	-5,670.99	
			For Class 54 Rating, Add	7,777.03	
			For Class 55 Rating, Add	11,584.37	
			For Class 56 Rating, Add	15,340.15	
40 05 19 00-1563	EA		48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,118.78	2,415.43
			For Class 52 Rating, Deduct	-5,880.50	
			For Class 54 Rating, Add	8,062.77	
			For Class 55 Rating, Add	12,009.20	
			For Class 56 Rating, Add	15,902.17	
40 05 19 00-1564	EA		48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,022.50	2,418.27
			For Class 52 Rating, Deduct	-6,089.43	
			For Class 54 Rating, Add	8,347.74	
			For Class 55 Rating, Add	12,432.87	
			For Class 56 Rating, Add	16,462.65	
40 05 19 00-1565	EA		48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,941.82	2,421.12
			For Class 52 Rating, Deduct	-6,300.08	
			For Class 54 Rating, Add	8,635.04	
			For Class 55 Rating, Add	12,860.02	
			For Class 56 Rating, Add	17,027.73	
40 05 19 00-1566	EA		48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	62,848.14	2,423.98
			For Class 52 Rating, Deduct	-6,509.30	
			For Class 54 Rating, Add	8,920.39	
			For Class 55 Rating, Add	13,284.27	
			For Class 56 Rating, Add	17,588.98	
40 05 19 00-1567	EA		48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	64,751.87	2,426.81
			For Class 52 Rating, Deduct	-6,718.24	
			For Class 54 Rating, Add	9,205.35	
			For Class 55 Rating, Add	13,707.94	
			For Class 56 Rating, Add	18,149.46	
40 05 19 00-1568	EA		48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	66,671.19	2,429.66
			For Class 52 Rating, Deduct	-6,928.89	
			For Class 54 Rating, Add	9,492.66	
			For Class 55 Rating, Add	14,135.09	
			For Class 56 Rating, Add	18,714.54	
40 05 19 00-1569	EA		48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	68,577.50	2,432.51
			For Class 52 Rating, Deduct	-7,138.11	
			For Class 54 Rating, Add	9,778.01	
			For Class 55 Rating, Add	14,559.34	
			For Class 56 Rating, Add	19,275.79	
40 05 19 00-1570	EA		48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	70,249.66	2,435.36
			For Class 52 Rating, Deduct	-7,321.57	
			For Class 54 Rating, Add	10,028.24	
			For Class 55 Rating, Add	14,931.38	
			For Class 56 Rating, Add	19,767.96	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1571	EA		48" Flanged x Plain End (FxE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	72,403.16	2,438.21
			For Class 52 Rating, Deduct	-7,557.98	
			For Class 54 Rating, Add	10,350.67	
			For Class 55 Rating, Add	15,410.75	
			For Class 56 Rating, Add	20,402.12	
40 05 19 00-1572	EA		48" Flanged x Plain End (FxE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	74,306.87	2,441.06
			For Class 52 Rating, Deduct	-7,766.91	
			For Class 54 Rating, Add	10,635.63	
			For Class 55 Rating, Add	15,834.42	
			For Class 56 Rating, Add	20,962.60	
40 05 19 00-1573	EA		48" Flanged x Plain End (FxE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	76,228.81	2,443.91
			For Class 52 Rating, Deduct	-7,977.85	
			For Class 54 Rating, Add	10,923.32	
			For Class 55 Rating, Add	16,262.15	
			For Class 56 Rating, Add	21,528.45	
40 05 19 00-1574	EA		48" Flanged x Plain End (FxE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	78,132.53	2,446.75
			For Class 52 Rating, Deduct	-8,186.79	
			For Class 54 Rating, Add	11,208.28	
			For Class 55 Rating, Add	16,685.82	
			For Class 56 Rating, Add	22,088.93	
40 05 19 00-1575	EA		48" Flanged x Plain End (FxE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	80,036.24	2,449.61
			For Class 52 Rating, Deduct	-8,395.72	
			For Class 54 Rating, Add	11,493.25	
			For Class 55 Rating, Add	17,109.49	
			For Class 56 Rating, Add	22,649.41	
40 05 19 00-1576	EA		48" Flanged x Plain End (FxE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	81,958.17	2,452.45
			For Class 52 Rating, Deduct	-8,606.66	
			For Class 54 Rating, Add	11,780.94	
			For Class 55 Rating, Add	17,537.22	
			For Class 56 Rating, Add	23,215.26	
40 05 19 00-1577	EA		48" Flanged x Plain End (FxE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	83,861.89	2,455.30
			For Class 52 Rating, Deduct	-8,815.59	
			For Class 54 Rating, Add	12,065.90	
			For Class 55 Rating, Add	17,960.89	
			For Class 56 Rating, Add	23,775.74	
40 05 19 00-1578	EA		48" Flanged x Plain End (FxE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	85,768.21	2,458.14
			For Class 52 Rating, Deduct	-9,024.81	
			For Class 54 Rating, Add	12,351.25	
			For Class 55 Rating, Add	18,385.14	
			For Class 56 Rating, Add	24,336.98	
40 05 19 00-1579	EA		48" Flanged x Plain End (FxE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	87,687.53	2,460.99
			For Class 52 Rating, Deduct	-9,235.46	
			For Class 54 Rating, Add	12,638.56	
			For Class 55 Rating, Add	18,812.29	
			For Class 56 Rating, Add	24,902.07	

40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree**Elbows (40 05 19 00-0001)**

40 05 19 00-1581	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	425.13	137.42
40 05 19 00-1582	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	601.93	175.73
40 05 19 00-1583	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	854.19	199.06
40 05 19 00-1584	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,259.54	252.36
40 05 19 00-1585	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,567.19	279.84
40 05 19 00-1586	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,964.78	303.99
40 05 19 00-1587	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,420.39	374.79
40 05 19 00-1588	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,186.31	449.75
40 05 19 00-1589	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,921.89	566.35
40 05 19 00-1590	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	6,022.59	641.30
40 05 19 00-1591	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	10,187.21	849.51
40 05 19 00-1592	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	14,502.80	961.95
40 05 19 00-1593	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	24,420.19	1,099.37
40 05 19 00-1594	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	32,544.55	1,349.23

40 05 19 00-1595 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree**Elbows (40 05 19 00-0001)**

40 05 19 00-1596	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	401.38	137.42
40 05 19 00-1597	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	563.93	175.73
40 05 19 00-1598	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	757.61	199.06
40 05 19 00-1599	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,120.21	252.36
40 05 19 00-1600	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,389.85	279.84
40 05 19 00-1601	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,603.78	303.99
40 05 19 00-1602	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	2,021.38	374.79
40 05 19 00-1603	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	2,649.55	449.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1604 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	3,432.63	566.35
40 05 19 00-1605 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	4,546.90	641.30
40 05 19 00-1606 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	9,107.36	849.51
40 05 19 00-1607 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	13,714.29	961.95
40 05 19 00-1608 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	21,030.21	1,099.37
40 05 19 00-1609 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	28,709.66	1,349.23
40 05 19 00-1610 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows		
(40 05 19 00-0001)		
40 05 19 00-1611 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	399.80	137.42
40 05 19 00-1612 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	551.26	175.73
40 05 19 00-1613 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	746.52	199.06
40 05 19 00-1614 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,088.54	252.36
40 05 19 00-1615 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,459.52	279.84
40 05 19 00-1616 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,823.86	303.99
40 05 19 00-1617 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,070.47	374.79
40 05 19 00-1618 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,709.71	449.75
40 05 19 00-1619 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,693.89	566.35
40 05 19 00-1620 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	5,142.24	641.30
40 05 19 00-1621 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	9,213.44	849.51
40 05 19 00-1622 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	13,958.13	961.95
40 05 19 00-1623 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	21,516.30	1,099.37
40 05 19 00-1624 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	29,343.00	1,349.23
40 05 19 00-1625 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows		
(40 05 19 00-0001)		
40 05 19 00-1626 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	439.38	137.42
40 05 19 00-1627 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	625.68	175.73
40 05 19 00-1628 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	778.19	199.06
40 05 19 00-1629 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,200.96	252.36
40 05 19 00-1630 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,666.94	279.84
40 05 19 00-1631 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,877.70	303.99
40 05 19 00-1632 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,295.31	374.79
40 05 19 00-1633 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,709.71	449.75
40 05 19 00-1634 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,693.89	566.35
40 05 19 00-1635 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	5,355.99	641.30
40 05 19 00-1636 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	9,319.53	849.51
40 05 19 00-1637 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	14,062.63	961.95
40 05 19 00-1638 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	21,627.14	1,099.37
40 05 19 00-1639 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	29,566.25	1,349.23
40 05 19 00-1640 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows		
(40 05 19 00-0001)		
40 05 19 00-1641 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	571.33	156.58
40 05 19 00-1642 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	710.92	168.24
40 05 19 00-1643 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	801.69	187.39
40 05 19 00-1644 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,083.80	194.89
40 05 19 00-1645 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,142.91	214.04
40 05 19 00-1646 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,250.82	225.71
40 05 19 00-1647 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,165.42	209.04
40 05 19 00-1648 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,314.78	228.20
40 05 19 00-1649 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,516.11	239.86
40 05 19 00-1650 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,613.50	266.51
40 05 19 00-1651 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,516.11	239.86
40 05 19 00-1652 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,682.61	251.52
40 05 19 00-1653 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,875.00	278.17
40 05 19 00-1654 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,078.54	292.33
40 05 19 00-1655 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,748.67	275.26
40 05 19 00-1656 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,888.25	286.92
40 05 19 00-1657 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,170.89	313.57
40 05 19 00-1658 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,372.21	327.32
40 05 19 00-1659 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,542.50	339.39
40 05 19 00-1660 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,047.71	312.74
40 05 19 00-1661 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,459.63	324.40
40 05 19 00-1662 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,530.09	351.05
40 05 19 00-1663 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,672.83	364.79
40 05 19 00-1664 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,903.31	376.87
40 05 19 00-1665 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,165.94	412.27
40 05 19 00-1666 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,649.05	371.04
40 05 19 00-1667 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,829.80	382.70
40 05 19 00-1668 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,520.95	409.35
40 05 19 00-1669 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,654.17	423.09
40 05 19 00-1670 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,036.66	435.17
40 05 19 00-1671 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,939.87	470.57
40 05 19 00-1672 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,192.98	508.05
40 05 19 00-1673 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,747.68	408.52
40 05 19 00-1674 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,930.02	420.17

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1675 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,230.08	446.83
40 05 19 00-1676 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,447.24	460.57
40 05 19 00-1677 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,856.62	472.65
40 05 19 00-1678 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,234.84	508.05
40 05 19 00-1679 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,356.54	545.52
40 05 19 00-1680 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,640.31	539.49
40 05 19 00-1681 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,720.35	564.67
40 05 19 00-1682 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,158.23	576.76
40 05 19 00-1683 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,076.37	612.15
40 05 19 00-1684 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,399.85	649.63
40 05 19 00-1685 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	10,876.79	707.93
40 05 19 00-1686 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,487.74	745.41
40 05 19 00-1687 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,286.64	620.89
40 05 19 00-1688 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,059.99	632.97
40 05 19 00-1689 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,778.16	668.37
40 05 19 00-1690 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,798.99	705.85
40 05 19 00-1691 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,227.07	764.15
40 05 19 00-1692 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,336.79	801.62
40 05 19 00-1693 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,219.71	905.74
40 05 19 00-1694 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,502.50	701.68
40 05 19 00-1695 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,891.34	737.08
40 05 19 00-1696 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,750.45	774.56
40 05 19 00-1697 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,438.19	832.86
40 05 19 00-1698 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,067.69	870.34
40 05 19 00-1699 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,942.47	974.45
40 05 19 00-1700 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	26,811.44	1,030.66
40 05 19 00-1701 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	25,657.33	1,005.68
40 05 19 00-1702 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	27,900.35	1,109.78
40 05 19 00-1703 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	28,713.87	1,166.00
40 05 19 00-1704 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	36,764.86	1,234.71
40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1706 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	512.22	137.42
40 05 19 00-1707 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	796.69	175.73
40 05 19 00-1708 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,180.36	199.06
40 05 19 00-1709 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,683.88	252.36
40 05 19 00-1710 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,392.12	279.84
40 05 19 00-1711 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,792.88	303.99
40 05 19 00-1712 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,626.91	374.79
40 05 19 00-1713 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,495.74	449.75
40 05 19 00-1714 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	6,138.60	566.35
40 05 19 00-1715 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	9,053.14	641.30
40 05 19 00-1716 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	15,987.05	849.51
40 05 19 00-1717 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	24,397.22	961.95
40 05 19 00-1718 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	37,902.50	1,099.37
40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-0001)		
40 05 19 00-1720 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	542.30	137.42
40 05 19 00-1721 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	738.10	175.73
40 05 19 00-1722 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,221.53	199.06
40 05 19 00-1723 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,653.80	252.36
40 05 19 00-1724 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,232.20	279.84
40 05 19 00-1725 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,640.88	303.99
40 05 19 00-1726 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,262.74	374.79
40 05 19 00-1727 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,103.07	449.75
40 05 19 00-1728 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	5,419.75	566.35
40 05 19 00-1729 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	7,685.12	641.30
40 05 19 00-1730 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	12,635.08	849.51
40 05 19 00-1731 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	18,112.86	961.95
40 05 19 00-1732 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	33,766.76	1,099.37
40 05 19 00-1733 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	36,381.03	1,349.23
40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-0001)		
40 05 19 00-1735 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	730.24	220.71
40 05 19 00-1736 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	905.39	271.51
40 05 19 00-1737 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,284.27	303.16
40 05 19 00-1738 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,850.90	393.94
40 05 19 00-1739 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,475.17	429.75
40 05 19 00-1740 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,333.48	462.23
40 05 19 00-1741 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,766.63	583.00
40 05 19 00-1742 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	4,600.58	666.29
40 05 19 00-1743 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	5,802.94	841.19
40 05 19 00-1744 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	8,598.64	928.64
40 05 19 00-1745 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	14,684.63	1,282.60
40 05 19 00-1746 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	21,230.76	1,469.99



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1747	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....		44,135.91	1,699.03
40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees					
(40 05 19 00-0001)					
40 05 19 00-1749	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		919.78	246.52
40 05 19 00-1750	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		1,147.44	251.52
40 05 19 00-1751	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		1,141.56	283.17
40 05 19 00-1752	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		1,521.92	278.17
40 05 19 00-1753	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		1,497.03	309.82
40 05 19 00-1754	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		1,577.98	329.81
40 05 19 00-1755	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		1,939.21	292.33
40 05 19 00-1756	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		1,928.57	323.98
40 05 19 00-1757	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		2,036.44	343.97
40 05 19 00-1758	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		2,426.53	408.10
40 05 19 00-1759	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		2,846.71	303.99
40 05 19 00-1760	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		2,779.09	335.64
40 05 19 00-1761	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		2,901.20	355.63
40 05 19 00-1762	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		3,056.96	419.76
40 05 19 00-1763	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		3,242.41	441.83
40 05 19 00-1764	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		3,457.69	339.39
40 05 19 00-1765	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		3,176.31	371.04
40 05 19 00-1766	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		3,121.10	391.03
40 05 19 00-1767	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		3,663.18	455.16
40 05 19 00-1768	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		3,549.37	477.23
40 05 19 00-1769	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		3,963.46	497.63
40 05 19 00-1770	EA	18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		4,234.92	376.87
40 05 19 00-1771	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		3,171.34	408.52
40 05 19 00-1772	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		3,830.22	428.51
40 05 19 00-1773	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		3,833.96	492.64
40 05 19 00-1774	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		4,176.17	514.71
40 05 19 00-1775	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		4,563.34	535.11
40 05 19 00-1776	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		4,874.77	620.48
40 05 19 00-1777	EA	20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		9,424.83	435.17
40 05 19 00-1778	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		4,684.70	466.82
40 05 19 00-1779	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		4,779.90	486.81
40 05 19 00-1780	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		4,975.25	550.94
40 05 19 00-1781	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		5,170.18	573.01
40 05 19 00-1782	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		5,234.35	593.41
40 05 19 00-1783	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		6,308.97	678.78
40 05 19 00-1784	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		6,443.27	724.59
40 05 19 00-1785	EA	24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		6,224.64	472.65
40 05 19 00-1786	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		5,360.57	504.29
40 05 19 00-1787	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		5,604.62	524.29
40 05 19 00-1788	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		5,820.54	588.41
40 05 19 00-1789	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		6,531.65	610.48
40 05 19 00-1790	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		6,692.40	630.89
40 05 19 00-1791	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		6,907.25	716.26
40 05 19 00-1792	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		9,106.28	762.07
40 05 19 00-1793	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		9,415.05	814.34
40 05 19 00-1794	EA	30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		11,083.82	608.41
40 05 19 00-1795	EA	30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		11,147.37	628.39
40 05 19 00-1796	EA	30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		11,455.12	692.53
40 05 19 00-1797	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		11,488.55	714.59
40 05 19 00-1798	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		11,519.47	735.00
40 05 19 00-1799	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		11,753.32	820.37
40 05 19 00-1800	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		11,892.40	866.17
40 05 19 00-1801	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		12,241.65	982.77
40 05 19 00-1802	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		15,705.75	1,032.75
40 05 19 00-1803	EA	36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		15,284.57	870.75
40 05 19 00-1804	EA	36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		16,358.30	886.58
40 05 19 00-1805	EA	36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		16,461.91	931.97
40 05 19 00-1806	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		16,593.55	949.87
40 05 19 00-1807	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		16,652.98	966.11
40 05 19 00-1808	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		16,814.14	1,026.50
40 05 19 00-1809	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		16,912.07	1,068.14
40 05 19 00-1810	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		17,183.90	1,155.59
40 05 19 00-1811	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		17,565.24	1,199.31
40 05 19 00-1812	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		23,033.15	1,376.30
40 05 19 00-1813	EA	42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		27,464.76	753.32
40 05 19 00-1814	EA	42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		24,813.22	817.45
40 05 19 00-1815	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		24,846.65	839.52
40 05 19 00-1816	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		24,913.98	859.92
40 05 19 00-1817	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		25,117.75	945.29
40 05 19 00-1818	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		25,373.98	991.10
40 05 19 00-1819	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		25,550.66	1,107.70
40 05 19 00-1820	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		25,924.04	1,157.67
40 05 19 00-1821	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		32,856.14	1,407.53
40 05 19 00-1822	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		42,254.22	1,538.70
40 05 19 00-1823	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		33,617.68	974.86
40 05 19 00-1824	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		33,648.60	995.27
40 05 19 00-1825	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....		33,888.78	1,080.64

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1826 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,958.19	1,126.44
40 05 19 00-1827 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	34,282.10	1,243.04
40 05 19 00-1828 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	34,619.08	1,293.01
40 05 19 00-1829 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	35,520.16	1,542.87
40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-0001)		
40 05 19 00-1831 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	790.41	220.71
40 05 19 00-1832 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,077.97	271.51
40 05 19 00-1833 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,581.94	303.16
40 05 19 00-1834 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,412.99	393.94
40 05 19 00-1835 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,254.18	429.75
40 05 19 00-1836 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,637.48	462.23
40 05 19 00-1837 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	4,513.97	583.00
40 05 19 00-1838 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	5,488.85	666.29
40 05 19 00-1839 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	7,335.63	841.19
40 05 19 00-1840 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	10,596.84	928.64
40 05 19 00-1841 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	17,795.93	1,282.60
40 05 19 00-1842 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	25,409.24	1,469.99
40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-0001)		
40 05 19 00-1844 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	638.41	220.71
40 05 19 00-1845 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	897.47	271.51
40 05 19 00-1846 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,308.02	303.16
40 05 19 00-1847 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,719.48	393.94
40 05 19 00-1848 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,467.25	429.75
40 05 19 00-1849 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	3,213.14	462.23
40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-0001)		
40 05 19 00-1851 EA 4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	877.01	303.99
40 05 19 00-1852 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,165.67	329.39
40 05 19 00-1853 EA 6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,232.59	367.29
40 05 19 00-1854 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,446.21	334.81
40 05 19 00-1855 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,574.84	378.95
40 05 19 00-1856 EA 8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,628.85	407.27
40 05 19 00-1857 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,879.28	361.46
40 05 19 00-1858 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,068.07	405.60
40 05 19 00-1859 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,262.98	433.92
40 05 19 00-1860 EA 10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,809.61	535.53
40 05 19 00-1861 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,444.77	375.21
40 05 19 00-1862 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,571.82	419.34
40 05 19 00-1863 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,768.31	447.66
40 05 19 00-1864 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,345.02	549.27
40 05 19 00-1865 EA 12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,142.49	579.67
40 05 19 00-1866 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,074.63	431.42
40 05 19 00-1867 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,269.53	459.74
40 05 19 00-1868 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,635.65	561.35
40 05 19 00-1869 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,955.63	591.75
40 05 19 00-1870 EA 14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,149.59	620.48
40 05 19 00-1871 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,674.52	466.82
40 05 19 00-1872 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,897.93	495.13
40 05 19 00-1873 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,264.04	596.75
40 05 19 00-1874 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,614.11	627.14
40 05 19 00-1875 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,461.09	655.88
40 05 19 00-1876 EA 16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,225.29	791.21
40 05 19 00-1877 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,823.13	504.29
40 05 19 00-1878 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,044.96	532.61
40 05 19 00-1879 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,350.92	634.23
40 05 19 00-1880 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,699.41	664.62
40 05 19 00-1881 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,407.95	693.36
40 05 19 00-1882 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,886.92	828.69
40 05 19 00-1883 EA 18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,151.03	882.82
40 05 19 00-1884 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,992.91	562.59
40 05 19 00-1885 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,230.56	590.91
40 05 19 00-1886 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,514.36	692.53
40 05 19 00-1887 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,886.59	722.92
40 05 19 00-1888 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,995.04	751.66
40 05 19 00-1889 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,308.46	886.99
40 05 19 00-1890 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,585.23	941.13
40 05 19 00-1891 EA 20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	8,307.81	1,116.03
40 05 19 00-1892 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,614.06	600.07
40 05 19 00-1893 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,785.21	628.39
40 05 19 00-1894 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,167.16	730.00
40 05 19 00-1895 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,409.56	760.40
40 05 19 00-1896 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,551.26	789.14
40 05 19 00-1897 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,984.33	924.47
40 05 19 00-1898 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,381.22	978.61



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1899	EA		24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	10,969.92	1,089.17
40 05 19 00-1900	EA		24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,075.64	1,215.97
40 05 19 00-1901	EA		30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,239.79	864.51
40 05 19 00-1902	EA		30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,318.16	893.24
40 05 19 00-1903	EA		30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,767.07	1,028.58
40 05 19 00-1904	EA		30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,918.75	1,082.71
40 05 19 00-1905	EA		30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	13,568.51	1,257.61
40 05 19 00-1906	EA		30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,678.55	1,320.08
40 05 19 00-1907	EA		30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	20,056.07	1,715.69
40 05 19 00-1908	EA		36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,306.77	1,099.79
40 05 19 00-1909	EA		36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,344.00	1,124.36
40 05 19 00-1910	EA		36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,723.37	1,234.71
40 05 19 00-1911	EA		36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,867.17	1,284.68
40 05 19 00-1912	EA		36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,403.10	1,430.44
40 05 19 00-1913	EA		36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	19,047.20	1,486.65
40 05 19 00-1914	EA		36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,784.13	1,809.38
40 05 19 00-1915	EA		36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	28,273.79	1,978.04
40 05 19 00-1916	EA		42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,632.72	989.44
40 05 19 00-1917	EA		42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,676.25	1,018.17
40 05 19 00-1918	EA		42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,104.57	1,153.51
40 05 19 00-1919	EA		42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,223.01	1,207.65
40 05 19 00-1920	EA		42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,823.68	1,382.55
40 05 19 00-1921	EA		42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	27,477.25	1,445.00
40 05 19 00-1922	EA		42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	35,374.37	1,840.62
40 05 19 00-1923	EA		42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	48,945.75	2,046.75
40 05 19 00-1924	EA		48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	36,180.83	2,298.68
40 05 19 00-1925	EA		48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,407.71	1,153.51
40 05 19 00-1926	EA		48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,837.60	1,288.85
40 05 19 00-1927	EA		48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,956.04	1,342.98
40 05 19 00-1928	EA		48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	35,518.72	1,517.88
40 05 19 00-1929	EA		48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	36,172.29	1,580.35
40 05 19 00-1930	EA		48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	37,777.12	1,975.96
40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-0001)					
40 05 19 00-1932	EA		6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	468.41	156.58
40 05 19 00-1933	EA		8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	601.67	168.24
40 05 19 00-1934	EA		8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	662.35	187.39
40 05 19 00-1935	EA		10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	813.05	194.89
40 05 19 00-1936	EA		10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	818.32	214.04
40 05 19 00-1937	EA		10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	959.48	225.71
40 05 19 00-1938	EA		12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,043.50	209.04
40 05 19 00-1939	EA		12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,077.27	228.20
40 05 19 00-1940	EA		12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,182.02	239.86
40 05 19 00-1941	EA		12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,330.08	266.51
40 05 19 00-1942	EA		14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,644.12	228.20
40 05 19 00-1943	EA		14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,302.35	239.86
40 05 19 00-1944	EA		14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,441.94	251.52
40 05 19 00-1945	EA		14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,585.25	278.17
40 05 19 00-1946	EA		14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,538.62	292.33
40 05 19 00-1947	EA		16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,947.64	256.10
40 05 19 00-1948	EA		16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,569.75	275.26
40 05 19 00-1949	EA		16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,479.75	286.92
40 05 19 00-1950	EA		16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,649.96	313.57
40 05 19 00-1951	EA		16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,052.37	327.32
40 05 19 00-1952	EA		16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,210.00	339.39
40 05 19 00-1953	EA		18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,465.72	312.74
40 05 19 00-1954	EA		18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,945.03	324.40
40 05 19 00-1955	EA		18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,137.42	351.05
40 05 19 00-1956	EA		18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,121.82	364.79
40 05 19 00-1957	EA		18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,447.30	376.87
40 05 19 00-1958	EA		18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,439.18	412.27
40 05 19 00-1959	EA		20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,517.63	371.04
40 05 19 00-1960	EA		20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,438.71	382.70
40 05 19 00-1961	EA		20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,642.18	409.35
40 05 19 00-1962	EA		20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,572.74	423.09
40 05 19 00-1963	EA		20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,975.81	435.17
40 05 19 00-1964	EA		20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,785.60	470.57
40 05 19 00-1965	EA		20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,444.06	508.05
40 05 19 00-1966	EA		24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,309.34	420.17
40 05 19 00-1967	EA		24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,740.82	446.83
40 05 19 00-1968	EA		24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,026.06	460.57
40 05 19 00-1969	EA		24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,133.02	472.65
40 05 19 00-1970	EA		24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,646.73	508.05
40 05 19 00-1971	EA		24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,411.28	545.52
40 05 19 00-1972	EA		24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,663.38	539.49
40 05 19 00-1973	EA		30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,374.26	612.15
40 05 19 00-1974	EA		30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,641.64	649.63
40 05 19 00-1975	EA		30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,149.56	707.93
40 05 19 00-1976	EA		30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,904.60	745.41

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1977 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,729.98	668.37
40 05 19 00-1978 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,169.93	705.85
40 05 19 00-1979 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,747.53	764.15
40 05 19 00-1980 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	10,608.66	801.62
40 05 19 00-1981 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	12,232.60	905.74
40 05 19 00-1982 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	14,875.42	870.34
40 05 19 00-1983 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,819.19	974.45
40 05 19 00-1984 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	19,027.64	1,030.66
40 05 19 00-1985 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	18,915.39	1,005.68
40 05 19 00-1986 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	21,232.82	1,109.78
40 05 19 00-1987 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	23,738.96	1,166.00
40 05 19 00-1988 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	26,599.69	1,234.71

40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)

40 05 19 00-1990 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	511.16	156.58
40 05 19 00-1991 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	650.75	168.24
40 05 19 00-1992 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	739.94	187.39
40 05 19 00-1993 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	813.05	194.89
40 05 19 00-1994 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	870.57	214.04
40 05 19 00-1995 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,008.56	225.71
40 05 19 00-1996 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,043.50	209.04
40 05 19 00-1997 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,134.27	228.20
40 05 19 00-1998 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,242.18	239.86
40 05 19 00-1999 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,434.58	266.51
40 05 19 00-2000 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,302.35	239.86
40 05 19 00-2001 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,411.86	251.52
40 05 19 00-2002 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,574.17	278.17
40 05 19 00-2003 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,806.20	292.33
40 05 19 00-2004 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,569.75	275.26
40 05 19 00-2005 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,706.17	286.92
40 05 19 00-2006 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,898.55	313.57
40 05 19 00-2007 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,101.46	327.32
40 05 19 00-2008 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,210.00	339.39
40 05 19 00-2009 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,945.03	324.40
40 05 19 00-2010 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,137.42	351.05
40 05 19 00-2011 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,340.32	364.79
40 05 19 00-2012 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,447.30	376.87
40 05 19 00-2013 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,683.02	412.27
40 05 19 00-2014 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,856.47	371.04
40 05 19 00-2015 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,601.80	382.70
40 05 19 00-2016 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,642.18	409.35
40 05 19 00-2017 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,890.99	423.09
40 05 19 00-2018 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,975.81	435.17
40 05 19 00-2019 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,254.27	470.57
40 05 19 00-2020 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,442.47	508.05
40 05 19 00-2021 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,635.51	420.17
40 05 19 00-2022 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,740.82	446.83
40 05 19 00-2023 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,826.56	460.57
40 05 19 00-2024 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,909.77	472.65
40 05 19 00-2025 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,192.98	508.05
40 05 19 00-2026 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,411.28	545.52
40 05 19 00-2027 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,663.38	539.49
40 05 19 00-2028 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,649.07	576.76
40 05 19 00-2029 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,457.28	612.15
40 05 19 00-2030 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,676.47	649.63
40 05 19 00-2031 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,149.56	707.93
40 05 19 00-2032 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,904.60	745.41
40 05 19 00-2033 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,799.64	668.37
40 05 19 00-2034 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	9,169.93	705.85
40 05 19 00-2035 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	9,712.69	764.15
40 05 19 00-2036 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	10,570.66	801.62
40 05 19 00-2037 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,197.76	905.74
40 05 19 00-2038 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,875.42	870.34
40 05 19 00-2039 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,544.12	974.45
40 05 19 00-2040 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	19,027.64	1,030.66
40 05 19 00-2041 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	21,232.82	1,109.78
40 05 19 00-2042 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	23,738.96	1,166.00
40 05 19 00-2043 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	26,599.69	1,234.71

40 05 19 00-2044 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-0001)

40 05 19 00-2045 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	181.77	54.13
40 05 19 00-2046 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	273.14	79.95
40 05 19 00-2047 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	398.78	94.95
40 05 19 00-2048 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	551.01	110.77
40 05 19 00-2049 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	713.04	129.92
40 05 19 00-2050 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	946.02	145.75
40 05 19 00-2051 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,131.14	166.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2052 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,531.36	233.20
40 05 19 00-2053 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,036.11	291.50
40 05 19 00-2054 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,908.18	353.97
40 05 19 00-2055 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	4,111.21	412.27
40 05 19 00-2056 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	7,379.02	453.91
40 05 19 00-2057 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	10,421.98	499.71
40 05 19 00-2058 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	13,786.25	562.18
40 05 19 00-2059 Flanged End (FxF), Ductile Iron Flexible Ball Joint (40 05 19 00-0001)		
Note: All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating shall meet ANSI/NSF-61. Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.		
40 05 19 00-2060 EA 3" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	1,176.24	104.77
40 05 19 00-2061 EA 4" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	1,365.45	122.93
40 05 19 00-2062 EA 6" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	2,172.11	153.66
40 05 19 00-2063 EA 8" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	2,881.85	175.63
40 05 19 00-2064 EA 10" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	3,978.59	264.23
40 05 19 00-2065 EA 12" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	5,206.25	288.25
40 05 19 00-2066 EA 14" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	6,030.92	317.08
40 05 19 00-2067 EA 16" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	6,703.60	352.27
40 05 19 00-2068 EA 18" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	9,597.27	396.34
40 05 19 00-2069 EA 20" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	9,802.95	452.91
40 05 19 00-2070 EA 24" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	17,145.33	528.46
40 05 19 00-2071 EA 30" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	60,093.66	634.15
40 05 19 00-2072 EA 36" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	85,328.76	792.69
40 05 19 00-2073 Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Piping (40 05 19)		
Note: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be ceramic epoxy. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4103 for bolts, 40 05 19 00-4118 for gaskets.		
40 05 19 00-2074 Flanged End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2073)		
40 05 19 00-2075 4" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2076 EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,201.85	238.20
For Class 52 Rating, Deduct	-92.50	
For Class 54 Rating, Add	130.47	
For Class 55 Rating, Add	196.19	
For Class 56 Rating, Add	261.07	
40 05 19 00-2077 EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,327.85	242.36
For Class 52 Rating, Deduct	-105.67	
For Class 54 Rating, Add	148.50	
For Class 55 Rating, Add	223.03	
For Class 56 Rating, Add	296.61	
40 05 19 00-2078 EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,453.83	246.52
For Class 52 Rating, Deduct	-118.83	
For Class 54 Rating, Add	166.53	
For Class 55 Rating, Add	249.87	
For Class 56 Rating, Add	332.14	
40 05 19 00-2079 EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,579.83	250.69
For Class 52 Rating, Deduct	-132.00	
For Class 54 Rating, Add	184.56	
For Class 55 Rating, Add	276.72	
For Class 56 Rating, Add	367.67	
40 05 19 00-2080 EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,705.82	254.85
For Class 52 Rating, Deduct	-145.16	
For Class 54 Rating, Add	202.59	
For Class 55 Rating, Add	303.56	
For Class 56 Rating, Add	403.21	
40 05 19 00-2081 EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,831.83	259.02
For Class 52 Rating, Deduct	-158.33	
For Class 54 Rating, Add	220.62	
For Class 55 Rating, Add	330.40	
For Class 56 Rating, Add	438.74	
40 05 19 00-2082 EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,957.82	263.19
For Class 52 Rating, Deduct	-171.50	
For Class 54 Rating, Add	238.64	
For Class 55 Rating, Add	357.24	
For Class 56 Rating, Add	474.28	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2083	EA	4" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		2,083.81		267.34
		For Class 52 Rating, Deduct		-184.66		
		For Class 54 Rating, Add		256.67		
		For Class 55 Rating, Add		384.08		
		For Class 56 Rating, Add		509.81		
40 05 19 00-2084	EA	4" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		2,209.80		271.51
		For Class 52 Rating, Deduct		-197.83		
		For Class 54 Rating, Add		274.70		
		For Class 55 Rating, Add		410.92		
		For Class 56 Rating, Add		545.34		
40 05 19 00-2085	EA	4" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		2,335.80		275.68
		For Class 52 Rating, Deduct		-210.99		
		For Class 54 Rating, Add		292.73		
		For Class 55 Rating, Add		437.76		
		For Class 56 Rating, Add		580.88		
40 05 19 00-2086	EA	4" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		2,461.79		279.84
		For Class 52 Rating, Deduct		-224.16		
		For Class 54 Rating, Add		310.76		
		For Class 55 Rating, Add		464.60		
		For Class 56 Rating, Add		616.41		
40 05 19 00-2087	EA	4" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		2,587.79		284.01
		For Class 52 Rating, Deduct		-237.32		
		For Class 54 Rating, Add		328.79		
		For Class 55 Rating, Add		491.45		
		For Class 56 Rating, Add		651.95		
40 05 19 00-2088	EA	4" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		2,713.78		288.17
		For Class 52 Rating, Deduct		-250.49		
		For Class 54 Rating, Add		346.81		
		For Class 55 Rating, Add		518.29		
		For Class 56 Rating, Add		687.48		
40 05 19 00-2089	EA	4" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		2,839.78		292.33
		For Class 52 Rating, Deduct		-263.65		
		For Class 54 Rating, Add		364.84		
		For Class 55 Rating, Add		545.13		
		For Class 56 Rating, Add		723.02		
40 05 19 00-2090	EA	4" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		2,965.77		296.50
		For Class 52 Rating, Deduct		-276.82		
		For Class 54 Rating, Add		382.87		
		For Class 55 Rating, Add		571.97		
		For Class 56 Rating, Add		758.55		
40 05 19 00-2091	EA	4" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		3,091.77		300.66
		For Class 52 Rating, Deduct		-289.98		
		For Class 54 Rating, Add		400.90		
		For Class 55 Rating, Add		598.81		
		For Class 56 Rating, Add		794.08		
40 05 19 00-2092	EA	4" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		3,217.75		304.82
		For Class 52 Rating, Deduct		-303.15		
		For Class 54 Rating, Add		418.93		
		For Class 55 Rating, Add		625.65		
		For Class 56 Rating, Add		829.62		
40 05 19 00-2093	EA	4" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		3,343.74		308.99
		For Class 52 Rating, Deduct		-316.31		
		For Class 54 Rating, Add		436.95		
		For Class 55 Rating, Add		652.49		
		For Class 56 Rating, Add		865.15		
40 05 19 00-2094	EA	4" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		3,469.75		313.15
		For Class 52 Rating, Deduct		-329.48		
		For Class 54 Rating, Add		454.98		
		For Class 55 Rating, Add		679.33		
		For Class 56 Rating, Add		900.69		
40 05 19 00-2095	EA	4" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		3,595.74		317.32
		For Class 52 Rating, Deduct		-342.64		
		For Class 54 Rating, Add		473.01		
		For Class 55 Rating, Add		706.17		
		For Class 56 Rating, Add		936.22		
40 05 19 00-2096	EA	4" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		3,721.74		321.49
		For Class 52 Rating, Deduct		-355.81		
		For Class 54 Rating, Add		491.04		
		For Class 55 Rating, Add		733.02		
		For Class 56 Rating, Add		971.75		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2097	EA	4" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,847.72	325.64
		For Class 52 Rating, Deduct		-368.98	
		For Class 54 Rating, Add		509.07	
		For Class 55 Rating, Add		759.85	
		For Class 56 Rating, Add		1,007.29	
40 05 19 00-2098	EA	4" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,973.72	329.81
		For Class 52 Rating, Deduct		-382.14	
		For Class 54 Rating, Add		527.10	
		For Class 55 Rating, Add		786.70	
		For Class 56 Rating, Add		1,042.82	
40 05 19 00-2099	EA	4" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,099.71	333.98
		For Class 52 Rating, Deduct		-395.31	
		For Class 54 Rating, Add		545.13	
		For Class 55 Rating, Add		813.54	
		For Class 56 Rating, Add		1,078.36	
40 05 19 00-2100	EA	4" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,225.72	338.14
		For Class 52 Rating, Deduct		-408.47	
		For Class 54 Rating, Add		563.16	
		For Class 55 Rating, Add		840.38	
		For Class 56 Rating, Add		1,113.89	
40 05 19 00-2101	EA	4" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,351.71	342.31
		For Class 52 Rating, Deduct		-421.64	
		For Class 54 Rating, Add		581.18	
		For Class 55 Rating, Add		867.22	
		For Class 56 Rating, Add		1,149.42	
40 05 19 00-2102	EA	4" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,477.70	346.47
		For Class 52 Rating, Deduct		-434.80	
		For Class 54 Rating, Add		599.21	
		For Class 55 Rating, Add		894.06	
		For Class 56 Rating, Add		1,184.96	
40 05 19 00-2103	EA	4" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,603.69	350.63
		For Class 52 Rating, Deduct		-447.97	
		For Class 54 Rating, Add		617.24	
		For Class 55 Rating, Add		920.90	
		For Class 56 Rating, Add		1,220.49	
40 05 19 00-2104	EA	4" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,729.69	354.80
		For Class 52 Rating, Deduct		-461.13	
		For Class 54 Rating, Add		635.27	
		For Class 55 Rating, Add		947.74	
		For Class 56 Rating, Add		1,256.03	
40 05 19 00-2105	EA	4" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,855.68	358.96
		For Class 52 Rating, Deduct		-474.30	
		For Class 54 Rating, Add		653.30	
		For Class 55 Rating, Add		974.58	
		For Class 56 Rating, Add		1,291.56	
40 05 19 00-2106	EA	4" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,981.69	363.12
		For Class 52 Rating, Deduct		-487.46	
		For Class 54 Rating, Add		671.33	
		For Class 55 Rating, Add		1,001.43	
		For Class 56 Rating, Add		1,327.10	
40 05 19 00-2107	EA	4" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,107.67	367.29
		For Class 52 Rating, Deduct		-500.63	
		For Class 54 Rating, Add		689.35	
		For Class 55 Rating, Add		1,028.27	
		For Class 56 Rating, Add		1,362.63	
40 05 19 00-2108	EA	4" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,233.67	371.45
		For Class 52 Rating, Deduct		-513.79	
		For Class 54 Rating, Add		707.38	
		For Class 55 Rating, Add		1,055.11	
		For Class 56 Rating, Add		1,398.16	
40 05 19 00-2109	EA	4" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,359.66	375.62
		For Class 52 Rating, Deduct		-526.96	
		For Class 54 Rating, Add		725.41	
		For Class 55 Rating, Add		1,081.95	
		For Class 56 Rating, Add		1,433.70	
40 05 19 00-2110	EA	4" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,485.66	379.79
		For Class 52 Rating, Deduct		-540.13	
		For Class 54 Rating, Add		743.44	
		For Class 55 Rating, Add		1,108.79	
		For Class 56 Rating, Add		1,469.23	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2111	EA	4" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,611.65		383.94
		For Class 52 Rating, Deduct		-553.29		
		For Class 54 Rating, Add		761.47		
		For Class 55 Rating, Add		1,135.63		
		For Class 56 Rating, Add		1,504.77		
40 05 19 00-2112	EA	4" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,737.64		388.11
		For Class 52 Rating, Deduct		-566.46		
		For Class 54 Rating, Add		779.50		
		For Class 55 Rating, Add		1,162.47		
		For Class 56 Rating, Add		1,540.30		
40 05 19 00-2113	EA	4" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,863.64		392.28
		For Class 52 Rating, Deduct		-579.62		
		For Class 54 Rating, Add		797.52		
		For Class 55 Rating, Add		1,189.31		
		For Class 56 Rating, Add		1,575.83		
40 05 19 00-2114	EA	4" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,989.64		396.44
		For Class 52 Rating, Deduct		-592.79		
		For Class 54 Rating, Add		815.55		
		For Class 55 Rating, Add		1,216.16		
		For Class 56 Rating, Add		1,611.37		
40 05 19 00-2115 6" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)						
40 05 19 00-2116	EA	6" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,503.10		299.83
		For Class 52 Rating, Deduct		-115.37		
		For Class 54 Rating, Add		162.77		
		For Class 55 Rating, Add		244.79		
		For Class 56 Rating, Add		325.76		
40 05 19 00-2117	EA	6" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,647.99		303.99
		For Class 52 Rating, Deduct		-130.61		
		For Class 54 Rating, Add		183.64		
		For Class 55 Rating, Add		275.84		
		For Class 56 Rating, Add		366.86		
40 05 19 00-2118	EA	6" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,792.89		308.16
		For Class 52 Rating, Deduct		-145.86		
		For Class 54 Rating, Add		204.50		
		For Class 55 Rating, Add		306.90		
		For Class 56 Rating, Add		407.97		
40 05 19 00-2119	EA	6" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,937.78		312.32
		For Class 52 Rating, Deduct		-161.10		
		For Class 54 Rating, Add		225.36		
		For Class 55 Rating, Add		337.95		
		For Class 56 Rating, Add		449.08		
40 05 19 00-2120	EA	6" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,082.67		316.49
		For Class 52 Rating, Deduct		-176.35		
		For Class 54 Rating, Add		246.23		
		For Class 55 Rating, Add		369.01		
		For Class 56 Rating, Add		490.19		
40 05 19 00-2121	EA	6" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,227.56		320.65
		For Class 52 Rating, Deduct		-191.59		
		For Class 54 Rating, Add		267.09		
		For Class 55 Rating, Add		400.07		
		For Class 56 Rating, Add		531.30		
40 05 19 00-2122	EA	6" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,372.45		324.81
		For Class 52 Rating, Deduct		-206.83		
		For Class 54 Rating, Add		287.95		
		For Class 55 Rating, Add		431.12		
		For Class 56 Rating, Add		572.41		
40 05 19 00-2123	EA	6" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,517.34		328.98
		For Class 52 Rating, Deduct		-222.08		
		For Class 54 Rating, Add		308.81		
		For Class 55 Rating, Add		462.18		
		For Class 56 Rating, Add		613.52		
40 05 19 00-2124	EA	6" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,662.25		333.15
		For Class 52 Rating, Deduct		-237.32		
		For Class 54 Rating, Add		329.68		
		For Class 55 Rating, Add		493.23		
		For Class 56 Rating, Add		654.63		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2125	EA	6" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,807.13	337.31
		For Class 52 Rating, Deduct		-252.57	
		For Class 54 Rating, Add		350.54	
		For Class 55 Rating, Add		524.29	
		For Class 56 Rating, Add		695.74	
40 05 19 00-2126	EA	6" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,952.02	341.47
		For Class 52 Rating, Deduct		-267.81	
		For Class 54 Rating, Add		371.40	
		For Class 55 Rating, Add		555.34	
		For Class 56 Rating, Add		736.84	
40 05 19 00-2127	EA	6" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,096.91	345.63
		For Class 52 Rating, Deduct		-283.05	
		For Class 54 Rating, Add		392.27	
		For Class 55 Rating, Add		586.40	
		For Class 56 Rating, Add		777.95	
40 05 19 00-2128	EA	6" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,241.81	349.80
		For Class 52 Rating, Deduct		-298.30	
		For Class 54 Rating, Add		413.13	
		For Class 55 Rating, Add		617.45	
		For Class 56 Rating, Add		819.06	
40 05 19 00-2129	EA	6" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,386.70	353.97
		For Class 52 Rating, Deduct		-313.54	
		For Class 54 Rating, Add		433.99	
		For Class 55 Rating, Add		648.51	
		For Class 56 Rating, Add		860.17	
40 05 19 00-2130	EA	6" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,531.59	358.13
		For Class 52 Rating, Deduct		-328.79	
		For Class 54 Rating, Add		454.86	
		For Class 55 Rating, Add		679.56	
		For Class 56 Rating, Add		901.28	
40 05 19 00-2131	EA	6" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,676.48	362.29
		For Class 52 Rating, Deduct		-344.03	
		For Class 54 Rating, Add		475.72	
		For Class 55 Rating, Add		710.62	
		For Class 56 Rating, Add		942.39	
40 05 19 00-2132	EA	6" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,821.38	366.46
		For Class 52 Rating, Deduct		-359.28	
		For Class 54 Rating, Add		496.58	
		For Class 55 Rating, Add		741.67	
		For Class 56 Rating, Add		983.50	
40 05 19 00-2133	EA	6" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,966.27	370.62
		For Class 52 Rating, Deduct		-374.52	
		For Class 54 Rating, Add		517.45	
		For Class 55 Rating, Add		772.73	
		For Class 56 Rating, Add		1,024.61	
40 05 19 00-2134	EA	6" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,111.16	374.79
		For Class 52 Rating, Deduct		-389.76	
		For Class 54 Rating, Add		538.31	
		For Class 55 Rating, Add		803.78	
		For Class 56 Rating, Add		1,065.72	
40 05 19 00-2135	EA	6" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,256.04	378.95
		For Class 52 Rating, Deduct		-405.01	
		For Class 54 Rating, Add		559.17	
		For Class 55 Rating, Add		834.84	
		For Class 56 Rating, Add		1,106.82	
40 05 19 00-2136	EA	6" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,400.93	383.11
		For Class 52 Rating, Deduct		-420.25	
		For Class 54 Rating, Add		580.03	
		For Class 55 Rating, Add		865.89	
		For Class 56 Rating, Add		1,147.93	
40 05 19 00-2137	EA	6" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,545.84	387.28
		For Class 52 Rating, Deduct		-435.50	
		For Class 54 Rating, Add		600.90	
		For Class 55 Rating, Add		896.95	
		For Class 56 Rating, Add		1,189.04	
40 05 19 00-2138	EA	6" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,690.73	391.45
		For Class 52 Rating, Deduct		-450.74	
		For Class 54 Rating, Add		621.76	
		For Class 55 Rating, Add		928.01	
		For Class 56 Rating, Add		1,230.15	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2139	EA	6" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		4,835.62		395.61
		For Class 52 Rating, Deduct		-465.98		
		For Class 54 Rating, Add		642.62		
		For Class 55 Rating, Add		959.06		
		For Class 56 Rating, Add		1,271.26		
40 05 19 00-2140	EA	6" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		4,980.50		399.77
		For Class 52 Rating, Deduct		-481.23		
		For Class 54 Rating, Add		663.49		
		For Class 55 Rating, Add		990.12		
		For Class 56 Rating, Add		1,312.37		
40 05 19 00-2141	EA	6" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		5,125.40		403.93
		For Class 52 Rating, Deduct		-496.47		
		For Class 54 Rating, Add		684.35		
		For Class 55 Rating, Add		1,021.17		
		For Class 56 Rating, Add		1,353.48		
40 05 19 00-2142	EA	6" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		5,270.29		408.10
		For Class 52 Rating, Deduct		-511.72		
		For Class 54 Rating, Add		705.21		
		For Class 55 Rating, Add		1,052.23		
		For Class 56 Rating, Add		1,394.59		
40 05 19 00-2143	EA	6" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		5,415.19		412.27
		For Class 52 Rating, Deduct		-526.96		
		For Class 54 Rating, Add		726.08		
		For Class 55 Rating, Add		1,083.28		
		For Class 56 Rating, Add		1,435.70		
40 05 19 00-2144	EA	6" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		5,560.08		416.43
		For Class 52 Rating, Deduct		-542.20		
		For Class 54 Rating, Add		746.94		
		For Class 55 Rating, Add		1,114.34		
		For Class 56 Rating, Add		1,476.80		
40 05 19 00-2145	EA	6" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		5,704.97		420.59
		For Class 52 Rating, Deduct		-557.45		
		For Class 54 Rating, Add		767.80		
		For Class 55 Rating, Add		1,145.39		
		For Class 56 Rating, Add		1,517.92		
40 05 19 00-2146	EA	6" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		5,849.86		424.76
		For Class 52 Rating, Deduct		-572.69		
		For Class 54 Rating, Add		788.67		
		For Class 55 Rating, Add		1,176.45		
		For Class 56 Rating, Add		1,559.02		
40 05 19 00-2147	EA	6" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		5,994.75		428.92
		For Class 52 Rating, Deduct		-587.94		
		For Class 54 Rating, Add		809.53		
		For Class 55 Rating, Add		1,207.50		
		For Class 56 Rating, Add		1,600.13		
40 05 19 00-2148	EA	6" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		6,139.64		433.09
		For Class 52 Rating, Deduct		-603.18		
		For Class 54 Rating, Add		830.39		
		For Class 55 Rating, Add		1,238.56		
		For Class 56 Rating, Add		1,641.24		
40 05 19 00-2149	EA	6" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		6,284.55		437.25
		For Class 52 Rating, Deduct		-618.42		
		For Class 54 Rating, Add		851.26		
		For Class 55 Rating, Add		1,269.62		
		For Class 56 Rating, Add		1,682.35		
40 05 19 00-2150	EA	6" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		6,429.43		441.41
		For Class 52 Rating, Deduct		-633.67		
		For Class 54 Rating, Add		872.12		
		For Class 55 Rating, Add		1,300.67		
		For Class 56 Rating, Add		1,723.46		
40 05 19 00-2151	EA	6" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		6,574.32		445.58
		For Class 52 Rating, Deduct		-648.91		
		For Class 54 Rating, Add		892.98		
		For Class 55 Rating, Add		1,331.72		
		For Class 56 Rating, Add		1,764.57		
40 05 19 00-2152	EA	6" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron				
		Pipe		6,719.21		449.75
		For Class 52 Rating, Deduct		-664.16		
		For Class 54 Rating, Add		913.84		
		For Class 55 Rating, Add		1,362.78		
		For Class 56 Rating, Add		1,805.68		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2153	EA	6"	Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,864.11	453.91
			For Class 52 Rating, Deduct	-679.40	
			For Class 54 Rating, Add	934.71	
			For Class 55 Rating, Add	1,393.84	
			For Class 56 Rating, Add	1,846.79	
40 05 19 00-2154	EA	6"	Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,009.00	458.07
			For Class 52 Rating, Deduct	-694.64	
			For Class 54 Rating, Add	955.57	
			For Class 55 Rating, Add	1,424.89	
			For Class 56 Rating, Add	1,887.90	
40 05 19 00-2155			8" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2156	EA	8"	Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,095.43	383.11
			For Class 52 Rating, Deduct	-166.65	
			For Class 54 Rating, Add	234.21	
			For Class 55 Rating, Add	351.77	
			For Class 56 Rating, Add	467.61	
40 05 19 00-2157	EA	8"	Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,281.27	387.28
			For Class 52 Rating, Deduct	-186.39	
			For Class 54 Rating, Add	261.21	
			For Class 55 Rating, Add	391.95	
			For Class 56 Rating, Add	521.00	
40 05 19 00-2158	EA	8"	Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,467.11	391.45
			For Class 52 Rating, Deduct	-206.14	
			For Class 54 Rating, Add	288.22	
			For Class 55 Rating, Add	432.14	
			For Class 56 Rating, Add	574.18	
40 05 19 00-2159	EA	8"	Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,652.95	395.61
			For Class 52 Rating, Deduct	-225.89	
			For Class 54 Rating, Add	315.22	
			For Class 55 Rating, Add	472.33	
			For Class 56 Rating, Add	627.37	
40 05 19 00-2160	EA	8"	Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,838.78	399.77
			For Class 52 Rating, Deduct	-245.64	
			For Class 54 Rating, Add	342.23	
			For Class 55 Rating, Add	512.51	
			For Class 56 Rating, Add	680.56	
40 05 19 00-2161	EA	8"	Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,024.61	403.93
			For Class 52 Rating, Deduct	-265.38	
			For Class 54 Rating, Add	369.23	
			For Class 55 Rating, Add	552.70	
			For Class 56 Rating, Add	733.75	
40 05 19 00-2162	EA	8"	Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,210.45	408.10
			For Class 52 Rating, Deduct	-285.13	
			For Class 54 Rating, Add	396.24	
			For Class 55 Rating, Add	592.88	
			For Class 56 Rating, Add	786.94	
40 05 19 00-2163	EA	8"	Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,396.30	412.27
			For Class 52 Rating, Deduct	-304.88	
			For Class 54 Rating, Add	423.24	
			For Class 55 Rating, Add	633.07	
			For Class 56 Rating, Add	840.12	
40 05 19 00-2164	EA	8"	Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,582.14	416.43
			For Class 52 Rating, Deduct	-324.63	
			For Class 54 Rating, Add	450.25	
			For Class 55 Rating, Add	673.26	
			For Class 56 Rating, Add	893.31	
40 05 19 00-2165	EA	8"	Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,767.96	420.59
			For Class 52 Rating, Deduct	-344.38	
			For Class 54 Rating, Add	477.25	
			For Class 55 Rating, Add	713.44	
			For Class 56 Rating, Add	946.50	
40 05 19 00-2166	EA	8"	Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,953.80	424.76
			For Class 52 Rating, Deduct	-364.13	
			For Class 54 Rating, Add	504.26	
			For Class 55 Rating, Add	753.63	
			For Class 56 Rating, Add	999.69	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2167	EA	8" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,139.64		428.92
		For Class 52 Rating, Deduct		-383.87		
		For Class 54 Rating, Add		531.26		
		For Class 55 Rating, Add		793.81		
		For Class 56 Rating, Add		1,052.87		
40 05 19 00-2168	EA	8" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,325.47		433.09
		For Class 52 Rating, Deduct		-403.62		
		For Class 54 Rating, Add		558.27		
		For Class 55 Rating, Add		834.00		
		For Class 56 Rating, Add		1,106.06		
40 05 19 00-2169	EA	8" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,511.32		437.25
		For Class 52 Rating, Deduct		-423.37		
		For Class 54 Rating, Add		585.27		
		For Class 55 Rating, Add		874.18		
		For Class 56 Rating, Add		1,159.25		
40 05 19 00-2170	EA	8" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,697.15		441.41
		For Class 52 Rating, Deduct		-443.12		
		For Class 54 Rating, Add		612.28		
		For Class 55 Rating, Add		914.37		
		For Class 56 Rating, Add		1,212.44		
40 05 19 00-2171	EA	8" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,882.99		445.58
		For Class 52 Rating, Deduct		-462.87		
		For Class 54 Rating, Add		639.28		
		For Class 55 Rating, Add		954.56		
		For Class 56 Rating, Add		1,265.63		
40 05 19 00-2172	EA	8" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,068.82		449.75
		For Class 52 Rating, Deduct		-482.61		
		For Class 54 Rating, Add		666.29		
		For Class 55 Rating, Add		994.74		
		For Class 56 Rating, Add		1,318.81		
40 05 19 00-2173	EA	8" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,254.66		453.91
		For Class 52 Rating, Deduct		-502.36		
		For Class 54 Rating, Add		693.29		
		For Class 55 Rating, Add		1,034.93		
		For Class 56 Rating, Add		1,372.00		
40 05 19 00-2174	EA	8" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,440.50		458.07
		For Class 52 Rating, Deduct		-522.11		
		For Class 54 Rating, Add		720.30		
		For Class 55 Rating, Add		1,075.12		
		For Class 56 Rating, Add		1,425.19		
40 05 19 00-2175	EA	8" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,626.32		462.23
		For Class 52 Rating, Deduct		-541.86		
		For Class 54 Rating, Add		747.30		
		For Class 55 Rating, Add		1,115.30		
		For Class 56 Rating, Add		1,478.37		
40 05 19 00-2176	EA	8" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,812.17		466.40
		For Class 52 Rating, Deduct		-561.61		
		For Class 54 Rating, Add		774.31		
		For Class 55 Rating, Add		1,155.49		
		For Class 56 Rating, Add		1,531.56		
40 05 19 00-2177	EA	8" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,998.01		470.57
		For Class 52 Rating, Deduct		-581.35		
		For Class 54 Rating, Add		801.31		
		For Class 55 Rating, Add		1,195.67		
		For Class 56 Rating, Add		1,584.75		
40 05 19 00-2178	EA	8" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,183.85		474.73
		For Class 52 Rating, Deduct		-601.10		
		For Class 54 Rating, Add		828.32		
		For Class 55 Rating, Add		1,235.86		
		For Class 56 Rating, Add		1,637.94		
40 05 19 00-2179	EA	8" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,369.68		478.89
		For Class 52 Rating, Deduct		-620.85		
		For Class 54 Rating, Add		855.32		
		For Class 55 Rating, Add		1,276.04		
		For Class 56 Rating, Add		1,691.13		
40 05 19 00-2180	EA	8" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,555.51		483.06
		For Class 52 Rating, Deduct		-640.60		
		For Class 54 Rating, Add		882.32		
		For Class 55 Rating, Add		1,316.23		
		For Class 56 Rating, Add		1,744.31		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2181	EA	8" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,741.35	487.22
		For Class 52 Rating, Deduct	-660.35	
		For Class 54 Rating, Add	909.33	
		For Class 55 Rating, Add	1,356.42	
		For Class 56 Rating, Add	1,797.50	
40 05 19 00-2182	EA	8" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,927.19	491.39
		For Class 52 Rating, Deduct	-680.09	
		For Class 54 Rating, Add	936.33	
		For Class 55 Rating, Add	1,396.60	
		For Class 56 Rating, Add	1,850.69	
40 05 19 00-2183	EA	8" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,113.03	495.55
		For Class 52 Rating, Deduct	-699.84	
		For Class 54 Rating, Add	963.34	
		For Class 55 Rating, Add	1,436.79	
		For Class 56 Rating, Add	1,903.88	
40 05 19 00-2184	EA	8" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,298.87	499.71
		For Class 52 Rating, Deduct	-719.59	
		For Class 54 Rating, Add	990.34	
		For Class 55 Rating, Add	1,476.98	
		For Class 56 Rating, Add	1,957.06	
40 05 19 00-2185	EA	8" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,484.70	503.88
		For Class 52 Rating, Deduct	-739.34	
		For Class 54 Rating, Add	1,017.35	
		For Class 55 Rating, Add	1,517.16	
		For Class 56 Rating, Add	2,010.25	
40 05 19 00-2186	EA	8" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,670.53	508.05
		For Class 52 Rating, Deduct	-759.08	
		For Class 54 Rating, Add	1,044.35	
		For Class 55 Rating, Add	1,557.35	
		For Class 56 Rating, Add	2,063.44	
40 05 19 00-2187	EA	8" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,856.37	512.21
		For Class 52 Rating, Deduct	-778.83	
		For Class 54 Rating, Add	1,071.36	
		For Class 55 Rating, Add	1,597.53	
		For Class 56 Rating, Add	2,116.63	
40 05 19 00-2188	EA	8" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,042.22	516.37
		For Class 52 Rating, Deduct	-798.58	
		For Class 54 Rating, Add	1,098.36	
		For Class 55 Rating, Add	1,637.72	
		For Class 56 Rating, Add	2,169.82	
40 05 19 00-2189	EA	8" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,228.05	520.53
		For Class 52 Rating, Deduct	-818.33	
		For Class 54 Rating, Add	1,125.37	
		For Class 55 Rating, Add	1,677.91	
		For Class 56 Rating, Add	2,223.00	
40 05 19 00-2190	EA	8" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,413.88	524.70
		For Class 52 Rating, Deduct	-838.08	
		For Class 54 Rating, Add	1,152.37	
		For Class 55 Rating, Add	1,718.09	
		For Class 56 Rating, Add	2,276.19	
40 05 19 00-2191	EA	8" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,599.72	528.87
		For Class 52 Rating, Deduct	-857.83	
		For Class 54 Rating, Add	1,179.38	
		For Class 55 Rating, Add	1,758.28	
		For Class 56 Rating, Add	2,329.38	
40 05 19 00-2192	EA	8" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,785.56	533.03
		For Class 52 Rating, Deduct	-877.57	
		For Class 54 Rating, Add	1,206.38	
		For Class 55 Rating, Add	1,798.46	
		For Class 56 Rating, Add	2,382.57	
40 05 19 00-2193	EA	8" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,971.39	537.19
		For Class 52 Rating, Deduct	-897.32	
		For Class 54 Rating, Add	1,233.39	
		For Class 55 Rating, Add	1,838.65	
		For Class 56 Rating, Add	2,435.75	
40 05 19 00-2194	EA	8" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,157.22	541.36
		For Class 52 Rating, Deduct	-917.07	
		For Class 54 Rating, Add	1,260.39	
		For Class 55 Rating, Add	1,878.83	
		For Class 56 Rating, Add	2,488.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2195			10" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2196	EA		10" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,646.82	466.40
			For Class 52 Rating, Deduct	-213.42	
			For Class 54 Rating, Add	299.50	
			For Class 55 Rating, Add	449.61	
			For Class 56 Rating, Add	597.78	
40 05 19 00-2197	EA		10" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,886.20	470.57
			For Class 52 Rating, Deduct	-239.05	
			For Class 54 Rating, Add	334.54	
			For Class 55 Rating, Add	501.74	
			For Class 56 Rating, Add	666.77	
40 05 19 00-2198	EA		10" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,125.58	474.73
			For Class 52 Rating, Deduct	-264.69	
			For Class 54 Rating, Add	369.57	
			For Class 55 Rating, Add	553.87	
			For Class 56 Rating, Add	735.75	
40 05 19 00-2199	EA		10" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,364.96	478.89
			For Class 52 Rating, Deduct	-290.33	
			For Class 54 Rating, Add	404.61	
			For Class 55 Rating, Add	605.99	
			For Class 56 Rating, Add	804.73	
40 05 19 00-2200	EA		10" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,604.34	483.06
			For Class 52 Rating, Deduct	-315.97	
			For Class 54 Rating, Add	439.65	
			For Class 55 Rating, Add	658.12	
			For Class 56 Rating, Add	873.72	
40 05 19 00-2201	EA		10" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,843.72	487.22
			For Class 52 Rating, Deduct	-341.61	
			For Class 54 Rating, Add	474.69	
			For Class 55 Rating, Add	710.25	
			For Class 56 Rating, Add	942.70	
40 05 19 00-2202	EA		10" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,083.11	491.39
			For Class 52 Rating, Deduct	-367.24	
			For Class 54 Rating, Add	509.72	
			For Class 55 Rating, Add	762.37	
			For Class 56 Rating, Add	1,011.68	
40 05 19 00-2203	EA		10" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,322.49	495.55
			For Class 52 Rating, Deduct	-392.88	
			For Class 54 Rating, Add	544.76	
			For Class 55 Rating, Add	814.50	
			For Class 56 Rating, Add	1,080.67	
40 05 19 00-2204	EA		10" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,561.87	499.71
			For Class 52 Rating, Deduct	-418.52	
			For Class 54 Rating, Add	579.79	
			For Class 55 Rating, Add	866.62	
			For Class 56 Rating, Add	1,149.65	
40 05 19 00-2205	EA		10" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,801.24	503.88
			For Class 52 Rating, Deduct	-444.16	
			For Class 54 Rating, Add	614.83	
			For Class 55 Rating, Add	918.75	
			For Class 56 Rating, Add	1,218.63	
40 05 19 00-2206	EA		10" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,040.62	508.05
			For Class 52 Rating, Deduct	-469.79	
			For Class 54 Rating, Add	649.87	
			For Class 55 Rating, Add	970.88	
			For Class 56 Rating, Add	1,287.62	
40 05 19 00-2207	EA		10" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,280.00	512.21
			For Class 52 Rating, Deduct	-495.43	
			For Class 54 Rating, Add	684.90	
			For Class 55 Rating, Add	1,023.00	
			For Class 56 Rating, Add	1,356.60	
40 05 19 00-2208	EA		10" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,519.39	516.37
			For Class 52 Rating, Deduct	-521.07	
			For Class 54 Rating, Add	719.94	
			For Class 55 Rating, Add	1,075.13	
			For Class 56 Rating, Add	1,425.58	
40 05 19 00-2209	EA		10" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,758.76	520.53
			For Class 52 Rating, Deduct	-546.71	
			For Class 54 Rating, Add	754.97	
			For Class 55 Rating, Add	1,127.25	
			For Class 56 Rating, Add	1,494.56	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2210	EA	10" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,998.14	524.70
		For Class 52 Rating, Deduct	-572.35	
		For Class 54 Rating, Add	790.01	
		For Class 55 Rating, Add	1,179.38	
		For Class 56 Rating, Add	1,563.55	
40 05 19 00-2211	EA	10" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,237.52	528.87
		For Class 52 Rating, Deduct	-597.98	
		For Class 54 Rating, Add	825.05	
		For Class 55 Rating, Add	1,231.51	
		For Class 56 Rating, Add	1,632.53	
40 05 19 00-2212	EA	10" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,476.90	533.03
		For Class 52 Rating, Deduct	-623.62	
		For Class 54 Rating, Add	860.08	
		For Class 55 Rating, Add	1,283.63	
		For Class 56 Rating, Add	1,701.51	
40 05 19 00-2213	EA	10" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,716.28	537.19
		For Class 52 Rating, Deduct	-649.26	
		For Class 54 Rating, Add	895.12	
		For Class 55 Rating, Add	1,335.76	
		For Class 56 Rating, Add	1,770.49	
40 05 19 00-2214	EA	10" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,955.65	541.36
		For Class 52 Rating, Deduct	-674.90	
		For Class 54 Rating, Add	930.16	
		For Class 55 Rating, Add	1,387.88	
		For Class 56 Rating, Add	1,839.48	
40 05 19 00-2215	EA	10" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,195.04	545.52
		For Class 52 Rating, Deduct	-700.53	
		For Class 54 Rating, Add	965.19	
		For Class 55 Rating, Add	1,440.01	
		For Class 56 Rating, Add	1,908.46	
40 05 19 00-2216	EA	10" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,434.42	549.69
		For Class 52 Rating, Deduct	-726.17	
		For Class 54 Rating, Add	1,000.23	
		For Class 55 Rating, Add	1,492.14	
		For Class 56 Rating, Add	1,977.44	
40 05 19 00-2217	EA	10" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,673.80	553.85
		For Class 52 Rating, Deduct	-751.81	
		For Class 54 Rating, Add	1,035.26	
		For Class 55 Rating, Add	1,544.26	
		For Class 56 Rating, Add	2,046.43	
40 05 19 00-2218	EA	10" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,913.18	558.01
		For Class 52 Rating, Deduct	-777.45	
		For Class 54 Rating, Add	1,070.30	
		For Class 55 Rating, Add	1,596.39	
		For Class 56 Rating, Add	2,115.41	
40 05 19 00-2219	EA	10" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,152.55	562.18
		For Class 52 Rating, Deduct	-803.08	
		For Class 54 Rating, Add	1,105.34	
		For Class 55 Rating, Add	1,648.51	
		For Class 56 Rating, Add	2,184.39	
40 05 19 00-2220	EA	10" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,391.93	566.35
		For Class 52 Rating, Deduct	-828.72	
		For Class 54 Rating, Add	1,140.37	
		For Class 55 Rating, Add	1,700.64	
		For Class 56 Rating, Add	2,253.37	
40 05 19 00-2221	EA	10" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,631.32	570.51
		For Class 52 Rating, Deduct	-854.36	
		For Class 54 Rating, Add	1,175.41	
		For Class 55 Rating, Add	1,752.77	
		For Class 56 Rating, Add	2,322.36	
40 05 19 00-2222	EA	10" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,870.70	574.67
		For Class 52 Rating, Deduct	-880.00	
		For Class 54 Rating, Add	1,210.45	
		For Class 55 Rating, Add	1,804.89	
		For Class 56 Rating, Add	2,391.34	
40 05 19 00-2223	EA	10" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,110.08	578.83
		For Class 52 Rating, Deduct	-905.64	
		For Class 54 Rating, Add	1,245.48	
		For Class 55 Rating, Add	1,857.02	
		For Class 56 Rating, Add	2,460.32	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2224	EA	10" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,349.45		583.00
		For Class 52 Rating, Deduct	-931.27		
		For Class 54 Rating, Add	1,280.52		
		For Class 55 Rating, Add	1,909.14		
		For Class 56 Rating, Add	2,529.31		
40 05 19 00-2225	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,588.84		587.17
		For Class 52 Rating, Deduct	-956.91		
		For Class 54 Rating, Add	1,315.56		
		For Class 55 Rating, Add	1,961.27		
		For Class 56 Rating, Add	2,598.29		
40 05 19 00-2226	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,828.22		591.33
		For Class 52 Rating, Deduct	-982.55		
		For Class 54 Rating, Add	1,350.59		
		For Class 55 Rating, Add	2,013.40		
		For Class 56 Rating, Add	2,667.27		
40 05 19 00-2227	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,067.61		595.49
		For Class 52 Rating, Deduct	-1,008.19		
		For Class 54 Rating, Add	1,385.63		
		For Class 55 Rating, Add	2,065.53		
		For Class 56 Rating, Add	2,736.26		
40 05 19 00-2228	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,306.99		599.66
		For Class 52 Rating, Deduct	-1,033.83		
		For Class 54 Rating, Add	1,420.66		
		For Class 55 Rating, Add	2,117.65		
		For Class 56 Rating, Add	2,805.24		
40 05 19 00-2229	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,546.36		603.82
		For Class 52 Rating, Deduct	-1,059.46		
		For Class 54 Rating, Add	1,455.70		
		For Class 55 Rating, Add	2,169.78		
		For Class 56 Rating, Add	2,874.22		
40 05 19 00-2230	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,785.74		607.99
		For Class 52 Rating, Deduct	-1,085.10		
		For Class 54 Rating, Add	1,490.74		
		For Class 55 Rating, Add	2,221.90		
		For Class 56 Rating, Add	2,943.21		
40 05 19 00-2231	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,025.12		612.15
		For Class 52 Rating, Deduct	-1,110.74		
		For Class 54 Rating, Add	1,525.77		
		For Class 55 Rating, Add	2,274.03		
		For Class 56 Rating, Add	3,012.19		
40 05 19 00-2232	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,264.50		616.31
		For Class 52 Rating, Deduct	-1,136.38		
		For Class 54 Rating, Add	1,560.81		
		For Class 55 Rating, Add	2,326.16		
		For Class 56 Rating, Add	3,081.17		
40 05 19 00-2233	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,503.88		620.48
		For Class 52 Rating, Deduct	-1,162.01		
		For Class 54 Rating, Add	1,595.85		
		For Class 55 Rating, Add	2,378.28		
		For Class 56 Rating, Add	3,150.15		
40 05 19 00-2234	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,743.26		624.65
		For Class 52 Rating, Deduct	-1,187.65		
		For Class 54 Rating, Add	1,630.88		
		For Class 55 Rating, Add	2,430.41		
		For Class 56 Rating, Add	3,219.14		
40 05 19 00-2235		12" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)			
40 05 19 00-2236	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,466.00		583.00
		For Class 52 Rating, Deduct	-284.09		
		For Class 54 Rating, Add	398.00		
		For Class 55 Rating, Add	597.14		
		For Class 56 Rating, Add	793.69		
40 05 19 00-2237	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,762.08		587.17
		For Class 52 Rating, Deduct	-315.97		
		For Class 54 Rating, Add	441.54		
		For Class 55 Rating, Add	661.91		
		For Class 56 Rating, Add	879.40		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2238	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,058.15	591.33
		For Class 52 Rating, Deduct	-347.84	
		For Class 54 Rating, Add	485.08	
		For Class 55 Rating, Add	726.67	
		For Class 56 Rating, Add	965.10	
40 05 19 00-2239	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,354.23	595.49
		For Class 52 Rating, Deduct	-379.72	
		For Class 54 Rating, Add	528.62	
		For Class 55 Rating, Add	791.44	
		For Class 56 Rating, Add	1,050.81	
40 05 19 00-2240	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,650.30	599.66
		For Class 52 Rating, Deduct	-411.59	
		For Class 54 Rating, Add	572.16	
		For Class 55 Rating, Add	856.21	
		For Class 56 Rating, Add	1,136.52	
40 05 19 00-2241	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,946.37	603.82
		For Class 52 Rating, Deduct	-443.46	
		For Class 54 Rating, Add	615.70	
		For Class 55 Rating, Add	920.98	
		For Class 56 Rating, Add	1,222.23	
40 05 19 00-2242	EA	12" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,242.44	607.99
		For Class 52 Rating, Deduct	-475.34	
		For Class 54 Rating, Add	659.24	
		For Class 55 Rating, Add	985.75	
		For Class 56 Rating, Add	1,307.93	
40 05 19 00-2243	EA	12" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,538.51	612.15
		For Class 52 Rating, Deduct	-507.21	
		For Class 54 Rating, Add	702.78	
		For Class 55 Rating, Add	1,050.52	
		For Class 56 Rating, Add	1,393.64	
40 05 19 00-2244	EA	12" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,834.59	616.31
		For Class 52 Rating, Deduct	-539.09	
		For Class 54 Rating, Add	746.32	
		For Class 55 Rating, Add	1,115.29	
		For Class 56 Rating, Add	1,479.35	
40 05 19 00-2245	EA	12" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,130.66	620.48
		For Class 52 Rating, Deduct	-570.96	
		For Class 54 Rating, Add	789.86	
		For Class 55 Rating, Add	1,180.05	
		For Class 56 Rating, Add	1,565.05	
40 05 19 00-2246	EA	12" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,426.73	624.65
		For Class 52 Rating, Deduct	-602.83	
		For Class 54 Rating, Add	833.40	
		For Class 55 Rating, Add	1,244.82	
		For Class 56 Rating, Add	1,650.76	
40 05 19 00-2247	EA	12" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,722.81	628.81
		For Class 52 Rating, Deduct	-634.71	
		For Class 54 Rating, Add	876.94	
		For Class 55 Rating, Add	1,309.59	
		For Class 56 Rating, Add	1,736.47	
40 05 19 00-2248	EA	12" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,018.88	632.97
		For Class 52 Rating, Deduct	-666.58	
		For Class 54 Rating, Add	920.48	
		For Class 55 Rating, Add	1,374.36	
		For Class 56 Rating, Add	1,822.18	
40 05 19 00-2249	EA	12" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,314.95	637.14
		For Class 52 Rating, Deduct	-698.45	
		For Class 54 Rating, Add	964.02	
		For Class 55 Rating, Add	1,439.13	
		For Class 56 Rating, Add	1,907.88	
40 05 19 00-2250	EA	12" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,611.03	641.30
		For Class 52 Rating, Deduct	-730.33	
		For Class 54 Rating, Add	1,007.56	
		For Class 55 Rating, Add	1,503.90	
		For Class 56 Rating, Add	1,993.59	
40 05 19 00-2251	EA	12" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,907.09	645.47
		For Class 52 Rating, Deduct	-762.20	
		For Class 54 Rating, Add	1,051.10	
		For Class 55 Rating, Add	1,568.67	
		For Class 56 Rating, Add	2,079.30	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2252	EA	12" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,203.17		649.63
		For Class 52 Rating, Deduct	-794.08		
		For Class 54 Rating, Add	1,094.64		
		For Class 55 Rating, Add	1,633.43		
		For Class 56 Rating, Add	2,165.00		
40 05 19 00-2253	EA	12" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,499.25		653.79
		For Class 52 Rating, Deduct	-825.95		
		For Class 54 Rating, Add	1,138.18		
		For Class 55 Rating, Add	1,698.20		
		For Class 56 Rating, Add	2,250.71		
40 05 19 00-2254	EA	12" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,795.32		657.96
		For Class 52 Rating, Deduct	-857.83		
		For Class 54 Rating, Add	1,181.72		
		For Class 55 Rating, Add	1,762.97		
		For Class 56 Rating, Add	2,336.42		
40 05 19 00-2255	EA	12" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,091.39		662.12
		For Class 52 Rating, Deduct	-889.70		
		For Class 54 Rating, Add	1,225.26		
		For Class 55 Rating, Add	1,827.74		
		For Class 56 Rating, Add	2,422.13		
40 05 19 00-2256	EA	12" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,387.46		666.29
		For Class 52 Rating, Deduct	-921.57		
		For Class 54 Rating, Add	1,268.81		
		For Class 55 Rating, Add	1,892.51		
		For Class 56 Rating, Add	2,507.84		
40 05 19 00-2257	EA	12" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,683.53		670.45
		For Class 52 Rating, Deduct	-953.45		
		For Class 54 Rating, Add	1,312.34		
		For Class 55 Rating, Add	1,957.28		
		For Class 56 Rating, Add	2,593.54		
40 05 19 00-2258	EA	12" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,979.60		674.61
		For Class 52 Rating, Deduct	-985.32		
		For Class 54 Rating, Add	1,355.88		
		For Class 55 Rating, Add	2,022.04		
		For Class 56 Rating, Add	2,679.25		
40 05 19 00-2259	EA	12" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,275.69		678.78
		For Class 52 Rating, Deduct	-1,017.20		
		For Class 54 Rating, Add	1,399.43		
		For Class 55 Rating, Add	2,086.82		
		For Class 56 Rating, Add	2,764.96		
40 05 19 00-2260	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,568.61		682.95
		For Class 52 Rating, Deduct	-1,048.72		
		For Class 54 Rating, Add	1,442.49		
		For Class 55 Rating, Add	2,150.88		
		For Class 56 Rating, Add	2,849.73		
40 05 19 00-2261	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,867.82		687.11
		For Class 52 Rating, Deduct	-1,080.94		
		For Class 54 Rating, Add	1,486.51		
		For Class 55 Rating, Add	2,216.35		
		For Class 56 Rating, Add	2,936.37		
40 05 19 00-2262	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,163.90		691.27
		For Class 52 Rating, Deduct	-1,112.82		
		For Class 54 Rating, Add	1,530.05		
		For Class 55 Rating, Add	2,281.12		
		For Class 56 Rating, Add	3,022.08		
40 05 19 00-2263	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,459.97		695.44
		For Class 52 Rating, Deduct	-1,144.69		
		For Class 54 Rating, Add	1,573.59		
		For Class 55 Rating, Add	2,345.89		
		For Class 56 Rating, Add	3,107.79		
40 05 19 00-2264	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,756.04		699.60
		For Class 52 Rating, Deduct	-1,176.56		
		For Class 54 Rating, Add	1,617.13		
		For Class 55 Rating, Add	2,410.66		
		For Class 56 Rating, Add	3,193.49		
40 05 19 00-2265	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,052.12		703.77
		For Class 52 Rating, Deduct	-1,208.44		
		For Class 54 Rating, Add	1,660.67		
		For Class 55 Rating, Add	2,475.43		
		For Class 56 Rating, Add	3,279.20		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2266	EA	12"	Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,348.19	707.93
			For Class 52 Rating, Deduct	-1,240.31	
			For Class 54 Rating, Add	1,704.21	
			For Class 55 Rating, Add	2,540.19	
			For Class 56 Rating, Add	3,364.91	
40 05 19 00-2267	EA	12"	Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,644.26	712.09
			For Class 52 Rating, Deduct	-1,272.19	
			For Class 54 Rating, Add	1,747.75	
			For Class 55 Rating, Add	2,604.96	
			For Class 56 Rating, Add	3,450.61	
40 05 19 00-2268	EA	12"	Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,940.33	716.26
			For Class 52 Rating, Deduct	-1,304.06	
			For Class 54 Rating, Add	1,791.29	
			For Class 55 Rating, Add	2,669.73	
			For Class 56 Rating, Add	3,536.32	
40 05 19 00-2269	EA	12"	Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,236.41	720.42
			For Class 52 Rating, Deduct	-1,335.93	
			For Class 54 Rating, Add	1,834.83	
			For Class 55 Rating, Add	2,734.50	
			For Class 56 Rating, Add	3,622.03	
40 05 19 00-2270	EA	12"	Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,532.47	724.59
			For Class 52 Rating, Deduct	-1,367.61	
			For Class 54 Rating, Add	1,878.37	
			For Class 55 Rating, Add	2,799.27	
			For Class 56 Rating, Add	3,707.74	
40 05 19 00-2271	EA	12"	Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,828.55	728.75
			For Class 52 Rating, Deduct	-1,399.68	
			For Class 54 Rating, Add	1,921.91	
			For Class 55 Rating, Add	2,864.04	
			For Class 56 Rating, Add	3,793.44	
40 05 19 00-2272	EA	12"	Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,124.63	732.91
			For Class 52 Rating, Deduct	-1,431.56	
			For Class 54 Rating, Add	1,965.45	
			For Class 55 Rating, Add	2,928.81	
			For Class 56 Rating, Add	3,879.15	
40 05 19 00-2273	EA	12"	Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,420.70	737.08
			For Class 52 Rating, Deduct	-1,463.43	
			For Class 54 Rating, Add	2,008.99	
			For Class 55 Rating, Add	2,993.57	
			For Class 56 Rating, Add	3,964.66	
40 05 19 00-2274	EA	12"	Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,716.77	741.25
			For Class 52 Rating, Deduct	-1,495.30	
			For Class 54 Rating, Add	2,052.53	
			For Class 55 Rating, Add	3,058.34	
			For Class 56 Rating, Add	4,050.56	
40 05 19 00-2275			14" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2276	EA	14"	Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,653.69	699.60
			For Class 52 Rating, Deduct	-395.31	
			For Class 54 Rating, Add	551.77	
			For Class 55 Rating, Add	826.83	
			For Class 56 Rating, Add	1,098.30	
40 05 19 00-2277	EA	14"	Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,012.77	703.77
			For Class 52 Rating, Deduct	-434.11	
			For Class 54 Rating, Add	604.76	
			For Class 55 Rating, Add	905.65	
			For Class 56 Rating, Add	1,202.59	
40 05 19 00-2278	EA	14"	Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,371.82	707.93
			For Class 52 Rating, Deduct	-472.91	
			For Class 54 Rating, Add	657.75	
			For Class 55 Rating, Add	984.46	
			For Class 56 Rating, Add	1,306.88	
40 05 19 00-2279	EA	14"	Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,730.89	712.09
			For Class 52 Rating, Deduct	-511.72	
			For Class 54 Rating, Add	710.74	
			For Class 55 Rating, Add	1,063.28	
			For Class 56 Rating, Add	1,411.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2280	EA	14" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,089.95		716.26
		For Class 52 Rating, Deduct	-550.52		
		For Class 54 Rating, Add	763.73		
		For Class 55 Rating, Add	1,142.10		
		For Class 56 Rating, Add	1,515.46		
40 05 19 00-2281	EA	14" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,449.02		720.42
		For Class 52 Rating, Deduct	-589.32		
		For Class 54 Rating, Add	816.72		
		For Class 55 Rating, Add	1,220.91		
		For Class 56 Rating, Add	1,619.75		
40 05 19 00-2282	EA	14" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,808.07		724.59
		For Class 52 Rating, Deduct	-628.12		
		For Class 54 Rating, Add	869.71		
		For Class 55 Rating, Add	1,299.73		
		For Class 56 Rating, Add	1,724.04		
40 05 19 00-2283	EA	14" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,167.15		728.75
		For Class 52 Rating, Deduct	-666.93		
		For Class 54 Rating, Add	922.70		
		For Class 55 Rating, Add	1,378.54		
		For Class 56 Rating, Add	1,828.33		
40 05 19 00-2284	EA	14" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,526.22		732.91
		For Class 52 Rating, Deduct	-705.73		
		For Class 54 Rating, Add	975.69		
		For Class 55 Rating, Add	1,457.36		
		For Class 56 Rating, Add	1,932.62		
40 05 19 00-2285	EA	14" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,885.28		737.08
		For Class 52 Rating, Deduct	-744.53		
		For Class 54 Rating, Add	1,028.67		
		For Class 55 Rating, Add	1,536.18		
		For Class 56 Rating, Add	2,036.91		
40 05 19 00-2286	EA	14" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,244.35		741.25
		For Class 52 Rating, Deduct	-783.34		
		For Class 54 Rating, Add	1,081.66		
		For Class 55 Rating, Add	1,614.99		
		For Class 56 Rating, Add	2,141.20		
40 05 19 00-2287	EA	14" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,603.40		745.41
		For Class 52 Rating, Deduct	-822.14		
		For Class 54 Rating, Add	1,134.65		
		For Class 55 Rating, Add	1,693.81		
		For Class 56 Rating, Add	2,245.49		
40 05 19 00-2288	EA	14" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,962.47		749.57
		For Class 52 Rating, Deduct	-860.94		
		For Class 54 Rating, Add	1,187.64		
		For Class 55 Rating, Add	1,772.62		
		For Class 56 Rating, Add	2,349.78		
40 05 19 00-2289	EA	14" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,321.53		753.74
		For Class 52 Rating, Deduct	-899.75		
		For Class 54 Rating, Add	1,240.63		
		For Class 55 Rating, Add	1,851.44		
		For Class 56 Rating, Add	2,454.07		
40 05 19 00-2290	EA	14" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,680.61		757.90
		For Class 52 Rating, Deduct	-938.55		
		For Class 54 Rating, Add	1,293.62		
		For Class 55 Rating, Add	1,930.26		
		For Class 56 Rating, Add	2,558.36		
40 05 19 00-2291	EA	14" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,039.67		762.07
		For Class 52 Rating, Deduct	-977.35		
		For Class 54 Rating, Add	1,346.61		
		For Class 55 Rating, Add	2,009.07		
		For Class 56 Rating, Add	2,662.65		
40 05 19 00-2292	EA	14" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,398.73		766.22
		For Class 52 Rating, Deduct	-1,016.16		
		For Class 54 Rating, Add	1,399.60		
		For Class 55 Rating, Add	2,087.89		
		For Class 56 Rating, Add	2,766.94		
40 05 19 00-2293	EA	14" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,757.79		770.39
		For Class 52 Rating, Deduct	-1,054.96		
		For Class 54 Rating, Add	1,452.59		
		For Class 55 Rating, Add	2,166.70		
		For Class 56 Rating, Add	2,871.23		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2294	EA	14" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,116.86	774.56
		For Class 52 Rating, Deduct	-1,093.76	
		For Class 54 Rating, Add	1,505.58	
		For Class 55 Rating, Add	2,245.52	
		For Class 56 Rating, Add	2,975.52	
40 05 19 00-2295	EA	14" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,475.92	778.72
		For Class 52 Rating, Deduct	-1,132.56	
		For Class 54 Rating, Add	1,558.56	
		For Class 55 Rating, Add	2,324.33	
		For Class 56 Rating, Add	3,079.81	
40 05 19 00-2296	EA	14" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,835.00	782.89
		For Class 52 Rating, Deduct	-1,171.37	
		For Class 54 Rating, Add	1,611.55	
		For Class 55 Rating, Add	2,403.15	
		For Class 56 Rating, Add	3,184.10	
40 05 19 00-2297	EA	14" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,194.05	787.05
		For Class 52 Rating, Deduct	-1,210.17	
		For Class 54 Rating, Add	1,664.54	
		For Class 55 Rating, Add	2,481.97	
		For Class 56 Rating, Add	3,288.39	
40 05 19 00-2298	EA	14" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,553.12	791.21
		For Class 52 Rating, Deduct	-1,248.97	
		For Class 54 Rating, Add	1,717.53	
		For Class 55 Rating, Add	2,560.78	
		For Class 56 Rating, Add	3,392.68	
40 05 19 00-2299	EA	14" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,912.18	795.38
		For Class 52 Rating, Deduct	-1,287.78	
		For Class 54 Rating, Add	1,770.52	
		For Class 55 Rating, Add	2,639.60	
		For Class 56 Rating, Add	3,496.97	
40 05 19 00-2300	EA	14" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,271.25	799.55
		For Class 52 Rating, Deduct	-1,326.58	
		For Class 54 Rating, Add	1,823.51	
		For Class 55 Rating, Add	2,718.41	
		For Class 56 Rating, Add	3,601.26	
40 05 19 00-2301	EA	14" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,630.31	803.71
		For Class 52 Rating, Deduct	-1,365.38	
		For Class 54 Rating, Add	1,876.50	
		For Class 55 Rating, Add	2,797.23	
		For Class 56 Rating, Add	3,705.55	
40 05 19 00-2302	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,989.38	807.87
		For Class 52 Rating, Deduct	-1,404.19	
		For Class 54 Rating, Add	1,929.49	
		For Class 55 Rating, Add	2,876.05	
		For Class 56 Rating, Add	3,809.84	
40 05 19 00-2303	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,348.44	812.04
		For Class 52 Rating, Deduct	-1,442.99	
		For Class 54 Rating, Add	1,982.48	
		For Class 55 Rating, Add	2,954.86	
		For Class 56 Rating, Add	3,914.13	
40 05 19 00-2304	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,707.51	816.20
		For Class 52 Rating, Deduct	-1,481.79	
		For Class 54 Rating, Add	2,035.47	
		For Class 55 Rating, Add	3,033.68	
		For Class 56 Rating, Add	4,018.42	
40 05 19 00-2305	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,066.57	820.37
		For Class 52 Rating, Deduct	-1,520.59	
		For Class 54 Rating, Add	2,088.45	
		For Class 55 Rating, Add	3,112.49	
		For Class 56 Rating, Add	4,122.71	
40 05 19 00-2306	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,425.64	824.52
		For Class 52 Rating, Deduct	-1,559.40	
		For Class 54 Rating, Add	2,141.44	
		For Class 55 Rating, Add	3,191.31	
		For Class 56 Rating, Add	4,227.00	
40 05 19 00-2307	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,784.69	828.69
		For Class 52 Rating, Deduct	-1,598.20	
		For Class 54 Rating, Add	2,194.43	
		For Class 55 Rating, Add	3,270.12	
		For Class 56 Rating, Add	4,331.29	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2308	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,143.76	832.86
		For Class 52 Rating, Deduct		-1,637.00	
		For Class 54 Rating, Add		2,247.42	
		For Class 55 Rating, Add		3,348.94	
		For Class 56 Rating, Add		4,435.58	
40 05 19 00-2309	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,502.84	837.02
		For Class 52 Rating, Deduct		-1,675.81	
		For Class 54 Rating, Add		2,300.41	
		For Class 55 Rating, Add		3,427.76	
		For Class 56 Rating, Add		4,539.87	
40 05 19 00-2310	EA	14" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,861.90	841.19
		For Class 52 Rating, Deduct		-1,714.61	
		For Class 54 Rating, Add		2,353.40	
		For Class 55 Rating, Add		3,506.57	
		For Class 56 Rating, Add		4,644.16	
40 05 19 00-2311	EA	14" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,220.97	845.35
		For Class 52 Rating, Deduct		-1,753.41	
		For Class 54 Rating, Add		2,406.39	
		For Class 55 Rating, Add		3,585.39	
		For Class 56 Rating, Add		4,748.45	
40 05 19 00-2312	EA	14" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,580.02	849.51
		For Class 52 Rating, Deduct		-1,792.22	
		For Class 54 Rating, Add		2,459.38	
		For Class 55 Rating, Add		3,664.20	
		For Class 56 Rating, Add		4,852.74	
40 05 19 00-2313	EA	14" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,939.09	853.68
		For Class 52 Rating, Deduct		-1,831.02	
		For Class 54 Rating, Add		2,512.37	
		For Class 55 Rating, Add		3,743.02	
		For Class 56 Rating, Add		4,957.03	
40 05 19 00-2314		16" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)			
40 05 19 00-2315	EA	16" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,463.39	799.55
		For Class 52 Rating, Deduct		-467.72	
		For Class 54 Rating, Add		652.33	
		For Class 55 Rating, Add		977.26	
		For Class 56 Rating, Add		1,297.94	
40 05 19 00-2316	EA	16" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,879.15	803.71
		For Class 52 Rating, Deduct		-512.76	
		For Class 54 Rating, Add		713.82	
		For Class 55 Rating, Add		1,068.72	
		For Class 56 Rating, Add		1,418.95	
40 05 19 00-2317	EA	16" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,294.91	807.87
		For Class 52 Rating, Deduct		-557.79	
		For Class 54 Rating, Add		775.32	
		For Class 55 Rating, Add		1,160.18	
		For Class 56 Rating, Add		1,539.97	
40 05 19 00-2318	EA	16" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,710.66	812.04
		For Class 52 Rating, Deduct		-602.83	
		For Class 54 Rating, Add		836.81	
		For Class 55 Rating, Add		1,251.64	
		For Class 56 Rating, Add		1,660.98	
40 05 19 00-2319	EA	16" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,126.42	816.20
		For Class 52 Rating, Deduct		-647.87	
		For Class 54 Rating, Add		898.30	
		For Class 55 Rating, Add		1,343.09	
		For Class 56 Rating, Add		1,782.00	
40 05 19 00-2320	EA	16" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,542.18	820.37
		For Class 52 Rating, Deduct		-692.91	
		For Class 54 Rating, Add		959.80	
		For Class 55 Rating, Add		1,434.55	
		For Class 56 Rating, Add		1,903.01	
40 05 19 00-2321	EA	16" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,957.94	824.52
		For Class 52 Rating, Deduct		-737.95	
		For Class 54 Rating, Add		1,021.29	
		For Class 55 Rating, Add		1,526.01	
		For Class 56 Rating, Add		2,024.03	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2322	EA	16" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,373.69	828.69
		For Class 52 Rating, Deduct	-782.99	
		For Class 54 Rating, Add	1,082.78	
		For Class 55 Rating, Add	1,617.47	
		For Class 56 Rating, Add	2,145.04	
40 05 19 00-2323	EA	16" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,789.44	832.86
		For Class 52 Rating, Deduct	-828.03	
		For Class 54 Rating, Add	1,144.27	
		For Class 55 Rating, Add	1,708.93	
		For Class 56 Rating, Add	2,266.05	
40 05 19 00-2324	EA	16" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,205.21	837.02
		For Class 52 Rating, Deduct	-873.07	
		For Class 54 Rating, Add	1,205.77	
		For Class 55 Rating, Add	1,800.39	
		For Class 56 Rating, Add	2,387.07	
40 05 19 00-2325	EA	16" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,620.97	841.19
		For Class 52 Rating, Deduct	-918.11	
		For Class 54 Rating, Add	1,267.26	
		For Class 55 Rating, Add	1,891.84	
		For Class 56 Rating, Add	2,508.08	
40 05 19 00-2326	EA	16" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,036.73	845.35
		For Class 52 Rating, Deduct	-963.15	
		For Class 54 Rating, Add	1,328.75	
		For Class 55 Rating, Add	1,983.30	
		For Class 56 Rating, Add	2,629.10	
40 05 19 00-2327	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,452.48	849.51
		For Class 52 Rating, Deduct	-1,008.19	
		For Class 54 Rating, Add	1,390.25	
		For Class 55 Rating, Add	2,074.76	
		For Class 56 Rating, Add	2,750.11	
40 05 19 00-2328	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,868.23	853.68
		For Class 52 Rating, Deduct	-1,053.23	
		For Class 54 Rating, Add	1,451.74	
		For Class 55 Rating, Add	2,166.22	
		For Class 56 Rating, Add	2,871.12	
40 05 19 00-2329	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,283.99	857.85
		For Class 52 Rating, Deduct	-1,098.27	
		For Class 54 Rating, Add	1,513.23	
		For Class 55 Rating, Add	2,257.68	
		For Class 56 Rating, Add	2,992.14	
40 05 19 00-2330	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,699.76	862.01
		For Class 52 Rating, Deduct	-1,143.30	
		For Class 54 Rating, Add	1,574.72	
		For Class 55 Rating, Add	2,349.14	
		For Class 56 Rating, Add	3,113.15	
40 05 19 00-2331	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,115.52	866.17
		For Class 52 Rating, Deduct	-1,188.34	
		For Class 54 Rating, Add	1,636.22	
		For Class 55 Rating, Add	2,440.60	
		For Class 56 Rating, Add	3,234.17	
40 05 19 00-2332	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,531.27	870.34
		For Class 52 Rating, Deduct	-1,233.38	
		For Class 54 Rating, Add	1,697.71	
		For Class 55 Rating, Add	2,532.05	
		For Class 56 Rating, Add	3,355.18	
40 05 19 00-2333	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,947.02	874.50
		For Class 52 Rating, Deduct	-1,278.42	
		For Class 54 Rating, Add	1,759.20	
		For Class 55 Rating, Add	2,623.51	
		For Class 56 Rating, Add	3,476.20	
40 05 19 00-2334	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,362.78	878.67
		For Class 52 Rating, Deduct	-1,323.46	
		For Class 54 Rating, Add	1,820.70	
		For Class 55 Rating, Add	2,714.97	
		For Class 56 Rating, Add	3,597.21	
40 05 19 00-2335	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,778.54	882.82
		For Class 52 Rating, Deduct	-1,368.50	
		For Class 54 Rating, Add	1,882.19	
		For Class 55 Rating, Add	2,806.43	
		For Class 56 Rating, Add	3,718.23	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2336	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,194.31		886.99
		For Class 52 Rating, Deduct	-1,413.54		
		For Class 54 Rating, Add	1,943.68		
		For Class 55 Rating, Add	2,897.89		
		For Class 56 Rating, Add	3,839.24		
40 05 19 00-2337	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,610.06		891.16
		For Class 52 Rating, Deduct	-1,458.58		
		For Class 54 Rating, Add	2,005.18		
		For Class 55 Rating, Add	2,989.35		
		For Class 56 Rating, Add	3,960.26		
40 05 19 00-2338	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,025.81		895.32
		For Class 52 Rating, Deduct	-1,503.62		
		For Class 54 Rating, Add	2,066.67		
		For Class 55 Rating, Add	3,080.80		
		For Class 56 Rating, Add	4,081.27		
40 05 19 00-2339	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,441.57		899.49
		For Class 52 Rating, Deduct	-1,548.66		
		For Class 54 Rating, Add	2,128.16		
		For Class 55 Rating, Add	3,172.26		
		For Class 56 Rating, Add	4,202.28		
40 05 19 00-2340	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,857.33		903.65
		For Class 52 Rating, Deduct	-1,593.70		
		For Class 54 Rating, Add	2,189.65		
		For Class 55 Rating, Add	3,263.72		
		For Class 56 Rating, Add	4,323.30		
40 05 19 00-2341	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,273.09		907.81
		For Class 52 Rating, Deduct	-1,638.74		
		For Class 54 Rating, Add	2,251.15		
		For Class 55 Rating, Add	3,355.18		
		For Class 56 Rating, Add	4,444.31		
40 05 19 00-2342	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,688.84		911.98
		For Class 52 Rating, Deduct	-1,683.78		
		For Class 54 Rating, Add	2,312.64		
		For Class 55 Rating, Add	3,446.64		
		For Class 56 Rating, Add	4,565.33		
40 05 19 00-2343	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,104.60		916.15
		For Class 52 Rating, Deduct	-1,728.82		
		For Class 54 Rating, Add	2,374.13		
		For Class 55 Rating, Add	3,538.09		
		For Class 56 Rating, Add	4,686.34		
40 05 19 00-2344	EA	16" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,520.36		920.31
		For Class 52 Rating, Deduct	-1,773.85		
		For Class 54 Rating, Add	2,435.63		
		For Class 55 Rating, Add	3,629.55		
		For Class 56 Rating, Add	4,807.35		
40 05 19 00-2345	EA	16" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,936.12		924.47
		For Class 52 Rating, Deduct	-1,818.89		
		For Class 54 Rating, Add	2,497.12		
		For Class 55 Rating, Add	3,721.01		
		For Class 56 Rating, Add	4,928.37		
40 05 19 00-2346	EA	16" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,351.87		928.64
		For Class 52 Rating, Deduct	-1,863.93		
		For Class 54 Rating, Add	2,558.61		
		For Class 55 Rating, Add	3,812.47		
		For Class 56 Rating, Add	5,049.38		
40 05 19 00-2347	EA	16" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,767.63		932.80
		For Class 52 Rating, Deduct	-1,908.97		
		For Class 54 Rating, Add	2,620.10		
		For Class 55 Rating, Add	3,903.93		
		For Class 56 Rating, Add	5,170.40		
40 05 19 00-2348	EA	16" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,183.38		936.97
		For Class 52 Rating, Deduct	-1,954.01		
		For Class 54 Rating, Add	2,681.60		
		For Class 55 Rating, Add	3,995.39		
		For Class 56 Rating, Add	5,291.41		
40 05 19 00-2349	EA	16" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,599.15		941.13
		For Class 52 Rating, Deduct	-1,999.05		
		For Class 54 Rating, Add	2,743.09		
		For Class 55 Rating, Add	4,086.84		
		For Class 56 Rating, Add	5,412.43		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2350	EA	16"	Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	20,014.91 -2,044.09 2,804.58 4,178.30 5,533.44	945.29
40 05 19 00-2351	EA	16"	Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	20,430.66 -2,089.13 2,866.08 4,269.76 5,654.46	949.46
40 05 19 00-2352	EA	16"	Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	20,846.42 -2,134.17 2,927.57 4,361.22 5,775.47	953.62
40 05 19 00-2353			18" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2354	EA	18"	Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,373.25 -550.86 767.56 1,149.52 1,526.47	901.15
40 05 19 00-2355	EA	18"	Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,851.99 -602.83 838.51 1,255.03 1,666.07	905.32
40 05 19 00-2356	EA	18"	Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,330.74 -654.80 909.45 1,360.53 1,805.67	909.49
40 05 19 00-2357	EA	18"	Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,809.49 -706.77 980.39 1,466.04 1,945.26	913.64
40 05 19 00-2358	EA	18"	Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	8,288.24 -758.74 1,051.33 1,571.54 2,084.86	917.81
40 05 19 00-2359	EA	18"	Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	8,766.99 -810.71 1,122.27 1,677.05 2,224.46	921.98
40 05 19 00-2360	EA	18"	Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	9,245.74 -862.68 1,193.21 1,782.56 2,364.05	926.14
40 05 19 00-2361	EA	18"	Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	9,724.49 -914.64 1,264.16 1,888.06 2,503.65	930.30
40 05 19 00-2362	EA	18"	Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	10,203.24 -966.61 1,335.10 1,993.57 2,643.25	934.46
40 05 19 00-2363	EA	18"	Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	10,681.99 -1,018.58 1,406.04 2,099.07 2,782.85	938.63

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2364	EA	18" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,160.74	942.80
		For Class 52 Rating, Deduct		-1,070.55	
		For Class 54 Rating, Add		1,476.98	
		For Class 55 Rating, Add		2,204.58	
		For Class 56 Rating, Add		2,922.44	
40 05 19 00-2365	EA	18" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,639.48	946.96
		For Class 52 Rating, Deduct		-1,122.52	
		For Class 54 Rating, Add		1,547.92	
		For Class 55 Rating, Add		2,310.08	
		For Class 56 Rating, Add		3,062.04	
40 05 19 00-2366	EA	18" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		12,118.24	951.12
		For Class 52 Rating, Deduct		-1,174.49	
		For Class 54 Rating, Add		1,618.86	
		For Class 55 Rating, Add		2,415.59	
		For Class 56 Rating, Add		3,201.64	
40 05 19 00-2367	EA	18" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		12,596.99	955.29
		For Class 52 Rating, Deduct		-1,226.45	
		For Class 54 Rating, Add		1,689.81	
		For Class 55 Rating, Add		2,521.09	
		For Class 56 Rating, Add		3,341.23	
40 05 19 00-2368	EA	18" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,075.74	959.45
		For Class 52 Rating, Deduct		-1,278.42	
		For Class 54 Rating, Add		1,760.75	
		For Class 55 Rating, Add		2,626.60	
		For Class 56 Rating, Add		3,480.83	
40 05 19 00-2369	EA	18" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,554.49	963.62
		For Class 52 Rating, Deduct		-1,330.39	
		For Class 54 Rating, Add		1,831.69	
		For Class 55 Rating, Add		2,732.11	
		For Class 56 Rating, Add		3,620.43	
40 05 19 00-2370	EA	18" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,033.23	967.79
		For Class 52 Rating, Deduct		-1,362.36	
		For Class 54 Rating, Add		1,902.63	
		For Class 55 Rating, Add		2,837.61	
		For Class 56 Rating, Add		3,760.02	
40 05 19 00-2371	EA	18" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,511.98	971.94
		For Class 52 Rating, Deduct		-1,434.33	
		For Class 54 Rating, Add		1,973.57	
		For Class 55 Rating, Add		2,943.12	
		For Class 56 Rating, Add		3,899.62	
40 05 19 00-2372	EA	18" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,990.73	976.11
		For Class 52 Rating, Deduct		-1,486.30	
		For Class 54 Rating, Add		2,044.51	
		For Class 55 Rating, Add		3,048.62	
		For Class 56 Rating, Add		4,039.22	
40 05 19 00-2373	EA	18" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,469.49	980.28
		For Class 52 Rating, Deduct		-1,538.26	
		For Class 54 Rating, Add		2,115.46	
		For Class 55 Rating, Add		3,154.13	
		For Class 56 Rating, Add		4,178.81	
40 05 19 00-2374	EA	18" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,948.24	984.44
		For Class 52 Rating, Deduct		-1,590.23	
		For Class 54 Rating, Add		2,186.40	
		For Class 55 Rating, Add		3,259.63	
		For Class 56 Rating, Add		4,318.41	
40 05 19 00-2375	EA	18" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,426.98	988.60
		For Class 52 Rating, Deduct		-1,642.20	
		For Class 54 Rating, Add		2,257.34	
		For Class 55 Rating, Add		3,365.14	
		For Class 56 Rating, Add		4,458.01	
40 05 19 00-2376	EA	18" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,905.73	992.76
		For Class 52 Rating, Deduct		-1,694.17	
		For Class 54 Rating, Add		2,328.28	
		For Class 55 Rating, Add		3,470.64	
		For Class 56 Rating, Add		4,597.61	
40 05 19 00-2377	EA	18" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,384.48	996.93
		For Class 52 Rating, Deduct		-1,746.14	
		For Class 54 Rating, Add		2,399.22	
		For Class 55 Rating, Add		3,576.15	
		For Class 56 Rating, Add		4,737.20	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2378	EA	18" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,863.23	1,001.10
		For Class 52 Rating, Deduct		-1,798.11	
		For Class 54 Rating, Add		2,470.16	
		For Class 55 Rating, Add		3,681.66	
		For Class 56 Rating, Add		4,876.80	
40 05 19 00-2379	EA	18" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		18,341.99	1,005.26
		For Class 52 Rating, Deduct		-1,850.07	
		For Class 54 Rating, Add		2,541.11	
		For Class 55 Rating, Add		3,787.16	
		For Class 56 Rating, Add		5,016.40	
40 05 19 00-2380	EA	18" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		18,820.73	1,009.42
		For Class 52 Rating, Deduct		-1,902.04	
		For Class 54 Rating, Add		2,612.05	
		For Class 55 Rating, Add		3,892.67	
		For Class 56 Rating, Add		5,155.99	
40 05 19 00-2381	EA	18" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		19,299.48	1,013.59
		For Class 52 Rating, Deduct		-1,954.01	
		For Class 54 Rating, Add		2,682.99	
		For Class 55 Rating, Add		3,998.17	
		For Class 56 Rating, Add		5,295.59	
40 05 19 00-2382	EA	18" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		19,778.23	1,017.75
		For Class 52 Rating, Deduct		-2,005.98	
		For Class 54 Rating, Add		2,753.93	
		For Class 55 Rating, Add		4,103.68	
		For Class 56 Rating, Add		5,435.19	
40 05 19 00-2383	EA	18" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,256.98	1,021.92
		For Class 52 Rating, Deduct		-2,057.95	
		For Class 54 Rating, Add		2,824.87	
		For Class 55 Rating, Add		4,209.18	
		For Class 56 Rating, Add		5,574.78	
40 05 19 00-2384	EA	18" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,735.73	1,026.09
		For Class 52 Rating, Deduct		-2,109.92	
		For Class 54 Rating, Add		2,895.82	
		For Class 55 Rating, Add		4,314.69	
		For Class 56 Rating, Add		5,714.38	
40 05 19 00-2385	EA	18" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,214.48	1,030.24
		For Class 52 Rating, Deduct		-2,161.89	
		For Class 54 Rating, Add		2,966.76	
		For Class 55 Rating, Add		4,420.19	
		For Class 56 Rating, Add		5,853.98	
40 05 19 00-2386	EA	18" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,693.23	1,034.41
		For Class 52 Rating, Deduct		-2,213.85	
		For Class 54 Rating, Add		3,037.70	
		For Class 55 Rating, Add		4,525.70	
		For Class 56 Rating, Add		5,993.57	
40 05 19 00-2387	EA	18" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,171.98	1,038.58
		For Class 52 Rating, Deduct		-2,265.82	
		For Class 54 Rating, Add		3,108.64	
		For Class 55 Rating, Add		4,631.21	
		For Class 56 Rating, Add		6,133.17	
40 05 19 00-2388	EA	18" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,650.73	1,042.74
		For Class 52 Rating, Deduct		-2,317.79	
		For Class 54 Rating, Add		3,179.58	
		For Class 55 Rating, Add		4,736.71	
		For Class 56 Rating, Add		6,272.77	
40 05 19 00-2389	EA	18" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		23,129.47	1,046.90
		For Class 52 Rating, Deduct		-2,369.76	
		For Class 54 Rating, Add		3,250.52	
		For Class 55 Rating, Add		4,842.22	
		For Class 56 Rating, Add		6,412.37	
40 05 19 00-2390	EA	18" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		23,608.22	1,051.07
		For Class 52 Rating, Deduct		-2,421.73	
		For Class 54 Rating, Add		3,321.47	
		For Class 55 Rating, Add		4,947.72	
		For Class 56 Rating, Add		6,551.96	
40 05 19 00-2391	EA	18" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		24,086.97	1,055.23
		For Class 52 Rating, Deduct		-2,473.70	
		For Class 54 Rating, Add		3,392.41	
		For Class 55 Rating, Add		5,053.23	
		For Class 56 Rating, Add		6,691.56	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2392	20" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)			
40 05 19 00-2393	EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,463.96		1,028.58
	For Class 52 Rating, Deduct	-649.61		
	For Class 54 Rating, Add	904.53		
	For Class 55 Rating, Add	1,354.33		
	For Class 56 Rating, Add	1,798.23		
40 05 19 00-2394	EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,008.84		1,032.75
	For Class 52 Rating, Deduct	-708.85		
	For Class 54 Rating, Add	985.39		
	For Class 55 Rating, Add	1,474.58		
	For Class 56 Rating, Add	1,957.33		
40 05 19 00-2395	EA 20" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,553.73		1,036.91
	For Class 52 Rating, Deduct	-768.09		
	For Class 54 Rating, Add	1,066.25		
	For Class 55 Rating, Add	1,594.84		
	For Class 56 Rating, Add	2,116.44		
40 05 19 00-2396	EA 20" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,098.62		1,041.07
	For Class 52 Rating, Deduct	-827.34		
	For Class 54 Rating, Add	1,147.11		
	For Class 55 Rating, Add	1,715.09		
	For Class 56 Rating, Add	2,275.55		
40 05 19 00-2397	EA 20" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,643.52		1,045.24
	For Class 52 Rating, Deduct	-886.58		
	For Class 54 Rating, Add	1,227.98		
	For Class 55 Rating, Add	1,835.35		
	For Class 56 Rating, Add	2,434.66		
40 05 19 00-2398	EA 20" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,188.42		1,049.40
	For Class 52 Rating, Deduct	-945.83		
	For Class 54 Rating, Add	1,308.84		
	For Class 55 Rating, Add	1,955.61		
	For Class 56 Rating, Add	2,593.77		
40 05 19 00-2399	EA 20" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,733.30		1,053.57
	For Class 52 Rating, Deduct	-1,005.07		
	For Class 54 Rating, Add	1,389.70		
	For Class 55 Rating, Add	2,075.86		
	For Class 56 Rating, Add	2,752.88		
40 05 19 00-2400	EA 20" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,278.19		1,057.73
	For Class 52 Rating, Deduct	-1,064.31		
	For Class 54 Rating, Add	1,470.57		
	For Class 55 Rating, Add	2,196.11		
	For Class 56 Rating, Add	2,911.99		
40 05 19 00-2401	EA 20" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,823.08		1,061.89
	For Class 52 Rating, Deduct	-1,123.56		
	For Class 54 Rating, Add	1,551.43		
	For Class 55 Rating, Add	2,316.37		
	For Class 56 Rating, Add	3,071.10		
40 05 19 00-2402	EA 20" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,367.97		1,066.06
	For Class 52 Rating, Deduct	-1,182.80		
	For Class 54 Rating, Add	1,632.29		
	For Class 55 Rating, Add	2,436.62		
	For Class 56 Rating, Add	3,230.20		
40 05 19 00-2403	EA 20" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,912.87		1,070.22
	For Class 52 Rating, Deduct	-1,242.05		
	For Class 54 Rating, Add	1,713.16		
	For Class 55 Rating, Add	2,556.88		
	For Class 56 Rating, Add	3,389.32		
40 05 19 00-2404	EA 20" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,457.76		1,074.39
	For Class 52 Rating, Deduct	-1,301.29		
	For Class 54 Rating, Add	1,794.02		
	For Class 55 Rating, Add	2,677.14		
	For Class 56 Rating, Add	3,548.42		
40 05 19 00-2405	EA 20" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,002.65		1,078.55
	For Class 52 Rating, Deduct	-1,360.53		
	For Class 54 Rating, Add	1,874.88		
	For Class 55 Rating, Add	2,797.39		
	For Class 56 Rating, Add	3,707.53		
40 05 19 00-2406	EA 20" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,547.54		1,082.71
	For Class 52 Rating, Deduct	-1,419.78		
	For Class 54 Rating, Add	1,955.74		
	For Class 55 Rating, Add	2,917.65		
	For Class 56 Rating, Add	3,866.64		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2407	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,092.43	1,086.88
		For Class 52 Rating, Deduct		-1,479.02	
		For Class 54 Rating, Add		2,036.61	
		For Class 55 Rating, Add		3,037.90	
		For Class 56 Rating, Add		4,025.75	
40 05 19 00-2408	EA	20" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,637.32	1,091.05
		For Class 52 Rating, Deduct		-1,538.26	
		For Class 54 Rating, Add		2,117.47	
		For Class 55 Rating, Add		3,158.16	
		For Class 56 Rating, Add		4,184.86	
40 05 19 00-2409	EA	20" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,182.21	1,095.21
		For Class 52 Rating, Deduct		-1,597.51	
		For Class 54 Rating, Add		2,198.33	
		For Class 55 Rating, Add		3,278.41	
		For Class 56 Rating, Add		4,343.97	
40 05 19 00-2410	EA	20" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,727.11	1,099.37
		For Class 52 Rating, Deduct		-1,656.75	
		For Class 54 Rating, Add		2,279.20	
		For Class 55 Rating, Add		3,398.67	
		For Class 56 Rating, Add		4,503.08	
40 05 19 00-2411	EA	20" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,272.00	1,103.54
		For Class 52 Rating, Deduct		-1,716.00	
		For Class 54 Rating, Add		2,360.06	
		For Class 55 Rating, Add		3,518.92	
		For Class 56 Rating, Add		4,662.18	
40 05 19 00-2412	EA	20" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,816.89	1,107.70
		For Class 52 Rating, Deduct		-1,775.24	
		For Class 54 Rating, Add		2,440.92	
		For Class 55 Rating, Add		3,639.18	
		For Class 56 Rating, Add		4,821.29	
40 05 19 00-2413	EA	20" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		18,361.78	1,111.87
		For Class 52 Rating, Deduct		-1,834.48	
		For Class 54 Rating, Add		2,521.79	
		For Class 55 Rating, Add		3,759.43	
		For Class 56 Rating, Add		4,980.40	
40 05 19 00-2414	EA	20" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		18,906.66	1,116.03
		For Class 52 Rating, Deduct		-1,893.73	
		For Class 54 Rating, Add		2,602.65	
		For Class 55 Rating, Add		3,879.69	
		For Class 56 Rating, Add		5,139.51	
40 05 19 00-2415	EA	20" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		19,451.56	1,120.19
		For Class 52 Rating, Deduct		-1,952.97	
		For Class 54 Rating, Add		2,683.51	
		For Class 55 Rating, Add		3,999.94	
		For Class 56 Rating, Add		5,298.62	
40 05 19 00-2416	EA	20" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		19,996.45	1,124.36
		For Class 52 Rating, Deduct		-2,012.22	
		For Class 54 Rating, Add		2,764.37	
		For Class 55 Rating, Add		4,120.20	
		For Class 56 Rating, Add		5,457.73	
40 05 19 00-2417	EA	20" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,541.35	1,128.52
		For Class 52 Rating, Deduct		-2,071.46	
		For Class 54 Rating, Add		2,845.24	
		For Class 55 Rating, Add		4,240.45	
		For Class 56 Rating, Add		5,616.84	
40 05 19 00-2418	EA	20" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,086.23	1,132.69
		For Class 52 Rating, Deduct		-2,130.70	
		For Class 54 Rating, Add		2,926.10	
		For Class 55 Rating, Add		4,360.71	
		For Class 56 Rating, Add		5,775.94	
40 05 19 00-2419	EA	20" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,631.12	1,136.85
		For Class 52 Rating, Deduct		-2,189.95	
		For Class 54 Rating, Add		3,006.96	
		For Class 55 Rating, Add		4,480.96	
		For Class 56 Rating, Add		5,935.05	
40 05 19 00-2420	EA	20" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,176.01	1,141.01
		For Class 52 Rating, Deduct		-2,249.19	
		For Class 54 Rating, Add		3,087.83	
		For Class 55 Rating, Add		4,601.22	
		For Class 56 Rating, Add		6,094.16	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2421	EA	20" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,720.90		1,145.18
		For Class 52 Rating, Deduct	-2,308.44		
		For Class 54 Rating, Add	3,168.69		
		For Class 55 Rating, Add	4,721.47		
		For Class 56 Rating, Add	6,253.27		
40 05 19 00-2422	EA	20" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,265.80		1,149.35
		For Class 52 Rating, Deduct	-2,367.68		
		For Class 54 Rating, Add	3,249.55		
		For Class 55 Rating, Add	4,841.73		
		For Class 56 Rating, Add	6,412.38		
40 05 19 00-2423	EA	20" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,810.69		1,153.51
		For Class 52 Rating, Deduct	-2,426.92		
		For Class 54 Rating, Add	3,330.42		
		For Class 55 Rating, Add	4,961.98		
		For Class 56 Rating, Add	6,571.49		
40 05 19 00-2424	EA	20" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,355.58		1,157.67
		For Class 52 Rating, Deduct	-2,486.17		
		For Class 54 Rating, Add	3,411.28		
		For Class 55 Rating, Add	5,082.24		
		For Class 56 Rating, Add	6,730.60		
40 05 19 00-2425	EA	20" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,900.47		1,161.84
		For Class 52 Rating, Deduct	-2,545.41		
		For Class 54 Rating, Add	3,492.14		
		For Class 55 Rating, Add	5,202.49		
		For Class 56 Rating, Add	6,889.71		
40 05 19 00-2426	EA	20" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,445.36		1,166.00
		For Class 52 Rating, Deduct	-2,604.66		
		For Class 54 Rating, Add	3,573.00		
		For Class 55 Rating, Add	5,322.75		
		For Class 56 Rating, Add	7,048.81		
40 05 19 00-2427	EA	20" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,990.25		1,170.17
		For Class 52 Rating, Deduct	-2,663.90		
		For Class 54 Rating, Add	3,653.87		
		For Class 55 Rating, Add	5,443.00		
		For Class 56 Rating, Add	7,207.92		
40 05 19 00-2428	EA	20" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,535.14		1,174.33
		For Class 52 Rating, Deduct	-2,723.14		
		For Class 54 Rating, Add	3,734.73		
		For Class 55 Rating, Add	5,563.26		
		For Class 56 Rating, Add	7,367.03		
40 05 19 00-2429	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,080.04		1,178.49
		For Class 52 Rating, Deduct	-2,782.39		
		For Class 54 Rating, Add	3,815.59		
		For Class 55 Rating, Add	5,683.51		
		For Class 56 Rating, Add	7,526.14		
40 05 19 00-2430	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,624.93		1,182.66
		For Class 52 Rating, Deduct	-2,841.63		
		For Class 54 Rating, Add	3,896.46		
		For Class 55 Rating, Add	5,803.77		
		For Class 56 Rating, Add	7,685.25		
40 05 19 00-2431		24" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)			
40 05 19 00-2432	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,212.44		1,215.97
		For Class 52 Rating, Deduct	-810.71		
		For Class 54 Rating, Add	1,127.62		
		For Class 55 Rating, Add	1,687.74		
		For Class 56 Rating, Add	2,240.49		
40 05 19 00-2433	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,886.47		1,220.14
		For Class 52 Rating, Deduct	-884.16		
		For Class 54 Rating, Add	1,227.85		
		For Class 55 Rating, Add	1,836.79		
		For Class 56 Rating, Add	2,437.70		
40 05 19 00-2434	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,560.49		1,224.30
		For Class 52 Rating, Deduct	-957.60		
		For Class 54 Rating, Add	1,328.08		
		For Class 55 Rating, Add	1,985.84		
		For Class 56 Rating, Add	2,634.90		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2435	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,234.52	1,228.47
		For Class 52 Rating, Deduct	-1,031.05	
		For Class 54 Rating, Add	1,428.32	
		For Class 55 Rating, Add	2,134.90	
		For Class 56 Rating, Add	2,832.10	
40 05 19 00-2436	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,908.55	1,232.63
		For Class 52 Rating, Deduct	-1,104.50	
		For Class 54 Rating, Add	1,528.55	
		For Class 55 Rating, Add	2,283.95	
		For Class 56 Rating, Add	3,029.31	
40 05 19 00-2437	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,582.57	1,236.79
		For Class 52 Rating, Deduct	-1,177.95	
		For Class 54 Rating, Add	1,628.78	
		For Class 55 Rating, Add	2,433.00	
		For Class 56 Rating, Add	3,226.51	
40 05 19 00-2438	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,256.60	1,240.96
		For Class 52 Rating, Deduct	-1,251.40	
		For Class 54 Rating, Add	1,729.02	
		For Class 55 Rating, Add	2,582.05	
		For Class 56 Rating, Add	3,423.71	
40 05 19 00-2439	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,930.62	1,245.13
		For Class 52 Rating, Deduct	-1,324.65	
		For Class 54 Rating, Add	1,829.25	
		For Class 55 Rating, Add	2,731.10	
		For Class 56 Rating, Add	3,620.92	
40 05 19 00-2440	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,604.65	1,249.29
		For Class 52 Rating, Deduct	-1,398.30	
		For Class 54 Rating, Add	1,929.48	
		For Class 55 Rating, Add	2,880.16	
		For Class 56 Rating, Add	3,818.12	
40 05 19 00-2441	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,278.67	1,253.45
		For Class 52 Rating, Deduct	-1,471.75	
		For Class 54 Rating, Add	2,029.72	
		For Class 55 Rating, Add	3,029.21	
		For Class 56 Rating, Add	4,015.32	
40 05 19 00-2442	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,952.70	1,257.61
		For Class 52 Rating, Deduct	-1,545.19	
		For Class 54 Rating, Add	2,129.95	
		For Class 55 Rating, Add	3,178.26	
		For Class 56 Rating, Add	4,212.53	
40 05 19 00-2443	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,626.72	1,261.78
		For Class 52 Rating, Deduct	-1,618.64	
		For Class 54 Rating, Add	2,230.18	
		For Class 55 Rating, Add	3,327.31	
		For Class 56 Rating, Add	4,409.73	
40 05 19 00-2444	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,300.75	1,265.95
		For Class 52 Rating, Deduct	-1,692.09	
		For Class 54 Rating, Add	2,330.41	
		For Class 55 Rating, Add	3,476.37	
		For Class 56 Rating, Add	4,606.93	
40 05 19 00-2445	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,974.77	1,270.11
		For Class 52 Rating, Deduct	-1,765.54	
		For Class 54 Rating, Add	2,430.65	
		For Class 55 Rating, Add	3,625.42	
		For Class 56 Rating, Add	4,804.13	
40 05 19 00-2446	EA	24" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,648.80	1,274.27
		For Class 52 Rating, Deduct	-1,838.99	
		For Class 54 Rating, Add	2,530.88	
		For Class 55 Rating, Add	3,774.47	
		For Class 56 Rating, Add	5,001.34	
40 05 19 00-2447	EA	24" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,322.81	1,278.44
		For Class 52 Rating, Deduct	-1,912.44	
		For Class 54 Rating, Add	2,631.11	
		For Class 55 Rating, Add	3,923.52	
		For Class 56 Rating, Add	5,198.54	
40 05 19 00-2448	EA	24" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,996.84	1,282.60
		For Class 52 Rating, Deduct	-1,985.89	
		For Class 54 Rating, Add	2,731.35	
		For Class 55 Rating, Add	4,072.57	
		For Class 56 Rating, Add	5,395.75	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2449	EA	24" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,670.87	1,286.77
		For Class 52 Rating, Deduct		-2,059.33	
		For Class 54 Rating, Add		2,831.58	
		For Class 55 Rating, Add		4,221.62	
		For Class 56 Rating, Add		5,592.95	
40 05 19 00-2450	EA	24" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,344.90	1,290.93
		For Class 52 Rating, Deduct		-2,132.78	
		For Class 54 Rating, Add		2,931.81	
		For Class 55 Rating, Add		4,370.68	
		For Class 56 Rating, Add		5,790.15	
40 05 19 00-2451	EA	24" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,018.92	1,295.09
		For Class 52 Rating, Deduct		-2,206.23	
		For Class 54 Rating, Add		3,032.04	
		For Class 55 Rating, Add		4,519.73	
		For Class 56 Rating, Add		5,987.35	
40 05 19 00-2452	EA	24" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,692.94	1,299.26
		For Class 52 Rating, Deduct		-2,279.68	
		For Class 54 Rating, Add		3,132.28	
		For Class 55 Rating, Add		4,668.78	
		For Class 56 Rating, Add		6,184.56	
40 05 19 00-2453	EA	24" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		23,366.96	1,303.43
		For Class 52 Rating, Deduct		-2,353.13	
		For Class 54 Rating, Add		3,232.51	
		For Class 55 Rating, Add		4,817.83	
		For Class 56 Rating, Add		6,381.76	
40 05 19 00-2454	EA	24" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		24,040.99	1,307.59
		For Class 52 Rating, Deduct		-2,426.58	
		For Class 54 Rating, Add		3,332.74	
		For Class 55 Rating, Add		4,966.88	
		For Class 56 Rating, Add		6,578.96	
40 05 19 00-2455	EA	24" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		24,715.02	1,311.75
		For Class 52 Rating, Deduct		-2,500.03	
		For Class 54 Rating, Add		3,432.98	
		For Class 55 Rating, Add		5,115.93	
		For Class 56 Rating, Add		6,776.17	
40 05 19 00-2456	EA	24" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		25,389.05	1,315.91
		For Class 52 Rating, Deduct		-2,573.48	
		For Class 54 Rating, Add		3,533.21	
		For Class 55 Rating, Add		5,264.99	
		For Class 56 Rating, Add		6,973.37	
40 05 19 00-2457	EA	24" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		26,063.06	1,320.08
		For Class 52 Rating, Deduct		-2,646.92	
		For Class 54 Rating, Add		3,633.44	
		For Class 55 Rating, Add		5,414.04	
		For Class 56 Rating, Add		7,170.57	
40 05 19 00-2458	EA	24" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		26,737.09	1,324.25
		For Class 52 Rating, Deduct		-2,720.37	
		For Class 54 Rating, Add		3,733.68	
		For Class 55 Rating, Add		5,563.09	
		For Class 56 Rating, Add		7,367.78	
40 05 19 00-2459	EA	24" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		27,411.11	1,328.41
		For Class 52 Rating, Deduct		-2,793.82	
		For Class 54 Rating, Add		3,833.91	
		For Class 55 Rating, Add		5,712.14	
		For Class 56 Rating, Add		7,564.98	
40 05 19 00-2460	EA	24" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		28,085.14	1,332.57
		For Class 52 Rating, Deduct		-2,867.27	
		For Class 54 Rating, Add		3,934.14	
		For Class 55 Rating, Add		5,861.20	
		For Class 56 Rating, Add		7,762.18	
40 05 19 00-2461	EA	24" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		28,866.42	1,407.53
		For Class 52 Rating, Deduct		-2,940.72	
		For Class 54 Rating, Add		4,035.66	
		For Class 55 Rating, Add		6,012.82	
		For Class 56 Rating, Add		7,963.25	
40 05 19 00-2462	EA	24" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		29,540.45	1,411.69
		For Class 52 Rating, Deduct		-3,014.17	
		For Class 54 Rating, Add		4,135.90	
		For Class 55 Rating, Add		6,161.87	
		For Class 56 Rating, Add		8,160.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2463	EA	24"	Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,214.49	1,415.86
			For Class 52 Rating, Deduct	-3,087.62	
			For Class 54 Rating, Add	4,236.13	
			For Class 55 Rating, Add	6,310.93	
			For Class 56 Rating, Add	8,357.65	
40 05 19 00-2464	EA	24"	Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,888.50	1,420.03
			For Class 52 Rating, Deduct	-3,161.06	
			For Class 54 Rating, Add	4,336.36	
			For Class 55 Rating, Add	6,459.98	
			For Class 56 Rating, Add	8,554.86	
40 05 19 00-2465	EA	24"	Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,562.53	1,424.19
			For Class 52 Rating, Deduct	-3,234.51	
			For Class 54 Rating, Add	4,436.59	
			For Class 55 Rating, Add	6,609.03	
			For Class 56 Rating, Add	8,752.06	
40 05 19 00-2466	EA	24"	Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,236.55	1,428.35
			For Class 52 Rating, Deduct	-3,307.96	
			For Class 54 Rating, Add	4,536.83	
			For Class 55 Rating, Add	6,758.08	
			For Class 56 Rating, Add	8,949.26	
40 05 19 00-2467	EA	24"	Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,910.58	1,432.51
			For Class 52 Rating, Deduct	-3,381.41	
			For Class 54 Rating, Add	4,637.06	
			For Class 55 Rating, Add	6,907.13	
			For Class 56 Rating, Add	9,146.47	
40 05 19 00-2468	EA	24"	Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,584.60	1,436.68
			For Class 52 Rating, Deduct	-3,454.66	
			For Class 54 Rating, Add	4,737.29	
			For Class 55 Rating, Add	7,056.18	
			For Class 56 Rating, Add	9,343.67	
40 05 19 00-2469	EA	24"	Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,258.62	1,440.85
			For Class 52 Rating, Deduct	-3,528.31	
			For Class 54 Rating, Add	4,837.53	
			For Class 55 Rating, Add	7,205.24	
			For Class 56 Rating, Add	9,540.87	
40 05 19 00-2470			30" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2471	EA	30"	Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,265.65	1,715.69
			For Class 52 Rating, Deduct	-1,283.27	
			For Class 54 Rating, Add	1,781.11	
			For Class 55 Rating, Add	2,663.93	
			For Class 56 Rating, Add	3,535.09	
40 05 19 00-2472	EA	30"	Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,229.44	1,719.85
			For Class 52 Rating, Deduct	-1,388.60	
			For Class 54 Rating, Add	1,924.81	
			For Class 55 Rating, Add	2,877.60	
			For Class 56 Rating, Add	3,817.77	
40 05 19 00-2473	EA	30"	Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,193.23	1,724.02
			For Class 52 Rating, Deduct	-1,493.92	
			For Class 54 Rating, Add	2,068.51	
			For Class 55 Rating, Add	3,091.27	
			For Class 56 Rating, Add	4,100.46	
40 05 19 00-2474	EA	30"	Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,157.00	1,728.18
			For Class 52 Rating, Deduct	-1,599.24	
			For Class 54 Rating, Add	2,212.20	
			For Class 55 Rating, Add	3,304.94	
			For Class 56 Rating, Add	4,383.14	
40 05 19 00-2475	EA	30"	Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,120.79	1,732.35
			For Class 52 Rating, Deduct	-1,704.56	
			For Class 54 Rating, Add	2,355.90	
			For Class 55 Rating, Add	3,518.61	
			For Class 56 Rating, Add	4,665.82	
40 05 19 00-2476	EA	30"	Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,084.59	1,736.50
			For Class 52 Rating, Deduct	-1,809.89	
			For Class 54 Rating, Add	2,499.60	
			For Class 55 Rating, Add	3,732.28	
			For Class 56 Rating, Add	4,948.50	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2477	EA	30" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,048.38	1,740.67
		For Class 52 Rating, Deduct		-1,915.21	
		For Class 54 Rating, Add		2,643.30	
		For Class 55 Rating, Add		3,945.95	
		For Class 56 Rating, Add		5,231.19	
40 05 19 00-2478	EA	30" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,012.16	1,744.84
		For Class 52 Rating, Deduct		-2,020.53	
		For Class 54 Rating, Add		2,786.99	
		For Class 55 Rating, Add		4,159.62	
		For Class 56 Rating, Add		5,513.87	
40 05 19 00-2479	EA	30" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,975.95	1,749.00
		For Class 52 Rating, Deduct		-2,125.85	
		For Class 54 Rating, Add		2,930.69	
		For Class 55 Rating, Add		4,373.29	
		For Class 56 Rating, Add		5,796.56	
40 05 19 00-2480	EA	30" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,939.73	1,753.17
		For Class 52 Rating, Deduct		-2,231.18	
		For Class 54 Rating, Add		3,074.39	
		For Class 55 Rating, Add		4,586.95	
		For Class 56 Rating, Add		6,079.24	
40 05 19 00-2481	EA	30" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		23,903.52	1,757.33
		For Class 52 Rating, Deduct		-2,336.50	
		For Class 54 Rating, Add		3,218.09	
		For Class 55 Rating, Add		4,800.62	
		For Class 56 Rating, Add		6,361.92	
40 05 19 00-2482	EA	30" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		24,867.32	1,761.49
		For Class 52 Rating, Deduct		-2,441.82	
		For Class 54 Rating, Add		3,361.78	
		For Class 55 Rating, Add		5,014.29	
		For Class 56 Rating, Add		6,644.60	
40 05 19 00-2483	EA	30" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		25,831.10	1,765.66
		For Class 52 Rating, Deduct		-2,547.14	
		For Class 54 Rating, Add		3,505.48	
		For Class 55 Rating, Add		5,227.96	
		For Class 56 Rating, Add		6,927.29	
40 05 19 00-2484	EA	30" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		26,794.89	1,769.83
		For Class 52 Rating, Deduct		-2,652.47	
		For Class 54 Rating, Add		3,649.18	
		For Class 55 Rating, Add		5,441.63	
		For Class 56 Rating, Add		7,209.97	
40 05 19 00-2485	EA	30" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		27,758.68	1,773.99
		For Class 52 Rating, Deduct		-2,757.79	
		For Class 54 Rating, Add		3,792.88	
		For Class 55 Rating, Add		5,655.30	
		For Class 56 Rating, Add		7,492.65	
40 05 19 00-2486	EA	30" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		28,722.46	1,778.15
		For Class 52 Rating, Deduct		-2,863.11	
		For Class 54 Rating, Add		3,936.57	
		For Class 55 Rating, Add		5,868.97	
		For Class 56 Rating, Add		7,775.34	
40 05 19 00-2487	EA	30" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		29,686.25	1,782.32
		For Class 52 Rating, Deduct		-2,968.43	
		For Class 54 Rating, Add		4,080.27	
		For Class 55 Rating, Add		6,082.64	
		For Class 56 Rating, Add		8,058.02	
40 05 19 00-2488	EA	30" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		30,650.03	1,786.48
		For Class 52 Rating, Deduct		-3,073.76	
		For Class 54 Rating, Add		4,223.97	
		For Class 55 Rating, Add		6,296.31	
		For Class 56 Rating, Add		8,340.70	
40 05 19 00-2489	EA	30" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		31,613.83	1,790.65
		For Class 52 Rating, Deduct		-3,179.08	
		For Class 54 Rating, Add		4,367.67	
		For Class 55 Rating, Add		6,509.98	
		For Class 56 Rating, Add		8,623.39	
40 05 19 00-2490	EA	30" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		32,577.62	1,794.80
		For Class 52 Rating, Deduct		-3,284.40	
		For Class 54 Rating, Add		4,511.36	
		For Class 55 Rating, Add		6,723.65	
		For Class 56 Rating, Add		8,906.07	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2491	EA	30" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,541.41	1,798.97
		For Class 52 Rating, Deduct	-3,389.73	
		For Class 54 Rating, Add	4,655.06	
		For Class 55 Rating, Add	6,937.32	
		For Class 56 Rating, Add	9,188.75	
40 05 19 00-2492	EA	30" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,505.19	1,803.14
		For Class 52 Rating, Deduct	-3,495.05	
		For Class 54 Rating, Add	4,798.76	
		For Class 55 Rating, Add	7,150.98	
		For Class 56 Rating, Add	9,471.44	
40 05 19 00-2493	EA	30" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,468.97	1,807.30
		For Class 52 Rating, Deduct	-3,600.37	
		For Class 54 Rating, Add	4,942.46	
		For Class 55 Rating, Add	7,364.65	
		For Class 56 Rating, Add	9,754.12	
40 05 19 00-2494	EA	30" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,432.76	1,811.47
		For Class 52 Rating, Deduct	-3,705.69	
		For Class 54 Rating, Add	5,086.15	
		For Class 55 Rating, Add	7,578.32	
		For Class 56 Rating, Add	10,036.80	
40 05 19 00-2495	EA	30" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,396.56	1,815.63
		For Class 52 Rating, Deduct	-3,811.02	
		For Class 54 Rating, Add	5,229.85	
		For Class 55 Rating, Add	7,791.99	
		For Class 56 Rating, Add	10,319.49	
40 05 19 00-2496	EA	30" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,360.35	1,819.79
		For Class 52 Rating, Deduct	-3,916.34	
		For Class 54 Rating, Add	5,373.55	
		For Class 55 Rating, Add	8,005.66	
		For Class 56 Rating, Add	10,602.17	
40 05 19 00-2497	EA	30" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,324.14	1,823.96
		For Class 52 Rating, Deduct	-4,021.66	
		For Class 54 Rating, Add	5,517.25	
		For Class 55 Rating, Add	8,219.33	
		For Class 56 Rating, Add	10,884.85	
40 05 19 00-2498	EA	30" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,287.92	1,828.13
		For Class 52 Rating, Deduct	-4,126.98	
		For Class 54 Rating, Add	5,660.94	
		For Class 55 Rating, Add	8,433.00	
		For Class 56 Rating, Add	11,167.54	
40 05 19 00-2499	EA	30" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,251.70	1,832.29
		For Class 52 Rating, Deduct	-4,232.31	
		For Class 54 Rating, Add	5,804.64	
		For Class 55 Rating, Add	8,646.67	
		For Class 56 Rating, Add	11,450.22	
40 05 19 00-2500	EA	30" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,215.49	1,836.45
		For Class 52 Rating, Deduct	-4,337.63	
		For Class 54 Rating, Add	5,948.34	
		For Class 55 Rating, Add	8,860.34	
		For Class 56 Rating, Add	11,732.90	
40 05 19 00-2501	EA	30" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,179.29	1,840.62
		For Class 52 Rating, Deduct	-4,442.95	
		For Class 54 Rating, Add	6,092.04	
		For Class 55 Rating, Add	9,074.01	
		For Class 56 Rating, Add	12,015.59	
40 05 19 00-2502	EA	30" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,143.08	1,844.78
		For Class 52 Rating, Deduct	-4,548.27	
		For Class 54 Rating, Add	6,235.73	
		For Class 55 Rating, Add	9,287.68	
		For Class 56 Rating, Add	12,298.27	
40 05 19 00-2503	EA	30" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,106.86	1,848.95
		For Class 52 Rating, Deduct	-4,653.60	
		For Class 54 Rating, Add	6,379.43	
		For Class 55 Rating, Add	9,501.35	
		For Class 56 Rating, Add	12,580.95	
40 05 19 00-2504	EA	30" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	46,070.65	1,853.11
		For Class 52 Rating, Deduct	-4,758.92	
		For Class 54 Rating, Add	6,523.13	
		For Class 55 Rating, Add	9,715.01	
		For Class 56 Rating, Add	12,863.64	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 19 00-2505	EA 36" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,034.43		1,857.27	
	For Class 52 Rating, Deduct	-4,864.24			
	For Class 54 Rating, Add	6,666.83			
	For Class 55 Rating, Add	9,928.68			
	For Class 56 Rating, Add	13,146.32			
40 05 19 00-2506 36" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)					
40 05 19 00-2507	EA 36" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,926.61		2,173.76	
	For Class 52 Rating, Deduct	-1,829.63			
	For Class 54 Rating, Add	2,534.48			
	For Class 55 Rating, Add	3,788.21			
	For Class 56 Rating, Add	5,025.32			
40 05 19 00-2508	EA 36" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,217.95		2,177.93	
	For Class 52 Rating, Deduct	-1,970.99			
	For Class 54 Rating, Add	2,727.31			
	For Class 55 Rating, Add	4,074.93			
	For Class 56 Rating, Add	5,404.63			
40 05 19 00-2509	EA 36" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,509.30		2,182.09	
	For Class 52 Rating, Deduct	-2,112.34			
	For Class 54 Rating, Add	2,920.14			
	For Class 55 Rating, Add	4,361.64			
	For Class 56 Rating, Add	5,783.94			
40 05 19 00-2510	EA 36" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,800.66		2,186.25	
	For Class 52 Rating, Deduct	-2,253.70			
	For Class 54 Rating, Add	3,112.97			
	For Class 55 Rating, Add	4,648.36			
	For Class 56 Rating, Add	6,163.25			
40 05 19 00-2511	EA 36" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,092.00		2,190.42	
	For Class 52 Rating, Deduct	-2,395.05			
	For Class 54 Rating, Add	3,305.80			
	For Class 55 Rating, Add	4,935.07			
	For Class 56 Rating, Add	6,542.57			
40 05 19 00-2512	EA 36" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,383.34		2,194.58	
	For Class 52 Rating, Deduct	-2,536.40			
	For Class 54 Rating, Add	3,498.63			
	For Class 55 Rating, Add	5,221.79			
	For Class 56 Rating, Add	6,921.88			
40 05 19 00-2513	EA 36" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,674.69		2,198.75	
	For Class 52 Rating, Deduct	-2,677.76			
	For Class 54 Rating, Add	3,691.47			
	For Class 55 Rating, Add	5,508.50			
	For Class 56 Rating, Add	7,301.19			
40 05 19 00-2514	EA 36" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,966.04		2,202.91	
	For Class 52 Rating, Deduct	-2,819.11			
	For Class 54 Rating, Add	3,884.30			
	For Class 55 Rating, Add	5,795.22			
	For Class 56 Rating, Add	7,680.51			
40 05 19 00-2515	EA 36" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,257.38		2,207.07	
	For Class 52 Rating, Deduct	-2,960.47			
	For Class 54 Rating, Add	4,077.13			
	For Class 55 Rating, Add	6,081.93			
	For Class 56 Rating, Add	8,059.82			
40 05 19 00-2516	EA 36" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,548.74		2,211.24	
	For Class 52 Rating, Deduct	-3,101.82			
	For Class 54 Rating, Add	4,269.96			
	For Class 55 Rating, Add	6,368.65			
	For Class 56 Rating, Add	8,439.13			
40 05 19 00-2517	EA 36" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,840.08		2,215.41	
	For Class 52 Rating, Deduct	-3,243.18			
	For Class 54 Rating, Add	4,462.79			
	For Class 55 Rating, Add	6,655.36			
	For Class 56 Rating, Add	8,818.45			
40 05 19 00-2518	EA 36" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,131.42		2,219.57	
	For Class 52 Rating, Deduct	-3,384.53			
	For Class 54 Rating, Add	4,655.62			
	For Class 55 Rating, Add	6,942.07			
	For Class 56 Rating, Add	9,197.76			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2519	EA	36" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		35,422.77	2,223.73
		For Class 52 Rating, Deduct		-3,525.88	
		For Class 54 Rating, Add		4,848.45	
		For Class 55 Rating, Add		7,228.79	
		For Class 56 Rating, Add		9,577.07	
40 05 19 00-2520	EA	36" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		36,714.12	2,227.89
		For Class 52 Rating, Deduct		-3,667.24	
		For Class 54 Rating, Add		5,041.29	
		For Class 55 Rating, Add		7,515.50	
		For Class 56 Rating, Add		9,956.39	
40 05 19 00-2521	EA	36" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		38,005.46	2,232.06
		For Class 52 Rating, Deduct		-3,808.59	
		For Class 54 Rating, Add		5,234.12	
		For Class 55 Rating, Add		7,802.22	
		For Class 56 Rating, Add		10,335.70	
40 05 19 00-2522	EA	36" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		39,296.81	2,236.23
		For Class 52 Rating, Deduct		-3,949.94	
		For Class 54 Rating, Add		5,426.95	
		For Class 55 Rating, Add		8,088.93	
		For Class 56 Rating, Add		10,715.01	
40 05 19 00-2523	EA	36" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		40,588.16	2,240.38
		For Class 52 Rating, Deduct		-4,091.30	
		For Class 54 Rating, Add		5,619.78	
		For Class 55 Rating, Add		8,375.65	
		For Class 56 Rating, Add		11,094.32	
40 05 19 00-2524	EA	36" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		41,879.50	2,244.55
		For Class 52 Rating, Deduct		-4,232.65	
		For Class 54 Rating, Add		5,812.61	
		For Class 55 Rating, Add		8,662.36	
		For Class 56 Rating, Add		11,473.63	
40 05 19 00-2525	EA	36" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		43,170.85	2,248.72
		For Class 52 Rating, Deduct		-4,374.01	
		For Class 54 Rating, Add		6,005.44	
		For Class 55 Rating, Add		8,949.08	
		For Class 56 Rating, Add		11,852.95	
40 05 19 00-2526	EA	36" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		44,462.20	2,252.88
		For Class 52 Rating, Deduct		-4,515.36	
		For Class 54 Rating, Add		6,198.27	
		For Class 55 Rating, Add		9,235.79	
		For Class 56 Rating, Add		12,232.26	
40 05 19 00-2527	EA	36" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		45,753.53	2,257.05
		For Class 52 Rating, Deduct		-4,656.71	
		For Class 54 Rating, Add		6,391.10	
		For Class 55 Rating, Add		9,522.50	
		For Class 56 Rating, Add		12,611.57	
40 05 19 00-2528	EA	36" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		47,044.88	2,261.21
		For Class 52 Rating, Deduct		-4,798.07	
		For Class 54 Rating, Add		6,583.93	
		For Class 55 Rating, Add		9,809.22	
		For Class 56 Rating, Add		12,990.89	
40 05 19 00-2529	EA	36" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		48,336.24	2,265.37
		For Class 52 Rating, Deduct		-4,939.42	
		For Class 54 Rating, Add		6,776.77	
		For Class 55 Rating, Add		10,095.94	
		For Class 56 Rating, Add		13,370.20	
40 05 19 00-2530	EA	36" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		49,627.58	2,269.54
		For Class 52 Rating, Deduct		-5,080.78	
		For Class 54 Rating, Add		6,969.60	
		For Class 55 Rating, Add		10,382.65	
		For Class 56 Rating, Add		13,749.51	
40 05 19 00-2531	EA	36" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		50,918.93	2,273.71
		For Class 52 Rating, Deduct		-5,222.13	
		For Class 54 Rating, Add		7,162.43	
		For Class 55 Rating, Add		10,669.36	
		For Class 56 Rating, Add		14,128.83	
40 05 19 00-2532	EA	36" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		52,210.27	2,277.87
		For Class 52 Rating, Deduct		-5,363.49	
		For Class 54 Rating, Add		7,355.26	
		For Class 55 Rating, Add		10,956.08	
		For Class 56 Rating, Add		14,508.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2533	EA	36" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	53,501.61		2,282.03
		For Class 52 Rating, Deduct	-5,504.84		
		For Class 54 Rating, Add	7,548.09		
		For Class 55 Rating, Add	11,242.79		
		For Class 56 Rating, Add	14,887.45		
40 05 19 00-2534	EA	36" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	54,792.96		2,286.19
		For Class 52 Rating, Deduct	-5,646.19		
		For Class 54 Rating, Add	7,740.92		
		For Class 55 Rating, Add	11,529.51		
		For Class 56 Rating, Add	15,266.77		
40 05 19 00-2535	EA	36" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	56,084.32		2,290.36
		For Class 52 Rating, Deduct	-5,787.55		
		For Class 54 Rating, Add	7,933.75		
		For Class 55 Rating, Add	11,816.22		
		For Class 56 Rating, Add	15,646.08		
40 05 19 00-2536	EA	36" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	57,375.66		2,294.53
		For Class 52 Rating, Deduct	-5,928.90		
		For Class 54 Rating, Add	8,126.58		
		For Class 55 Rating, Add	12,102.94		
		For Class 56 Rating, Add	16,025.39		
40 05 19 00-2537	EA	36" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	58,667.00		2,298.68
		For Class 52 Rating, Deduct	-6,070.26		
		For Class 54 Rating, Add	8,319.42		
		For Class 55 Rating, Add	12,389.65		
		For Class 56 Rating, Add	16,404.70		
40 05 19 00-2538	EA	36" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	59,958.35		2,302.85
		For Class 52 Rating, Deduct	-6,211.61		
		For Class 54 Rating, Add	8,512.25		
		For Class 55 Rating, Add	12,676.37		
		For Class 56 Rating, Add	16,784.02		
40 05 19 00-2539	EA	36" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	61,249.70		2,307.02
		For Class 52 Rating, Deduct	-6,352.96		
		For Class 54 Rating, Add	8,705.08		
		For Class 55 Rating, Add	12,963.08		
		For Class 56 Rating, Add	17,163.33		
40 05 19 00-2540	EA	36" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	62,541.04		2,311.18
		For Class 52 Rating, Deduct	-6,494.32		
		For Class 54 Rating, Add	8,897.91		
		For Class 55 Rating, Add	13,249.80		
		For Class 56 Rating, Add	17,542.64		
40 05 19 00-2541	EA	36" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	63,832.39		2,315.35
		For Class 52 Rating, Deduct	-6,635.67		
		For Class 54 Rating, Add	9,090.74		
		For Class 55 Rating, Add	13,536.51		
		For Class 56 Rating, Add	17,921.96		
40 05 19 00-2542		42" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)			
40 05 19 00-2543	EA	42" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,340.61		2,740.11
		For Class 52 Rating, Deduct	-2,440.78		
		For Class 54 Rating, Add	3,378.16		
		For Class 55 Rating, Add	5,047.77		
		For Class 56 Rating, Add	6,695.19		
40 05 19 00-2544	EA	42" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,236.68		2,744.27
		For Class 52 Rating, Deduct	-2,648.66		
		For Class 54 Rating, Add	3,661.70		
		For Class 55 Rating, Add	5,469.34		
		For Class 56 Rating, Add	7,252.90		
40 05 19 00-2545	EA	42" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,116.99		2,748.43
		For Class 52 Rating, Deduct	-2,854.80		
		For Class 54 Rating, Add	3,942.88		
		For Class 55 Rating, Add	5,887.40		
		For Class 56 Rating, Add	7,805.96		
40 05 19 00-2546	EA	42" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,016.21		2,752.60
		For Class 52 Rating, Deduct	-3,063.02		
		For Class 54 Rating, Add	4,226.89		
		For Class 55 Rating, Add	6,309.67		
		For Class 56 Rating, Add	8,364.60		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2547	EA	42" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		33,902.83	2,756.76
		For Class 52 Rating, Deduct		-3,269.85	
		For Class 54 Rating, Add		4,509.01	
		For Class 55 Rating, Add		6,729.13	
		For Class 56 Rating, Add		8,919.52	
40 05 19 00-2548	EA	42" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		35,808.35	2,760.93
		For Class 52 Rating, Deduct		-3,478.76	
		For Class 54 Rating, Add		4,793.97	
		For Class 55 Rating, Add		7,152.80	
		For Class 56 Rating, Add		9,480.01	
40 05 19 00-2549	EA	42" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		37,694.96	2,765.09
		For Class 52 Rating, Deduct		-3,685.60	
		For Class 54 Rating, Add		5,076.09	
		For Class 55 Rating, Add		7,572.26	
		For Class 56 Rating, Add		10,034.93	
40 05 19 00-2550	EA	42" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		39,603.64	2,769.25
		For Class 52 Rating, Deduct		-3,894.66	
		For Class 54 Rating, Add		5,361.52	
		For Class 55 Rating, Add		7,996.64	
		For Class 56 Rating, Add		10,596.35	
40 05 19 00-2551	EA	42" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		41,496.56	2,773.42
		For Class 52 Rating, Deduct		-4,102.39	
		For Class 54 Rating, Add		5,644.59	
		For Class 55 Rating, Add		8,417.51	
		For Class 56 Rating, Add		11,153.13	
40 05 19 00-2552	EA	42" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		43,405.23	2,777.58
		For Class 52 Rating, Deduct		-4,311.64	
		For Class 54 Rating, Add		5,930.02	
		For Class 55 Rating, Add		8,841.88	
		For Class 56 Rating, Add		11,714.55	
40 05 19 00-2553	EA	42" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		45,298.15	2,781.75
		For Class 52 Rating, Deduct		-4,519.17	
		For Class 54 Rating, Add		6,213.08	
		For Class 55 Rating, Add		9,262.75	
		For Class 56 Rating, Add		12,271.33	
40 05 19 00-2554	EA	42" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		47,209.96	2,785.91
		For Class 52 Rating, Deduct		-4,728.78	
		For Class 54 Rating, Add		6,498.99	
		For Class 55 Rating, Add		9,687.83	
		For Class 56 Rating, Add		12,833.68	
40 05 19 00-2555	EA	42" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		49,102.88	2,790.07
		For Class 52 Rating, Deduct		-4,936.31	
		For Class 54 Rating, Add		6,782.05	
		For Class 55 Rating, Add		10,108.69	
		For Class 56 Rating, Add		13,390.46	
40 05 19 00-2556	EA	42" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		51,002.11	2,794.24
		For Class 52 Rating, Deduct		-5,144.53	
		For Class 54 Rating, Add		7,066.07	
		For Class 55 Rating, Add		10,530.96	
		For Class 56 Rating, Add		13,949.09	
40 05 19 00-2557	EA	42" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		52,910.78	2,798.41
		For Class 52 Rating, Deduct		-5,353.78	
		For Class 54 Rating, Add		7,351.50	
		For Class 55 Rating, Add		10,955.34	
		For Class 56 Rating, Add		14,510.52	
40 05 19 00-2558	EA	42" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		54,806.85	2,802.57
		For Class 52 Rating, Deduct		-5,561.66	
		For Class 54 Rating, Add		7,635.04	
		For Class 55 Rating, Add		11,376.91	
		For Class 56 Rating, Add		15,068.22	
40 05 19 00-2559	EA	42" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		56,724.96	2,806.73
		For Class 52 Rating, Deduct		-5,771.96	
		For Class 54 Rating, Add		7,921.88	
		For Class 55 Rating, Add		11,803.39	
		For Class 56 Rating, Add		15,632.43	
40 05 19 00-2560	EA	42" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		58,624.18	2,810.90
		For Class 52 Rating, Deduct		-5,980.18	
		For Class 54 Rating, Add		8,205.89	
		For Class 55 Rating, Add		12,225.67	
		For Class 56 Rating, Add		16,191.07	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2561	EA		42" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	60,539.14	2,815.06
			For Class 52 Rating, Deduct	-6,190.13	
			For Class 54 Rating, Add	8,492.27	
			For Class 55 Rating, Add	12,651.45	
			For Class 56 Rating, Add	16,754.35	
40 05 19 00-2562	EA		42" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	62,435.22	2,819.23
			For Class 52 Rating, Deduct	-6,398.00	
			For Class 54 Rating, Add	8,775.81	
			For Class 55 Rating, Add	13,073.01	
			For Class 56 Rating, Add	17,312.06	
40 05 19 00-2563	EA		42" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	64,356.49	2,823.39
			For Class 52 Rating, Deduct	-6,608.65	
			For Class 54 Rating, Add	9,063.13	
			For Class 55 Rating, Add	13,500.20	
			For Class 56 Rating, Add	17,877.20	
40 05 19 00-2564	EA		42" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	66,255.70	2,827.55
			For Class 52 Rating, Deduct	-6,816.87	
			For Class 54 Rating, Add	9,347.14	
			For Class 55 Rating, Add	13,922.47	
			For Class 56 Rating, Add	18,435.83	
40 05 19 00-2565	EA		42" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	68,170.67	2,831.72
			For Class 52 Rating, Deduct	-7,026.82	
			For Class 54 Rating, Add	9,633.51	
			For Class 55 Rating, Add	14,348.25	
			For Class 56 Rating, Add	18,999.11	
40 05 19 00-2566	EA		42" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	70,069.89	2,835.88
			For Class 52 Rating, Deduct	-7,235.04	
			For Class 54 Rating, Add	9,917.53	
			For Class 55 Rating, Add	14,770.52	
			For Class 56 Rating, Add	19,557.75	
40 05 19 00-2567	EA		42" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	71,991.15	2,840.05
			For Class 52 Rating, Deduct	-7,445.69	
			For Class 54 Rating, Add	10,204.84	
			For Class 55 Rating, Add	15,197.71	
			For Class 56 Rating, Add	20,122.89	
40 05 19 00-2568	EA		42" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	73,890.37	2,844.21
			For Class 52 Rating, Deduct	-7,653.91	
			For Class 54 Rating, Add	10,488.86	
			For Class 55 Rating, Add	15,619.98	
			For Class 56 Rating, Add	20,681.52	
40 05 19 00-2569	EA		42" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	75,805.34	2,848.37
			For Class 52 Rating, Deduct	-7,863.86	
			For Class 54 Rating, Add	10,775.23	
			For Class 55 Rating, Add	16,045.76	
			For Class 56 Rating, Add	21,244.80	
40 05 19 00-2570	EA		42" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	77,707.71	2,852.54
			For Class 52 Rating, Deduct	-8,072.42	
			For Class 54 Rating, Add	11,059.72	
			For Class 55 Rating, Add	16,468.74	
			For Class 56 Rating, Add	21,804.37	
40 05 19 00-2571	EA		42" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	79,247.88	2,856.71
			For Class 52 Rating, Deduct	-8,241.15	
			For Class 54 Rating, Add	11,289.87	
			For Class 55 Rating, Add	16,810.94	
			For Class 56 Rating, Add	22,257.08	
40 05 19 00-2572	EA		42" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	81,528.20	2,860.87
			For Class 52 Rating, Deduct	-8,491.29	
			For Class 54 Rating, Add	11,631.05	
			For Class 55 Rating, Add	17,318.19	
			For Class 56 Rating, Add	22,928.14	
40 05 19 00-2573	EA		42" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	83,427.42	2,865.03
			For Class 52 Rating, Deduct	-8,699.51	
			For Class 54 Rating, Add	11,915.06	
			For Class 55 Rating, Add	17,740.46	
			For Class 56 Rating, Add	23,486.78	
40 05 19 00-2574	EA		42" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	85,345.52	2,869.20
			For Class 52 Rating, Deduct	-8,909.81	
			For Class 54 Rating, Add	12,201.91	
			For Class 55 Rating, Add	18,166.95	
			For Class 56 Rating, Add	24,050.99	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2575	EA		42" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	87,247.90	2,873.36
			For Class 52 Rating, Deduct	-9,118.38	
			For Class 54 Rating, Add	12,486.39	
			For Class 55 Rating, Add	18,589.92	
			For Class 56 Rating, Add	24,610.55	
40 05 19 00-2576	EA		42" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	89,169.17	2,877.53
			For Class 52 Rating, Deduct	-9,329.02	
			For Class 54 Rating, Add	12,773.71	
			For Class 55 Rating, Add	19,017.11	
			For Class 56 Rating, Add	25,175.69	
40 05 19 00-2577	EA		42" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	91,065.24	2,881.69
			For Class 52 Rating, Deduct	-9,536.89	
			For Class 54 Rating, Add	13,057.25	
			For Class 55 Rating, Add	19,438.67	
			For Class 56 Rating, Add	25,733.40	
40 05 19 00-2578 48" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)					
40 05 19 00-2579	EA		48" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,038.40	3,443.86
			For Class 52 Rating, Deduct	-3,060.25	
			For Class 54 Rating, Add	4,235.68	
			For Class 55 Rating, Add	6,329.19	
			For Class 56 Rating, Add	8,394.87	
40 05 19 00-2580	EA		48" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,747.06	3,448.03
			For Class 52 Rating, Deduct	-3,357.50	
			For Class 54 Rating, Add	4,641.11	
			For Class 55 Rating, Add	6,931.96	
			For Class 56 Rating, Add	9,192.29	
40 05 19 00-2581	EA		48" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,462.03	3,452.20
			For Class 52 Rating, Deduct	-3,655.46	
			For Class 54 Rating, Add	5,047.48	
			For Class 55 Rating, Add	7,536.14	
			For Class 56 Rating, Add	9,991.57	
40 05 19 00-2582	EA		48" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,208.50	3,456.36
			For Class 52 Rating, Deduct	-3,956.87	
			For Class 54 Rating, Add	5,458.58	
			For Class 55 Rating, Add	8,147.35	
			For Class 56 Rating, Add	10,800.15	
40 05 19 00-2583	EA		48" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,945.50	3,460.53
			For Class 52 Rating, Deduct	-4,257.25	
			For Class 54 Rating, Add	5,868.26	
			For Class 55 Rating, Add	8,756.45	
			For Class 56 Rating, Add	11,605.93	
40 05 19 00-2584	EA		48" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	46,688.82	3,464.69
			For Class 52 Rating, Deduct	-4,558.32	
			For Class 54 Rating, Add	6,278.89	
			For Class 55 Rating, Add	9,366.95	
			For Class 56 Rating, Add	12,413.57	
40 05 19 00-2585	EA		48" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,451.03	3,468.85
			For Class 52 Rating, Deduct	-4,861.47	
			For Class 54 Rating, Add	6,692.35	
			For Class 55 Rating, Add	9,981.67	
			For Class 56 Rating, Add	13,226.79	
40 05 19 00-2586	EA		48" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	52,206.94	3,473.02
			For Class 52 Rating, Deduct	-5,163.93	
			For Class 54 Rating, Add	7,104.86	
			For Class 55 Rating, Add	10,594.98	
			For Class 56 Rating, Add	14,038.15	
40 05 19 00-2587	EA		48" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	54,959.70	3,477.19
			For Class 52 Rating, Deduct	-5,466.04	
			For Class 54 Rating, Add	7,516.91	
			For Class 55 Rating, Add	11,207.59	
			For Class 56 Rating, Add	14,848.58	
40 05 19 00-2588	EA		48" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	57,740.81	3,481.35
			For Class 52 Rating, Deduct	-5,771.26	
			For Class 54 Rating, Add	7,933.20	
			For Class 55 Rating, Add	11,826.52	
			For Class 56 Rating, Add	15,667.37	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2589	EA	48" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		60,503.02	3,485.51
		For Class 52 Rating, Deduct		-6,074.41	
		For Class 54 Rating, Add		8,346.66	
		For Class 55 Rating, Add		12,441.24	
		For Class 56 Rating, Add		16,480.59	
40 05 19 00-2590	EA	48" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		63,287.27	3,489.68
		For Class 52 Rating, Deduct		-6,379.99	
		For Class 54 Rating, Add		8,763.43	
		For Class 55 Rating, Add		13,060.87	
		For Class 56 Rating, Add		17,300.31	
40 05 19 00-2591	EA	48" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		66,055.78	3,493.84
		For Class 52 Rating, Deduct		-6,683.83	
		For Class 54 Rating, Add		9,177.84	
		For Class 55 Rating, Add		13,676.99	
		For Class 56 Rating, Add		18,115.39	
40 05 19 00-2592	EA	48" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		68,827.44	3,498.01
		For Class 52 Rating, Deduct		-6,988.02	
		For Class 54 Rating, Add		9,592.71	
		For Class 55 Rating, Add		14,293.82	
		For Class 56 Rating, Add		18,931.39	
40 05 19 00-2593	EA	48" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		71,617.99	3,502.16
		For Class 52 Rating, Deduct		-7,294.28	
		For Class 54 Rating, Add		10,010.43	
		For Class 55 Rating, Add		14,914.86	
		For Class 56 Rating, Add		19,752.97	
40 05 19 00-2594	EA	48" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		74,395.95	3,506.33
		For Class 52 Rating, Deduct		-7,599.17	
		For Class 54 Rating, Add		10,426.25	
		For Class 55 Rating, Add		15,533.09	
		For Class 56 Rating, Add		20,570.84	
40 05 19 00-2595	EA	48" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		77,170.76	3,510.50
		For Class 52 Rating, Deduct		-7,903.70	
		For Class 54 Rating, Add		10,841.60	
		For Class 55 Rating, Add		16,150.61	
		For Class 56 Rating, Add		21,387.77	
40 05 19 00-2596	EA	48" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		79,967.62	3,514.66
		For Class 52 Rating, Deduct		-8,210.66	
		For Class 54 Rating, Add		11,260.26	
		For Class 55 Rating, Add		16,773.05	
		For Class 56 Rating, Add		22,211.21	
40 05 19 00-2597	EA	48" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		82,748.73	3,518.83
		For Class 52 Rating, Deduct		-8,515.89	
		For Class 54 Rating, Add		11,676.55	
		For Class 55 Rating, Add		17,391.99	
		For Class 56 Rating, Add		23,030.00	
40 05 19 00-2598	EA	48" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		85,526.68	3,522.99
		For Class 52 Rating, Deduct		-8,820.77	
		For Class 54 Rating, Add		12,092.38	
		For Class 55 Rating, Add		18,010.22	
		For Class 56 Rating, Add		23,847.86	
40 05 19 00-2599	EA	48" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		88,326.68	3,527.15
		For Class 52 Rating, Deduct		-9,128.08	
		For Class 54 Rating, Add		12,511.51	
		For Class 55 Rating, Add		18,633.36	
		For Class 56 Rating, Add		24,672.23	
40 05 19 00-2600	EA	48" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		91,114.09	3,531.32
		For Class 52 Rating, Deduct		-9,434.00	
		For Class 54 Rating, Add		12,928.75	
		For Class 55 Rating, Add		19,253.70	
		For Class 56 Rating, Add		25,492.88	
40 05 19 00-2601	EA	48" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		93,895.21	3,535.49
		For Class 52 Rating, Deduct		-9,739.23	
		For Class 54 Rating, Add		13,345.04	
		For Class 55 Rating, Add		19,872.63	
		For Class 56 Rating, Add		26,311.68	
40 05 19 00-2602	EA	48" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		96,698.36	3,539.65
		For Class 52 Rating, Deduct		-10,046.88	
		For Class 54 Rating, Add		13,764.64	
		For Class 55 Rating, Add		20,496.48	
		For Class 56 Rating, Add		27,136.97	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2603	EA		48" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	99,485.76	3,543.81
			For Class 52 Rating, Deduct	-10,352.80	
			For Class 54 Rating, Add	14,181.89	
			For Class 55 Rating, Add	21,116.81	
			For Class 56 Rating, Add	27,957.62	
40 05 19 00-2604	EA		48" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	102,270.01	3,547.98
			For Class 52 Rating, Deduct	-10,658.37	
			For Class 54 Rating, Add	14,598.65	
			For Class 55 Rating, Add	21,736.44	
			For Class 56 Rating, Add	28,777.34	
40 05 19 00-2605	EA		48" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	105,076.32	3,552.14
			For Class 52 Rating, Deduct	-10,966.37	
			For Class 54 Rating, Add	15,018.73	
			For Class 55 Rating, Add	22,361.00	
			For Class 56 Rating, Add	29,603.57	
40 05 19 00-2606	EA		48" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	107,866.88	3,556.31
			For Class 52 Rating, Deduct	-11,272.64	
			For Class 54 Rating, Add	15,436.44	
			For Class 55 Rating, Add	22,982.03	
			For Class 56 Rating, Add	30,425.15	
40 05 19 00-2607	EA		48" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	110,329.88	3,560.46
			For Class 52 Rating, Deduct	-11,542.87	
			For Class 54 Rating, Add	15,805.02	
			For Class 55 Rating, Add	23,530.03	
			For Class 56 Rating, Add	31,150.10	
40 05 19 00-2608	EA		48" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	113,463.74	3,564.63
			For Class 52 Rating, Deduct	-11,886.91	
			For Class 54 Rating, Add	16,274.23	
			For Class 55 Rating, Add	24,227.62	
			For Class 56 Rating, Add	32,072.95	
40 05 19 00-2609	EA		48" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	116,251.14	3,568.80
			For Class 52 Rating, Deduct	-12,192.83	
			For Class 54 Rating, Add	16,691.47	
			For Class 55 Rating, Add	24,847.96	
			For Class 56 Rating, Add	32,893.60	
40 05 19 00-2610	EA		48" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	119,063.75	3,572.96
			For Class 52 Rating, Deduct	-12,501.52	
			For Class 54 Rating, Add	17,112.49	
			For Class 55 Rating, Add	25,473.91	
			For Class 56 Rating, Add	33,721.69	
40 05 19 00-2611	EA		48" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	121,851.15	3,577.13
			For Class 52 Rating, Deduct	-12,807.44	
			For Class 54 Rating, Add	17,529.73	
			For Class 55 Rating, Add	26,094.25	
			For Class 56 Rating, Add	34,542.34	
40 05 19 00-2612	EA		48" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	124,638.55	3,581.29
			For Class 52 Rating, Deduct	-13,113.36	
			For Class 54 Rating, Add	17,946.97	
			For Class 55 Rating, Add	26,714.58	
			For Class 56 Rating, Add	35,362.99	
40 05 19 00-2613	EA		48" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	127,454.30	3,585.45
			For Class 52 Rating, Deduct	-13,422.40	
			For Class 54 Rating, Add	18,368.46	
			For Class 55 Rating, Add	27,341.24	
			For Class 56 Rating, Add	36,192.00	
40 05 19 00-2614			Flanged End x Grooved End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2073)		
40 05 19 00-2615			4" Flanged End x Grooved End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-2616	EA		4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	852.51	190.56
			For Class 52 Rating, Deduct	-62.02	
			For Class 54 Rating, Add	88.03	
			For Class 55 Rating, Add	132.65	
			For Class 56 Rating, Add	176.71	
40 05 19 00-2617	EA		4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	977.23	193.89
			For Class 52 Rating, Deduct	-75.18	
			For Class 54 Rating, Add	106.04	
			For Class 55 Rating, Add	159.46	
			For Class 56 Rating, Add	212.20	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2618	EA	4" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,101.97		197.23
		For Class 52 Rating, Deduct		-88.35		
		For Class 54 Rating, Add		124.06		
		For Class 55 Rating, Add		186.27		
		For Class 56 Rating, Add		247.69		
40 05 19 00-2619	EA	4" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,226.70		200.55
		For Class 52 Rating, Deduct		-101.51		
		For Class 54 Rating, Add		142.07		
		For Class 55 Rating, Add		213.08		
		For Class 56 Rating, Add		283.17		
40 05 19 00-2620	EA	4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,351.44		203.89
		For Class 52 Rating, Deduct		-114.68		
		For Class 54 Rating, Add		160.09		
		For Class 55 Rating, Add		239.90		
		For Class 56 Rating, Add		318.66		
40 05 19 00-2621	EA	4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,476.16		207.22
		For Class 52 Rating, Deduct		-127.84		
		For Class 54 Rating, Add		178.10		
		For Class 55 Rating, Add		266.71		
		For Class 56 Rating, Add		354.15		
40 05 19 00-2622	EA	4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,600.90		210.55
		For Class 52 Rating, Deduct		-141.01		
		For Class 54 Rating, Add		196.11		
		For Class 55 Rating, Add		293.52		
		For Class 56 Rating, Add		389.64		
40 05 19 00-2623	EA	4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,725.63		213.88
		For Class 52 Rating, Deduct		-154.17		
		For Class 54 Rating, Add		214.12		
		For Class 55 Rating, Add		320.33		
		For Class 56 Rating, Add		425.13		
40 05 19 00-2624	EA	4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,850.36		217.21
		For Class 52 Rating, Deduct		-167.34		
		For Class 54 Rating, Add		232.14		
		For Class 55 Rating, Add		347.14		
		For Class 56 Rating, Add		460.62		
40 05 19 00-2625	EA	4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,975.10		220.54
		For Class 52 Rating, Deduct		-180.50		
		For Class 54 Rating, Add		250.15		
		For Class 55 Rating, Add		373.95		
		For Class 56 Rating, Add		496.11		
40 05 19 00-2626	EA	4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,099.83		223.88
		For Class 52 Rating, Deduct		-193.67		
		For Class 54 Rating, Add		268.16		
		For Class 55 Rating, Add		400.76		
		For Class 56 Rating, Add		531.60		
40 05 19 00-2627	EA	4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,224.56		227.20
		For Class 52 Rating, Deduct		-206.83		
		For Class 54 Rating, Add		286.18		
		For Class 55 Rating, Add		427.57		
		For Class 56 Rating, Add		567.08		
40 05 19 00-2628	EA	4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,349.30		230.54
		For Class 52 Rating, Deduct		-220.00		
		For Class 54 Rating, Add		304.19		
		For Class 55 Rating, Add		454.38		
		For Class 56 Rating, Add		602.57		
40 05 19 00-2629	EA	4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,474.02		233.87
		For Class 52 Rating, Deduct		-233.16		
		For Class 54 Rating, Add		322.20		
		For Class 55 Rating, Add		481.19		
		For Class 56 Rating, Add		638.06		
40 05 19 00-2630	EA	4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,598.76		237.20
		For Class 52 Rating, Deduct		-246.33		
		For Class 54 Rating, Add		340.22		
		For Class 55 Rating, Add		508.00		
		For Class 56 Rating, Add		673.55		
40 05 19 00-2631	EA	4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,723.49		240.53
		For Class 52 Rating, Deduct		-259.50		
		For Class 54 Rating, Add		358.23		
		For Class 55 Rating, Add		534.81		
		For Class 56 Rating, Add		709.04		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2632	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,848.23	243.86
			For Class 52 Rating, Deduct	-272.66	
			For Class 54 Rating, Add	376.24	
			For Class 55 Rating, Add	561.63	
			For Class 56 Rating, Add	744.53	
40 05 19 00-2633	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,972.95	247.19
			For Class 52 Rating, Deduct	-285.83	
			For Class 54 Rating, Add	394.26	
			For Class 55 Rating, Add	588.44	
			For Class 56 Rating, Add	780.02	
40 05 19 00-2634	EA		4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,097.69	250.53
			For Class 52 Rating, Deduct	-298.99	
			For Class 54 Rating, Add	412.27	
			For Class 55 Rating, Add	615.25	
			For Class 56 Rating, Add	815.50	
40 05 19 00-2635	EA		4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,222.42	253.85
			For Class 52 Rating, Deduct	-312.16	
			For Class 54 Rating, Add	430.28	
			For Class 55 Rating, Add	642.06	
			For Class 56 Rating, Add	850.99	
40 05 19 00-2636	EA		4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,347.15	257.19
			For Class 52 Rating, Deduct	-325.32	
			For Class 54 Rating, Add	448.30	
			For Class 55 Rating, Add	668.87	
			For Class 56 Rating, Add	886.48	
40 05 19 00-2637	EA		4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,471.88	260.53
			For Class 52 Rating, Deduct	-338.49	
			For Class 54 Rating, Add	466.31	
			For Class 55 Rating, Add	695.68	
			For Class 56 Rating, Add	921.97	
40 05 19 00-2638	EA		4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,596.61	263.85
			For Class 52 Rating, Deduct	-351.65	
			For Class 54 Rating, Add	484.32	
			For Class 55 Rating, Add	722.49	
			For Class 56 Rating, Add	957.46	
40 05 19 00-2639	EA		4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,721.35	267.19
			For Class 52 Rating, Deduct	-364.82	
			For Class 54 Rating, Add	502.34	
			For Class 55 Rating, Add	749.30	
			For Class 56 Rating, Add	992.95	
40 05 19 00-2640	EA		4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,846.07	270.51
			For Class 52 Rating, Deduct	-377.98	
			For Class 54 Rating, Add	520.35	
			For Class 55 Rating, Add	776.11	
			For Class 56 Rating, Add	1,028.44	
40 05 19 00-2641	EA		4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,970.82	273.85
			For Class 52 Rating, Deduct	-391.15	
			For Class 54 Rating, Add	538.36	
			For Class 55 Rating, Add	802.92	
			For Class 56 Rating, Add	1,063.93	
40 05 19 00-2642	EA		4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,095.54	277.18
			For Class 52 Rating, Deduct	-404.31	
			For Class 54 Rating, Add	556.38	
			For Class 55 Rating, Add	829.73	
			For Class 56 Rating, Add	1,099.41	
40 05 19 00-2643	EA		4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,220.28	280.51
			For Class 52 Rating, Deduct	-417.48	
			For Class 54 Rating, Add	574.39	
			For Class 55 Rating, Add	856.55	
			For Class 56 Rating, Add	1,134.91	
40 05 19 00-2644	EA		4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,345.01	283.84
			For Class 52 Rating, Deduct	-430.64	
			For Class 54 Rating, Add	592.40	
			For Class 55 Rating, Add	883.36	
			For Class 56 Rating, Add	1,170.39	
40 05 19 00-2645	EA		4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,469.74	287.18
			For Class 52 Rating, Deduct	-443.81	
			For Class 54 Rating, Add	610.42	
			For Class 55 Rating, Add	910.17	
			For Class 56 Rating, Add	1,205.88	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2646	EA	4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,594.47		290.50
		For Class 52 Rating, Deduct	-456.98		
		For Class 54 Rating, Add	628.43		
		For Class 55 Rating, Add	936.98		
		For Class 56 Rating, Add	1,241.37		
40 05 19 00-2647	EA	4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,719.21		293.84
		For Class 52 Rating, Deduct	-470.14		
		For Class 54 Rating, Add	646.44		
		For Class 55 Rating, Add	963.79		
		For Class 56 Rating, Add	1,276.86		
40 05 19 00-2648	EA	4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,843.94		297.16
		For Class 52 Rating, Deduct	-483.31		
		For Class 54 Rating, Add	664.46		
		For Class 55 Rating, Add	990.60		
		For Class 56 Rating, Add	1,312.35		
40 05 19 00-2649	EA	4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,968.67		300.50
		For Class 52 Rating, Deduct	-496.47		
		For Class 54 Rating, Add	682.47		
		For Class 55 Rating, Add	1,017.41		
		For Class 56 Rating, Add	1,347.84		
40 05 19 00-2650	EA	4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,093.41		303.83
		For Class 52 Rating, Deduct	-509.64		
		For Class 54 Rating, Add	700.48		
		For Class 55 Rating, Add	1,044.22		
		For Class 56 Rating, Add	1,383.33		
40 05 19 00-2651	EA	4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,218.14		307.16
		For Class 52 Rating, Deduct	-522.80		
		For Class 54 Rating, Add	718.50		
		For Class 55 Rating, Add	1,071.03		
		For Class 56 Rating, Add	1,418.82		
40 05 19 00-2652	EA	4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,342.87		310.49
		For Class 52 Rating, Deduct	-535.97		
		For Class 54 Rating, Add	736.51		
		For Class 55 Rating, Add	1,097.84		
		For Class 56 Rating, Add	1,454.30		
40 05 19 00-2653	EA	4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,436.11		313.83
		For Class 52 Rating, Deduct	-545.67		
		For Class 54 Rating, Add	749.80		
		For Class 55 Rating, Add	1,117.63		
		For Class 56 Rating, Add	1,480.50		
40 05 19 00-2654	EA	4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,592.33		317.15
		For Class 52 Rating, Deduct	-562.30		
		For Class 54 Rating, Add	772.54		
		For Class 55 Rating, Add	1,151.46		
		For Class 56 Rating, Add	1,525.28		
40 05 19 00-2655		6" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)			
40 05 19 00-2656	EA	6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,103.58		239.86
		For Class 52 Rating, Deduct	-81.42		
		For Class 54 Rating, Add	115.39		
		For Class 55 Rating, Add	173.78		
		For Class 56 Rating, Add	231.43		
40 05 19 00-2657	EA	6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,247.22		243.20
		For Class 52 Rating, Deduct	-96.66		
		For Class 54 Rating, Add	136.23		
		For Class 55 Rating, Add	204.80		
		For Class 56 Rating, Add	272.49		
40 05 19 00-2658	EA	6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,390.84		246.52
		For Class 52 Rating, Deduct	-111.91		
		For Class 54 Rating, Add	157.08		
		For Class 55 Rating, Add	235.83		
		For Class 56 Rating, Add	313.56		
40 05 19 00-2659	EA	6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,534.47		249.86
		For Class 52 Rating, Deduct	-127.15		
		For Class 54 Rating, Add	177.93		
		For Class 55 Rating, Add	266.85		
		For Class 56 Rating, Add	354.62		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2660	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,678.11	253.19
			For Class 52 Rating, Deduct	-142.39	
			For Class 54 Rating, Add	198.78	
			For Class 55 Rating, Add	297.88	
			For Class 56 Rating, Add	395.68	
40 05 19 00-2661	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,821.74	256.52
			For Class 52 Rating, Deduct	-157.64	
			For Class 54 Rating, Add	219.62	
			For Class 55 Rating, Add	328.90	
			For Class 56 Rating, Add	436.75	
40 05 19 00-2662	EA		6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,965.36	259.85
			For Class 52 Rating, Deduct	-172.88	
			For Class 54 Rating, Add	240.47	
			For Class 55 Rating, Add	359.93	
			For Class 56 Rating, Add	477.81	
40 05 19 00-2663	EA		6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,109.00	263.19
			For Class 52 Rating, Deduct	-188.13	
			For Class 54 Rating, Add	261.32	
			For Class 55 Rating, Add	390.95	
			For Class 56 Rating, Add	518.87	
40 05 19 00-2664	EA		6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,252.63	266.51
			For Class 52 Rating, Deduct	-203.37	
			For Class 54 Rating, Add	282.17	
			For Class 55 Rating, Add	421.98	
			For Class 56 Rating, Add	559.94	
40 05 19 00-2665	EA		6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,396.25	269.85
			For Class 52 Rating, Deduct	-218.61	
			For Class 54 Rating, Add	303.02	
			For Class 55 Rating, Add	453.00	
			For Class 56 Rating, Add	601.00	
40 05 19 00-2666	EA		6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,539.89	273.18
			For Class 52 Rating, Deduct	-233.86	
			For Class 54 Rating, Add	323.86	
			For Class 55 Rating, Add	484.03	
			For Class 56 Rating, Add	642.06	
40 05 19 00-2667	EA		6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,683.51	276.51
			For Class 52 Rating, Deduct	-249.10	
			For Class 54 Rating, Add	344.71	
			For Class 55 Rating, Add	515.05	
			For Class 56 Rating, Add	683.13	
40 05 19 00-2668	EA		6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,827.14	279.84
			For Class 52 Rating, Deduct	-264.35	
			For Class 54 Rating, Add	365.56	
			For Class 55 Rating, Add	546.08	
			For Class 56 Rating, Add	724.19	
40 05 19 00-2669	EA		6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,970.78	283.17
			For Class 52 Rating, Deduct	-279.59	
			For Class 54 Rating, Add	386.41	
			For Class 55 Rating, Add	577.10	
			For Class 56 Rating, Add	765.26	
40 05 19 00-2670	EA		6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,114.41	286.50
			For Class 52 Rating, Deduct	-294.83	
			For Class 54 Rating, Add	407.26	
			For Class 55 Rating, Add	608.13	
			For Class 56 Rating, Add	806.32	
40 05 19 00-2671	EA		6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,258.03	289.84
			For Class 52 Rating, Deduct	-310.08	
			For Class 54 Rating, Add	428.10	
			For Class 55 Rating, Add	639.15	
			For Class 56 Rating, Add	847.38	
40 05 19 00-2672	EA		6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,401.66	293.16
			For Class 52 Rating, Deduct	-325.32	
			For Class 54 Rating, Add	448.95	
			For Class 55 Rating, Add	670.18	
			For Class 56 Rating, Add	888.44	
40 05 19 00-2673	EA		6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,545.30	296.50
			For Class 52 Rating, Deduct	-340.57	
			For Class 54 Rating, Add	469.80	
			For Class 55 Rating, Add	701.20	
			For Class 56 Rating, Add	929.51	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2674	EA	6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,688.92		299.83
		For Class 52 Rating, Deduct	-355.81		
		For Class 54 Rating, Add	490.65		
		For Class 55 Rating, Add	732.23		
		For Class 56 Rating, Add	970.57		
40 05 19 00-2675	EA	6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,832.56		303.16
		For Class 52 Rating, Deduct	-371.05		
		For Class 54 Rating, Add	511.50		
		For Class 55 Rating, Add	763.25		
		For Class 56 Rating, Add	1,011.64		
40 05 19 00-2676	EA	6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,976.18		306.49
		For Class 52 Rating, Deduct	-386.30		
		For Class 54 Rating, Add	532.34		
		For Class 55 Rating, Add	794.28		
		For Class 56 Rating, Add	1,052.70		
40 05 19 00-2677	EA	6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,119.82		309.82
		For Class 52 Rating, Deduct	-401.54		
		For Class 54 Rating, Add	553.19		
		For Class 55 Rating, Add	825.30		
		For Class 56 Rating, Add	1,093.76		
40 05 19 00-2678	EA	6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,263.45		313.15
		For Class 52 Rating, Deduct	-416.79		
		For Class 54 Rating, Add	574.04		
		For Class 55 Rating, Add	856.33		
		For Class 56 Rating, Add	1,134.83		
40 05 19 00-2679	EA	6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,407.07		316.49
		For Class 52 Rating, Deduct	-432.03		
		For Class 54 Rating, Add	594.89		
		For Class 55 Rating, Add	887.35		
		For Class 56 Rating, Add	1,175.89		
40 05 19 00-2680	EA	6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,550.70		319.81
		For Class 52 Rating, Deduct	-447.27		
		For Class 54 Rating, Add	615.73		
		For Class 55 Rating, Add	918.38		
		For Class 56 Rating, Add	1,216.95		
40 05 19 00-2681	EA	6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,694.34		323.15
		For Class 52 Rating, Deduct	-462.52		
		For Class 54 Rating, Add	636.58		
		For Class 55 Rating, Add	949.40		
		For Class 56 Rating, Add	1,258.02		
40 05 19 00-2682	EA	6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,837.97		326.48
		For Class 52 Rating, Deduct	-477.76		
		For Class 54 Rating, Add	657.43		
		For Class 55 Rating, Add	980.43		
		For Class 56 Rating, Add	1,299.08		
40 05 19 00-2683	EA	6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,981.59		329.81
		For Class 52 Rating, Deduct	-493.01		
		For Class 54 Rating, Add	678.28		
		For Class 55 Rating, Add	1,011.45		
		For Class 56 Rating, Add	1,340.14		
40 05 19 00-2684	EA	6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,125.23		333.15
		For Class 52 Rating, Deduct	-508.25		
		For Class 54 Rating, Add	699.13		
		For Class 55 Rating, Add	1,042.48		
		For Class 56 Rating, Add	1,381.21		
40 05 19 00-2685	EA	6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,268.86		336.47
		For Class 52 Rating, Deduct	-523.50		
		For Class 54 Rating, Add	719.98		
		For Class 55 Rating, Add	1,073.50		
		For Class 56 Rating, Add	1,422.27		
40 05 19 00-2686	EA	6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,412.49		339.81
		For Class 52 Rating, Deduct	-538.74		
		For Class 54 Rating, Add	740.82		
		For Class 55 Rating, Add	1,104.53		
		For Class 56 Rating, Add	1,463.34		
40 05 19 00-2687	EA	6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,556.12		343.14
		For Class 52 Rating, Deduct	-553.98		
		For Class 54 Rating, Add	761.67		
		For Class 55 Rating, Add	1,135.55		
		For Class 56 Rating, Add	1,504.40		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2688	EA		6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,699.74	346.47
			For Class 52 Rating, Deduct	-569.23	
			For Class 54 Rating, Add	782.52	
			For Class 55 Rating, Add	1,166.58	
			For Class 56 Rating, Add	1,545.46	
40 05 19 00-2689	EA		6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,843.38	349.80
			For Class 52 Rating, Deduct	-584.47	
			For Class 54 Rating, Add	803.37	
			For Class 55 Rating, Add	1,197.60	
			For Class 56 Rating, Add	1,586.53	
40 05 19 00-2690	EA		6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,987.01	353.14
			For Class 52 Rating, Deduct	-599.72	
			For Class 54 Rating, Add	824.21	
			For Class 55 Rating, Add	1,228.63	
			For Class 56 Rating, Add	1,627.59	
40 05 19 00-2691	EA		6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,130.64	356.46
			For Class 52 Rating, Deduct	-614.96	
			For Class 54 Rating, Add	845.06	
			For Class 55 Rating, Add	1,259.65	
			For Class 56 Rating, Add	1,668.65	
40 05 19 00-2692	EA		6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,274.26	359.80
			For Class 52 Rating, Deduct	-630.20	
			For Class 54 Rating, Add	865.91	
			For Class 55 Rating, Add	1,290.68	
			For Class 56 Rating, Add	1,709.72	
40 05 19 00-2693	EA		6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,417.90	363.12
			For Class 52 Rating, Deduct	-645.45	
			For Class 54 Rating, Add	886.76	
			For Class 55 Rating, Add	1,321.70	
			For Class 56 Rating, Add	1,750.78	
40 05 19 00-2694	EA		6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,561.53	366.46
			For Class 52 Rating, Deduct	-660.69	
			For Class 54 Rating, Add	907.61	
			For Class 55 Rating, Add	1,352.73	
			For Class 56 Rating, Add	1,791.84	
40 05 19 00-2695			8" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-2696	EA		8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,516.35	306.49
			For Class 52 Rating, Deduct	-115.72	
			For Class 54 Rating, Add	163.37	
			For Class 55 Rating, Add	245.73	
			For Class 56 Rating, Add	327.05	
40 05 19 00-2697	EA		8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,700.92	309.82
			For Class 52 Rating, Deduct	-135.46	
			For Class 54 Rating, Add	190.36	
			For Class 55 Rating, Add	285.89	
			For Class 56 Rating, Add	380.19	
40 05 19 00-2698	EA		8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,885.50	313.15
			For Class 52 Rating, Deduct	-155.21	
			For Class 54 Rating, Add	217.35	
			For Class 55 Rating, Add	326.04	
			For Class 56 Rating, Add	433.33	
40 05 19 00-2699	EA		8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,070.07	316.49
			For Class 52 Rating, Deduct	-174.96	
			For Class 54 Rating, Add	244.34	
			For Class 55 Rating, Add	366.20	
			For Class 56 Rating, Add	486.47	
40 05 19 00-2700	EA		8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,254.65	319.81
			For Class 52 Rating, Deduct	-194.71	
			For Class 54 Rating, Add	271.33	
			For Class 55 Rating, Add	406.36	
			For Class 56 Rating, Add	539.62	
40 05 19 00-2701	EA		8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,439.22	323.15
			For Class 52 Rating, Deduct	-214.46	
			For Class 54 Rating, Add	298.32	
			For Class 55 Rating, Add	446.51	
			For Class 56 Rating, Add	592.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2702	EA	8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,623.80		326.48
		For Class 52 Rating, Deduct	-234.20		
		For Class 54 Rating, Add	325.31		
		For Class 55 Rating, Add	486.67		
		For Class 56 Rating, Add	645.90		
40 05 19 00-2703	EA	8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,808.37		329.81
		For Class 52 Rating, Deduct	-253.95		
		For Class 54 Rating, Add	352.30		
		For Class 55 Rating, Add	526.82		
		For Class 56 Rating, Add	699.04		
40 05 19 00-2704	EA	8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,992.95		333.15
		For Class 52 Rating, Deduct	-273.70		
		For Class 54 Rating, Add	379.28		
		For Class 55 Rating, Add	566.98		
		For Class 56 Rating, Add	752.18		
40 05 19 00-2705	EA	8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,177.52		336.47
		For Class 52 Rating, Deduct	-293.45		
		For Class 54 Rating, Add	406.27		
		For Class 55 Rating, Add	607.13		
		For Class 56 Rating, Add	805.33		
40 05 19 00-2706	EA	8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,362.10		339.81
		For Class 52 Rating, Deduct	-313.20		
		For Class 54 Rating, Add	433.26		
		For Class 55 Rating, Add	647.29		
		For Class 56 Rating, Add	858.47		
40 05 19 00-2707	EA	8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,546.68		343.14
		For Class 52 Rating, Deduct	-332.94		
		For Class 54 Rating, Add	460.25		
		For Class 55 Rating, Add	687.45		
		For Class 56 Rating, Add	911.61		
40 05 19 00-2708	EA	8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,731.24		346.47
		For Class 52 Rating, Deduct	-352.69		
		For Class 54 Rating, Add	487.24		
		For Class 55 Rating, Add	727.60		
		For Class 56 Rating, Add	964.75		
40 05 19 00-2709	EA	8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,915.82		349.80
		For Class 52 Rating, Deduct	-372.44		
		For Class 54 Rating, Add	514.23		
		For Class 55 Rating, Add	767.76		
		For Class 56 Rating, Add	1,017.90		
40 05 19 00-2710	EA	8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,100.40		353.14
		For Class 52 Rating, Deduct	-392.19		
		For Class 54 Rating, Add	541.22		
		For Class 55 Rating, Add	807.91		
		For Class 56 Rating, Add	1,071.04		
40 05 19 00-2711	EA	8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,284.97		356.46
		For Class 52 Rating, Deduct	-411.94		
		For Class 54 Rating, Add	568.21		
		For Class 55 Rating, Add	848.07		
		For Class 56 Rating, Add	1,124.18		
40 05 19 00-2712	EA	8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,469.54		359.80
		For Class 52 Rating, Deduct	-431.68		
		For Class 54 Rating, Add	595.20		
		For Class 55 Rating, Add	888.22		
		For Class 56 Rating, Add	1,177.32		
40 05 19 00-2713	EA	8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,654.13		363.12
		For Class 52 Rating, Deduct	-451.43		
		For Class 54 Rating, Add	622.19		
		For Class 55 Rating, Add	928.38		
		For Class 56 Rating, Add	1,230.47		
40 05 19 00-2714	EA	8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,838.70		366.46
		For Class 52 Rating, Deduct	-471.18		
		For Class 54 Rating, Add	649.18		
		For Class 55 Rating, Add	968.54		
		For Class 56 Rating, Add	1,283.61		
40 05 19 00-2715	EA	8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,023.26		369.79
		For Class 52 Rating, Deduct	-490.93		
		For Class 54 Rating, Add	676.17		
		For Class 55 Rating, Add	1,008.69		
		For Class 56 Rating, Add	1,336.75		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2716	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,207.84	373.12
		For Class 52 Rating, Deduct	-510.68	
		For Class 54 Rating, Add	703.16	
		For Class 55 Rating, Add	1,048.85	
		For Class 56 Rating, Add	1,389.89	
40 05 19 00-2717	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,392.42	376.45
		For Class 52 Rating, Deduct	-530.42	
		For Class 54 Rating, Add	730.15	
		For Class 55 Rating, Add	1,089.00	
		For Class 56 Rating, Add	1,443.04	
40 05 19 00-2718	EA	8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,576.99	379.79
		For Class 52 Rating, Deduct	-550.17	
		For Class 54 Rating, Add	757.14	
		For Class 55 Rating, Add	1,129.16	
		For Class 56 Rating, Add	1,496.18	
40 05 19 00-2719	EA	8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,761.56	383.11
		For Class 52 Rating, Deduct	-569.92	
		For Class 54 Rating, Add	784.13	
		For Class 55 Rating, Add	1,169.31	
		For Class 56 Rating, Add	1,549.32	
40 05 19 00-2720	EA	8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,946.15	386.45
		For Class 52 Rating, Deduct	-589.67	
		For Class 54 Rating, Add	811.12	
		For Class 55 Rating, Add	1,209.47	
		For Class 56 Rating, Add	1,602.46	
40 05 19 00-2721	EA	8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,130.72	389.78
		For Class 52 Rating, Deduct	-609.42	
		For Class 54 Rating, Add	838.11	
		For Class 55 Rating, Add	1,249.63	
		For Class 56 Rating, Add	1,655.60	
40 05 19 00-2722	EA	8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,315.29	393.11
		For Class 52 Rating, Deduct	-629.16	
		For Class 54 Rating, Add	865.10	
		For Class 55 Rating, Add	1,289.78	
		For Class 56 Rating, Add	1,708.74	
40 05 19 00-2723	EA	8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,499.87	396.44
		For Class 52 Rating, Deduct	-648.91	
		For Class 54 Rating, Add	892.09	
		For Class 55 Rating, Add	1,329.94	
		For Class 56 Rating, Add	1,761.89	
40 05 19 00-2724	EA	8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,684.44	399.77
		For Class 52 Rating, Deduct	-668.66	
		For Class 54 Rating, Add	919.08	
		For Class 55 Rating, Add	1,370.09	
		For Class 56 Rating, Add	1,815.03	
40 05 19 00-2725	EA	8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,869.02	403.10
		For Class 52 Rating, Deduct	-688.41	
		For Class 54 Rating, Add	946.07	
		For Class 55 Rating, Add	1,410.25	
		For Class 56 Rating, Add	1,868.17	
40 05 19 00-2726	EA	8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,053.59	406.44
		For Class 52 Rating, Deduct	-708.16	
		For Class 54 Rating, Add	973.06	
		For Class 55 Rating, Add	1,450.40	
		For Class 56 Rating, Add	1,921.31	
40 05 19 00-2727	EA	8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,238.17	409.76
		For Class 52 Rating, Deduct	-727.90	
		For Class 54 Rating, Add	1,000.05	
		For Class 55 Rating, Add	1,490.56	
		For Class 56 Rating, Add	1,974.46	
40 05 19 00-2728	EA	8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,422.74	413.10
		For Class 52 Rating, Deduct	-747.65	
		For Class 54 Rating, Add	1,027.04	
		For Class 55 Rating, Add	1,530.72	
		For Class 56 Rating, Add	2,027.60	
40 05 19 00-2729	EA	8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,607.32	416.43
		For Class 52 Rating, Deduct	-767.40	
		For Class 54 Rating, Add	1,054.03	
		For Class 55 Rating, Add	1,570.87	
		For Class 56 Rating, Add	2,080.74	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2730	EA		8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,791.89	419.76
			For Class 52 Rating, Deduct	-787.15	
			For Class 54 Rating, Add	1,081.02	
			For Class 55 Rating, Add	1,611.03	
			For Class 56 Rating, Add	2,133.88	
40 05 19 00-2731	EA		8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,976.46	423.09
			For Class 52 Rating, Deduct	-806.90	
			For Class 54 Rating, Add	1,108.01	
			For Class 55 Rating, Add	1,651.18	
			For Class 56 Rating, Add	2,187.03	
40 05 19 00-2732	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,161.05	426.42
			For Class 52 Rating, Deduct	-826.64	
			For Class 54 Rating, Add	1,135.00	
			For Class 55 Rating, Add	1,691.34	
			For Class 56 Rating, Add	2,240.17	
40 05 19 00-2733	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,345.61	429.75
			For Class 52 Rating, Deduct	-846.39	
			For Class 54 Rating, Add	1,161.98	
			For Class 55 Rating, Add	1,731.49	
			For Class 56 Rating, Add	2,293.31	
40 05 19 00-2734	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,530.19	433.09
			For Class 52 Rating, Deduct	-866.14	
			For Class 54 Rating, Add	1,188.97	
			For Class 55 Rating, Add	1,771.65	
			For Class 56 Rating, Add	2,346.45	
40 05 19 00-2735 10" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)					
40 05 19 00-2736	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,907.06	373.12
			For Class 52 Rating, Deduct	-147.59	
			For Class 54 Rating, Add	208.04	
			For Class 55 Rating, Add	312.77	
			For Class 56 Rating, Add	416.16	
40 05 19 00-2737	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,145.18	376.45
			For Class 52 Rating, Deduct	-173.23	
			For Class 54 Rating, Add	243.06	
			For Class 55 Rating, Add	364.87	
			For Class 56 Rating, Add	485.10	
40 05 19 00-2738	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,383.30	379.79
			For Class 52 Rating, Deduct	-198.87	
			For Class 54 Rating, Add	278.09	
			For Class 55 Rating, Add	416.97	
			For Class 56 Rating, Add	554.04	
40 05 19 00-2739	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,621.41	383.11
			For Class 52 Rating, Deduct	-224.50	
			For Class 54 Rating, Add	313.11	
			For Class 55 Rating, Add	469.06	
			For Class 56 Rating, Add	622.97	
40 05 19 00-2740	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,859.54	386.45
			For Class 52 Rating, Deduct	-250.14	
			For Class 54 Rating, Add	348.13	
			For Class 55 Rating, Add	521.16	
			For Class 56 Rating, Add	691.91	
40 05 19 00-2741	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,097.65	389.78
			For Class 52 Rating, Deduct	-275.78	
			For Class 54 Rating, Add	383.15	
			For Class 55 Rating, Add	573.25	
			For Class 56 Rating, Add	760.85	
40 05 19 00-2742	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,335.77	393.11
			For Class 52 Rating, Deduct	-301.42	
			For Class 54 Rating, Add	418.17	
			For Class 55 Rating, Add	625.35	
			For Class 56 Rating, Add	829.79	
40 05 19 00-2743	EA		10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,573.89	396.44
			For Class 52 Rating, Deduct	-327.05	
			For Class 54 Rating, Add	453.19	
			For Class 55 Rating, Add	677.44	
			For Class 56 Rating, Add	898.72	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2744	EA	10"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,812.00	399.77
			For Class 52 Rating, Deduct	-352.69	
			For Class 54 Rating, Add	488.21	
			For Class 55 Rating, Add	729.54	
			For Class 56 Rating, Add	967.66	
40 05 19 00-2745	EA	10"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,050.12	403.10
			For Class 52 Rating, Deduct	-378.33	
			For Class 54 Rating, Add	523.23	
			For Class 55 Rating, Add	781.64	
			For Class 56 Rating, Add	1,036.60	
40 05 19 00-2746	EA	10"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,288.24	406.44
			For Class 52 Rating, Deduct	-403.97	
			For Class 54 Rating, Add	558.25	
			For Class 55 Rating, Add	833.73	
			For Class 56 Rating, Add	1,105.54	
40 05 19 00-2747	EA	10"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,526.36	409.76
			For Class 52 Rating, Deduct	-429.61	
			For Class 54 Rating, Add	593.28	
			For Class 55 Rating, Add	885.83	
			For Class 56 Rating, Add	1,174.47	
40 05 19 00-2748	EA	10"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,764.47	413.10
			For Class 52 Rating, Deduct	-455.24	
			For Class 54 Rating, Add	628.30	
			For Class 55 Rating, Add	937.92	
			For Class 56 Rating, Add	1,243.41	
40 05 19 00-2749	EA	10"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,002.60	416.43
			For Class 52 Rating, Deduct	-480.88	
			For Class 54 Rating, Add	663.32	
			For Class 55 Rating, Add	990.02	
			For Class 56 Rating, Add	1,312.35	
40 05 19 00-2750	EA	10"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,240.72	419.76
			For Class 52 Rating, Deduct	-506.52	
			For Class 54 Rating, Add	698.34	
			For Class 55 Rating, Add	1,042.12	
			For Class 56 Rating, Add	1,381.29	
40 05 19 00-2751	EA	10"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,478.83	423.09
			For Class 52 Rating, Deduct	-532.16	
			For Class 54 Rating, Add	733.36	
			For Class 55 Rating, Add	1,094.21	
			For Class 56 Rating, Add	1,450.23	
40 05 19 00-2752	EA	10"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,716.96	426.42
			For Class 52 Rating, Deduct	-557.79	
			For Class 54 Rating, Add	768.38	
			For Class 55 Rating, Add	1,146.31	
			For Class 56 Rating, Add	1,519.16	
40 05 19 00-2753	EA	10"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,955.07	429.75
			For Class 52 Rating, Deduct	-583.43	
			For Class 54 Rating, Add	803.40	
			For Class 55 Rating, Add	1,198.40	
			For Class 56 Rating, Add	1,588.10	
40 05 19 00-2754	EA	10"	Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,193.19	433.09
			For Class 52 Rating, Deduct	-609.07	
			For Class 54 Rating, Add	838.42	
			For Class 55 Rating, Add	1,250.50	
			For Class 56 Rating, Add	1,657.04	
40 05 19 00-2755	EA	10"	Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,431.31	436.41
			For Class 52 Rating, Deduct	-634.71	
			For Class 54 Rating, Add	873.45	
			For Class 55 Rating, Add	1,302.60	
			For Class 56 Rating, Add	1,725.98	
40 05 19 00-2756	EA	10"	Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,669.43	439.75
			For Class 52 Rating, Deduct	-660.35	
			For Class 54 Rating, Add	908.47	
			For Class 55 Rating, Add	1,354.69	
			For Class 56 Rating, Add	1,794.91	
40 05 19 00-2757	EA	10"	Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,907.54	443.09
			For Class 52 Rating, Deduct	-685.98	
			For Class 54 Rating, Add	943.49	
			For Class 55 Rating, Add	1,406.79	
			For Class 56 Rating, Add	1,863.85	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2758	EA	10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,145.67		446.41
		For Class 52 Rating, Deduct.....	-711.62		
		For Class 54 Rating, Add.....	978.51		
		For Class 55 Rating, Add.....	1,458.88		
		For Class 56 Rating, Add.....	1,932.79		
40 05 19 00-2759	EA	10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,383.78		449.75
		For Class 52 Rating, Deduct.....	-737.26		
		For Class 54 Rating, Add.....	1,013.53		
		For Class 55 Rating, Add.....	1,510.98		
		For Class 56 Rating, Add.....	2,001.72		
40 05 19 00-2760	EA	10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,621.89		453.07
		For Class 52 Rating, Deduct.....	-762.90		
		For Class 54 Rating, Add.....	1,048.55		
		For Class 55 Rating, Add.....	1,563.07		
		For Class 56 Rating, Add.....	2,070.66		
40 05 19 00-2761	EA	10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,860.02		456.41
		For Class 52 Rating, Deduct.....	-788.53		
		For Class 54 Rating, Add.....	1,083.57		
		For Class 55 Rating, Add.....	1,615.17		
		For Class 56 Rating, Add.....	2,139.60		
40 05 19 00-2762	EA	10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,098.13		459.74
		For Class 52 Rating, Deduct.....	-814.17		
		For Class 54 Rating, Add.....	1,118.59		
		For Class 55 Rating, Add.....	1,667.27		
		For Class 56 Rating, Add.....	2,208.54		
40 05 19 00-2763	EA	10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,336.25		463.07
		For Class 52 Rating, Deduct.....	-839.81		
		For Class 54 Rating, Add.....	1,153.61		
		For Class 55 Rating, Add.....	1,719.36		
		For Class 56 Rating, Add.....	2,277.47		
40 05 19 00-2764	EA	10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,574.37		466.40
		For Class 52 Rating, Deduct.....	-865.45		
		For Class 54 Rating, Add.....	1,188.64		
		For Class 55 Rating, Add.....	1,771.46		
		For Class 56 Rating, Add.....	2,346.41		
40 05 19 00-2765	EA	10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,812.49		469.74
		For Class 52 Rating, Deduct.....	-891.08		
		For Class 54 Rating, Add.....	1,223.66		
		For Class 55 Rating, Add.....	1,823.55		
		For Class 56 Rating, Add.....	2,415.35		
40 05 19 00-2766	EA	10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,050.60		473.06
		For Class 52 Rating, Deduct.....	-916.72		
		For Class 54 Rating, Add.....	1,258.68		
		For Class 55 Rating, Add.....	1,875.65		
		For Class 56 Rating, Add.....	2,484.29		
40 05 19 00-2767	EA	10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,288.72		476.40
		For Class 52 Rating, Deduct.....	-942.36		
		For Class 54 Rating, Add.....	1,293.70		
		For Class 55 Rating, Add.....	1,927.74		
		For Class 56 Rating, Add.....	2,553.22		
40 05 19 00-2768	EA	10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,526.84		479.72
		For Class 52 Rating, Deduct.....	-968.00		
		For Class 54 Rating, Add.....	1,328.72		
		For Class 55 Rating, Add.....	1,979.84		
		For Class 56 Rating, Add.....	2,622.16		
40 05 19 00-2769	EA	10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,764.95		483.06
		For Class 52 Rating, Deduct.....	-993.64		
		For Class 54 Rating, Add.....	1,363.74		
		For Class 55 Rating, Add.....	2,031.94		
		For Class 56 Rating, Add.....	2,691.10		
40 05 19 00-2770	EA	10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,003.08		486.39
		For Class 52 Rating, Deduct.....	-1,019.27		
		For Class 54 Rating, Add.....	1,398.76		
		For Class 55 Rating, Add.....	2,084.03		
		For Class 56 Rating, Add.....	2,760.04		
40 05 19 00-2771	EA	10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,241.19		489.72
		For Class 52 Rating, Deduct.....	-1,044.91		
		For Class 54 Rating, Add.....	1,433.78		
		For Class 55 Rating, Add.....	2,136.13		
		For Class 56 Rating, Add.....	2,828.97		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2772	EA		10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,479.31	493.05
			For Class 52 Rating, Deduct.....	-1,070.55	
			For Class 54 Rating, Add.....	1,468.80	
			For Class 55 Rating, Add.....	2,188.22	
			For Class 56 Rating, Add.....	2,897.91	
40 05 19 00-2773	EA		10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,717.43	496.39
			For Class 52 Rating, Deduct.....	-1,096.19	
			For Class 54 Rating, Add.....	1,503.82	
			For Class 55 Rating, Add.....	2,240.32	
			For Class 56 Rating, Add.....	2,966.85	
40 05 19 00-2774	EA		10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,955.55	499.71
			For Class 52 Rating, Deduct.....	-1,121.82	
			For Class 54 Rating, Add.....	1,538.85	
			For Class 55 Rating, Add.....	2,292.41	
			For Class 56 Rating, Add.....	3,035.79	
40 05 19 00-2775			12" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-2776	EA		12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,470.45	466.40
			For Class 52 Rating, Deduct.....	-194.02	
			For Class 54 Rating, Add.....	273.05	
			For Class 55 Rating, Add.....	410.28	
			For Class 56 Rating, Add.....	545.76	
40 05 19 00-2777	EA		12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,765.26	469.74
			For Class 52 Rating, Deduct.....	-225.89	
			For Class 54 Rating, Add.....	316.57	
			For Class 55 Rating, Add.....	475.02	
			For Class 56 Rating, Add.....	631.42	
40 05 19 00-2778	EA		12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,060.06	473.06
			For Class 52 Rating, Deduct.....	-257.76	
			For Class 54 Rating, Add.....	360.10	
			For Class 55 Rating, Add.....	539.76	
			For Class 56 Rating, Add.....	717.08	
40 05 19 00-2779	EA		12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,354.88	476.40
			For Class 52 Rating, Deduct.....	-289.64	
			For Class 54 Rating, Add.....	403.62	
			For Class 55 Rating, Add.....	604.50	
			For Class 56 Rating, Add.....	802.74	
40 05 19 00-2780	EA		12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,649.69	479.72
			For Class 52 Rating, Deduct.....	-321.51	
			For Class 54 Rating, Add.....	447.15	
			For Class 55 Rating, Add.....	669.24	
			For Class 56 Rating, Add.....	888.40	
40 05 19 00-2781	EA		12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,944.49	483.06
			For Class 52 Rating, Deduct.....	-353.38	
			For Class 54 Rating, Add.....	490.67	
			For Class 55 Rating, Add.....	733.97	
			For Class 56 Rating, Add.....	974.06	
40 05 19 00-2782	EA		12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,239.32	486.39
			For Class 52 Rating, Deduct.....	-385.26	
			For Class 54 Rating, Add.....	534.20	
			For Class 55 Rating, Add.....	798.71	
			For Class 56 Rating, Add.....	1,059.73	
40 05 19 00-2783	EA		12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,534.12	489.72
			For Class 52 Rating, Deduct.....	-417.13	
			For Class 54 Rating, Add.....	577.72	
			For Class 55 Rating, Add.....	863.45	
			For Class 56 Rating, Add.....	1,145.39	
40 05 19 00-2784	EA		12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,828.93	493.05
			For Class 52 Rating, Deduct.....	-449.01	
			For Class 54 Rating, Add.....	621.25	
			For Class 55 Rating, Add.....	928.19	
			For Class 56 Rating, Add.....	1,231.05	
40 05 19 00-2785	EA		12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,123.74	496.39
			For Class 52 Rating, Deduct.....	-480.88	
			For Class 54 Rating, Add.....	664.77	
			For Class 55 Rating, Add.....	992.93	
			For Class 56 Rating, Add.....	1,316.71	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2786	EA	12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,418.56		499.71
		For Class 52 Rating, Deduct	-512.76		
		For Class 54 Rating, Add	708.30		
		For Class 55 Rating, Add	1,057.67		
		For Class 56 Rating, Add	1,402.37		
40 05 19 00-2787	EA	12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,713.36		503.05
		For Class 52 Rating, Deduct	-544.63		
		For Class 54 Rating, Add	751.82		
		For Class 55 Rating, Add	1,122.40		
		For Class 56 Rating, Add	1,488.03		
40 05 19 00-2788	EA	12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,008.17		506.37
		For Class 52 Rating, Deduct	-576.50		
		For Class 54 Rating, Add	795.35		
		For Class 55 Rating, Add	1,187.14		
		For Class 56 Rating, Add	1,573.69		
40 05 19 00-2789	EA	12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,302.99		509.71
		For Class 52 Rating, Deduct	-608.38		
		For Class 54 Rating, Add	838.87		
		For Class 55 Rating, Add	1,251.88		
		For Class 56 Rating, Add	1,659.36		
40 05 19 00-2790	EA	12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,597.79		513.04
		For Class 52 Rating, Deduct	-640.25		
		For Class 54 Rating, Add	882.40		
		For Class 55 Rating, Add	1,316.62		
		For Class 56 Rating, Add	1,745.02		
40 05 19 00-2791	EA	12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,892.61		516.37
		For Class 52 Rating, Deduct	-672.12		
		For Class 54 Rating, Add	925.92		
		For Class 55 Rating, Add	1,381.36		
		For Class 56 Rating, Add	1,830.68		
40 05 19 00-2792	EA	12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,187.42		519.70
		For Class 52 Rating, Deduct	-704.00		
		For Class 54 Rating, Add	969.45		
		For Class 55 Rating, Add	1,446.10		
		For Class 56 Rating, Add	1,916.34		
40 05 19 00-2793	EA	12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,482.23		523.04
		For Class 52 Rating, Deduct	-735.87		
		For Class 54 Rating, Add	1,012.97		
		For Class 55 Rating, Add	1,510.83		
		For Class 56 Rating, Add	2,002.01		
40 05 19 00-2794	EA	12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,777.03		526.36
		For Class 52 Rating, Deduct	-767.75		
		For Class 54 Rating, Add	1,056.50		
		For Class 55 Rating, Add	1,575.57		
		For Class 56 Rating, Add	2,087.67		
40 05 19 00-2795	EA	12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,071.85		529.70
		For Class 52 Rating, Deduct	-799.62		
		For Class 54 Rating, Add	1,100.02		
		For Class 55 Rating, Add	1,640.31		
		For Class 56 Rating, Add	2,173.33		
40 05 19 00-2796	EA	12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,366.66		533.03
		For Class 52 Rating, Deduct	-831.49		
		For Class 54 Rating, Add	1,143.55		
		For Class 55 Rating, Add	1,705.05		
		For Class 56 Rating, Add	2,258.99		
40 05 19 00-2797	EA	12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,661.46		536.36
		For Class 52 Rating, Deduct	-863.37		
		For Class 54 Rating, Add	1,187.07		
		For Class 55 Rating, Add	1,769.79		
		For Class 56 Rating, Add	2,344.65		
40 05 19 00-2798	EA	12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,956.29		539.69
		For Class 52 Rating, Deduct	-895.24		
		For Class 54 Rating, Add	1,230.60		
		For Class 55 Rating, Add	1,834.53		
		For Class 56 Rating, Add	2,430.32		
40 05 19 00-2799	EA	12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,251.09		543.02
		For Class 52 Rating, Deduct	-927.12		
		For Class 54 Rating, Add	1,274.12		
		For Class 55 Rating, Add	1,899.26		
		For Class 56 Rating, Add	2,515.98		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2800	EA	12"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,545.90	546.35
			For Class 52 Rating, Deduct.....	-958.99	
			For Class 54 Rating, Add.....	1,317.65	
			For Class 55 Rating, Add.....	1,964.00	
			For Class 56 Rating, Add.....	2,601.64	
40 05 19 00-2801	EA	12"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,840.72	549.69
			For Class 52 Rating, Deduct.....	-990.86	
			For Class 54 Rating, Add.....	1,361.17	
			For Class 55 Rating, Add.....	2,028.74	
			For Class 56 Rating, Add.....	2,687.30	
40 05 19 00-2802	EA	12"	Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,135.52	553.02
			For Class 52 Rating, Deduct.....	-1,022.74	
			For Class 54 Rating, Add.....	1,404.70	
			For Class 55 Rating, Add.....	2,093.48	
			For Class 56 Rating, Add.....	2,772.96	
40 05 19 00-2803	EA	12"	Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,430.33	556.35
			For Class 52 Rating, Deduct.....	-1,054.61	
			For Class 54 Rating, Add.....	1,448.22	
			For Class 55 Rating, Add.....	2,158.22	
			For Class 56 Rating, Add.....	2,858.62	
40 05 19 00-2804	EA	12"	Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,725.15	559.69
			For Class 52 Rating, Deduct.....	-1,086.49	
			For Class 54 Rating, Add.....	1,491.75	
			For Class 55 Rating, Add.....	2,222.96	
			For Class 56 Rating, Add.....	2,944.29	
40 05 19 00-2805	EA	12"	Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,019.96	563.01
			For Class 52 Rating, Deduct.....	-1,118.36	
			For Class 54 Rating, Add.....	1,535.27	
			For Class 55 Rating, Add.....	2,287.69	
			For Class 56 Rating, Add.....	3,029.95	
40 05 19 00-2806	EA	12"	Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,314.76	566.35
			For Class 52 Rating, Deduct.....	-1,150.23	
			For Class 54 Rating, Add.....	1,578.80	
			For Class 55 Rating, Add.....	2,352.43	
			For Class 56 Rating, Add.....	3,115.61	
40 05 19 00-2807	EA	12"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,609.59	569.67
			For Class 52 Rating, Deduct.....	-1,182.11	
			For Class 54 Rating, Add.....	1,622.32	
			For Class 55 Rating, Add.....	2,417.17	
			For Class 56 Rating, Add.....	3,201.27	
40 05 19 00-2808	EA	12"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,904.39	573.01
			For Class 52 Rating, Deduct.....	-1,213.98	
			For Class 54 Rating, Add.....	1,665.85	
			For Class 55 Rating, Add.....	2,481.91	
			For Class 56 Rating, Add.....	3,286.93	
40 05 19 00-2809	EA	12"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,199.20	576.34
			For Class 52 Rating, Deduct.....	-1,245.86	
			For Class 54 Rating, Add.....	1,709.37	
			For Class 55 Rating, Add.....	2,546.65	
			For Class 56 Rating, Add.....	3,372.59	
40 05 19 00-2810	EA	12"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,494.01	579.67
			For Class 52 Rating, Deduct.....	-1,277.73	
			For Class 54 Rating, Add.....	1,752.90	
			For Class 55 Rating, Add.....	2,611.38	
			For Class 56 Rating, Add.....	3,458.26	
40 05 19 00-2811	EA	12"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,788.82	583.00
			For Class 52 Rating, Deduct.....	-1,309.60	
			For Class 54 Rating, Add.....	1,796.42	
			For Class 55 Rating, Add.....	2,676.12	
			For Class 56 Rating, Add.....	3,543.92	
40 05 19 00-2812	EA	12"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,083.63	586.34
			For Class 52 Rating, Deduct.....	-1,341.48	
			For Class 54 Rating, Add.....	1,839.95	
			For Class 55 Rating, Add.....	2,740.86	
			For Class 56 Rating, Add.....	3,629.58	
40 05 19 00-2813	EA	12"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,378.44	589.66
			For Class 52 Rating, Deduct.....	-1,373.35	
			For Class 54 Rating, Add.....	1,883.47	
			For Class 55 Rating, Add.....	2,805.60	
			For Class 56 Rating, Add.....	3,715.24	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2814	EA	12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,673.26	593.00	
		For Class 52 Rating, Deduct	-1,405.23		
		For Class 54 Rating, Add	1,927.00		
		For Class 55 Rating, Add	2,870.34		
		For Class 56 Rating, Add	3,800.91		
40 05 19 00-2815 14" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)					
40 05 19 00-2816	EA	14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,449.57	559.69	
		For Class 52 Rating, Deduct	-286.17		
		For Class 54 Rating, Add	400.41		
		For Class 55 Rating, Add	600.50		
		For Class 56 Rating, Add	797.99		
40 05 19 00-2817	EA	14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,807.37	563.01	
		For Class 52 Rating, Deduct	-324.98		
		For Class 54 Rating, Add	453.38		
		For Class 55 Rating, Add	679.29		
		For Class 56 Rating, Add	902.23		
40 05 19 00-2818	EA	14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,165.17	566.35	
		For Class 52 Rating, Deduct	-363.78		
		For Class 54 Rating, Add	506.36		
		For Class 55 Rating, Add	758.07		
		For Class 56 Rating, Add	1,006.48		
40 05 19 00-2819	EA	14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,522.99	569.67	
		For Class 52 Rating, Deduct	-402.58		
		For Class 54 Rating, Add	559.33		
		For Class 55 Rating, Add	836.86		
		For Class 56 Rating, Add	1,110.73		
40 05 19 00-2820	EA	14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,880.78	573.01	
		For Class 52 Rating, Deduct	-441.38		
		For Class 54 Rating, Add	612.31		
		For Class 55 Rating, Add	915.64		
		For Class 56 Rating, Add	1,214.97		
40 05 19 00-2821	EA	14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,238.59	576.34	
		For Class 52 Rating, Deduct	-480.19		
		For Class 54 Rating, Add	665.28		
		For Class 55 Rating, Add	994.43		
		For Class 56 Rating, Add	1,319.21		
40 05 19 00-2822	EA	14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,596.39	579.67	
		For Class 52 Rating, Deduct	-518.99		
		For Class 54 Rating, Add	718.25		
		For Class 55 Rating, Add	1,073.22		
		For Class 56 Rating, Add	1,423.46		
40 05 19 00-2823	EA	14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,954.19	583.00	
		For Class 52 Rating, Deduct	-557.79		
		For Class 54 Rating, Add	771.23		
		For Class 55 Rating, Add	1,152.00		
		For Class 56 Rating, Add	1,527.70		
40 05 19 00-2824	EA	14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,311.99	586.34	
		For Class 52 Rating, Deduct	-596.60		
		For Class 54 Rating, Add	824.20		
		For Class 55 Rating, Add	1,230.79		
		For Class 56 Rating, Add	1,631.95		
40 05 19 00-2825	EA	14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,669.80	589.66	
		For Class 52 Rating, Deduct	-635.40		
		For Class 54 Rating, Add	877.18		
		For Class 55 Rating, Add	1,309.57		
		For Class 56 Rating, Add	1,736.19		
40 05 19 00-2826	EA	14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,027.60	593.00	
		For Class 52 Rating, Deduct	-674.20		
		For Class 54 Rating, Add	930.15		
		For Class 55 Rating, Add	1,388.36		
		For Class 56 Rating, Add	1,840.44		
40 05 19 00-2827	EA	14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,385.40	596.32	
		For Class 52 Rating, Deduct	-713.01		
		For Class 54 Rating, Add	983.12		
		For Class 55 Rating, Add	1,467.14		
		For Class 56 Rating, Add	1,944.68		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2828	EA	14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,743.21	599.66
		For Class 52 Rating, Deduct	-751.81	
		For Class 54 Rating, Add	1,036.10	
		For Class 55 Rating, Add	1,545.93	
		For Class 56 Rating, Add	2,048.92	
40 05 19 00-2829	EA	14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,101.01	602.99
		For Class 52 Rating, Deduct	-790.61	
		For Class 54 Rating, Add	1,089.07	
		For Class 55 Rating, Add	1,624.71	
		For Class 56 Rating, Add	2,153.17	
40 05 19 00-2830	EA	14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,458.80	606.32
		For Class 52 Rating, Deduct	-829.42	
		For Class 54 Rating, Add	1,142.04	
		For Class 55 Rating, Add	1,703.50	
		For Class 56 Rating, Add	2,257.41	
40 05 19 00-2831	EA	14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,816.62	609.65
		For Class 52 Rating, Deduct	-868.22	
		For Class 54 Rating, Add	1,195.02	
		For Class 55 Rating, Add	1,782.29	
		For Class 56 Rating, Add	2,361.66	
40 05 19 00-2832	EA	14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,174.41	612.99
		For Class 52 Rating, Deduct	-907.02	
		For Class 54 Rating, Add	1,247.99	
		For Class 55 Rating, Add	1,861.07	
		For Class 56 Rating, Add	2,465.90	
40 05 19 00-2833	EA	14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,532.22	616.31
		For Class 52 Rating, Deduct	-945.83	
		For Class 54 Rating, Add	1,300.97	
		For Class 55 Rating, Add	1,939.86	
		For Class 56 Rating, Add	2,570.15	
40 05 19 00-2834	EA	14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,890.02	619.65
		For Class 52 Rating, Deduct	-984.63	
		For Class 54 Rating, Add	1,353.94	
		For Class 55 Rating, Add	2,018.64	
		For Class 56 Rating, Add	2,674.39	
40 05 19 00-2835	EA	14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,247.83	622.97
		For Class 52 Rating, Deduct	-1,023.43	
		For Class 54 Rating, Add	1,406.91	
		For Class 55 Rating, Add	2,097.43	
		For Class 56 Rating, Add	2,778.64	
40 05 19 00-2836	EA	14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,605.62	626.31
		For Class 52 Rating, Deduct	-1,062.23	
		For Class 54 Rating, Add	1,459.89	
		For Class 55 Rating, Add	2,176.21	
		For Class 56 Rating, Add	2,882.88	
40 05 19 00-2837	EA	14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,963.44	629.64
		For Class 52 Rating, Deduct	-1,101.04	
		For Class 54 Rating, Add	1,512.86	
		For Class 55 Rating, Add	2,255.00	
		For Class 56 Rating, Add	2,987.13	
40 05 19 00-2838	EA	14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,321.23	632.97
		For Class 52 Rating, Deduct	-1,139.84	
		For Class 54 Rating, Add	1,565.84	
		For Class 55 Rating, Add	2,333.78	
		For Class 56 Rating, Add	3,091.37	
40 05 19 00-2839	EA	14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,679.03	636.30
		For Class 52 Rating, Deduct	-1,178.64	
		For Class 54 Rating, Add	1,618.81	
		For Class 55 Rating, Add	2,412.57	
		For Class 56 Rating, Add	3,195.61	
40 05 19 00-2840	EA	14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,036.84	639.64
		For Class 52 Rating, Deduct	-1,217.45	
		For Class 54 Rating, Add	1,671.78	
		For Class 55 Rating, Add	2,491.35	
		For Class 56 Rating, Add	3,299.86	
40 05 19 00-2841	EA	14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,394.64	642.96
		For Class 52 Rating, Deduct	-1,256.25	
		For Class 54 Rating, Add	1,724.76	
		For Class 55 Rating, Add	2,570.14	
		For Class 56 Rating, Add	3,404.10	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2842	EA	14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,752.44		646.30
		For Class 52 Rating, Deduct.....	-1,295.05		
		For Class 54 Rating, Add.....	1,777.73		
		For Class 55 Rating, Add.....	2,648.93		
		For Class 56 Rating, Add.....	3,508.35		
40 05 19 00-2843	EA	14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,110.25		649.63
		For Class 52 Rating, Deduct.....	-1,333.86		
		For Class 54 Rating, Add.....	1,830.71		
		For Class 55 Rating, Add.....	2,727.71		
		For Class 56 Rating, Add.....	3,612.59		
40 05 19 00-2844	EA	14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,468.06		652.96
		For Class 52 Rating, Deduct.....	-1,372.66		
		For Class 54 Rating, Add.....	1,883.68		
		For Class 55 Rating, Add.....	2,806.50		
		For Class 56 Rating, Add.....	3,716.84		
40 05 19 00-2845	EA	14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,825.85		656.29
		For Class 52 Rating, Deduct.....	-1,411.46		
		For Class 54 Rating, Add.....	1,936.65		
		For Class 55 Rating, Add.....	2,885.28		
		For Class 56 Rating, Add.....	3,821.08		
40 05 19 00-2846	EA	14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,183.66		659.62
		For Class 52 Rating, Deduct.....	-1,450.27		
		For Class 54 Rating, Add.....	1,989.63		
		For Class 55 Rating, Add.....	2,964.07		
		For Class 56 Rating, Add.....	3,925.33		
40 05 19 00-2847	EA	14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,541.46		662.95
		For Class 52 Rating, Deduct.....	-1,489.07		
		For Class 54 Rating, Add.....	2,042.60		
		For Class 55 Rating, Add.....	3,042.85		
		For Class 56 Rating, Add.....	4,029.57		
40 05 19 00-2848	EA	14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,899.26		666.29
		For Class 52 Rating, Deduct.....	-1,527.87		
		For Class 54 Rating, Add.....	2,095.58		
		For Class 55 Rating, Add.....	3,121.64		
		For Class 56 Rating, Add.....	4,133.82		
40 05 19 00-2849	EA	14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,257.06		669.62
		For Class 52 Rating, Deduct.....	-1,566.67		
		For Class 54 Rating, Add.....	2,148.55		
		For Class 55 Rating, Add.....	3,200.42		
		For Class 56 Rating, Add.....	4,238.06		
40 05 19 00-2850	EA	14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,614.87		672.95
		For Class 52 Rating, Deduct.....	-1,605.48		
		For Class 54 Rating, Add.....	2,201.52		
		For Class 55 Rating, Add.....	3,279.21		
		For Class 56 Rating, Add.....	4,342.31		
40 05 19 00-2851	EA	14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,972.67		676.29
		For Class 52 Rating, Deduct.....	-1,644.28		
		For Class 54 Rating, Add.....	2,254.50		
		For Class 55 Rating, Add.....	3,358.00		
		For Class 56 Rating, Add.....	4,446.55		
40 05 19 00-2852	EA	14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,330.47		679.61
		For Class 52 Rating, Deduct.....	-1,683.08		
		For Class 54 Rating, Add.....	2,307.47		
		For Class 55 Rating, Add.....	3,436.78		
		For Class 56 Rating, Add.....	4,550.79		
40 05 19 00-2853	EA	14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,688.28		682.95
		For Class 52 Rating, Deduct.....	-1,721.89		
		For Class 54 Rating, Add.....	2,360.44		
		For Class 55 Rating, Add.....	3,515.57		
		For Class 56 Rating, Add.....	4,655.04		
40 05 19 00-2854		16" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....			
		(40 05 19 00-2814)			
40 05 19 00-2855	EA	16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,040.01		639.64
		For Class 52 Rating, Deduct.....	-337.79		
		For Class 54 Rating, Add.....	472.26		
		For Class 55 Rating, Add.....	708.06		
		For Class 56 Rating, Add.....	940.79		



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2856	EA	16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,454.50	642.96
		For Class 52 Rating, Deduct	-382.83	
		For Class 54 Rating, Add	533.74	
		For Class 55 Rating, Add	799.49	
		For Class 56 Rating, Add	1,061.76	
40 05 19 00-2857	EA	16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,869.00	646.30
		For Class 52 Rating, Deduct	-427.87	
		For Class 54 Rating, Add	595.21	
		For Class 55 Rating, Add	890.92	
		For Class 56 Rating, Add	1,182.73	
40 05 19 00-2858	EA	16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,283.49	649.63
		For Class 52 Rating, Deduct	-472.91	
		For Class 54 Rating, Add	656.69	
		For Class 55 Rating, Add	982.34	
		For Class 56 Rating, Add	1,303.70	
40 05 19 00-2859	EA	16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,697.99	652.96
		For Class 52 Rating, Deduct	-517.95	
		For Class 54 Rating, Add	718.17	
		For Class 55 Rating, Add	1,073.77	
		For Class 56 Rating, Add	1,424.67	
40 05 19 00-2860	EA	16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,112.48	656.29
		For Class 52 Rating, Deduct	-562.99	
		For Class 54 Rating, Add	779.65	
		For Class 55 Rating, Add	1,165.20	
		For Class 56 Rating, Add	1,545.64	
40 05 19 00-2861	EA	16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,526.98	659.62
		For Class 52 Rating, Deduct	-608.03	
		For Class 54 Rating, Add	841.13	
		For Class 55 Rating, Add	1,256.63	
		For Class 56 Rating, Add	1,666.61	
40 05 19 00-2862	EA	16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,941.48	662.95
		For Class 52 Rating, Deduct	-653.07	
		For Class 54 Rating, Add	902.60	
		For Class 55 Rating, Add	1,348.06	
		For Class 56 Rating, Add	1,787.58	
40 05 19 00-2863	EA	16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,355.96	666.29
		For Class 52 Rating, Deduct	-698.11	
		For Class 54 Rating, Add	964.08	
		For Class 55 Rating, Add	1,439.48	
		For Class 56 Rating, Add	1,908.54	
40 05 19 00-2864	EA	16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,770.46	669.62
		For Class 52 Rating, Deduct	-743.15	
		For Class 54 Rating, Add	1,025.56	
		For Class 55 Rating, Add	1,530.91	
		For Class 56 Rating, Add	2,029.51	
40 05 19 00-2865	EA	16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,184.96	672.95
		For Class 52 Rating, Deduct	-788.19	
		For Class 54 Rating, Add	1,087.04	
		For Class 55 Rating, Add	1,622.34	
		For Class 56 Rating, Add	2,150.48	
40 05 19 00-2866	EA	16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,599.46	676.29
		For Class 52 Rating, Deduct	-833.23	
		For Class 54 Rating, Add	1,148.51	
		For Class 55 Rating, Add	1,713.77	
		For Class 56 Rating, Add	2,271.45	
40 05 19 00-2867	EA	16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,013.95	679.61
		For Class 52 Rating, Deduct	-878.27	
		For Class 54 Rating, Add	1,209.99	
		For Class 55 Rating, Add	1,805.20	
		For Class 56 Rating, Add	2,392.42	
40 05 19 00-2868	EA	16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,428.45	682.95
		For Class 52 Rating, Deduct	-923.30	
		For Class 54 Rating, Add	1,271.47	
		For Class 55 Rating, Add	1,896.63	
		For Class 56 Rating, Add	2,513.39	
40 05 19 00-2869	EA	16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,842.94	686.27
		For Class 52 Rating, Deduct	-968.34	
		For Class 54 Rating, Add	1,332.95	
		For Class 55 Rating, Add	1,988.05	
		For Class 56 Rating, Add	2,634.36	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2870	EA	16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,257.43		689.61
		For Class 52 Rating, Deduct	-1,013.38		
		For Class 54 Rating, Add	1,394.43		
		For Class 55 Rating, Add	2,079.48		
		For Class 56 Rating, Add	2,755.33		
40 05 19 00-2871	EA	16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,671.94		692.94
		For Class 52 Rating, Deduct	-1,058.42		
		For Class 54 Rating, Add	1,455.90		
		For Class 55 Rating, Add	2,170.91		
		For Class 56 Rating, Add	2,876.30		
40 05 19 00-2872	EA	16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,086.43		696.27
		For Class 52 Rating, Deduct	-1,103.46		
		For Class 54 Rating, Add	1,517.38		
		For Class 55 Rating, Add	2,262.34		
		For Class 56 Rating, Add	2,997.26		
40 05 19 00-2873	EA	16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,500.92		699.60
		For Class 52 Rating, Deduct	-1,148.50		
		For Class 54 Rating, Add	1,578.86		
		For Class 55 Rating, Add	2,353.77		
		For Class 56 Rating, Add	3,118.23		
40 05 19 00-2874	EA	16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,915.42		702.94
		For Class 52 Rating, Deduct	-1,193.54		
		For Class 54 Rating, Add	1,640.34		
		For Class 55 Rating, Add	2,445.19		
		For Class 56 Rating, Add	3,239.20		
40 05 19 00-2875	EA	16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,329.92		706.26
		For Class 52 Rating, Deduct	-1,238.58		
		For Class 54 Rating, Add	1,701.81		
		For Class 55 Rating, Add	2,536.62		
		For Class 56 Rating, Add	3,360.17		
40 05 19 00-2876	EA	16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,744.41		709.60
		For Class 52 Rating, Deduct	-1,283.62		
		For Class 54 Rating, Add	1,763.29		
		For Class 55 Rating, Add	2,628.05		
		For Class 56 Rating, Add	3,481.14		
40 05 19 00-2877	EA	16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,158.91		712.92
		For Class 52 Rating, Deduct	-1,328.66		
		For Class 54 Rating, Add	1,824.77		
		For Class 55 Rating, Add	2,719.48		
		For Class 56 Rating, Add	3,602.11		
40 05 19 00-2878	EA	16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,573.40		716.26
		For Class 52 Rating, Deduct	-1,373.70		
		For Class 54 Rating, Add	1,886.25		
		For Class 55 Rating, Add	2,810.91		
		For Class 56 Rating, Add	3,723.08		
40 05 19 00-2879	EA	16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,987.89		719.59
		For Class 52 Rating, Deduct	-1,418.74		
		For Class 54 Rating, Add	1,947.72		
		For Class 55 Rating, Add	2,902.33		
		For Class 56 Rating, Add	3,844.05		
40 05 19 00-2880	EA	16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,402.40		722.92
		For Class 52 Rating, Deduct	-1,463.78		
		For Class 54 Rating, Add	2,009.20		
		For Class 55 Rating, Add	2,993.76		
		For Class 56 Rating, Add	3,965.01		
40 05 19 00-2881	EA	16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,816.89		726.25
		For Class 52 Rating, Deduct	-1,508.82		
		For Class 54 Rating, Add	2,070.68		
		For Class 55 Rating, Add	3,085.19		
		For Class 56 Rating, Add	4,085.98		
40 05 19 00-2882	EA	16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,231.39		729.59
		For Class 52 Rating, Deduct	-1,553.86		
		For Class 54 Rating, Add	2,132.16		
		For Class 55 Rating, Add	3,176.62		
		For Class 56 Rating, Add	4,206.95		
40 05 19 00-2883	EA	16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,645.88		732.91
		For Class 52 Rating, Deduct	-1,598.89		
		For Class 54 Rating, Add	2,193.64		
		For Class 55 Rating, Add	3,268.05		
		For Class 56 Rating, Add	4,327.92		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2884	EA		16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,060.38	736.25
			For Class 52 Rating, Deduct.....	-1,643.93	
			For Class 54 Rating, Add.....	2,255.11	
			For Class 55 Rating, Add.....	3,359.47	
			For Class 56 Rating, Add.....	4,448.89	
40 05 19 00-2885	EA		16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,474.87	739.57
			For Class 52 Rating, Deduct.....	-1,688.97	
			For Class 54 Rating, Add.....	2,316.59	
			For Class 55 Rating, Add.....	3,450.90	
			For Class 56 Rating, Add.....	4,569.86	
40 05 19 00-2886	EA		16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,889.37	742.91
			For Class 52 Rating, Deduct.....	-1,734.01	
			For Class 54 Rating, Add.....	2,378.07	
			For Class 55 Rating, Add.....	3,542.33	
			For Class 56 Rating, Add.....	4,690.83	
40 05 19 00-2887	EA		16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,303.87	746.24
			For Class 52 Rating, Deduct.....	-1,779.05	
			For Class 54 Rating, Add.....	2,439.55	
			For Class 55 Rating, Add.....	3,633.76	
			For Class 56 Rating, Add.....	4,811.80	
40 05 19 00-2888	EA		16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,718.35	749.57
			For Class 52 Rating, Deduct.....	-1,824.09	
			For Class 54 Rating, Add.....	2,501.02	
			For Class 55 Rating, Add.....	3,725.19	
			For Class 56 Rating, Add.....	4,932.76	
40 05 19 00-2889	EA		16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,132.86	752.90
			For Class 52 Rating, Deduct.....	-1,869.13	
			For Class 54 Rating, Add.....	2,562.50	
			For Class 55 Rating, Add.....	3,816.61	
			For Class 56 Rating, Add.....	5,053.73	
40 05 19 00-2890	EA		16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,547.35	756.24
			For Class 52 Rating, Deduct.....	-1,914.17	
			For Class 54 Rating, Add.....	2,623.98	
			For Class 55 Rating, Add.....	3,908.04	
			For Class 56 Rating, Add.....	5,174.70	
40 05 19 00-2891	EA		16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,961.85	759.56
			For Class 52 Rating, Deduct.....	-1,959.21	
			For Class 54 Rating, Add.....	2,685.46	
			For Class 55 Rating, Add.....	3,999.47	
			For Class 56 Rating, Add.....	5,295.67	
40 05 19 00-2892	EA		16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,376.35	762.90
			For Class 52 Rating, Deduct.....	-2,004.25	
			For Class 54 Rating, Add.....	2,746.94	
			For Class 55 Rating, Add.....	4,090.90	
			For Class 56 Rating, Add.....	5,416.64	
40 05 19 00-2893			18" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-2894	EA		18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,730.10	720.93
			For Class 52 Rating, Deduct.....	-400.16	
			For Class 54 Rating, Add.....	558.78	
			For Class 55 Rating, Add.....	837.44	
			For Class 56 Rating, Add.....	1,112.47	
40 05 19 00-2895	EA		18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,207.59	724.25
			For Class 52 Rating, Deduct.....	-452.13	
			For Class 54 Rating, Add.....	629.70	
			For Class 55 Rating, Add.....	942.92	
			For Class 56 Rating, Add.....	1,252.02	
40 05 19 00-2896	EA		18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,685.07	727.59
			For Class 52 Rating, Deduct.....	-504.09	
			For Class 54 Rating, Add.....	700.63	
			For Class 55 Rating, Add.....	1,048.39	
			For Class 56 Rating, Add.....	1,391.57	
40 05 19 00-2897	EA		18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,162.55	730.92
			For Class 52 Rating, Deduct.....	-556.06	
			For Class 54 Rating, Add.....	771.56	
			For Class 55 Rating, Add.....	1,153.87	
			For Class 56 Rating, Add.....	1,531.13	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2898	EA	18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,640.05		734.25
		For Class 52 Rating, Deduct	-608.03		
		For Class 54 Rating, Add	842.48		
		For Class 55 Rating, Add	1,259.34		
		For Class 56 Rating, Add	1,670.68		
40 05 19 00-2899	EA	18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,117.53		737.58
		For Class 52 Rating, Deduct	-660.00		
		For Class 54 Rating, Add	913.41		
		For Class 55 Rating, Add	1,364.82		
		For Class 56 Rating, Add	1,810.23		
40 05 19 00-2900	EA	18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,595.02		740.92
		For Class 52 Rating, Deduct	-711.97		
		For Class 54 Rating, Add	984.34		
		For Class 55 Rating, Add	1,470.29		
		For Class 56 Rating, Add	1,949.78		
40 05 19 00-2901	EA	18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,072.51		744.25
		For Class 52 Rating, Deduct	-763.94		
		For Class 54 Rating, Add	1,055.26		
		For Class 55 Rating, Add	1,575.77		
		For Class 56 Rating, Add	2,089.33		
40 05 19 00-2902	EA	18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,550.00		747.58
		For Class 52 Rating, Deduct	-815.90		
		For Class 54 Rating, Add	1,126.19		
		For Class 55 Rating, Add	1,681.24		
		For Class 56 Rating, Add	2,228.88		
40 05 19 00-2903	EA	18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,027.48		750.91
		For Class 52 Rating, Deduct	-867.87		
		For Class 54 Rating, Add	1,197.12		
		For Class 55 Rating, Add	1,786.72		
		For Class 56 Rating, Add	2,368.43		
40 05 19 00-2904	EA	18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,504.97		754.24
		For Class 52 Rating, Deduct	-919.84		
		For Class 54 Rating, Add	1,268.04		
		For Class 55 Rating, Add	1,892.20		
		For Class 56 Rating, Add	2,507.99		
40 05 19 00-2905	EA	18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,982.46		757.58
		For Class 52 Rating, Deduct	-971.81		
		For Class 54 Rating, Add	1,338.97		
		For Class 55 Rating, Add	1,997.67		
		For Class 56 Rating, Add	2,647.54		
40 05 19 00-2906	EA	18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,459.94		760.90
		For Class 52 Rating, Deduct	-1,023.78		
		For Class 54 Rating, Add	1,409.89		
		For Class 55 Rating, Add	2,103.15		
		For Class 56 Rating, Add	2,787.09		
40 05 19 00-2907	EA	18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,937.44		764.24
		For Class 52 Rating, Deduct	-1,075.75		
		For Class 54 Rating, Add	1,480.82		
		For Class 55 Rating, Add	2,208.62		
		For Class 56 Rating, Add	2,926.64		
40 05 19 00-2908	EA	18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,414.92		767.57
		For Class 52 Rating, Deduct	-1,127.71		
		For Class 54 Rating, Add	1,551.75		
		For Class 55 Rating, Add	2,314.10		
		For Class 56 Rating, Add	3,066.19		
40 05 19 00-2909	EA	18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,892.41		770.90
		For Class 52 Rating, Deduct	-1,179.68		
		For Class 54 Rating, Add	1,622.67		
		For Class 55 Rating, Add	2,419.57		
		For Class 56 Rating, Add	3,205.74		
40 05 19 00-2910	EA	18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,369.90		774.23
		For Class 52 Rating, Deduct	-1,231.65		
		For Class 54 Rating, Add	1,693.60		
		For Class 55 Rating, Add	2,525.05		
		For Class 56 Rating, Add	3,345.30		
40 05 19 00-2911	EA	18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,847.39		777.56
		For Class 52 Rating, Deduct	-1,283.62		
		For Class 54 Rating, Add	1,764.53		
		For Class 55 Rating, Add	2,630.52		
		For Class 56 Rating, Add	3,484.85		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2912	EA	18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	13,324.87	780.89
		For Class 52 Rating, Deduct	-1,335.59	
		For Class 54 Rating, Add	1,835.45	
		For Class 55 Rating, Add	2,736.00	
		For Class 56 Rating, Add	3,624.40	
40 05 19 00-2913	EA	18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	13,802.36	784.23
		For Class 52 Rating, Deduct	-1,387.56	
		For Class 54 Rating, Add	1,906.38	
		For Class 55 Rating, Add	2,841.47	
		For Class 56 Rating, Add	3,763.95	
40 05 19 00-2914	EA	18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	14,279.85	787.55
		For Class 52 Rating, Deduct	-1,439.52	
		For Class 54 Rating, Add	1,977.31	
		For Class 55 Rating, Add	2,946.95	
		For Class 56 Rating, Add	3,903.50	
40 05 19 00-2915	EA	18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	14,757.33	790.89
		For Class 52 Rating, Deduct	-1,491.49	
		For Class 54 Rating, Add	2,048.23	
		For Class 55 Rating, Add	3,052.42	
		For Class 56 Rating, Add	4,043.05	
40 05 19 00-2916	EA	18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	15,234.83	794.22
		For Class 52 Rating, Deduct	-1,543.46	
		For Class 54 Rating, Add	2,119.16	
		For Class 55 Rating, Add	3,157.90	
		For Class 56 Rating, Add	4,182.60	
40 05 19 00-2917	EA	18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	15,712.31	797.55
		For Class 52 Rating, Deduct	-1,595.43	
		For Class 54 Rating, Add	2,190.09	
		For Class 55 Rating, Add	3,263.37	
		For Class 56 Rating, Add	4,322.16	
40 05 19 00-2918	EA	18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	16,189.80	800.88
		For Class 52 Rating, Deduct	-1,647.40	
		For Class 54 Rating, Add	2,261.01	
		For Class 55 Rating, Add	3,368.85	
		For Class 56 Rating, Add	4,461.71	
40 05 19 00-2919	EA	18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	16,667.29	804.22
		For Class 52 Rating, Deduct	-1,699.37	
		For Class 54 Rating, Add	2,331.94	
		For Class 55 Rating, Add	3,474.32	
		For Class 56 Rating, Add	4,601.26	
40 05 19 00-2920	EA	18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	17,144.77	807.54
		For Class 52 Rating, Deduct	-1,751.34	
		For Class 54 Rating, Add	2,402.87	
		For Class 55 Rating, Add	3,579.80	
		For Class 56 Rating, Add	4,740.81	
40 05 19 00-2921	EA	18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	17,622.26	810.88
		For Class 52 Rating, Deduct	-1,803.30	
		For Class 54 Rating, Add	2,473.79	
		For Class 55 Rating, Add	3,685.27	
		For Class 56 Rating, Add	4,880.36	
40 05 19 00-2922	EA	18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	18,099.75	814.20
		For Class 52 Rating, Deduct	-1,855.27	
		For Class 54 Rating, Add	2,544.72	
		For Class 55 Rating, Add	3,790.75	
		For Class 56 Rating, Add	5,019.91	
40 05 19 00-2923	EA	18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	18,577.24	817.54
		For Class 52 Rating, Deduct	-1,907.24	
		For Class 54 Rating, Add	2,615.65	
		For Class 55 Rating, Add	3,896.23	
		For Class 56 Rating, Add	5,159.47	
40 05 19 00-2924	EA	18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	19,054.72	820.87
		For Class 52 Rating, Deduct	-1,959.21	
		For Class 54 Rating, Add	2,686.57	
		For Class 55 Rating, Add	4,001.70	
		For Class 56 Rating, Add	5,299.02	
40 05 19 00-2925	EA	18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	19,532.22	824.20
		For Class 52 Rating, Deduct	-2,011.18	
		For Class 54 Rating, Add	2,757.50	
		For Class 55 Rating, Add	4,107.18	
		For Class 56 Rating, Add	5,438.57	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2926	EA	18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		20,009.70	827.53
		For Class 52 Rating, Deduct.....		-2,063.15	
		For Class 54 Rating, Add.....		2,828.43	
		For Class 55 Rating, Add.....		4,212.65	
		For Class 56 Rating, Add.....		5,578.12	
40 05 19 00-2927	EA	18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		20,487.19	830.87
		For Class 52 Rating, Deduct.....		-2,115.11	
		For Class 54 Rating, Add.....		2,899.35	
		For Class 55 Rating, Add.....		4,318.13	
		For Class 56 Rating, Add.....		5,717.67	
40 05 19 00-2928	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		20,964.68	834.19
		For Class 52 Rating, Deduct.....		-2,167.08	
		For Class 54 Rating, Add.....		2,970.28	
		For Class 55 Rating, Add.....		4,423.60	
		For Class 56 Rating, Add.....		5,857.22	
40 05 19 00-2929	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		21,442.16	837.53
		For Class 52 Rating, Deduct.....		-2,219.05	
		For Class 54 Rating, Add.....		3,041.21	
		For Class 55 Rating, Add.....		4,529.08	
		For Class 56 Rating, Add.....		5,996.77	
40 05 19 00-2930	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		21,919.65	840.85
		For Class 52 Rating, Deduct.....		-2,271.02	
		For Class 54 Rating, Add.....		3,112.13	
		For Class 55 Rating, Add.....		4,634.55	
		For Class 56 Rating, Add.....		6,136.33	
40 05 19 00-2931	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		22,397.14	844.19
		For Class 52 Rating, Deduct.....		-2,322.99	
		For Class 54 Rating, Add.....		3,183.06	
		For Class 55 Rating, Add.....		4,740.03	
		For Class 56 Rating, Add.....		6,275.88	
40 05 19 00-2932		20" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)			
40 05 19 00-2933	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		5,482.97	822.86
		For Class 52 Rating, Deduct.....		-465.98	
		For Class 54 Rating, Add.....		650.39	
		For Class 55 Rating, Add.....		974.60	
		For Class 56 Rating, Add.....		1,294.57	
40 05 19 00-2934	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		6,026.60	826.20
		For Class 52 Rating, Deduct.....		-525.23	
		For Class 54 Rating, Add.....		731.24	
		For Class 55 Rating, Add.....		1,094.82	
		For Class 56 Rating, Add.....		1,453.63	
40 05 19 00-2935	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		6,570.24	829.52
		For Class 52 Rating, Deduct.....		-584.47	
		For Class 54 Rating, Add.....		812.09	
		For Class 55 Rating, Add.....		1,215.05	
		For Class 56 Rating, Add.....		1,612.69	
40 05 19 00-2936	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		7,113.86	832.86
		For Class 52 Rating, Deduct.....		-643.72	
		For Class 54 Rating, Add.....		892.94	
		For Class 55 Rating, Add.....		1,335.27	
		For Class 56 Rating, Add.....		1,771.76	
40 05 19 00-2937	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		7,657.50	836.19
		For Class 52 Rating, Deduct.....		-702.96	
		For Class 54 Rating, Add.....		973.78	
		For Class 55 Rating, Add.....		1,455.50	
		For Class 56 Rating, Add.....		1,930.82	
40 05 19 00-2938	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,201.12	839.52
		For Class 52 Rating, Deduct.....		-762.20	
		For Class 54 Rating, Add.....		1,054.63	
		For Class 55 Rating, Add.....		1,575.72	
		For Class 56 Rating, Add.....		2,089.88	
40 05 19 00-2939	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		8,744.74	842.85
		For Class 52 Rating, Deduct.....		-821.45	
		For Class 54 Rating, Add.....		1,135.48	
		For Class 55 Rating, Add.....		1,695.95	
		For Class 56 Rating, Add.....		2,248.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2940	EA	20"	Flanged x Grooved (F&G), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,288.38	846.19
			For Class 52 Rating, Deduct	-880.69	
			For Class 54 Rating, Add	1,216.33	
			For Class 55 Rating, Add	1,816.17	
			For Class 56 Rating, Add	2,408.01	
40 05 19 00-2941	EA	20"	Flanged x Grooved (F&G), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,832.00	849.51
			For Class 52 Rating, Deduct	-939.93	
			For Class 54 Rating, Add	1,297.17	
			For Class 55 Rating, Add	1,936.40	
			For Class 56 Rating, Add	2,567.07	
40 05 19 00-2942	EA	20"	Flanged x Grooved (F&G), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,375.64	852.85
			For Class 52 Rating, Deduct	-999.18	
			For Class 54 Rating, Add	1,378.02	
			For Class 55 Rating, Add	2,056.62	
			For Class 56 Rating, Add	2,726.14	
40 05 19 00-2943	EA	20"	Flanged x Grooved (F&G), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,919.27	856.17
			For Class 52 Rating, Deduct	-1,058.42	
			For Class 54 Rating, Add	1,458.87	
			For Class 55 Rating, Add	2,176.85	
			For Class 56 Rating, Add	2,885.20	
40 05 19 00-2944	EA	20"	Flanged x Grooved (F&G), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,462.90	859.51
			For Class 52 Rating, Deduct	-1,117.67	
			For Class 54 Rating, Add	1,539.72	
			For Class 55 Rating, Add	2,297.07	
			For Class 56 Rating, Add	3,044.26	
40 05 19 00-2945	EA	20"	Flanged x Grooved (F&G), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,006.52	862.84
			For Class 52 Rating, Deduct	-1,176.91	
			For Class 54 Rating, Add	1,620.57	
			For Class 55 Rating, Add	2,417.30	
			For Class 56 Rating, Add	3,203.32	
40 05 19 00-2946	EA	20"	Flanged x Grooved (F&G), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,550.16	866.17
			For Class 52 Rating, Deduct	-1,236.15	
			For Class 54 Rating, Add	1,701.41	
			For Class 55 Rating, Add	2,537.52	
			For Class 56 Rating, Add	3,362.39	
40 05 19 00-2947	EA	20"	Flanged x Grooved (F&G), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,093.78	869.50
			For Class 52 Rating, Deduct	-1,295.40	
			For Class 54 Rating, Add	1,782.26	
			For Class 55 Rating, Add	2,657.74	
			For Class 56 Rating, Add	3,521.45	
40 05 19 00-2948	EA	20"	Flanged x Grooved (F&G), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,637.41	872.84
			For Class 52 Rating, Deduct	-1,354.64	
			For Class 54 Rating, Add	1,863.11	
			For Class 55 Rating, Add	2,777.97	
			For Class 56 Rating, Add	3,680.52	
40 05 19 00-2949	EA	20"	Flanged x Grooved (F&G), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,181.05	876.16
			For Class 52 Rating, Deduct	-1,413.89	
			For Class 54 Rating, Add	1,943.96	
			For Class 55 Rating, Add	2,898.20	
			For Class 56 Rating, Add	3,839.58	
40 05 19 00-2950	EA	20"	Flanged x Grooved (F&G), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,724.67	879.50
			For Class 52 Rating, Deduct	-1,473.13	
			For Class 54 Rating, Add	2,024.81	
			For Class 55 Rating, Add	3,018.42	
			For Class 56 Rating, Add	3,998.64	
40 05 19 00-2951	EA	20"	Flanged x Grooved (F&G), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,268.30	882.82
			For Class 52 Rating, Deduct	-1,532.37	
			For Class 54 Rating, Add	2,105.65	
			For Class 55 Rating, Add	3,138.64	
			For Class 56 Rating, Add	4,157.70	
40 05 19 00-2952	EA	20"	Flanged x Grooved (F&G), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,811.93	886.16
			For Class 52 Rating, Deduct	-1,591.62	
			For Class 54 Rating, Add	2,186.50	
			For Class 55 Rating, Add	3,258.87	
			For Class 56 Rating, Add	4,316.77	
40 05 19 00-2953	EA	20"	Flanged x Grooved (F&G), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,355.56	889.50
			For Class 52 Rating, Deduct	-1,650.86	
			For Class 54 Rating, Add	2,267.35	
			For Class 55 Rating, Add	3,379.09	
			For Class 56 Rating, Add	4,475.83	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2954	EA	20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	16,899.19		892.82
		For Class 52 Rating, Deduct.....	-1,710.11		
		For Class 54 Rating, Add.....	2,348.20		
		For Class 55 Rating, Add.....	3,499.32		
		For Class 56 Rating, Add.....	4,634.90		
40 05 19 00-2955	EA	20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	17,442.82		896.16
		For Class 52 Rating, Deduct.....	-1,769.35		
		For Class 54 Rating, Add.....	2,429.05		
		For Class 55 Rating, Add.....	3,619.54		
		For Class 56 Rating, Add.....	4,793.96		
40 05 19 00-2956	EA	20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	17,986.45		899.49
		For Class 52 Rating, Deduct.....	-1,828.59		
		For Class 54 Rating, Add.....	2,509.89		
		For Class 55 Rating, Add.....	3,739.77		
		For Class 56 Rating, Add.....	4,953.02		
40 05 19 00-2957	EA	20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	18,530.07		902.82
		For Class 52 Rating, Deduct.....	-1,887.84		
		For Class 54 Rating, Add.....	2,590.74		
		For Class 55 Rating, Add.....	3,859.99		
		For Class 56 Rating, Add.....	5,112.08		
40 05 19 00-2958	EA	20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	19,073.71		906.15
		For Class 52 Rating, Deduct.....	-1,947.08		
		For Class 54 Rating, Add.....	2,671.59		
		For Class 55 Rating, Add.....	3,980.22		
		For Class 56 Rating, Add.....	5,271.15		
40 05 19 00-2959	EA	20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	19,617.33		909.49
		For Class 52 Rating, Deduct.....	-2,006.33		
		For Class 54 Rating, Add.....	2,752.44		
		For Class 55 Rating, Add.....	4,100.44		
		For Class 56 Rating, Add.....	5,430.21		
40 05 19 00-2960	EA	20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	20,160.97		912.81
		For Class 52 Rating, Deduct.....	-2,065.57		
		For Class 54 Rating, Add.....	2,833.28		
		For Class 55 Rating, Add.....	4,220.67		
		For Class 56 Rating, Add.....	5,589.28		
40 05 19 00-2961	EA	20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	20,704.60		916.15
		For Class 52 Rating, Deduct.....	-2,124.82		
		For Class 54 Rating, Add.....	2,914.13		
		For Class 55 Rating, Add.....	4,340.89		
		For Class 56 Rating, Add.....	5,748.34		
40 05 19 00-2962	EA	20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	21,248.23		919.47
		For Class 52 Rating, Deduct.....	-2,184.06		
		For Class 54 Rating, Add.....	2,994.98		
		For Class 55 Rating, Add.....	4,461.12		
		For Class 56 Rating, Add.....	5,907.40		
40 05 19 00-2963	EA	20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	21,791.85		922.81
		For Class 52 Rating, Deduct.....	-2,243.30		
		For Class 54 Rating, Add.....	3,075.83		
		For Class 55 Rating, Add.....	4,581.34		
		For Class 56 Rating, Add.....	6,066.46		
40 05 19 00-2964	EA	20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	22,335.48		926.14
		For Class 52 Rating, Deduct.....	-2,302.55		
		For Class 54 Rating, Add.....	3,156.67		
		For Class 55 Rating, Add.....	4,701.57		
		For Class 56 Rating, Add.....	6,225.53		
40 05 19 00-2965	EA	20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	22,879.11		929.47
		For Class 52 Rating, Deduct.....	-2,361.79		
		For Class 54 Rating, Add.....	3,237.52		
		For Class 55 Rating, Add.....	4,821.79		
		For Class 56 Rating, Add.....	6,384.59		
40 05 19 00-2966	EA	20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	23,422.73		932.80
		For Class 52 Rating, Deduct.....	-2,421.03		
		For Class 54 Rating, Add.....	3,318.37		
		For Class 55 Rating, Add.....	4,942.02		
		For Class 56 Rating, Add.....	6,543.65		
40 05 19 00-2967	EA	20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	23,966.38		936.14
		For Class 52 Rating, Deduct.....	-2,480.28		
		For Class 54 Rating, Add.....	3,399.22		
		For Class 55 Rating, Add.....	5,062.24		
		For Class 56 Rating, Add.....	6,702.72		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2968	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,510.00	939.46
			For Class 52 Rating, Deduct.....	-2,539.52	
			For Class 54 Rating, Add.....	3,480.07	
			For Class 55 Rating, Add.....	5,182.47	
			For Class 56 Rating, Add.....	6,861.78	
40 05 19 00-2969	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,053.63	942.80
			For Class 52 Rating, Deduct.....	-2,598.77	
			For Class 54 Rating, Add.....	3,560.91	
			For Class 55 Rating, Add.....	5,302.69	
			For Class 56 Rating, Add.....	7,020.84	
40 05 19 00-2970	EA		20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,597.26	946.12
			For Class 52 Rating, Deduct.....	-2,658.01	
			For Class 54 Rating, Add.....	3,641.76	
			For Class 55 Rating, Add.....	5,422.92	
			For Class 56 Rating, Add.....	7,179.91	
40 05 19 00-2971			24" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-2972	EA		24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,821.93	972.77
			For Class 52 Rating, Deduct.....	-588.28	
			For Class 54 Rating, Add.....	819.89	
			For Class 55 Rating, Add.....	1,227.98	
			For Class 56 Rating, Add.....	1,630.73	
40 05 19 00-2973	EA		24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,494.69	976.11
			For Class 52 Rating, Deduct.....	-661.73	
			For Class 54 Rating, Add.....	920.11	
			For Class 55 Rating, Add.....	1,377.00	
			For Class 56 Rating, Add.....	1,827.89	
40 05 19 00-2974	EA		24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,167.45	979.44
			For Class 52 Rating, Deduct.....	-735.18	
			For Class 54 Rating, Add.....	1,020.33	
			For Class 55 Rating, Add.....	1,526.03	
			For Class 56 Rating, Add.....	2,025.04	
40 05 19 00-2975	EA		24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,840.22	982.77
			For Class 52 Rating, Deduct.....	-808.63	
			For Class 54 Rating, Add.....	1,120.54	
			For Class 55 Rating, Add.....	1,675.05	
			For Class 56 Rating, Add.....	2,222.20	
40 05 19 00-2976	EA		24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,512.97	986.10
			For Class 52 Rating, Deduct.....	-882.08	
			For Class 54 Rating, Add.....	1,220.76	
			For Class 55 Rating, Add.....	1,824.07	
			For Class 56 Rating, Add.....	2,419.36	
40 05 19 00-2977	EA		24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,185.75	989.44
			For Class 52 Rating, Deduct.....	-955.53	
			For Class 54 Rating, Add.....	1,320.98	
			For Class 55 Rating, Add.....	1,973.09	
			For Class 56 Rating, Add.....	2,616.52	
40 05 19 00-2978	EA		24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,858.50	992.76
			For Class 52 Rating, Deduct.....	-1,028.97	
			For Class 54 Rating, Add.....	1,421.20	
			For Class 55 Rating, Add.....	2,122.11	
			For Class 56 Rating, Add.....	2,813.67	
40 05 19 00-2979	EA		24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,531.27	996.10
			For Class 52 Rating, Deduct.....	-1,102.42	
			For Class 54 Rating, Add.....	1,521.42	
			For Class 55 Rating, Add.....	2,271.13	
			For Class 56 Rating, Add.....	3,010.83	
40 05 19 00-2980	EA		24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,204.03	999.43
			For Class 52 Rating, Deduct.....	-1,175.87	
			For Class 54 Rating, Add.....	1,621.63	
			For Class 55 Rating, Add.....	2,420.15	
			For Class 56 Rating, Add.....	3,207.99	
40 05 19 00-2981	EA		24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,876.79	1,002.76
			For Class 52 Rating, Deduct.....	-1,249.32	
			For Class 54 Rating, Add.....	1,721.85	
			For Class 55 Rating, Add.....	2,569.18	
			For Class 56 Rating, Add.....	3,405.15	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2982	EA	24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,549.55		1,006.10
		For Class 52 Rating, Deduct	-1,322.77		
		For Class 54 Rating, Add	1,822.07		
		For Class 55 Rating, Add	2,718.20		
		For Class 56 Rating, Add	3,602.30		
40 05 19 00-2983	EA	24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,222.32		1,009.42
		For Class 52 Rating, Deduct	-1,396.22		
		For Class 54 Rating, Add	1,922.29		
		For Class 55 Rating, Add	2,867.22		
		For Class 56 Rating, Add	3,799.46		
40 05 19 00-2984	EA	24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,895.08		1,012.76
		For Class 52 Rating, Deduct	-1,469.67		
		For Class 54 Rating, Add	2,022.50		
		For Class 55 Rating, Add	3,016.24		
		For Class 56 Rating, Add	3,996.62		
40 05 19 00-2985	EA	24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,567.84		1,016.09
		For Class 52 Rating, Deduct	-1,543.12		
		For Class 54 Rating, Add	2,122.72		
		For Class 55 Rating, Add	3,165.26		
		For Class 56 Rating, Add	4,193.78		
40 05 19 00-2986	EA	24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,240.61		1,019.42
		For Class 52 Rating, Deduct	-1,616.56		
		For Class 54 Rating, Add	2,222.94		
		For Class 55 Rating, Add	3,314.28		
		For Class 56 Rating, Add	4,390.93		
40 05 19 00-2987	EA	24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,913.37		1,022.75
		For Class 52 Rating, Deduct	-1,690.01		
		For Class 54 Rating, Add	2,323.16		
		For Class 55 Rating, Add	3,463.31		
		For Class 56 Rating, Add	4,588.09		
40 05 19 00-2988	EA	24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,586.13		1,026.09
		For Class 52 Rating, Deduct	-1,763.46		
		For Class 54 Rating, Add	2,423.38		
		For Class 55 Rating, Add	3,612.33		
		For Class 56 Rating, Add	4,785.25		
40 05 19 00-2989	EA	24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,258.90		1,029.41
		For Class 52 Rating, Deduct	-1,836.91		
		For Class 54 Rating, Add	2,523.59		
		For Class 55 Rating, Add	3,761.35		
		For Class 56 Rating, Add	4,982.41		
40 05 19 00-2990	EA	24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,931.65		1,032.75
		For Class 52 Rating, Deduct	-1,910.36		
		For Class 54 Rating, Add	2,623.81		
		For Class 55 Rating, Add	3,910.37		
		For Class 56 Rating, Add	5,179.56		
40 05 19 00-2991	EA	24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,604.42		1,036.07
		For Class 52 Rating, Deduct	-1,983.81		
		For Class 54 Rating, Add	2,724.03		
		For Class 55 Rating, Add	4,059.39		
		For Class 56 Rating, Add	5,376.72		
40 05 19 00-2992	EA	24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,277.18		1,039.41
		For Class 52 Rating, Deduct	-2,057.26		
		For Class 54 Rating, Add	2,824.25		
		For Class 55 Rating, Add	4,208.41		
		For Class 56 Rating, Add	5,573.88		
40 05 19 00-2993	EA	24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,949.95		1,042.74
		For Class 52 Rating, Deduct	-2,130.70		
		For Class 54 Rating, Add	2,924.46		
		For Class 55 Rating, Add	4,357.44		
		For Class 56 Rating, Add	5,771.04		
40 05 19 00-2994	EA	24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,622.71		1,046.07
		For Class 52 Rating, Deduct	-2,204.15		
		For Class 54 Rating, Add	3,024.68		
		For Class 55 Rating, Add	4,506.46		
		For Class 56 Rating, Add	5,968.20		
40 05 19 00-2995	EA	24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,295.48		1,049.40
		For Class 52 Rating, Deduct	-2,277.60		
		For Class 54 Rating, Add	3,124.90		
		For Class 55 Rating, Add	4,655.48		
		For Class 56 Rating, Add	6,165.35		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2996	EA		24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	22,968.24	1,052.74
			For Class 52 Rating, Deduct	-2,351.05	
			For Class 54 Rating, Add	3,225.12	
			For Class 55 Rating, Add	4,804.50	
			For Class 56 Rating, Add	6,362.51	
40 05 19 00-2997	EA		24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	23,640.99	1,056.06
			For Class 52 Rating, Deduct	-2,424.50	
			For Class 54 Rating, Add	3,325.34	
			For Class 55 Rating, Add	4,953.52	
			For Class 56 Rating, Add	6,559.67	
40 05 19 00-2998	EA		24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	24,313.77	1,059.40
			For Class 52 Rating, Deduct	-2,497.95	
			For Class 54 Rating, Add	3,425.55	
			For Class 55 Rating, Add	5,102.55	
			For Class 56 Rating, Add	6,756.83	
40 05 19 00-2999	EA		24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	24,986.52	1,062.72
			For Class 52 Rating, Deduct	-2,571.40	
			For Class 54 Rating, Add	3,525.77	
			For Class 55 Rating, Add	5,251.57	
			For Class 56 Rating, Add	6,953.98	
40 05 19 00-3000	EA		24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	25,659.29	1,066.06
			For Class 52 Rating, Deduct	-2,644.65	
			For Class 54 Rating, Add	3,625.99	
			For Class 55 Rating, Add	5,400.59	
			For Class 56 Rating, Add	7,151.14	
40 05 19 00-3001	EA		24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	26,417.86	1,126.02
			For Class 52 Rating, Deduct	-2,718.29	
			For Class 54 Rating, Add	3,727.24	
			For Class 55 Rating, Add	5,551.67	
			For Class 56 Rating, Add	7,351.39	
40 05 19 00-3002	EA		24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	27,090.62	1,129.36
			For Class 52 Rating, Deduct	-2,791.74	
			For Class 54 Rating, Add	3,827.46	
			For Class 55 Rating, Add	5,700.69	
			For Class 56 Rating, Add	7,548.55	
40 05 19 00-3003	EA		24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	27,763.38	1,132.69
			For Class 52 Rating, Deduct	-2,865.19	
			For Class 54 Rating, Add	3,927.67	
			For Class 55 Rating, Add	5,849.71	
			For Class 56 Rating, Add	7,745.70	
40 05 19 00-3004	EA		24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	28,436.15	1,136.02
			For Class 52 Rating, Deduct	-2,938.64	
			For Class 54 Rating, Add	4,027.89	
			For Class 55 Rating, Add	5,998.73	
			For Class 56 Rating, Add	7,942.86	
40 05 19 00-3005	EA		24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	29,108.90	1,139.35
			For Class 52 Rating, Deduct	-3,012.09	
			For Class 54 Rating, Add	4,128.11	
			For Class 55 Rating, Add	6,147.75	
			For Class 56 Rating, Add	8,140.02	
40 05 19 00-3006	EA		24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	29,778.53	1,142.68
			For Class 52 Rating, Deduct	-3,085.19	
			For Class 54 Rating, Add	4,227.85	
			For Class 55 Rating, Add	6,296.08	
			For Class 56 Rating, Add	8,336.25	
40 05 19 00-3007	EA		24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	30,454.43	1,146.01
			For Class 52 Rating, Deduct	-3,158.99	
			For Class 54 Rating, Add	4,328.54	
			For Class 55 Rating, Add	6,445.80	
			For Class 56 Rating, Add	8,534.33	
40 05 19 00-3008	EA		24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	31,127.20	1,149.35
			For Class 52 Rating, Deduct	-3,232.43	
			For Class 54 Rating, Add	4,428.76	
			For Class 55 Rating, Add	6,594.82	
			For Class 56 Rating, Add	8,731.49	
40 05 19 00-3009	EA		24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	31,799.96	1,152.67
			For Class 52 Rating, Deduct	-3,305.88	
			For Class 54 Rating, Add	4,528.98	
			For Class 55 Rating, Add	6,743.84	
			For Class 56 Rating, Add	8,928.65	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 19 00-3010	30" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)				
40 05 19 00-3011	EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,501.65		1,372.55	
	For Class 52 Rating, Deduct.....	-926.42			
	For Class 54 Rating, Add.....	1,288.26			
	For Class 55 Rating, Add.....	1,928.02			
	For Class 56 Rating, Add.....	2,559.37			
40 05 19 00-3012	EA 30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,464.18		1,375.88	
	For Class 52 Rating, Deduct.....	-1,031.75			
	For Class 54 Rating, Add.....	1,431.94			
	For Class 55 Rating, Add.....	2,141.66			
	For Class 56 Rating, Add.....	2,842.00			
40 05 19 00-3013	EA 30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,426.71		1,379.21	
	For Class 52 Rating, Deduct.....	-1,137.07			
	For Class 54 Rating, Add.....	1,575.63			
	For Class 55 Rating, Add.....	2,355.30			
	For Class 56 Rating, Add.....	3,124.64			
40 05 19 00-3014	EA 30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,389.23		1,382.55	
	For Class 52 Rating, Deduct.....	-1,242.39			
	For Class 54 Rating, Add.....	1,719.31			
	For Class 55 Rating, Add.....	2,568.94			
	For Class 56 Rating, Add.....	3,407.28			
40 05 19 00-3015	EA 30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,351.76		1,385.87	
	For Class 52 Rating, Deduct.....	-1,347.71			
	For Class 54 Rating, Add.....	1,862.99			
	For Class 55 Rating, Add.....	2,762.58			
	For Class 56 Rating, Add.....	3,689.92			
40 05 19 00-3016	EA 30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,314.28		1,389.21	
	For Class 52 Rating, Deduct.....	-1,453.04			
	For Class 54 Rating, Add.....	2,006.67			
	For Class 55 Rating, Add.....	2,996.22			
	For Class 56 Rating, Add.....	3,972.55			
40 05 19 00-3017	EA 30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,276.81		1,392.54	
	For Class 52 Rating, Deduct.....	-1,558.36			
	For Class 54 Rating, Add.....	2,150.35			
	For Class 55 Rating, Add.....	3,209.86			
	For Class 56 Rating, Add.....	4,255.19			
40 05 19 00-3018	EA 30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,239.34		1,395.87	
	For Class 52 Rating, Deduct.....	-1,663.68			
	For Class 54 Rating, Add.....	2,294.04			
	For Class 55 Rating, Add.....	3,423.50			
	For Class 56 Rating, Add.....	4,537.83			
40 05 19 00-3019	EA 30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,201.86		1,399.20	
	For Class 52 Rating, Deduct.....	-1,769.00			
	For Class 54 Rating, Add.....	2,437.72			
	For Class 55 Rating, Add.....	3,637.13			
	For Class 56 Rating, Add.....	4,820.47			
40 05 19 00-3020	EA 30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,164.39		1,402.53	
	For Class 52 Rating, Deduct.....	-1,874.33			
	For Class 54 Rating, Add.....	2,581.40			
	For Class 55 Rating, Add.....	3,850.77			
	For Class 56 Rating, Add.....	5,103.11			
40 05 19 00-3021	EA 30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,126.91		1,405.86	
	For Class 52 Rating, Deduct.....	-1,979.65			
	For Class 54 Rating, Add.....	2,725.08			
	For Class 55 Rating, Add.....	4,064.41			
	For Class 56 Rating, Add.....	5,385.74			
40 05 19 00-3022	EA 30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,089.44		1,409.20	
	For Class 52 Rating, Deduct.....	-2,084.97			
	For Class 54 Rating, Add.....	2,868.77			
	For Class 55 Rating, Add.....	4,278.05			
	For Class 56 Rating, Add.....	5,668.38			
40 05 19 00-3023	EA 30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,051.96		1,412.52	
	For Class 52 Rating, Deduct.....	-2,190.29			
	For Class 54 Rating, Add.....	3,012.45			
	For Class 55 Rating, Add.....	4,491.69			
	For Class 56 Rating, Add.....	5,951.02			
40 05 19 00-3024	EA 30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,014.50		1,415.86	
	For Class 52 Rating, Deduct.....	-2,295.62			
	For Class 54 Rating, Add.....	3,156.13			
	For Class 55 Rating, Add.....	4,705.33			
	For Class 56 Rating, Add.....	6,233.66			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3025	EA		30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,977.02	1,419.19
			For Class 52 Rating, Deduct	-2,400.94	
			For Class 54 Rating, Add	3,299.81	
			For Class 55 Rating, Add	4,918.97	
			For Class 56 Rating, Add	6,516.30	
40 05 19 00-3026	EA		30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,939.54	1,422.52
			For Class 52 Rating, Deduct	-2,506.26	
			For Class 54 Rating, Add	3,443.50	
			For Class 55 Rating, Add	5,132.61	
			For Class 56 Rating, Add	6,798.93	
40 05 19 00-3027	EA		30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,902.06	1,425.85
			For Class 52 Rating, Deduct	-2,611.58	
			For Class 54 Rating, Add	3,587.18	
			For Class 55 Rating, Add	5,346.24	
			For Class 56 Rating, Add	7,081.57	
40 05 19 00-3028	EA		30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,864.59	1,429.19
			For Class 52 Rating, Deduct	-2,716.91	
			For Class 54 Rating, Add	3,730.86	
			For Class 55 Rating, Add	5,559.88	
			For Class 56 Rating, Add	7,364.21	
40 05 19 00-3029	EA		30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,827.12	1,432.51
			For Class 52 Rating, Deduct	-2,822.23	
			For Class 54 Rating, Add	3,874.54	
			For Class 55 Rating, Add	5,773.52	
			For Class 56 Rating, Add	7,646.85	
40 05 19 00-3030	EA		30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,789.64	1,435.85
			For Class 52 Rating, Deduct	-2,927.55	
			For Class 54 Rating, Add	4,018.22	
			For Class 55 Rating, Add	5,987.16	
			For Class 56 Rating, Add	7,929.48	
40 05 19 00-3031	EA		30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,752.18	1,439.18
			For Class 52 Rating, Deduct	-3,032.88	
			For Class 54 Rating, Add	4,161.91	
			For Class 55 Rating, Add	6,200.80	
			For Class 56 Rating, Add	8,212.12	
40 05 19 00-3032	EA		30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,714.70	1,442.51
			For Class 52 Rating, Deduct	-3,138.20	
			For Class 54 Rating, Add	4,305.59	
			For Class 55 Rating, Add	6,414.44	
			For Class 56 Rating, Add	8,494.76	
40 05 19 00-3033	EA		30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,677.23	1,445.85
			For Class 52 Rating, Deduct	-3,243.52	
			For Class 54 Rating, Add	4,449.27	
			For Class 55 Rating, Add	6,628.08	
			For Class 56 Rating, Add	8,777.40	
40 05 19 00-3034	EA		30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,639.75	1,449.17
			For Class 52 Rating, Deduct	-3,348.84	
			For Class 54 Rating, Add	4,592.95	
			For Class 55 Rating, Add	6,841.72	
			For Class 56 Rating, Add	9,060.03	
40 05 19 00-3035	EA		30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,602.27	1,452.51
			For Class 52 Rating, Deduct	-3,454.17	
			For Class 54 Rating, Add	4,736.64	
			For Class 55 Rating, Add	7,055.35	
			For Class 56 Rating, Add	9,342.67	
40 05 19 00-3036	EA		30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,564.80	1,455.84
			For Class 52 Rating, Deduct	-3,559.49	
			For Class 54 Rating, Add	4,880.32	
			For Class 55 Rating, Add	7,268.99	
			For Class 56 Rating, Add	9,625.31	
40 05 19 00-3037	EA		30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,527.33	1,459.17
			For Class 52 Rating, Deduct	-3,664.81	
			For Class 54 Rating, Add	5,024.00	
			For Class 55 Rating, Add	7,482.63	
			For Class 56 Rating, Add	9,907.95	
40 05 19 00-3038	EA		30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,489.86	1,462.50
			For Class 52 Rating, Deduct	-3,770.13	
			For Class 54 Rating, Add	5,167.68	
			For Class 55 Rating, Add	7,696.27	
			For Class 56 Rating, Add	10,190.59	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3039	EA		30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	37,452.38	1,465.83
			For Class 52 Rating, Deduct.....	-3,875.46	
			For Class 54 Rating, Add.....	5,311.37	
			For Class 55 Rating, Add.....	7,909.91	
			For Class 56 Rating, Add.....	10,473.23	
40 05 19 00-3040	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	38,414.91	1,469.16
			For Class 52 Rating, Deduct.....	-3,980.78	
			For Class 54 Rating, Add.....	5,455.05	
			For Class 55 Rating, Add.....	8,123.55	
			For Class 56 Rating, Add.....	10,755.86	
40 05 19 00-3041	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	39,377.43	1,472.50
			For Class 52 Rating, Deduct.....	-4,086.10	
			For Class 54 Rating, Add.....	5,598.73	
			For Class 55 Rating, Add.....	8,337.19	
			For Class 56 Rating, Add.....	11,038.50	
40 05 19 00-3042	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	40,339.95	1,475.82
			For Class 52 Rating, Deduct.....	-4,191.42	
			For Class 54 Rating, Add.....	5,742.41	
			For Class 55 Rating, Add.....	8,550.83	
			For Class 56 Rating, Add.....	11,321.14	
40 05 19 00-3043	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	41,302.49	1,479.16
			For Class 52 Rating, Deduct.....	-4,296.75	
			For Class 54 Rating, Add.....	5,886.09	
			For Class 55 Rating, Add.....	8,764.47	
			For Class 56 Rating, Add.....	11,603.78	
40 05 19 00-3044	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	42,265.01	1,482.49
			For Class 52 Rating, Deduct.....	-4,402.07	
			For Class 54 Rating, Add.....	6,029.78	
			For Class 55 Rating, Add.....	8,978.11	
			For Class 56 Rating, Add.....	11,886.41	
40 05 19 00-3045	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	43,227.54	1,485.82
			For Class 52 Rating, Deduct.....	-4,507.39	
			For Class 54 Rating, Add.....	6,173.46	
			For Class 55 Rating, Add.....	9,191.74	
			For Class 56 Rating, Add.....	12,169.05	

40 05 19 00-3046 36" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-2614)

40 05 19 00-3047	EA		36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,543.50	1,739.01
			For Class 52 Rating, Deduct.....	-1,309.95	
			For Class 54 Rating, Add.....	1,817.91	
			For Class 55 Rating, Add.....	2,718.86	
			For Class 56 Rating, Add.....	3,607.90	
40 05 19 00-3048	EA		36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,833.57	1,742.34
			For Class 52 Rating, Deduct.....	-1,451.30	
			For Class 54 Rating, Add.....	2,010.73	
			For Class 55 Rating, Add.....	3,005.55	
			For Class 56 Rating, Add.....	3,987.17	
40 05 19 00-3049	EA		36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,123.67	1,745.67
			For Class 52 Rating, Deduct.....	-1,592.66	
			For Class 54 Rating, Add.....	2,203.55	
			For Class 55 Rating, Add.....	3,292.23	
			For Class 56 Rating, Add.....	4,366.44	
40 05 19 00-3050	EA		36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,413.75	1,749.00
			For Class 52 Rating, Deduct.....	-1,734.01	
			For Class 54 Rating, Add.....	2,396.36	
			For Class 55 Rating, Add.....	3,578.92	
			For Class 56 Rating, Add.....	4,745.71	
40 05 19 00-3051	EA		36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,703.83	1,752.33
			For Class 52 Rating, Deduct.....	-1,875.37	
			For Class 54 Rating, Add.....	2,589.18	
			For Class 55 Rating, Add.....	3,865.60	
			For Class 56 Rating, Add.....	5,124.97	
40 05 19 00-3052	EA		36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,993.92	1,755.66
			For Class 52 Rating, Deduct.....	-2,016.72	
			For Class 54 Rating, Add.....	2,781.99	
			For Class 55 Rating, Add.....	4,152.28	
			For Class 56 Rating, Add.....	5,504.24	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3053	EA		36" Flanged x Grooved (F&G), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,284.01	1,759.00
			For Class 52 Rating, Deduct	-2,158.07	
			For Class 54 Rating, Add	2,974.81	
			For Class 55 Rating, Add	4,438.97	
			For Class 56 Rating, Add	5,883.51	
40 05 19 00-3054	EA		36" Flanged x Grooved (F&G), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,574.09	1,762.32
			For Class 52 Rating, Deduct	-2,299.43	
			For Class 54 Rating, Add	3,167.63	
			For Class 55 Rating, Add	4,725.65	
			For Class 56 Rating, Add	6,262.78	
40 05 19 00-3055	EA		36" Flanged x Grooved (F&G), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,864.17	1,765.66
			For Class 52 Rating, Deduct	-2,440.78	
			For Class 54 Rating, Add	3,360.44	
			For Class 55 Rating, Add	5,012.34	
			For Class 56 Rating, Add	6,642.04	
40 05 19 00-3056	EA		36" Flanged x Grooved (F&G), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,154.26	1,769.00
			For Class 52 Rating, Deduct	-2,582.14	
			For Class 54 Rating, Add	3,553.26	
			For Class 55 Rating, Add	5,299.02	
			For Class 56 Rating, Add	7,021.31	
40 05 19 00-3057	EA		36" Flanged x Grooved (F&G), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,444.34	1,772.32
			For Class 52 Rating, Deduct	-2,723.49	
			For Class 54 Rating, Add	3,746.08	
			For Class 55 Rating, Add	5,585.71	
			For Class 56 Rating, Add	7,400.58	
40 05 19 00-3058	EA		36" Flanged x Grooved (F&G), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,734.43	1,775.66
			For Class 52 Rating, Deduct	-2,864.64	
			For Class 54 Rating, Add	3,938.89	
			For Class 55 Rating, Add	5,872.39	
			For Class 56 Rating, Add	7,779.85	
40 05 19 00-3059	EA		36" Flanged x Grooved (F&G), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,024.51	1,778.98
			For Class 52 Rating, Deduct	-3,006.20	
			For Class 54 Rating, Add	4,131.71	
			For Class 55 Rating, Add	6,159.08	
			For Class 56 Rating, Add	8,159.11	
40 05 19 00-3060	EA		36" Flanged x Grooved (F&G), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,314.60	1,782.32
			For Class 52 Rating, Deduct	-3,147.55	
			For Class 54 Rating, Add	4,324.52	
			For Class 55 Rating, Add	6,445.76	
			For Class 56 Rating, Add	8,538.38	
40 05 19 00-3061	EA		36" Flanged x Grooved (F&G), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,604.68	1,785.65
			For Class 52 Rating, Deduct	-3,288.91	
			For Class 54 Rating, Add	4,517.34	
			For Class 55 Rating, Add	6,732.44	
			For Class 56 Rating, Add	8,917.65	
40 05 19 00-3062	EA		36" Flanged x Grooved (F&G), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,894.77	1,788.98
			For Class 52 Rating, Deduct	-3,430.26	
			For Class 54 Rating, Add	4,710.16	
			For Class 55 Rating, Add	7,019.13	
			For Class 56 Rating, Add	9,296.92	
40 05 19 00-3063	EA		36" Flanged x Grooved (F&G), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,184.85	1,792.31
			For Class 52 Rating, Deduct	-3,571.62	
			For Class 54 Rating, Add	4,902.97	
			For Class 55 Rating, Add	7,305.81	
			For Class 56 Rating, Add	9,676.19	
40 05 19 00-3064	EA		36" Flanged x Grooved (F&G), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,474.93	1,795.65
			For Class 52 Rating, Deduct	-3,712.97	
			For Class 54 Rating, Add	5,095.79	
			For Class 55 Rating, Add	7,592.50	
			For Class 56 Rating, Add	10,055.45	
40 05 19 00-3065	EA		36" Flanged x Grooved (F&G), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,765.02	1,798.97
			For Class 52 Rating, Deduct	-3,854.32	
			For Class 54 Rating, Add	5,288.60	
			For Class 55 Rating, Add	7,879.18	
			For Class 56 Rating, Add	10,434.72	
40 05 19 00-3066	EA		36" Flanged x Grooved (F&G), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,055.10	1,802.31
			For Class 52 Rating, Deduct	-3,995.68	
			For Class 54 Rating, Add	5,481.42	
			For Class 55 Rating, Add	8,165.87	
			For Class 56 Rating, Add	10,813.99	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3067	EA	36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	40,345.19		1,805.64
		For Class 52 Rating, Deduct.....	-4,137.03		
		For Class 54 Rating, Add.....	5,674.24		
		For Class 55 Rating, Add.....	8,452.55		
		For Class 56 Rating, Add.....	11,193.25		
40 05 19 00-3068	EA	36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	41,635.27		1,808.97
		For Class 52 Rating, Deduct.....	-4,278.39		
		For Class 54 Rating, Add.....	5,867.05		
		For Class 55 Rating, Add.....	8,739.23		
		For Class 56 Rating, Add.....	11,572.52		
40 05 19 00-3069	EA	36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	42,925.36		1,812.30
		For Class 52 Rating, Deduct.....	-4,419.74		
		For Class 54 Rating, Add.....	6,059.87		
		For Class 55 Rating, Add.....	9,025.92		
		For Class 56 Rating, Add.....	11,951.79		
40 05 19 00-3070	EA	36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	44,215.44		1,815.63
		For Class 52 Rating, Deduct.....	-4,561.09		
		For Class 54 Rating, Add.....	6,252.68		
		For Class 55 Rating, Add.....	9,312.60		
		For Class 56 Rating, Add.....	12,331.06		
40 05 19 00-3071	EA	36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	45,505.52		1,818.96
		For Class 52 Rating, Deduct.....	-4,702.45		
		For Class 54 Rating, Add.....	6,445.50		
		For Class 55 Rating, Add.....	9,599.29		
		For Class 56 Rating, Add.....	12,710.32		
40 05 19 00-3072	EA	36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	46,795.61		1,822.30
		For Class 52 Rating, Deduct.....	-4,843.80		
		For Class 54 Rating, Add.....	6,638.32		
		For Class 55 Rating, Add.....	9,885.97		
		For Class 56 Rating, Add.....	13,089.59		
40 05 19 00-3073	EA	36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	48,085.69		1,825.62
		For Class 52 Rating, Deduct.....	-4,985.15		
		For Class 54 Rating, Add.....	6,831.13		
		For Class 55 Rating, Add.....	10,172.65		
		For Class 56 Rating, Add.....	13,468.86		
40 05 19 00-3074	EA	36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	49,375.78		1,828.96
		For Class 52 Rating, Deduct.....	-5,126.51		
		For Class 54 Rating, Add.....	7,023.95		
		For Class 55 Rating, Add.....	10,459.34		
		For Class 56 Rating, Add.....	13,848.13		
40 05 19 00-3075	EA	36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	50,665.86		1,832.29
		For Class 52 Rating, Deduct.....	-5,267.86		
		For Class 54 Rating, Add.....	7,216.76		
		For Class 55 Rating, Add.....	10,746.02		
		For Class 56 Rating, Add.....	14,227.40		
40 05 19 00-3076	EA	36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	51,955.95		1,835.62
		For Class 52 Rating, Deduct.....	-5,409.22		
		For Class 54 Rating, Add.....	7,409.58		
		For Class 55 Rating, Add.....	11,032.71		
		For Class 56 Rating, Add.....	14,606.66		
40 05 19 00-3077	EA	36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	53,246.03		1,838.95
		For Class 52 Rating, Deduct.....	-5,550.57		
		For Class 54 Rating, Add.....	7,602.40		
		For Class 55 Rating, Add.....	11,319.39		
		For Class 56 Rating, Add.....	14,985.93		
40 05 19 00-3078	EA	36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	54,536.12		1,842.28
		For Class 52 Rating, Deduct.....	-5,691.93		
		For Class 54 Rating, Add.....	7,795.21		
		For Class 55 Rating, Add.....	11,606.08		
		For Class 56 Rating, Add.....	15,365.20		
40 05 19 00-3079	EA	36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	55,826.21		1,845.61
		For Class 52 Rating, Deduct.....	-5,833.28		
		For Class 54 Rating, Add.....	7,988.03		
		For Class 55 Rating, Add.....	11,892.76		
		For Class 56 Rating, Add.....	15,744.47		
40 05 19 00-3080	EA	36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	57,116.28		1,848.95
		For Class 52 Rating, Deduct.....	-5,974.63		
		For Class 54 Rating, Add.....	8,180.84		
		For Class 55 Rating, Add.....	12,179.45		
		For Class 56 Rating, Add.....	16,123.73		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3081	EA		36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	58,406.37	1,852.27
			For Class 52 Rating, Deduct	-6,115.99	
			For Class 54 Rating, Add	8,373.66	
			For Class 55 Rating, Add	12,466.13	
			For Class 56 Rating, Add	16,503.00	
40 05 19 00-3082			Flanged End x Plain End (FxPE), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2073)		
40 05 19 00-3083			4" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3084	EA		4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	779.14	162.93
			For Class 52 Rating, Deduct	-58.55	
			For Class 54 Rating, Add	82.80	
			For Class 55 Rating, Add	124.62	
			For Class 56 Rating, Add	165.91	
40 05 19 00-3085	EA		4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	903.14	165.78
			For Class 52 Rating, Deduct	-71.72	
			For Class 54 Rating, Add	100.81	
			For Class 55 Rating, Add	151.42	
			For Class 56 Rating, Add	201.37	
40 05 19 00-3086	EA		4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,027.13	168.63
			For Class 52 Rating, Deduct	-84.88	
			For Class 54 Rating, Add	118.81	
			For Class 55 Rating, Add	178.21	
			For Class 56 Rating, Add	236.83	
40 05 19 00-3087	EA		4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,151.15	171.46
			For Class 52 Rating, Deduct	-98.05	
			For Class 54 Rating, Add	136.82	
			For Class 55 Rating, Add	205.00	
			For Class 56 Rating, Add	272.30	
40 05 19 00-3088	EA		4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,275.14	174.32
			For Class 52 Rating, Deduct	-111.21	
			For Class 54 Rating, Add	154.82	
			For Class 55 Rating, Add	231.80	
			For Class 56 Rating, Add	307.76	
40 05 19 00-3089	EA		4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,399.14	177.17
			For Class 52 Rating, Deduct	-124.38	
			For Class 54 Rating, Add	172.83	
			For Class 55 Rating, Add	258.59	
			For Class 56 Rating, Add	343.22	
40 05 19 00-3090	EA		4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,523.14	180.02
			For Class 52 Rating, Deduct	-137.54	
			For Class 54 Rating, Add	190.83	
			For Class 55 Rating, Add	285.38	
			For Class 56 Rating, Add	378.68	
40 05 19 00-3091	EA		4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,647.15	182.86
			For Class 52 Rating, Deduct	-150.71	
			For Class 54 Rating, Add	208.84	
			For Class 55 Rating, Add	312.18	
			For Class 56 Rating, Add	414.15	
40 05 19 00-3092	EA		4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,771.14	185.72
			For Class 52 Rating, Deduct	-163.87	
			For Class 54 Rating, Add	226.84	
			For Class 55 Rating, Add	338.97	
			For Class 56 Rating, Add	449.61	
40 05 19 00-3093	EA		4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,895.14	188.57
			For Class 52 Rating, Deduct	-177.04	
			For Class 54 Rating, Add	244.85	
			For Class 55 Rating, Add	365.76	
			For Class 56 Rating, Add	485.07	
40 05 19 00-3094	EA		4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,019.14	191.41
			For Class 52 Rating, Deduct	-190.20	
			For Class 54 Rating, Add	262.85	
			For Class 55 Rating, Add	392.56	
			For Class 56 Rating, Add	520.53	
40 05 19 00-3095	EA		4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,143.15	194.26
			For Class 52 Rating, Deduct	-203.37	
			For Class 54 Rating, Add	280.85	
			For Class 55 Rating, Add	419.35	
			For Class 56 Rating, Add	556.00	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3096	EA		4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,267.14	197.10
			For Class 52 Rating, Deduct.....	-216.54	
			For Class 54 Rating, Add.....	298.86	
			For Class 55 Rating, Add.....	446.14	
			For Class 56 Rating, Add.....	591.46	
40 05 19 00-3097	EA		4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,391.14	199.96
			For Class 52 Rating, Deduct.....	-229.70	
			For Class 54 Rating, Add.....	316.86	
			For Class 55 Rating, Add.....	472.94	
			For Class 56 Rating, Add.....	626.92	
40 05 19 00-3098	EA		4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,515.14	202.80
			For Class 52 Rating, Deduct.....	-242.87	
			For Class 54 Rating, Add.....	334.87	
			For Class 55 Rating, Add.....	499.73	
			For Class 56 Rating, Add.....	662.38	
40 05 19 00-3099	EA		4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,639.14	205.65
			For Class 52 Rating, Deduct.....	-256.03	
			For Class 54 Rating, Add.....	352.87	
			For Class 55 Rating, Add.....	526.52	
			For Class 56 Rating, Add.....	697.84	
40 05 19 00-3100	EA		4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,763.15	208.50
			For Class 52 Rating, Deduct.....	-269.20	
			For Class 54 Rating, Add.....	370.88	
			For Class 55 Rating, Add.....	553.32	
			For Class 56 Rating, Add.....	733.31	
40 05 19 00-3101	EA		4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,887.14	211.34
			For Class 52 Rating, Deduct.....	-282.36	
			For Class 54 Rating, Add.....	388.88	
			For Class 55 Rating, Add.....	580.11	
			For Class 56 Rating, Add.....	768.77	
40 05 19 00-3102	EA		4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,011.15	214.20
			For Class 52 Rating, Deduct.....	-295.53	
			For Class 54 Rating, Add.....	406.89	
			For Class 55 Rating, Add.....	606.90	
			For Class 56 Rating, Add.....	804.23	
40 05 19 00-3103	EA		4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,135.14	217.05
			For Class 52 Rating, Deduct.....	-308.69	
			For Class 54 Rating, Add.....	424.89	
			For Class 55 Rating, Add.....	633.70	
			For Class 56 Rating, Add.....	839.69	
40 05 19 00-3104	EA		4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,259.15	219.90
			For Class 52 Rating, Deduct.....	-321.86	
			For Class 54 Rating, Add.....	442.90	
			For Class 55 Rating, Add.....	660.49	
			For Class 56 Rating, Add.....	875.16	
40 05 19 00-3105	EA		4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,383.14	222.74
			For Class 52 Rating, Deduct.....	-335.02	
			For Class 54 Rating, Add.....	460.90	
			For Class 55 Rating, Add.....	687.28	
			For Class 56 Rating, Add.....	910.62	
40 05 19 00-3106	EA		4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,507.15	225.59
			For Class 52 Rating, Deduct.....	-348.19	
			For Class 54 Rating, Add.....	478.90	
			For Class 55 Rating, Add.....	714.08	
			For Class 56 Rating, Add.....	946.08	
40 05 19 00-3107	EA		4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,631.15	228.44
			For Class 52 Rating, Deduct.....	-361.35	
			For Class 54 Rating, Add.....	496.91	
			For Class 55 Rating, Add.....	740.87	
			For Class 56 Rating, Add.....	981.54	
40 05 19 00-3108	EA		4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,063.81	231.28
			For Class 52 Rating, Deduct.....	-408.47	
			For Class 54 Rating, Add.....	561.21	
			For Class 55 Rating, Add.....	836.49	
			For Class 56 Rating, Add.....	1,108.06	
40 05 19 00-3109	EA		4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,187.80	234.13
			For Class 52 Rating, Deduct.....	-421.64	
			For Class 54 Rating, Add.....	579.22	
			For Class 55 Rating, Add.....	863.29	
			For Class 56 Rating, Add.....	1,143.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3110	EA		4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,311.82	236.99
			For Class 52 Rating, Deduct	-434.80	
			For Class 54 Rating, Add	597.22	
			For Class 55 Rating, Add	890.08	
			For Class 56 Rating, Add	1,178.99	
40 05 19 00-3111	EA		4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,435.81	239.84
			For Class 52 Rating, Deduct	-447.97	
			For Class 54 Rating, Add	615.23	
			For Class 55 Rating, Add	916.87	
			For Class 56 Rating, Add	1,214.45	
40 05 19 00-3112	EA		4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,559.81	242.68
			For Class 52 Rating, Deduct	-461.13	
			For Class 54 Rating, Add	633.23	
			For Class 55 Rating, Add	943.67	
			For Class 56 Rating, Add	1,249.91	
40 05 19 00-3113	EA		4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,683.81	245.53
			For Class 52 Rating, Deduct	-474.30	
			For Class 54 Rating, Add	651.23	
			For Class 55 Rating, Add	970.46	
			For Class 56 Rating, Add	1,285.37	
40 05 19 00-3114	EA		4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,807.82	248.38
			For Class 52 Rating, Deduct	-487.46	
			For Class 54 Rating, Add	669.24	
			For Class 55 Rating, Add	997.25	
			For Class 56 Rating, Add	1,320.84	
40 05 19 00-3115	EA		4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,931.81	251.24
			For Class 52 Rating, Deduct	-500.63	
			For Class 54 Rating, Add	687.24	
			For Class 55 Rating, Add	1,024.05	
			For Class 56 Rating, Add	1,356.30	
40 05 19 00-3116	EA		4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,055.81	254.07
			For Class 52 Rating, Deduct	-513.79	
			For Class 54 Rating, Add	705.25	
			For Class 55 Rating, Add	1,050.84	
			For Class 56 Rating, Add	1,391.76	
40 05 19 00-3117	EA		4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,179.82	256.92
			For Class 52 Rating, Deduct	-526.96	
			For Class 54 Rating, Add	723.25	
			For Class 55 Rating, Add	1,077.63	
			For Class 56 Rating, Add	1,427.22	
40 05 19 00-3118	EA		4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,303.82	259.77
			For Class 52 Rating, Deduct	-540.13	
			For Class 54 Rating, Add	741.26	
			For Class 55 Rating, Add	1,104.43	
			For Class 56 Rating, Add	1,462.69	
40 05 19 00-3119	EA		4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,427.81	262.61
			For Class 52 Rating, Deduct	-553.29	
			For Class 54 Rating, Add	759.26	
			For Class 55 Rating, Add	1,131.22	
			For Class 56 Rating, Add	1,498.15	
40 05 19 00-3120	EA		4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,551.82	265.47
			For Class 52 Rating, Deduct	-566.46	
			For Class 54 Rating, Add	777.27	
			For Class 55 Rating, Add	1,158.01	
			For Class 56 Rating, Add	1,533.61	
40 05 19 00-3121	EA		4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,675.82	268.32
			For Class 52 Rating, Deduct	-579.62	
			For Class 54 Rating, Add	795.27	
			For Class 55 Rating, Add	1,184.81	
			For Class 56 Rating, Add	1,569.07	
40 05 19 00-3122	EA		4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,799.82	271.17
			For Class 52 Rating, Deduct	-592.79	
			For Class 54 Rating, Add	813.28	
			For Class 55 Rating, Add	1,211.60	
			For Class 56 Rating, Add	1,604.54	

40 05 19 00-3123 6" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3124	EA	6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	956.40		205.09
		For Class 52 Rating, Deduct.....	-71.02		
		For Class 54 Rating, Add.....	100.58		
		For Class 55 Rating, Add.....	151.44		
		For Class 56 Rating, Add.....	201.66		
40 05 19 00-3125	EA	6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,099.30		207.94
		For Class 52 Rating, Deduct.....	-86.27		
		For Class 54 Rating, Add.....	121.42		
		For Class 55 Rating, Add.....	182.45		
		For Class 56 Rating, Add.....	242.70		
40 05 19 00-3126	EA	6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,242.19		210.77
		For Class 52 Rating, Deduct.....	-101.51		
		For Class 54 Rating, Add.....	142.26		
		For Class 55 Rating, Add.....	213.46		
		For Class 56 Rating, Add.....	283.73		
40 05 19 00-3127	EA	6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,385.10		213.63
		For Class 52 Rating, Deduct.....	-116.76		
		For Class 54 Rating, Add.....	163.10		
		For Class 55 Rating, Add.....	244.46		
		For Class 56 Rating, Add.....	324.77		
40 05 19 00-3128	EA	6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,527.99		216.48
		For Class 52 Rating, Deduct.....	-132.00		
		For Class 54 Rating, Add.....	183.94		
		For Class 55 Rating, Add.....	275.47		
		For Class 56 Rating, Add.....	365.81		
40 05 19 00-3129	EA	6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,670.89		219.32
		For Class 52 Rating, Deduct.....	-147.24		
		For Class 54 Rating, Add.....	204.77		
		For Class 55 Rating, Add.....	306.48		
		For Class 56 Rating, Add.....	406.84		
40 05 19 00-3130	EA	6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,813.79		222.17
		For Class 52 Rating, Deduct.....	-162.49		
		For Class 54 Rating, Add.....	225.61		
		For Class 55 Rating, Add.....	337.49		
		For Class 56 Rating, Add.....	447.88		
40 05 19 00-3131	EA	6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,956.68		225.02
		For Class 52 Rating, Deduct.....	-177.73		
		For Class 54 Rating, Add.....	246.45		
		For Class 55 Rating, Add.....	368.49		
		For Class 56 Rating, Add.....	488.92		
40 05 19 00-3132	EA	6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,099.58		227.88
		For Class 52 Rating, Deduct.....	-192.98		
		For Class 54 Rating, Add.....	267.29		
		For Class 55 Rating, Add.....	399.50		
		For Class 56 Rating, Add.....	529.96		
40 05 19 00-3133	EA	6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,242.49		230.72
		For Class 52 Rating, Deduct.....	-208.22		
		For Class 54 Rating, Add.....	288.13		
		For Class 55 Rating, Add.....	430.51		
		For Class 56 Rating, Add.....	570.99		
40 05 19 00-3134	EA	6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,385.38		233.57
		For Class 52 Rating, Deduct.....	-223.46		
		For Class 54 Rating, Add.....	308.97		
		For Class 55 Rating, Add.....	461.52		
		For Class 56 Rating, Add.....	612.03		
40 05 19 00-3135	EA	6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,528.27		236.41
		For Class 52 Rating, Deduct.....	-238.71		
		For Class 54 Rating, Add.....	329.81		
		For Class 55 Rating, Add.....	492.52		
		For Class 56 Rating, Add.....	653.07		
40 05 19 00-3136	EA	6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,671.19		239.25
		For Class 52 Rating, Deduct.....	-253.95		
		For Class 54 Rating, Add.....	350.65		
		For Class 55 Rating, Add.....	523.53		
		For Class 56 Rating, Add.....	694.11		
40 05 19 00-3137	EA	6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,814.08		242.11
		For Class 52 Rating, Deduct.....	-269.20		
		For Class 54 Rating, Add.....	371.49		
		For Class 55 Rating, Add.....	554.54		
		For Class 56 Rating, Add.....	735.14		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3138	EA	6"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	2,956.97	244.96
			For Class 52 Rating, Deduct	-284.44	
			For Class 54 Rating, Add	392.33	
			For Class 55 Rating, Add	585.55	
			For Class 56 Rating, Add	776.18	
40 05 19 00-3139	EA	6"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,099.86	247.81
			For Class 52 Rating, Deduct	-299.68	
			For Class 54 Rating, Add	413.17	
			For Class 55 Rating, Add	616.55	
			For Class 56 Rating, Add	817.21	
40 05 19 00-3140	EA	6"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,242.78	250.65
			For Class 52 Rating, Deduct	-314.93	
			For Class 54 Rating, Add	434.01	
			For Class 55 Rating, Add	647.56	
			For Class 56 Rating, Add	858.25	
40 05 19 00-3141	EA	6"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,385.67	253.51
			For Class 52 Rating, Deduct	-330.17	
			For Class 54 Rating, Add	454.84	
			For Class 55 Rating, Add	678.57	
			For Class 56 Rating, Add	899.29	
40 05 19 00-3142	EA	6"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,528.56	256.36
			For Class 52 Rating, Deduct	-345.42	
			For Class 54 Rating, Add	475.68	
			For Class 55 Rating, Add	709.58	
			For Class 56 Rating, Add	940.33	
40 05 19 00-3143	EA	6"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,671.46	259.21
			For Class 52 Rating, Deduct	-360.66	
			For Class 54 Rating, Add	496.52	
			For Class 55 Rating, Add	740.58	
			For Class 56 Rating, Add	981.36	
40 05 19 00-3144	EA	6"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,814.37	262.05
			For Class 52 Rating, Deduct	-375.91	
			For Class 54 Rating, Add	517.36	
			For Class 55 Rating, Add	771.59	
			For Class 56 Rating, Add	1,022.40	
40 05 19 00-3145	EA	6"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,957.26	264.90
			For Class 52 Rating, Deduct	-391.15	
			For Class 54 Rating, Add	538.20	
			For Class 55 Rating, Add	802.60	
			For Class 56 Rating, Add	1,063.44	
40 05 19 00-3146	EA	6"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,100.16	267.75
			For Class 52 Rating, Deduct	-406.39	
			For Class 54 Rating, Add	559.04	
			For Class 55 Rating, Add	833.61	
			For Class 56 Rating, Add	1,104.48	
40 05 19 00-3147	EA	6"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,243.06	270.59
			For Class 52 Rating, Deduct	-421.64	
			For Class 54 Rating, Add	579.88	
			For Class 55 Rating, Add	864.61	
			For Class 56 Rating, Add	1,145.51	
40 05 19 00-3148	EA	6"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,385.96	273.44
			For Class 52 Rating, Deduct	-436.88	
			For Class 54 Rating, Add	600.72	
			For Class 55 Rating, Add	895.62	
			For Class 56 Rating, Add	1,186.55	
40 05 19 00-3149	EA	6"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,528.85	276.29
			For Class 52 Rating, Deduct	-452.13	
			For Class 54 Rating, Add	621.56	
			For Class 55 Rating, Add	926.63	
			For Class 56 Rating, Add	1,227.59	
40 05 19 00-3150	EA	6"	Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,671.75	279.15
			For Class 52 Rating, Deduct	-467.37	
			For Class 54 Rating, Add	642.40	
			For Class 55 Rating, Add	957.64	
			For Class 56 Rating, Add	1,268.62	
40 05 19 00-3151	EA	6"	Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,814.65	281.99
			For Class 52 Rating, Deduct	-482.61	
			For Class 54 Rating, Add	663.24	
			For Class 55 Rating, Add	988.64	
			For Class 56 Rating, Add	1,309.66	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3152	EA	6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,957.55		284.84
		For Class 52 Rating, Deduct	-497.86		
		For Class 54 Rating, Add	684.08		
		For Class 55 Rating, Add	1,019.65		
		For Class 56 Rating, Add	1,350.70		
40 05 19 00-3153	EA	6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,100.45		287.69
		For Class 52 Rating, Deduct	-513.10		
		For Class 54 Rating, Add	704.91		
		For Class 55 Rating, Add	1,050.66		
		For Class 56 Rating, Add	1,391.74		
40 05 19 00-3154	EA	6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,243.34		290.52
		For Class 52 Rating, Deduct	-528.35		
		For Class 54 Rating, Add	725.75		
		For Class 55 Rating, Add	1,081.67		
		For Class 56 Rating, Add	1,432.77		
40 05 19 00-3155	EA	6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,386.24		293.38
		For Class 52 Rating, Deduct	-543.59		
		For Class 54 Rating, Add	746.59		
		For Class 55 Rating, Add	1,112.67		
		For Class 56 Rating, Add	1,473.81		
40 05 19 00-3156	EA	6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,529.14		296.23
		For Class 52 Rating, Deduct	-558.83		
		For Class 54 Rating, Add	767.43		
		For Class 55 Rating, Add	1,143.68		
		For Class 56 Rating, Add	1,514.85		
40 05 19 00-3157	EA	6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,672.04		299.08
		For Class 52 Rating, Deduct	-574.08		
		For Class 54 Rating, Add	788.27		
		For Class 55 Rating, Add	1,174.69		
		For Class 56 Rating, Add	1,555.89		
40 05 19 00-3158	EA	6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,814.93		301.92
		For Class 52 Rating, Deduct	-589.32		
		For Class 54 Rating, Add	809.11		
		For Class 55 Rating, Add	1,205.69		
		For Class 56 Rating, Add	1,596.92		
40 05 19 00-3159	EA	6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,957.83		304.78
		For Class 52 Rating, Deduct	-604.57		
		For Class 54 Rating, Add	829.95		
		For Class 55 Rating, Add	1,236.70		
		For Class 56 Rating, Add	1,637.96		
40 05 19 00-3160	EA	6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,100.73		307.63
		For Class 52 Rating, Deduct	-619.81		
		For Class 54 Rating, Add	850.79		
		For Class 55 Rating, Add	1,267.71		
		For Class 56 Rating, Add	1,679.00		
40 05 19 00-3161	EA	6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,243.63		310.47
		For Class 52 Rating, Deduct	-635.05		
		For Class 54 Rating, Add	871.63		
		For Class 55 Rating, Add	1,298.72		
		For Class 56 Rating, Add	1,720.03		
40 05 19 00-3162	EA	6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,386.53		313.32
		For Class 52 Rating, Deduct	-650.30		
		For Class 54 Rating, Add	892.47		
		For Class 55 Rating, Add	1,329.72		
		For Class 56 Rating, Add	1,761.07		
40 05 19 00-3163		8" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....			
		(40 05 19 00-3082)			
40 05 19 00-3164	EA	8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,307.28		262.05
		For Class 52 Rating, Deduct	-100.13		
		For Class 54 Rating, Add	141.30		
		For Class 55 Rating, Add	212.51		
		For Class 56 Rating, Add	262.81		
40 05 19 00-3165	EA	8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,491.12		264.90
		For Class 52 Rating, Deduct	-119.87		
		For Class 54 Rating, Add	168.28		
		For Class 55 Rating, Add	252.65		
		For Class 56 Rating, Add	335.93		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3166	EA	8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	1,674.97	267.75	
		For Class 52 Rating, Deduct	-139.62		
		For Class 54 Rating, Add	195.26		
		For Class 55 Rating, Add	292.79		
		For Class 56 Rating, Add	389.05		
40 05 19 00-3167	EA	8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	1,858.82	270.59	
		For Class 52 Rating, Deduct	-159.37		
		For Class 54 Rating, Add	222.24		
		For Class 55 Rating, Add	332.93		
		For Class 56 Rating, Add	442.16		
40 05 19 00-3168	EA	8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	2,042.65	273.44	
		For Class 52 Rating, Deduct	-179.12		
		For Class 54 Rating, Add	249.22		
		For Class 55 Rating, Add	373.06		
		For Class 56 Rating, Add	495.28		
40 05 19 00-3169	EA	8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	2,226.49	276.29	
		For Class 52 Rating, Deduct	-198.87		
		For Class 54 Rating, Add	276.20		
		For Class 55 Rating, Add	413.20		
		For Class 56 Rating, Add	548.39		
40 05 19 00-3170	EA	8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	2,410.34	279.15	
		For Class 52 Rating, Deduct	-218.61		
		For Class 54 Rating, Add	303.19		
		For Class 55 Rating, Add	453.34		
		For Class 56 Rating, Add	601.51		
40 05 19 00-3171	EA	8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	2,594.18	281.99	
		For Class 52 Rating, Deduct	-238.36		
		For Class 54 Rating, Add	330.17		
		For Class 55 Rating, Add	493.48		
		For Class 56 Rating, Add	654.62		
40 05 19 00-3172	EA	8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	2,778.02	284.84	
		For Class 52 Rating, Deduct	-258.11		
		For Class 54 Rating, Add	357.15		
		For Class 55 Rating, Add	533.62		
		For Class 56 Rating, Add	707.74		
40 05 19 00-3173	EA	8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	2,961.87	287.69	
		For Class 52 Rating, Deduct	-277.86		
		For Class 54 Rating, Add	384.13		
		For Class 55 Rating, Add	573.75		
		For Class 56 Rating, Add	760.86		
40 05 19 00-3174	EA	8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	3,145.71	290.52	
		For Class 52 Rating, Deduct	-297.61		
		For Class 54 Rating, Add	411.11		
		For Class 55 Rating, Add	613.89		
		For Class 56 Rating, Add	813.97		
40 05 19 00-3175	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	3,329.55	293.38	
		For Class 52 Rating, Deduct	-317.35		
		For Class 54 Rating, Add	438.09		
		For Class 55 Rating, Add	654.03		
		For Class 56 Rating, Add	867.09		
40 05 19 00-3176	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	3,513.40	296.23	
		For Class 52 Rating, Deduct	-337.10		
		For Class 54 Rating, Add	465.07		
		For Class 55 Rating, Add	694.17		
		For Class 56 Rating, Add	920.20		
40 05 19 00-3177	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	3,697.24	299.08	
		For Class 52 Rating, Deduct	-356.85		
		For Class 54 Rating, Add	492.05		
		For Class 55 Rating, Add	734.31		
		For Class 56 Rating, Add	973.32		
40 05 19 00-3178	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	3,881.08	301.92	
		For Class 52 Rating, Deduct	-376.60		
		For Class 54 Rating, Add	519.03		
		For Class 55 Rating, Add	774.45		
		For Class 56 Rating, Add	1,026.44		
40 05 19 00-3179	EA	8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	4,064.92	304.78	
		For Class 52 Rating, Deduct	-396.35		
		For Class 54 Rating, Add	546.01		
		For Class 55 Rating, Add	814.58		
		For Class 56 Rating, Add	1,079.55		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3180	EA	8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,248.77		307.63
		For Class 52 Rating, Deduct.....	-416.09		
		For Class 54 Rating, Add.....	572.99		
		For Class 55 Rating, Add.....	854.72		
		For Class 56 Rating, Add.....	1,132.67		
40 05 19 00-3181	EA	8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,432.61		310.47
		For Class 52 Rating, Deduct.....	-435.84		
		For Class 54 Rating, Add.....	599.97		
		For Class 55 Rating, Add.....	894.86		
		For Class 56 Rating, Add.....	1,185.78		
40 05 19 00-3182	EA	8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,616.45		313.32
		For Class 52 Rating, Deduct.....	-455.59		
		For Class 54 Rating, Add.....	626.95		
		For Class 55 Rating, Add.....	935.00		
		For Class 56 Rating, Add.....	1,238.90		
40 05 19 00-3183	EA	8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,800.30		316.17
		For Class 52 Rating, Deduct.....	-475.34		
		For Class 54 Rating, Add.....	653.94		
		For Class 55 Rating, Add.....	975.14		
		For Class 56 Rating, Add.....	1,292.01		
40 05 19 00-3184	EA	8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,984.14		319.03
		For Class 52 Rating, Deduct.....	-495.09		
		For Class 54 Rating, Add.....	680.92		
		For Class 55 Rating, Add.....	1,015.27		
		For Class 56 Rating, Add.....	1,345.13		
40 05 19 00-3185	EA	8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,167.98		321.86
		For Class 52 Rating, Deduct.....	-514.83		
		For Class 54 Rating, Add.....	707.90		
		For Class 55 Rating, Add.....	1,055.41		
		For Class 56 Rating, Add.....	1,398.25		
40 05 19 00-3186	EA	8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,351.83		324.71
		For Class 52 Rating, Deduct.....	-534.58		
		For Class 54 Rating, Add.....	734.88		
		For Class 55 Rating, Add.....	1,095.55		
		For Class 56 Rating, Add.....	1,451.36		
40 05 19 00-3187	EA	8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,535.67		327.56
		For Class 52 Rating, Deduct.....	-554.33		
		For Class 54 Rating, Add.....	761.86		
		For Class 55 Rating, Add.....	1,135.69		
		For Class 56 Rating, Add.....	1,504.48		
40 05 19 00-3188	EA	8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,719.51		330.42
		For Class 52 Rating, Deduct.....	-574.08		
		For Class 54 Rating, Add.....	788.84		
		For Class 55 Rating, Add.....	1,175.83		
		For Class 56 Rating, Add.....	1,557.59		
40 05 19 00-3189	EA	8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,903.35		333.26
		For Class 52 Rating, Deduct.....	-593.83		
		For Class 54 Rating, Add.....	815.82		
		For Class 55 Rating, Add.....	1,215.96		
		For Class 56 Rating, Add.....	1,610.71		
40 05 19 00-3190	EA	8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,087.20		336.11
		For Class 52 Rating, Deduct.....	-613.57		
		For Class 54 Rating, Add.....	842.80		
		For Class 55 Rating, Add.....	1,256.10		
		For Class 56 Rating, Add.....	1,663.83		
40 05 19 00-3191	EA	8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,271.04		338.96
		For Class 52 Rating, Deduct.....	-633.32		
		For Class 54 Rating, Add.....	869.78		
		For Class 55 Rating, Add.....	1,296.24		
		For Class 56 Rating, Add.....	1,716.94		
40 05 19 00-3192	EA	8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,454.88		341.80
		For Class 52 Rating, Deduct.....	-653.07		
		For Class 54 Rating, Add.....	896.76		
		For Class 55 Rating, Add.....	1,336.38		
		For Class 56 Rating, Add.....	1,770.06		
40 05 19 00-3193	EA	8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,638.72		344.66
		For Class 52 Rating, Deduct.....	-672.82		
		For Class 54 Rating, Add.....	923.74		
		For Class 55 Rating, Add.....	1,376.52		
		For Class 56 Rating, Add.....	1,823.17		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3194	EA	8"	Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,822.57	347.50
			For Class 52 Rating, Deduct.....	-692.57	
			For Class 54 Rating, Add.....	950.73	
			For Class 55 Rating, Add.....	1,416.66	
			For Class 56 Rating, Add.....	1,876.29	
40 05 19 00-3195	EA	8"	Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,006.41	350.35
			For Class 52 Rating, Deduct.....	-712.31	
			For Class 54 Rating, Add.....	977.71	
			For Class 55 Rating, Add.....	1,456.79	
			For Class 56 Rating, Add.....	1,929.41	
40 05 19 00-3196	EA	8"	Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,190.25	353.19
			For Class 52 Rating, Deduct.....	-732.06	
			For Class 54 Rating, Add.....	1,004.69	
			For Class 55 Rating, Add.....	1,496.93	
			For Class 56 Rating, Add.....	1,982.52	
40 05 19 00-3197	EA	8"	Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,374.10	356.05
			For Class 52 Rating, Deduct.....	-751.81	
			For Class 54 Rating, Add.....	1,031.67	
			For Class 55 Rating, Add.....	1,537.07	
			For Class 56 Rating, Add.....	2,035.64	
40 05 19 00-3198	EA	8"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,557.94	358.90
			For Class 52 Rating, Deduct.....	-771.56	
			For Class 54 Rating, Add.....	1,058.65	
			For Class 55 Rating, Add.....	1,577.21	
			For Class 56 Rating, Add.....	2,088.75	
40 05 19 00-3199	EA	8"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,741.79	361.74
			For Class 52 Rating, Deduct.....	-791.31	
			For Class 54 Rating, Add.....	1,085.63	
			For Class 55 Rating, Add.....	1,617.35	
			For Class 56 Rating, Add.....	2,141.87	
40 05 19 00-3200	EA	8"	Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,925.62	364.59
			For Class 52 Rating, Deduct.....	-811.05	
			For Class 54 Rating, Add.....	1,112.61	
			For Class 55 Rating, Add.....	1,657.48	
			For Class 56 Rating, Add.....	2,194.98	
40 05 19 00-3201	EA	8"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,109.47	367.44
			For Class 52 Rating, Deduct.....	-830.80	
			For Class 54 Rating, Add.....	1,139.59	
			For Class 55 Rating, Add.....	1,697.62	
			For Class 56 Rating, Add.....	2,248.10	
40 05 19 00-3202	EA	8"	Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,293.31	370.30
			For Class 52 Rating, Deduct.....	-850.55	
			For Class 54 Rating, Add.....	1,166.57	
			For Class 55 Rating, Add.....	1,737.76	
			For Class 56 Rating, Add.....	2,301.22	
40 05 19 00-3203			10" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3204	EA	10"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,651.86	319.03
			For Class 52 Rating, Deduct.....	-128.54	
			For Class 54 Rating, Add.....	181.08	
			For Class 55 Rating, Add.....	272.18	
			For Class 56 Rating, Add.....	362.11	
40 05 19 00-3205	EA	10"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,889.24	321.86
			For Class 52 Rating, Deduct.....	-154.17	
			For Class 54 Rating, Add.....	216.09	
			For Class 55 Rating, Add.....	324.25	
			For Class 56 Rating, Add.....	431.02	
40 05 19 00-3206	EA	10"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,126.64	324.71
			For Class 52 Rating, Deduct.....	-179.81	
			For Class 54 Rating, Add.....	251.10	
			For Class 55 Rating, Add.....	376.33	
			For Class 56 Rating, Add.....	499.93	
40 05 19 00-3207	EA	10"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,364.02	327.56
			For Class 52 Rating, Deduct.....	-205.45	
			For Class 54 Rating, Add.....	286.11	
			For Class 55 Rating, Add.....	428.41	
			For Class 56 Rating, Add.....	568.84	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3208	EA	10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,601.40		330.42
		For Class 52 Rating, Deduct	-231.09		
		For Class 54 Rating, Add	321.12		
		For Class 55 Rating, Add	480.49		
		For Class 56 Rating, Add	637.75		
40 05 19 00-3209	EA	10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,838.79		333.26
		For Class 52 Rating, Deduct	-256.72		
		For Class 54 Rating, Add	356.14		
		For Class 55 Rating, Add	532.57		
		For Class 56 Rating, Add	706.66		
40 05 19 00-3210	EA	10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,076.18		336.11
		For Class 52 Rating, Deduct	-282.36		
		For Class 54 Rating, Add	391.15		
		For Class 55 Rating, Add	584.65		
		For Class 56 Rating, Add	775.57		
40 05 19 00-3211	EA	10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,313.56		338.96
		For Class 52 Rating, Deduct	-308.00		
		For Class 54 Rating, Add	426.16		
		For Class 55 Rating, Add	636.72		
		For Class 56 Rating, Add	844.49		
40 05 19 00-3212	EA	10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,550.94		341.80
		For Class 52 Rating, Deduct	-333.64		
		For Class 54 Rating, Add	461.17		
		For Class 55 Rating, Add	688.80		
		For Class 56 Rating, Add	913.40		
40 05 19 00-3213	EA	10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,788.34		344.66
		For Class 52 Rating, Deduct	-359.28		
		For Class 54 Rating, Add	496.19		
		For Class 55 Rating, Add	740.88		
		For Class 56 Rating, Add	982.31		
40 05 19 00-3214	EA	10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,025.73		347.50
		For Class 52 Rating, Deduct	-384.91		
		For Class 54 Rating, Add	531.20		
		For Class 55 Rating, Add	792.96		
		For Class 56 Rating, Add	1,051.22		
40 05 19 00-3215	EA	10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,263.11		350.35
		For Class 52 Rating, Deduct	-410.55		
		For Class 54 Rating, Add	566.21		
		For Class 55 Rating, Add	845.04		
		For Class 56 Rating, Add	1,120.13		
40 05 19 00-3216	EA	10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,500.50		353.19
		For Class 52 Rating, Deduct	-436.19		
		For Class 54 Rating, Add	601.22		
		For Class 55 Rating, Add	897.12		
		For Class 56 Rating, Add	1,189.04		
40 05 19 00-3217	EA	10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,737.89		356.05
		For Class 52 Rating, Deduct	-461.83		
		For Class 54 Rating, Add	636.24		
		For Class 55 Rating, Add	949.19		
		For Class 56 Rating, Add	1,257.95		
40 05 19 00-3218	EA	10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,975.27		358.90
		For Class 52 Rating, Deduct	-487.46		
		For Class 54 Rating, Add	671.25		
		For Class 55 Rating, Add	1,001.27		
		For Class 56 Rating, Add	1,326.87		
40 05 19 00-3219	EA	10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,212.66		361.74
		For Class 52 Rating, Deduct	-513.10		
		For Class 54 Rating, Add	706.26		
		For Class 55 Rating, Add	1,053.35		
		For Class 56 Rating, Add	1,395.78		
40 05 19 00-3220	EA	10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,450.04		364.59
		For Class 52 Rating, Deduct	-538.74		
		For Class 54 Rating, Add	741.27		
		For Class 55 Rating, Add	1,105.43		
		For Class 56 Rating, Add	1,464.69		
40 05 19 00-3221	EA	10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,687.43		367.44
		For Class 52 Rating, Deduct	-564.38		
		For Class 54 Rating, Add	776.29		
		For Class 55 Rating, Add	1,157.51		
		For Class 56 Rating, Add	1,533.60		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3222	EA		10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	5,924.81	370.30
			For Class 52 Rating, Deduct	-590.01	
			For Class 54 Rating, Add	811.30	
			For Class 55 Rating, Add	1,209.59	
			For Class 56 Rating, Add	1,602.51	
40 05 19 00-3223	EA		10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,162.20	373.13
			For Class 52 Rating, Deduct	-615.65	
			For Class 54 Rating, Add	846.31	
			For Class 55 Rating, Add	1,261.66	
			For Class 56 Rating, Add	1,671.42	
40 05 19 00-3224	EA		10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,399.58	375.98
			For Class 52 Rating, Deduct	-641.29	
			For Class 54 Rating, Add	881.32	
			For Class 55 Rating, Add	1,313.74	
			For Class 56 Rating, Add	1,740.33	
40 05 19 00-3225	EA		10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,636.97	378.83
			For Class 52 Rating, Deduct	-666.93	
			For Class 54 Rating, Add	916.33	
			For Class 55 Rating, Add	1,365.82	
			For Class 56 Rating, Add	1,809.24	
40 05 19 00-3226	EA		10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,874.36	381.67
			For Class 52 Rating, Deduct	-692.57	
			For Class 54 Rating, Add	951.35	
			For Class 55 Rating, Add	1,417.90	
			For Class 56 Rating, Add	1,878.15	
40 05 19 00-3227	EA		10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,111.74	384.53
			For Class 52 Rating, Deduct	-718.20	
			For Class 54 Rating, Add	986.36	
			For Class 55 Rating, Add	1,469.98	
			For Class 56 Rating, Add	1,947.06	
40 05 19 00-3228	EA		10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,349.12	387.38
			For Class 52 Rating, Deduct	-743.84	
			For Class 54 Rating, Add	1,021.37	
			For Class 55 Rating, Add	1,522.05	
			For Class 56 Rating, Add	2,015.98	
40 05 19 00-3229	EA		10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,586.52	390.23
			For Class 52 Rating, Deduct	-769.48	
			For Class 54 Rating, Add	1,056.38	
			For Class 55 Rating, Add	1,574.13	
			For Class 56 Rating, Add	2,084.89	
40 05 19 00-3230	EA		10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,823.90	393.07
			For Class 52 Rating, Deduct	-795.12	
			For Class 54 Rating, Add	1,091.40	
			For Class 55 Rating, Add	1,626.21	
			For Class 56 Rating, Add	2,153.80	
40 05 19 00-3231	EA		10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,061.28	395.93
			For Class 52 Rating, Deduct	-820.75	
			For Class 54 Rating, Add	1,126.41	
			For Class 55 Rating, Add	1,678.29	
			For Class 56 Rating, Add	2,222.71	
40 05 19 00-3232	EA		10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,298.68	398.78
			For Class 52 Rating, Deduct	-846.39	
			For Class 54 Rating, Add	1,161.42	
			For Class 55 Rating, Add	1,730.37	
			For Class 56 Rating, Add	2,291.62	
40 05 19 00-3233	EA		10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,536.06	401.63
			For Class 52 Rating, Deduct	-872.03	
			For Class 54 Rating, Add	1,196.43	
			For Class 55 Rating, Add	1,782.45	
			For Class 56 Rating, Add	2,360.53	
40 05 19 00-3234	EA		10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,773.44	404.46
			For Class 52 Rating, Deduct	-897.67	
			For Class 54 Rating, Add	1,231.45	
			For Class 55 Rating, Add	1,834.52	
			For Class 56 Rating, Add	2,429.44	
40 05 19 00-3235	EA		10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	9,010.82	407.32
			For Class 52 Rating, Deduct	-923.30	
			For Class 54 Rating, Add	1,266.46	
			For Class 55 Rating, Add	1,886.60	
			For Class 56 Rating, Add	2,498.35	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3236	EA	10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,248.22		410.17
		For Class 52 Rating, Deduct	-948.94		
		For Class 54 Rating, Add	1,301.47		
		For Class 55 Rating, Add	1,938.68		
		For Class 56 Rating, Add	2,567.26		
40 05 19 00-3237	EA	10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,485.60		413.01
		For Class 52 Rating, Deduct	-974.58		
		For Class 54 Rating, Add	1,336.48		
		For Class 55 Rating, Add	1,990.76		
		For Class 56 Rating, Add	2,636.17		
40 05 19 00-3238	EA	10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,722.99		415.86
		For Class 52 Rating, Deduct	-1,000.22		
		For Class 54 Rating, Add	1,371.50		
		For Class 55 Rating, Add	2,042.84		
		For Class 56 Rating, Add	2,705.09		
40 05 19 00-3239	EA	10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,960.38		418.71
		For Class 52 Rating, Deduct	-1,025.86		
		For Class 54 Rating, Add	1,406.51		
		For Class 55 Rating, Add	2,094.92		
		For Class 56 Rating, Add	2,774.00		
40 05 19 00-3240	EA	10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,197.77		421.57
		For Class 52 Rating, Deduct	-1,051.49		
		For Class 54 Rating, Add	1,441.52		
		For Class 55 Rating, Add	2,147.00		
		For Class 56 Rating, Add	2,842.91		
40 05 19 00-3241	EA	10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,435.15		424.41
		For Class 52 Rating, Deduct	-1,077.13		
		For Class 54 Rating, Add	1,476.53		
		For Class 55 Rating, Add	2,199.07		
		For Class 56 Rating, Add	2,911.82		
40 05 19 00-3242	EA	10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,672.54		427.26
		For Class 52 Rating, Deduct	-1,102.77		
		For Class 54 Rating, Add	1,511.55		
		For Class 55 Rating, Add	2,251.15		
		For Class 56 Rating, Add	2,980.73		
40 05 19 00-3243 12" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)					
40 05 19 00-3244	EA	12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,147.51		398.78
		For Class 52 Rating, Deduct	-169.76		
		For Class 54 Rating, Add	238.75		
		For Class 55 Rating, Add	358.66		
		For Class 56 Rating, Add	477.03		
40 05 19 00-3245	EA	12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,441.59		401.63
		For Class 52 Rating, Deduct	-201.64		
		For Class 54 Rating, Add	282.26		
		For Class 55 Rating, Add	423.38		
		For Class 56 Rating, Add	562.66		
40 05 19 00-3246	EA	12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,735.66		404.46
		For Class 52 Rating, Deduct	-233.51		
		For Class 54 Rating, Add	325.78		
		For Class 55 Rating, Add	488.10		
		For Class 56 Rating, Add	648.30		
40 05 19 00-3247	EA	12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,029.73		407.32
		For Class 52 Rating, Deduct	-265.38		
		For Class 54 Rating, Add	369.29		
		For Class 55 Rating, Add	552.82		
		For Class 56 Rating, Add	733.93		
40 05 19 00-3248	EA	12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,323.83		410.17
		For Class 52 Rating, Deduct	-297.26		
		For Class 54 Rating, Add	412.81		
		For Class 55 Rating, Add	617.54		
		For Class 56 Rating, Add	819.57		
40 05 19 00-3249	EA	12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,617.90		413.01
		For Class 52 Rating, Deduct	-329.13		
		For Class 54 Rating, Add	456.33		
		For Class 55 Rating, Add	682.26		
		For Class 56 Rating, Add	905.20		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3250	EA	12"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	3,911.97 -361.01 499.84 746.98 990.84	415.86
40 05 19 00-3251	EA	12"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,206.06 -392.88 543.36 811.70 1,076.48	418.71
40 05 19 00-3252	EA	12"	Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,500.14 -424.76 586.88 876.42 1,162.11	421.57
40 05 19 00-3253	EA	12"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,794.21 -456.63 630.39 941.14 1,247.74	424.41
40 05 19 00-3254	EA	12"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,088.30 -488.50 673.91 1,005.87 1,333.38	427.26
40 05 19 00-3255	EA	12"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,382.38 -520.38 717.43 1,070.59 1,419.02	430.10
40 05 19 00-3256	EA	12"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,676.45 -552.25 760.94 1,135.31 1,504.65	432.94
40 05 19 00-3257	EA	12"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,970.53 -584.13 804.46 1,200.03 1,590.29	435.80
40 05 19 00-3258	EA	12"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,264.61 -616.00 847.97 1,264.75 1,675.92	438.65
40 05 19 00-3259	EA	12"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,558.69 -647.87 891.49 1,329.47 1,761.56	441.50
40 05 19 00-3260	EA	12"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,852.77 -679.75 935.01 1,394.19 1,847.20	444.34
40 05 19 00-3261	EA	12"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,146.85 -711.62 978.52 1,458.91 1,932.83	447.20
40 05 19 00-3262	EA	12"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,440.92 -743.49 1,022.04 1,523.63 2,018.46	450.05
40 05 19 00-3263	EA	12"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,735.00 -775.37 1,065.55 1,588.35 2,104.10	452.89

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3264	EA	12" Flanged x Plain End (FxE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,029.09		455.74
		For Class 52 Rating, Deduct	-807.24		
		For Class 54 Rating, Add	1,109.07		
		For Class 55 Rating, Add	1,653.07		
		For Class 56 Rating, Add	2,189.74		
40 05 19 00-3265	EA	12" Flanged x Plain End (FxE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,323.16		458.58
		For Class 52 Rating, Deduct	-839.12		
		For Class 54 Rating, Add	1,152.59		
		For Class 55 Rating, Add	1,717.79		
		For Class 56 Rating, Add	2,275.37		
40 05 19 00-3266	EA	12" Flanged x Plain End (FxE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,617.23		461.44
		For Class 52 Rating, Deduct	-870.99		
		For Class 54 Rating, Add	1,196.10		
		For Class 55 Rating, Add	1,782.51		
		For Class 56 Rating, Add	2,361.01		
40 05 19 00-3267	EA	12" Flanged x Plain End (FxE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,911.32		464.28
		For Class 52 Rating, Deduct	-902.86		
		For Class 54 Rating, Add	1,239.62		
		For Class 55 Rating, Add	1,847.24		
		For Class 56 Rating, Add	2,446.64		
40 05 19 00-3268	EA	12" Flanged x Plain End (FxE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,205.40		467.13
		For Class 52 Rating, Deduct	-934.74		
		For Class 54 Rating, Add	1,283.14		
		For Class 55 Rating, Add	1,911.96		
		For Class 56 Rating, Add	2,532.28		
40 05 19 00-3269	EA	12" Flanged x Plain End (FxE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,499.47		469.98
		For Class 52 Rating, Deduct	-966.61		
		For Class 54 Rating, Add	1,326.65		
		For Class 55 Rating, Add	1,976.68		
		For Class 56 Rating, Add	2,617.91		
40 05 19 00-3270	EA	12" Flanged x Plain End (FxE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,793.56		472.84
		For Class 52 Rating, Deduct	-998.49		
		For Class 54 Rating, Add	1,370.17		
		For Class 55 Rating, Add	2,041.40		
		For Class 56 Rating, Add	2,703.55		
40 05 19 00-3271	EA	12" Flanged x Plain End (FxE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,087.64		475.68
		For Class 52 Rating, Deduct	-1,030.36		
		For Class 54 Rating, Add	1,413.69		
		For Class 55 Rating, Add	2,106.12		
		For Class 56 Rating, Add	2,789.18		
40 05 19 00-3272	EA	12" Flanged x Plain End (FxE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,381.71		478.53
		For Class 52 Rating, Deduct	-1,062.23		
		For Class 54 Rating, Add	1,457.20		
		For Class 55 Rating, Add	2,170.84		
		For Class 56 Rating, Add	2,874.82		
40 05 19 00-3273	EA	12" Flanged x Plain End (FxE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,675.79		481.38
		For Class 52 Rating, Deduct	-1,094.11		
		For Class 54 Rating, Add	1,500.72		
		For Class 55 Rating, Add	2,235.56		
		For Class 56 Rating, Add	2,960.46		
40 05 19 00-3274	EA	12" Flanged x Plain End (FxE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,969.88		484.21
		For Class 52 Rating, Deduct	-1,125.98		
		For Class 54 Rating, Add	1,544.23		
		For Class 55 Rating, Add	2,300.28		
		For Class 56 Rating, Add	3,046.09		
40 05 19 00-3275	EA	12" Flanged x Plain End (FxE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	11,263.95		487.07
		For Class 52 Rating, Deduct	-1,157.86		
		For Class 54 Rating, Add	1,587.75		
		For Class 55 Rating, Add	2,365.00		
		For Class 56 Rating, Add	3,131.73		
40 05 19 00-3276	EA	12" Flanged x Plain End (FxE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	11,558.03		489.92
		For Class 52 Rating, Deduct	-1,189.73		
		For Class 54 Rating, Add	1,631.27		
		For Class 55 Rating, Add	2,429.72		
		For Class 56 Rating, Add	3,217.36		
40 05 19 00-3277	EA	12" Flanged x Plain End (FxE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	11,852.11		492.77
		For Class 52 Rating, Deduct	-1,221.60		
		For Class 54 Rating, Add	1,674.78		
		For Class 55 Rating, Add	2,494.44		
		For Class 56 Rating, Add	3,303.00		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3278	EA	12"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,146.19	495.61
			For Class 52 Rating, Deduct.....	-1,253.48	
			For Class 54 Rating, Add.....	1,718.30	
			For Class 55 Rating, Add.....	2,559.16	
			For Class 56 Rating, Add.....	3,388.63	
40 05 19 00-3279	EA	12"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,440.27	498.47
			For Class 52 Rating, Deduct.....	-1,285.35	
			For Class 54 Rating, Add.....	1,761.82	
			For Class 55 Rating, Add.....	2,623.89	
			For Class 56 Rating, Add.....	3,474.27	
40 05 19 00-3280	EA	12"	Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,734.34	501.32
			For Class 52 Rating, Deduct.....	-1,317.23	
			For Class 54 Rating, Add.....	1,805.33	
			For Class 55 Rating, Add.....	2,688.61	
			For Class 56 Rating, Add.....	3,559.90	
40 05 19 00-3281	EA	12"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,028.43	504.16
			For Class 52 Rating, Deduct.....	-1,349.10	
			For Class 54 Rating, Add.....	1,848.85	
			For Class 55 Rating, Add.....	2,753.33	
			For Class 56 Rating, Add.....	3,645.54	
40 05 19 00-3282	EA	12"	Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,322.51	507.01
			For Class 52 Rating, Deduct.....	-1,380.97	
			For Class 54 Rating, Add.....	1,892.36	
			For Class 55 Rating, Add.....	2,818.05	
			For Class 56 Rating, Add.....	3,731.18	
40 05 19 00-3283			14" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3284	EA	14"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,901.41	478.53
			For Class 52 Rating, Deduct.....	-239.40	
			For Class 54 Rating, Add.....	335.16	
			For Class 55 Rating, Add.....	502.73	
			For Class 56 Rating, Add.....	668.13	
40 05 19 00-3285	EA	14"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,258.48	481.38
			For Class 52 Rating, Deduct.....	-278.20	
			For Class 54 Rating, Add.....	388.12	
			For Class 55 Rating, Add.....	581.50	
			For Class 56 Rating, Add.....	772.35	
40 05 19 00-3286	EA	14"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,615.56	484.21
			For Class 52 Rating, Deduct.....	-317.01	
			For Class 54 Rating, Add.....	441.09	
			For Class 55 Rating, Add.....	660.27	
			For Class 56 Rating, Add.....	876.57	
40 05 19 00-3287	EA	14"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,972.63	487.07
			For Class 52 Rating, Deduct.....	-355.81	
			For Class 54 Rating, Add.....	494.05	
			For Class 55 Rating, Add.....	739.04	
			For Class 56 Rating, Add.....	980.79	
40 05 19 00-3288	EA	14"	Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,329.69	489.92
			For Class 52 Rating, Deduct.....	-394.61	
			For Class 54 Rating, Add.....	547.02	
			For Class 55 Rating, Add.....	817.80	
			For Class 56 Rating, Add.....	1,085.00	
40 05 19 00-3289	EA	14"	Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,686.77	492.77
			For Class 52 Rating, Deduct.....	-433.42	
			For Class 54 Rating, Add.....	599.98	
			For Class 55 Rating, Add.....	896.57	
			For Class 56 Rating, Add.....	1,189.22	
40 05 19 00-3290	EA	14"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,043.84	495.61
			For Class 52 Rating, Deduct.....	-472.22	
			For Class 54 Rating, Add.....	652.95	
			For Class 55 Rating, Add.....	975.34	
			For Class 56 Rating, Add.....	1,293.44	
40 05 19 00-3291	EA	14"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,400.91	498.47
			For Class 52 Rating, Deduct.....	-511.02	
			For Class 54 Rating, Add.....	705.91	
			For Class 55 Rating, Add.....	1,054.11	
			For Class 56 Rating, Add.....	1,397.66	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-3292	EA	14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,757.98		501.32
		For Class 52 Rating, Deduct	-549.83		
		For Class 54 Rating, Add	758.88		
		For Class 55 Rating, Add	1,132.88		
		For Class 56 Rating, Add	1,501.88		
40 05 19 00-3293	EA	14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,115.06		504.16
		For Class 52 Rating, Deduct	-588.63		
		For Class 54 Rating, Add	811.84		
		For Class 55 Rating, Add	1,211.64		
		For Class 56 Rating, Add	1,606.10		
40 05 19 00-3294	EA	14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,472.13		507.01
		For Class 52 Rating, Deduct	-627.43		
		For Class 54 Rating, Add	864.81		
		For Class 55 Rating, Add	1,290.41		
		For Class 56 Rating, Add	1,710.31		
40 05 19 00-3295	EA	14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,829.19		509.86
		For Class 52 Rating, Deduct	-666.23		
		For Class 54 Rating, Add	917.77		
		For Class 55 Rating, Add	1,369.18		
		For Class 56 Rating, Add	1,814.53		
40 05 19 00-3296	EA	14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,186.27		512.72
		For Class 52 Rating, Deduct	-705.04		
		For Class 54 Rating, Add	970.74		
		For Class 55 Rating, Add	1,447.95		
		For Class 56 Rating, Add	1,918.75		
40 05 19 00-3297	EA	14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,543.34		515.55
		For Class 52 Rating, Deduct	-743.84		
		For Class 54 Rating, Add	1,023.70		
		For Class 55 Rating, Add	1,526.72		
		For Class 56 Rating, Add	2,022.97		
40 05 19 00-3298	EA	14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,900.41		518.40
		For Class 52 Rating, Deduct	-782.64		
		For Class 54 Rating, Add	1,076.67		
		For Class 55 Rating, Add	1,605.48		
		For Class 56 Rating, Add	2,127.19		
40 05 19 00-3299	EA	14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,257.48		521.25
		For Class 52 Rating, Deduct	-821.45		
		For Class 54 Rating, Add	1,129.63		
		For Class 55 Rating, Add	1,684.25		
		For Class 56 Rating, Add	2,231.40		
40 05 19 00-3300	EA	14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,614.55		524.09
		For Class 52 Rating, Deduct	-860.25		
		For Class 54 Rating, Add	1,182.60		
		For Class 55 Rating, Add	1,763.02		
		For Class 56 Rating, Add	2,335.62		
40 05 19 00-3301	EA	14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,971.62		526.95
		For Class 52 Rating, Deduct	-899.05		
		For Class 54 Rating, Add	1,235.56		
		For Class 55 Rating, Add	1,841.79		
		For Class 56 Rating, Add	2,439.84		
40 05 19 00-3302	EA	14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,328.69		529.80
		For Class 52 Rating, Deduct	-937.86		
		For Class 54 Rating, Add	1,288.53		
		For Class 55 Rating, Add	1,920.56		
		For Class 56 Rating, Add	2,544.06		
40 05 19 00-3303	EA	14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,685.76		532.65
		For Class 52 Rating, Deduct	-976.66		
		For Class 54 Rating, Add	1,341.49		
		For Class 55 Rating, Add	1,999.32		
		For Class 56 Rating, Add	2,648.28		
40 05 19 00-3304	EA	14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,042.83		535.49
		For Class 52 Rating, Deduct	-1,015.46		
		For Class 54 Rating, Add	1,394.46		
		For Class 55 Rating, Add	2,078.09		
		For Class 56 Rating, Add	2,752.50		
40 05 19 00-3305	EA	14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,399.90		538.35
		For Class 52 Rating, Deduct	-1,054.27		
		For Class 54 Rating, Add	1,447.42		
		For Class 55 Rating, Add	2,156.86		
		For Class 56 Rating, Add	2,856.71		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3306	EA	14"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	10,756.98	541.19
			For Class 52 Rating, Deduct	-1,093.07	
			For Class 54 Rating, Add	1,500.39	
			For Class 55 Rating, Add	2,235.63	
			For Class 56 Rating, Add	2,960.93	
40 05 19 00-3307	EA	14"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	11,114.04	544.04
			For Class 52 Rating, Deduct	-1,131.87	
			For Class 54 Rating, Add	1,553.35	
			For Class 55 Rating, Add	2,314.40	
			For Class 56 Rating, Add	3,065.15	
40 05 19 00-3308	EA	14"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	11,471.12	546.88
			For Class 52 Rating, Deduct	-1,170.68	
			For Class 54 Rating, Add	1,606.32	
			For Class 55 Rating, Add	2,393.16	
			For Class 56 Rating, Add	3,169.37	
40 05 19 00-3309	EA	14"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	11,828.19	549.74
			For Class 52 Rating, Deduct	-1,209.48	
			For Class 54 Rating, Add	1,659.28	
			For Class 55 Rating, Add	2,471.93	
			For Class 56 Rating, Add	3,273.58	
40 05 19 00-3310	EA	14"	Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	12,185.26	552.59
			For Class 52 Rating, Deduct	-1,248.28	
			For Class 54 Rating, Add	1,712.25	
			For Class 55 Rating, Add	2,550.70	
			For Class 56 Rating, Add	3,377.80	
40 05 19 00-3311	EA	14"	Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	12,542.32	555.43
			For Class 52 Rating, Deduct	-1,287.08	
			For Class 54 Rating, Add	1,765.21	
			For Class 55 Rating, Add	2,629.47	
			For Class 56 Rating, Add	3,482.02	
40 05 19 00-3312	EA	14"	Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	12,899.41	558.28
			For Class 52 Rating, Deduct	-1,325.89	
			For Class 54 Rating, Add	1,818.18	
			For Class 55 Rating, Add	2,708.24	
			For Class 56 Rating, Add	3,586.24	
40 05 19 00-3313	EA	14"	Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	13,256.47	561.13
			For Class 52 Rating, Deduct	-1,364.69	
			For Class 54 Rating, Add	1,871.14	
			For Class 55 Rating, Add	2,787.00	
			For Class 56 Rating, Add	3,690.46	
40 05 19 00-3314	EA	14"	Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	13,613.54	563.99
			For Class 52 Rating, Deduct	-1,403.49	
			For Class 54 Rating, Add	1,924.11	
			For Class 55 Rating, Add	2,865.77	
			For Class 56 Rating, Add	3,794.68	
40 05 19 00-3315	EA	14"	Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	13,970.60	566.83
			For Class 52 Rating, Deduct	-1,442.30	
			For Class 54 Rating, Add	1,977.07	
			For Class 55 Rating, Add	2,944.54	
			For Class 56 Rating, Add	3,898.89	
40 05 19 00-3316	EA	14"	Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	14,327.69	569.67
			For Class 52 Rating, Deduct	-1,481.10	
			For Class 54 Rating, Add	2,030.04	
			For Class 55 Rating, Add	3,023.31	
			For Class 56 Rating, Add	4,003.11	
40 05 19 00-3317	EA	14"	Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	14,684.76	572.52
			For Class 52 Rating, Deduct	-1,519.90	
			For Class 54 Rating, Add	2,083.00	
			For Class 55 Rating, Add	3,102.08	
			For Class 56 Rating, Add	4,107.33	
40 05 19 00-3318	EA	14"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,041.82	575.36
			For Class 52 Rating, Deduct	-1,558.71	
			For Class 54 Rating, Add	2,135.97	
			For Class 55 Rating, Add	3,180.84	
			For Class 56 Rating, Add	4,211.55	
40 05 19 00-3319	EA	14"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,398.90	578.22
			For Class 52 Rating, Deduct	-1,597.51	
			For Class 54 Rating, Add	2,188.93	
			For Class 55 Rating, Add	3,259.61	
			For Class 56 Rating, Add	4,315.77	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3320	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,755.97		581.07
		For Class 52 Rating, Deduct	-1,636.31		
		For Class 54 Rating, Add	2,241.90		
		For Class 55 Rating, Add	3,338.38		
		For Class 56 Rating, Add	4,419.98		
40 05 19 00-3321	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,113.04		583.92
		For Class 52 Rating, Deduct	-1,675.12		
		For Class 54 Rating, Add	2,294.86		
		For Class 55 Rating, Add	3,417.15		
		For Class 56 Rating, Add	4,524.20		
40 05 19 00-3322 16" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)					
40 05 19 00-3323	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,395.54		546.88
		For Class 52 Rating, Deduct	-282.36		
		For Class 54 Rating, Add	394.98		
		For Class 55 Rating, Add	592.31		
		For Class 56 Rating, Add	787.07		
40 05 19 00-3324	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,809.31		549.74
		For Class 52 Rating, Deduct	-327.40		
		For Class 54 Rating, Add	456.45		
		For Class 55 Rating, Add	683.72		
		For Class 56 Rating, Add	908.01		
40 05 19 00-3325	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,223.07		552.59
		For Class 52 Rating, Deduct	-372.44		
		For Class 54 Rating, Add	517.92		
		For Class 55 Rating, Add	775.13		
		For Class 56 Rating, Add	1,028.96		
40 05 19 00-3326	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,636.83		555.43
		For Class 52 Rating, Deduct	-417.48		
		For Class 54 Rating, Add	579.39		
		For Class 55 Rating, Add	866.54		
		For Class 56 Rating, Add	1,149.90		
40 05 19 00-3327	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,050.61		558.28
		For Class 52 Rating, Deduct	-462.52		
		For Class 54 Rating, Add	640.86		
		For Class 55 Rating, Add	957.95		
		For Class 56 Rating, Add	1,270.84		
40 05 19 00-3328	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,464.36		561.13
		For Class 52 Rating, Deduct	-507.56		
		For Class 54 Rating, Add	702.33		
		For Class 55 Rating, Add	1,049.36		
		For Class 56 Rating, Add	1,391.78		
40 05 19 00-3329	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,878.12		563.99
		For Class 52 Rating, Deduct	-552.60		
		For Class 54 Rating, Add	763.80		
		For Class 55 Rating, Add	1,140.77		
		For Class 56 Rating, Add	1,512.73		
40 05 19 00-3330	EA	16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,291.88		566.83
		For Class 52 Rating, Deduct	-597.64		
		For Class 54 Rating, Add	825.26		
		For Class 55 Rating, Add	1,232.18		
		For Class 56 Rating, Add	1,633.67		
40 05 19 00-3331	EA	16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,705.66		569.67
		For Class 52 Rating, Deduct	-642.68		
		For Class 54 Rating, Add	886.73		
		For Class 55 Rating, Add	1,323.60		
		For Class 56 Rating, Add	1,754.61		
40 05 19 00-3332	EA	16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,119.42		572.52
		For Class 52 Rating, Deduct	-687.72		
		For Class 54 Rating, Add	948.20		
		For Class 55 Rating, Add	1,415.01		
		For Class 56 Rating, Add	1,875.56		
40 05 19 00-3333	EA	16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,533.17		575.36
		For Class 52 Rating, Deduct	-732.75		
		For Class 54 Rating, Add	1,009.67		
		For Class 55 Rating, Add	1,506.41		
		For Class 56 Rating, Add	1,996.50		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3334	EA	16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	7,946.94	578.22	
		For Class 52 Rating, Deduct	-777.79		
		For Class 54 Rating, Add	1,071.14		
		For Class 55 Rating, Add	1,597.83		
		For Class 56 Rating, Add	2,117.44		
40 05 19 00-3335	EA	16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	8,360.71	581.07	
		For Class 52 Rating, Deduct	-822.83		
		For Class 54 Rating, Add	1,132.61		
		For Class 55 Rating, Add	1,689.24		
		For Class 56 Rating, Add	2,238.38		
40 05 19 00-3336	EA	16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	8,774.47	583.92	
		For Class 52 Rating, Deduct	-867.87		
		For Class 54 Rating, Add	1,194.08		
		For Class 55 Rating, Add	1,780.65		
		For Class 56 Rating, Add	2,359.33		
40 05 19 00-3337	EA	16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	9,188.24	586.76	
		For Class 52 Rating, Deduct	-912.91		
		For Class 54 Rating, Add	1,255.55		
		For Class 55 Rating, Add	1,872.06		
		For Class 56 Rating, Add	2,480.27		
40 05 19 00-3338	EA	16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	9,602.00	589.62	
		For Class 52 Rating, Deduct	-957.95		
		For Class 54 Rating, Add	1,317.02		
		For Class 55 Rating, Add	1,963.47		
		For Class 56 Rating, Add	2,601.21		
40 05 19 00-3339	EA	16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,015.76	592.47	
		For Class 52 Rating, Deduct	-1,002.99		
		For Class 54 Rating, Add	1,378.49		
		For Class 55 Rating, Add	2,054.88		
		For Class 56 Rating, Add	2,722.15		
40 05 19 00-3340	EA	16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,429.52	595.30	
		For Class 52 Rating, Deduct	-1,048.03		
		For Class 54 Rating, Add	1,439.95		
		For Class 55 Rating, Add	2,146.29		
		For Class 56 Rating, Add	2,843.10		
40 05 19 00-3341	EA	16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,843.29	598.15	
		For Class 52 Rating, Deduct	-1,093.07		
		For Class 54 Rating, Add	1,501.42		
		For Class 55 Rating, Add	2,237.70		
		For Class 56 Rating, Add	2,964.04		
40 05 19 00-3342	EA	16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,257.06	601.01	
		For Class 52 Rating, Deduct	-1,138.11		
		For Class 54 Rating, Add	1,562.89		
		For Class 55 Rating, Add	2,329.11		
		For Class 56 Rating, Add	3,084.98		
40 05 19 00-3343	EA	16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,670.81	603.86	
		For Class 52 Rating, Deduct	-1,183.15		
		For Class 54 Rating, Add	1,624.36		
		For Class 55 Rating, Add	2,420.52		
		For Class 56 Rating, Add	3,205.92		
40 05 19 00-3344	EA	16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	12,084.58	606.70	
		For Class 52 Rating, Deduct	-1,228.19		
		For Class 54 Rating, Add	1,685.83		
		For Class 55 Rating, Add	2,511.93		
		For Class 56 Rating, Add	3,326.87		
40 05 19 00-3345	EA	16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	12,498.34	609.55	
		For Class 52 Rating, Deduct	-1,273.23		
		For Class 54 Rating, Add	1,747.30		
		For Class 55 Rating, Add	2,603.34		
		For Class 56 Rating, Add	3,447.81		
40 05 19 00-3346	EA	16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	12,912.11	612.40	
		For Class 52 Rating, Deduct	-1,318.27		
		For Class 54 Rating, Add	1,808.77		
		For Class 55 Rating, Add	2,694.75		
		For Class 56 Rating, Add	3,568.75		
40 05 19 00-3347	EA	16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	13,325.88	615.26	
		For Class 52 Rating, Deduct	-1,363.30		
		For Class 54 Rating, Add	1,870.24		
		For Class 55 Rating, Add	2,786.16		
		For Class 56 Rating, Add	3,689.69		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-3348	EA	16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,739.63		618.10	
		For Class 52 Rating, Deduct	-1,408.34			
		For Class 54 Rating, Add	1,931.71			
		For Class 55 Rating, Add	2,877.57			
		For Class 56 Rating, Add	3,810.63			
40 05 19 00-3349	EA	16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,153.40		620.95	
		For Class 52 Rating, Deduct	-1,453.38			
		For Class 54 Rating, Add	1,993.18			
		For Class 55 Rating, Add	2,968.98			
		For Class 56 Rating, Add	3,931.58			
40 05 19 00-3350	EA	16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,567.16		623.80	
		For Class 52 Rating, Deduct	-1,498.42			
		For Class 54 Rating, Add	2,054.64			
		For Class 55 Rating, Add	3,060.39			
		For Class 56 Rating, Add	4,052.52			
40 05 19 00-3351	EA	16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,980.93		626.63	
		For Class 52 Rating, Deduct	-1,543.46			
		For Class 54 Rating, Add	2,116.11			
		For Class 55 Rating, Add	3,151.80			
		For Class 56 Rating, Add	4,173.46			
40 05 19 00-3352	EA	16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,394.69		629.49	
		For Class 52 Rating, Deduct	-1,588.50			
		For Class 54 Rating, Add	2,177.58			
		For Class 55 Rating, Add	3,243.22			
		For Class 56 Rating, Add	4,294.41			
40 05 19 00-3353	EA	16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,808.45		632.34	
		For Class 52 Rating, Deduct	-1,633.54			
		For Class 54 Rating, Add	2,239.05			
		For Class 55 Rating, Add	3,334.62			
		For Class 56 Rating, Add	4,415.35			
40 05 19 00-3354	EA	16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,222.22		635.19	
		For Class 52 Rating, Deduct	-1,678.58			
		For Class 54 Rating, Add	2,300.52			
		For Class 55 Rating, Add	3,426.04			
		For Class 56 Rating, Add	4,536.29			
40 05 19 00-3355	EA	16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,635.98		638.03	
		For Class 52 Rating, Deduct	-1,723.62			
		For Class 54 Rating, Add	2,361.99			
		For Class 55 Rating, Add	3,517.45			
		For Class 56 Rating, Add	4,657.23			
40 05 19 00-3356	EA	16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,049.74		640.89	
		For Class 52 Rating, Deduct	-1,768.66			
		For Class 54 Rating, Add	2,423.46			
		For Class 55 Rating, Add	3,608.86			
		For Class 56 Rating, Add	4,778.18			
40 05 19 00-3357	EA	16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,463.52		643.74	
		For Class 52 Rating, Deduct	-1,813.70			
		For Class 54 Rating, Add	2,484.93			
		For Class 55 Rating, Add	3,700.27			
		For Class 56 Rating, Add	4,899.12			
40 05 19 00-3358	EA	16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,877.27		646.58	
		For Class 52 Rating, Deduct	-1,858.74			
		For Class 54 Rating, Add	2,546.40			
		For Class 55 Rating, Add	3,791.68			
		For Class 56 Rating, Add	5,020.06			
40 05 19 00-3359	EA	16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,291.03		649.43	
		For Class 52 Rating, Deduct	-1,903.78			
		For Class 54 Rating, Add	2,607.87			
		For Class 55 Rating, Add	3,883.09			
		For Class 56 Rating, Add	5,141.00			
40 05 19 00-3360	EA	16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,704.80		652.27	
		For Class 52 Rating, Deduct	-1,948.82			
		For Class 54 Rating, Add	2,669.33			
		For Class 55 Rating, Add	3,974.50			
		For Class 56 Rating, Add	5,261.95			

40 05 19 00-3361 18" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3362	EA		18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,941.80	616.39
			For Class 52 Rating, Deduct	-330.87	
			For Class 54 Rating, Add	462.39	
			For Class 55 Rating, Add	693.17	
			For Class 56 Rating, Add	920.94	
40 05 19 00-3363	EA		18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,418.55	619.24
			For Class 52 Rating, Deduct	-382.83	
			For Class 54 Rating, Add	533.31	
			For Class 55 Rating, Add	798.63	
			For Class 56 Rating, Add	1,060.47	
40 05 19 00-3364	EA		18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,895.30	622.09
			For Class 52 Rating, Deduct	-434.80	
			For Class 54 Rating, Add	604.22	
			For Class 55 Rating, Add	904.08	
			For Class 56 Rating, Add	1,199.99	
40 05 19 00-3365	EA		18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,372.06	624.94
			For Class 52 Rating, Deduct	-486.77	
			For Class 54 Rating, Add	675.14	
			For Class 55 Rating, Add	1,009.54	
			For Class 56 Rating, Add	1,339.52	
40 05 19 00-3366	EA		18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,848.82	627.79
			For Class 52 Rating, Deduct	-538.74	
			For Class 54 Rating, Add	746.06	
			For Class 55 Rating, Add	1,115.00	
			For Class 56 Rating, Add	1,479.04	
40 05 19 00-3367	EA		18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	6,325.57	630.62
			For Class 52 Rating, Deduct	-590.71	
			For Class 54 Rating, Add	816.98	
			For Class 55 Rating, Add	1,220.46	
			For Class 56 Rating, Add	1,618.57	
40 05 19 00-3368	EA		18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	6,802.33	633.47
			For Class 52 Rating, Deduct	-642.68	
			For Class 54 Rating, Add	887.89	
			For Class 55 Rating, Add	1,325.92	
			For Class 56 Rating, Add	1,758.09	
40 05 19 00-3369	EA		18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	7,279.09	636.33
			For Class 52 Rating, Deduct	-694.64	
			For Class 54 Rating, Add	958.81	
			For Class 55 Rating, Add	1,431.37	
			For Class 56 Rating, Add	1,897.62	
40 05 19 00-3370	EA		18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	7,755.84	639.18
			For Class 52 Rating, Deduct	-746.61	
			For Class 54 Rating, Add	1,029.73	
			For Class 55 Rating, Add	1,536.83	
			For Class 56 Rating, Add	2,037.14	
40 05 19 00-3371	EA		18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	8,232.59	642.02
			For Class 52 Rating, Deduct	-798.58	
			For Class 54 Rating, Add	1,100.65	
			For Class 55 Rating, Add	1,642.29	
			For Class 56 Rating, Add	2,176.67	
40 05 19 00-3372	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	8,709.36	644.87
			For Class 52 Rating, Deduct	-850.55	
			For Class 54 Rating, Add	1,171.57	
			For Class 55 Rating, Add	1,747.75	
			For Class 56 Rating, Add	2,316.19	
40 05 19 00-3373	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	9,186.11	647.73
			For Class 52 Rating, Deduct	-902.52	
			For Class 54 Rating, Add	1,242.48	
			For Class 55 Rating, Add	1,853.20	
			For Class 56 Rating, Add	2,455.72	
40 05 19 00-3374	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	9,662.86	650.57
			For Class 52 Rating, Deduct	-954.49	
			For Class 54 Rating, Add	1,313.40	
			For Class 55 Rating, Add	1,958.66	
			For Class 56 Rating, Add	2,595.24	
40 05 19 00-3375	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	10,139.61	653.42
			For Class 52 Rating, Deduct	-1,006.45	
			For Class 54 Rating, Add	1,384.32	
			For Class 55 Rating, Add	2,064.12	
			For Class 56 Rating, Add	2,734.77	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3376	EA	18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,616.38		656.27
		For Class 52 Rating, Deduct	-1,058.42		
		For Class 54 Rating, Add	1,455.24		
		For Class 55 Rating, Add	2,169.58		
		For Class 56 Rating, Add	2,874.30		
40 05 19 00-3377	EA	18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	11,093.13		659.11
		For Class 52 Rating, Deduct	-1,110.39		
		For Class 54 Rating, Add	1,526.15		
		For Class 55 Rating, Add	2,275.03		
		For Class 56 Rating, Add	3,013.82		
40 05 19 00-3378	EA	18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	11,569.88		661.96
		For Class 52 Rating, Deduct	-1,162.36		
		For Class 54 Rating, Add	1,597.07		
		For Class 55 Rating, Add	2,380.49		
		For Class 56 Rating, Add	3,153.35		
40 05 19 00-3379	EA	18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	12,046.64		664.81
		For Class 52 Rating, Deduct	-1,214.33		
		For Class 54 Rating, Add	1,667.99		
		For Class 55 Rating, Add	2,485.95		
		For Class 56 Rating, Add	3,292.87		
40 05 19 00-3380	EA	18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	12,523.40		667.66
		For Class 52 Rating, Deduct	-1,266.30		
		For Class 54 Rating, Add	1,738.91		
		For Class 55 Rating, Add	2,591.41		
		For Class 56 Rating, Add	3,432.40		
40 05 19 00-3381	EA	18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	13,000.15		670.50
		For Class 52 Rating, Deduct	-1,318.27		
		For Class 54 Rating, Add	1,809.83		
		For Class 55 Rating, Add	2,696.87		
		For Class 56 Rating, Add	3,571.92		
40 05 19 00-3382	EA	18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	13,476.91		673.35
		For Class 52 Rating, Deduct	-1,370.23		
		For Class 54 Rating, Add	1,880.74		
		For Class 55 Rating, Add	2,802.32		
		For Class 56 Rating, Add	3,711.45		
40 05 19 00-3383	EA	18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	13,953.67		676.21
		For Class 52 Rating, Deduct	-1,422.20		
		For Class 54 Rating, Add	1,951.66		
		For Class 55 Rating, Add	2,907.78		
		For Class 56 Rating, Add	3,850.97		
40 05 19 00-3384	EA	18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	14,430.42		679.06
		For Class 52 Rating, Deduct	-1,474.17		
		For Class 54 Rating, Add	2,022.58		
		For Class 55 Rating, Add	3,013.24		
		For Class 56 Rating, Add	3,990.50		
40 05 19 00-3385	EA	18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	14,907.18		681.90
		For Class 52 Rating, Deduct	-1,526.14		
		For Class 54 Rating, Add	2,093.50		
		For Class 55 Rating, Add	3,118.70		
		For Class 56 Rating, Add	4,130.02		
40 05 19 00-3386	EA	18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	15,383.93		684.74
		For Class 52 Rating, Deduct	-1,578.11		
		For Class 54 Rating, Add	2,164.41		
		For Class 55 Rating, Add	3,224.15		
		For Class 56 Rating, Add	4,269.55		
40 05 19 00-3387	EA	18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	15,860.69		687.60
		For Class 52 Rating, Deduct	-1,630.08		
		For Class 54 Rating, Add	2,235.33		
		For Class 55 Rating, Add	3,329.61		
		For Class 56 Rating, Add	4,409.07		
40 05 19 00-3388	EA	18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	16,337.44		690.45
		For Class 52 Rating, Deduct	-1,682.04		
		For Class 54 Rating, Add	2,306.25		
		For Class 55 Rating, Add	3,435.07		
		For Class 56 Rating, Add	4,548.60		
40 05 19 00-3389	EA	18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	16,814.20		693.29
		For Class 52 Rating, Deduct	-1,734.01		
		For Class 54 Rating, Add	2,377.17		
		For Class 55 Rating, Add	3,540.53		
		For Class 56 Rating, Add	4,688.12		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3390	EA		18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	17,290.95	696.14
			For Class 52 Rating, Deduct.....	-1,785.98	
			For Class 54 Rating, Add.....	2,448.09	
			For Class 55 Rating, Add.....	3,645.98	
			For Class 56 Rating, Add.....	4,827.65	
40 05 19 00-3391	EA		18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	17,767.71	699.00
			For Class 52 Rating, Deduct.....	-1,837.95	
			For Class 54 Rating, Add.....	2,519.00	
			For Class 55 Rating, Add.....	3,751.44	
			For Class 56 Rating, Add.....	4,967.17	
40 05 19 00-3392	EA		18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	18,244.47	701.84
			For Class 52 Rating, Deduct.....	-1,889.92	
			For Class 54 Rating, Add.....	2,589.92	
			For Class 55 Rating, Add.....	3,856.90	
			For Class 56 Rating, Add.....	5,106.70	
40 05 19 00-3393	EA		18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	18,721.22	704.69
			For Class 52 Rating, Deduct.....	-1,941.89	
			For Class 54 Rating, Add.....	2,660.84	
			For Class 55 Rating, Add.....	3,962.36	
			For Class 56 Rating, Add.....	5,246.22	
40 05 19 00-3394	EA		18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	19,197.98	707.54
			For Class 52 Rating, Deduct.....	-1,993.85	
			For Class 54 Rating, Add.....	2,731.76	
			For Class 55 Rating, Add.....	4,067.82	
			For Class 56 Rating, Add.....	5,385.75	
40 05 19 00-3395	EA		18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	19,674.74	710.39
			For Class 52 Rating, Deduct.....	-2,045.82	
			For Class 54 Rating, Add.....	2,802.67	
			For Class 55 Rating, Add.....	4,173.27	
			For Class 56 Rating, Add.....	5,525.27	
40 05 19 00-3396	EA		18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	20,151.49	713.23
			For Class 52 Rating, Deduct.....	-2,097.79	
			For Class 54 Rating, Add.....	2,873.59	
			For Class 55 Rating, Add.....	4,278.73	
			For Class 56 Rating, Add.....	5,664.80	
40 05 19 00-3397	EA		18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	20,628.24	716.08
			For Class 52 Rating, Deduct.....	-2,149.76	
			For Class 54 Rating, Add.....	2,944.51	
			For Class 55 Rating, Add.....	4,384.19	
			For Class 56 Rating, Add.....	5,804.32	
40 05 19 00-3398	EA		18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	21,105.00	718.93
			For Class 52 Rating, Deduct.....	-2,201.73	
			For Class 54 Rating, Add.....	3,015.43	
			For Class 55 Rating, Add.....	4,489.65	
			For Class 56 Rating, Add.....	5,943.85	
40 05 19 00-3399	EA		18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	21,581.76	721.77
			For Class 52 Rating, Deduct.....	-2,253.70	
			For Class 54 Rating, Add.....	3,086.35	
			For Class 55 Rating, Add.....	4,595.10	
			For Class 56 Rating, Add.....	6,083.37	
40 05 19 00-3400			20" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3401	EA		20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,593.53	703.55
			For Class 52 Rating, Deduct.....	-388.03	
			For Class 54 Rating, Add.....	541.92	
			For Class 55 Rating, Add.....	812.23	
			For Class 56 Rating, Add.....	1,079.00	
40 05 19 00-3402	EA		20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,136.43	706.41
			For Class 52 Rating, Deduct.....	-447.27	
			For Class 54 Rating, Add.....	622.76	
			For Class 55 Rating, Add.....	932.43	
			For Class 56 Rating, Add.....	1,238.04	
40 05 19 00-3403	EA		20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,679.34	709.24
			For Class 52 Rating, Deduct.....	-506.52	
			For Class 54 Rating, Add.....	703.60	
			For Class 55 Rating, Add.....	1,052.64	
			For Class 56 Rating, Add.....	1,397.08	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3404	EA	20" Flanged x Plain End (FxEPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,222.23		712.09
		For Class 52 Rating, Deduct	-565.76		
		For Class 54 Rating, Add	784.44		
		For Class 55 Rating, Add	1,172.85		
		For Class 56 Rating, Add	1,556.11		
40 05 19 00-3405	EA	20" Flanged x Plain End (FxEPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,765.12		714.94
		For Class 52 Rating, Deduct	-625.01		
		For Class 54 Rating, Add	865.28		
		For Class 55 Rating, Add	1,293.06		
		For Class 56 Rating, Add	1,715.15		
40 05 19 00-3406	EA	20" Flanged x Plain End (FxEPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,308.03		717.78
		For Class 52 Rating, Deduct	-684.25		
		For Class 54 Rating, Add	946.12		
		For Class 55 Rating, Add	1,413.26		
		For Class 56 Rating, Add	1,874.19		
40 05 19 00-3407	EA	20" Flanged x Plain End (FxEPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,850.92		720.64
		For Class 52 Rating, Deduct	-743.49		
		For Class 54 Rating, Add	1,026.96		
		For Class 55 Rating, Add	1,533.47		
		For Class 56 Rating, Add	2,033.22		
40 05 19 00-3408	EA	20" Flanged x Plain End (FxEPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,393.81		723.49
		For Class 52 Rating, Deduct	-802.74		
		For Class 54 Rating, Add	1,107.80		
		For Class 55 Rating, Add	1,653.68		
		For Class 56 Rating, Add	2,192.26		
40 05 19 00-3409	EA	20" Flanged x Plain End (FxEPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,936.70		726.34
		For Class 52 Rating, Deduct	-861.98		
		For Class 54 Rating, Add	1,188.64		
		For Class 55 Rating, Add	1,773.88		
		For Class 56 Rating, Add	2,351.30		
40 05 19 00-3410	EA	20" Flanged x Plain End (FxEPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,479.62		729.18
		For Class 52 Rating, Deduct	-921.23		
		For Class 54 Rating, Add	1,269.48		
		For Class 55 Rating, Add	1,894.09		
		For Class 56 Rating, Add	2,510.34		
40 05 19 00-3411	EA	20" Flanged x Plain End (FxEPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,022.51		732.04
		For Class 52 Rating, Deduct	-980.47		
		For Class 54 Rating, Add	1,350.32		
		For Class 55 Rating, Add	2,014.30		
		For Class 56 Rating, Add	2,669.37		
40 05 19 00-3412	EA	20" Flanged x Plain End (FxEPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,565.40		734.88
		For Class 52 Rating, Deduct	-1,039.71		
		For Class 54 Rating, Add	1,431.15		
		For Class 55 Rating, Add	2,134.51		
		For Class 56 Rating, Add	2,828.41		
40 05 19 00-3413	EA	20" Flanged x Plain End (FxEPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	11,108.31		737.72
		For Class 52 Rating, Deduct	-1,098.96		
		For Class 54 Rating, Add	1,511.99		
		For Class 55 Rating, Add	2,254.71		
		For Class 56 Rating, Add	2,987.45		
40 05 19 00-3414	EA	20" Flanged x Plain End (FxEPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	11,651.20		740.57
		For Class 52 Rating, Deduct	-1,158.20		
		For Class 54 Rating, Add	1,592.83		
		For Class 55 Rating, Add	2,374.92		
		For Class 56 Rating, Add	3,146.48		
40 05 19 00-3415	EA	20" Flanged x Plain End (FxEPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	12,194.09		743.43
		For Class 52 Rating, Deduct	-1,217.45		
		For Class 54 Rating, Add	1,673.67		
		For Class 55 Rating, Add	2,495.13		
		For Class 56 Rating, Add	3,305.52		
40 05 19 00-3416	EA	20" Flanged x Plain End (FxEPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	12,737.00		746.28
		For Class 52 Rating, Deduct	-1,276.69		
		For Class 54 Rating, Add	1,754.51		
		For Class 55 Rating, Add	2,615.34		
		For Class 56 Rating, Add	3,464.56		
40 05 19 00-3417	EA	20" Flanged x Plain End (FxEPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	13,279.90		749.12
		For Class 52 Rating, Deduct	-1,335.93		
		For Class 54 Rating, Add	1,835.35		
		For Class 55 Rating, Add	2,735.54		
		For Class 56 Rating, Add	3,623.60		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3418	EA		20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	13,822.79	751.97
			For Class 52 Rating, Deduct	-1,395.18	
			For Class 54 Rating, Add	1,916.19	
			For Class 55 Rating, Add	2,855.75	
			For Class 56 Rating, Add	3,782.63	
40 05 19 00-3419	EA		20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	14,365.68	754.82
			For Class 52 Rating, Deduct	-1,454.42	
			For Class 54 Rating, Add	1,997.03	
			For Class 55 Rating, Add	2,975.96	
			For Class 56 Rating, Add	3,941.67	
40 05 19 00-3420	EA		20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	14,908.58	757.68
			For Class 52 Rating, Deduct	-1,513.67	
			For Class 54 Rating, Add	2,077.87	
			For Class 55 Rating, Add	3,096.17	
			For Class 56 Rating, Add	4,100.70	
40 05 19 00-3421	EA		20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,451.48	760.52
			For Class 52 Rating, Deduct	-1,572.91	
			For Class 54 Rating, Add	2,158.70	
			For Class 55 Rating, Add	3,216.37	
			For Class 56 Rating, Add	4,259.74	
40 05 19 00-3422	EA		20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,994.38	763.36
			For Class 52 Rating, Deduct	-1,632.15	
			For Class 54 Rating, Add	2,239.54	
			For Class 55 Rating, Add	3,336.58	
			For Class 56 Rating, Add	4,418.78	
40 05 19 00-3423	EA		20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	16,537.28	766.21
			For Class 52 Rating, Deduct	-1,691.40	
			For Class 54 Rating, Add	2,320.38	
			For Class 55 Rating, Add	3,456.79	
			For Class 56 Rating, Add	4,577.82	
40 05 19 00-3424	EA		20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	17,080.17	769.05
			For Class 52 Rating, Deduct	-1,750.64	
			For Class 54 Rating, Add	2,401.22	
			For Class 55 Rating, Add	3,577.00	
			For Class 56 Rating, Add	4,736.85	
40 05 19 00-3425	EA		20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	17,623.07	771.91
			For Class 52 Rating, Deduct	-1,809.89	
			For Class 54 Rating, Add	2,482.06	
			For Class 55 Rating, Add	3,697.20	
			For Class 56 Rating, Add	4,895.89	
40 05 19 00-3426	EA		20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	18,165.97	774.76
			For Class 52 Rating, Deduct	-1,869.13	
			For Class 54 Rating, Add	2,562.90	
			For Class 55 Rating, Add	3,817.41	
			For Class 56 Rating, Add	5,054.93	
40 05 19 00-3427	EA		20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	18,708.86	777.61
			For Class 52 Rating, Deduct	-1,928.37	
			For Class 54 Rating, Add	2,643.74	
			For Class 55 Rating, Add	3,937.62	
			For Class 56 Rating, Add	5,213.96	
40 05 19 00-3428	EA		20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	19,251.77	780.45
			For Class 52 Rating, Deduct	-1,987.62	
			For Class 54 Rating, Add	2,724.58	
			For Class 55 Rating, Add	4,057.83	
			For Class 56 Rating, Add	5,373.00	
40 05 19 00-3429	EA		20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	19,794.66	783.31
			For Class 52 Rating, Deduct	-2,046.86	
			For Class 54 Rating, Add	2,805.42	
			For Class 55 Rating, Add	4,178.03	
			For Class 56 Rating, Add	5,532.04	
40 05 19 00-3430	EA		20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	20,337.56	786.16
			For Class 52 Rating, Deduct	-2,106.11	
			For Class 54 Rating, Add	2,886.26	
			For Class 55 Rating, Add	4,298.24	
			For Class 56 Rating, Add	5,691.07	
40 05 19 00-3431	EA		20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	20,880.45	788.99
			For Class 52 Rating, Deduct	-2,165.35	
			For Class 54 Rating, Add	2,967.10	
			For Class 55 Rating, Add	4,418.45	
			For Class 56 Rating, Add	5,850.11	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3432	EA	20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,423.35		791.84
		For Class 52 Rating, Deduct	-2,224.59		
		For Class 54 Rating, Add	3,047.93		
		For Class 55 Rating, Add	4,538.65		
		For Class 56 Rating, Add	6,009.15		
40 05 19 00-3433	EA	20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,966.25		794.70
		For Class 52 Rating, Deduct	-2,283.84		
		For Class 54 Rating, Add	3,128.77		
		For Class 55 Rating, Add	4,658.86		
		For Class 56 Rating, Add	6,168.18		
40 05 19 00-3434	EA	20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,509.14		797.55
		For Class 52 Rating, Deduct	-2,343.08		
		For Class 54 Rating, Add	3,209.61		
		For Class 55 Rating, Add	4,779.07		
		For Class 56 Rating, Add	6,327.22		
40 05 19 00-3435	EA	20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,052.04		800.39
		For Class 52 Rating, Deduct	-2,402.33		
		For Class 54 Rating, Add	3,290.45		
		For Class 55 Rating, Add	4,899.28		
		For Class 56 Rating, Add	6,486.26		
40 05 19 00-3436	EA	20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,594.95		803.24
		For Class 52 Rating, Deduct	-2,461.57		
		For Class 54 Rating, Add	3,371.29		
		For Class 55 Rating, Add	5,019.48		
		For Class 56 Rating, Add	6,645.30		
40 05 19 00-3437	EA	20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,137.84		806.09
		For Class 52 Rating, Deduct	-2,520.81		
		For Class 54 Rating, Add	3,452.13		
		For Class 55 Rating, Add	5,139.69		
		For Class 56 Rating, Add	6,804.33		
40 05 19 00-3438	EA	20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,680.73		808.94
		For Class 52 Rating, Deduct	-2,580.06		
		For Class 54 Rating, Add	3,532.97		
		For Class 55 Rating, Add	5,259.90		
		For Class 56 Rating, Add	6,963.37		
40 05 19 00-3439 24" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)					
40 05 19 00-3440	EA	24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,663.33		831.72
		For Class 52 Rating, Deduct	-484.35		
		For Class 54 Rating, Add	675.59		
		For Class 55 Rating, Add	1,012.14		
		For Class 56 Rating, Add	1,344.29		
40 05 19 00-3441	EA	24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,335.37		834.58
		For Class 52 Rating, Deduct	-557.79		
		For Class 54 Rating, Add	775.80		
		For Class 55 Rating, Add	1,161.15		
		For Class 56 Rating, Add	1,541.43		
40 05 19 00-3442	EA	24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,007.39		837.43
		For Class 52 Rating, Deduct	-631.24		
		For Class 54 Rating, Add	876.01		
		For Class 55 Rating, Add	1,310.15		
		For Class 56 Rating, Add	1,738.56		
40 05 19 00-3443	EA	24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,679.43		840.27
		For Class 52 Rating, Deduct	-704.69		
		For Class 54 Rating, Add	976.22		
		For Class 55 Rating, Add	1,459.16		
		For Class 56 Rating, Add	1,935.69		
40 05 19 00-3444	EA	24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,351.45		843.12
		For Class 52 Rating, Deduct	-778.14		
		For Class 54 Rating, Add	1,076.43		
		For Class 55 Rating, Add	1,608.16		
		For Class 56 Rating, Add	2,132.82		
40 05 19 00-3445	EA	24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,023.49		845.96
		For Class 52 Rating, Deduct	-851.59		
		For Class 54 Rating, Add	1,176.64		
		For Class 55 Rating, Add	1,757.17		
		For Class 56 Rating, Add	2,329.95		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3446	EA	24"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,695.51	848.82
			For Class 52 Rating, Deduct	-925.04	
			For Class 54 Rating, Add	1,276.85	
			For Class 55 Rating, Add	1,906.17	
			For Class 56 Rating, Add	2,527.08	
40 05 19 00-3447	EA	24"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,367.55	851.66
			For Class 52 Rating, Deduct	-998.49	
			For Class 54 Rating, Add	1,377.06	
			For Class 55 Rating, Add	2,055.17	
			For Class 56 Rating, Add	2,724.21	
40 05 19 00-3448	EA	24"	Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,039.58	854.51
			For Class 52 Rating, Deduct	-1,071.93	
			For Class 54 Rating, Add	1,477.27	
			For Class 55 Rating, Add	2,204.18	
			For Class 56 Rating, Add	2,921.34	
40 05 19 00-3449	EA	24"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,711.61	857.36
			For Class 52 Rating, Deduct	-1,145.38	
			For Class 54 Rating, Add	1,577.48	
			For Class 55 Rating, Add	2,353.18	
			For Class 56 Rating, Add	3,118.48	
40 05 19 00-3450	EA	24"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,383.64	860.21
			For Class 52 Rating, Deduct	-1,218.83	
			For Class 54 Rating, Add	1,677.68	
			For Class 55 Rating, Add	2,502.19	
			For Class 56 Rating, Add	3,315.61	
40 05 19 00-3451	EA	24"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,055.67	863.06
			For Class 52 Rating, Deduct	-1,292.28	
			For Class 54 Rating, Add	1,777.89	
			For Class 55 Rating, Add	2,651.19	
			For Class 56 Rating, Add	3,512.74	
40 05 19 00-3452	EA	24"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,727.70	865.91
			For Class 52 Rating, Deduct	-1,365.73	
			For Class 54 Rating, Add	1,878.10	
			For Class 55 Rating, Add	2,800.19	
			For Class 56 Rating, Add	3,709.87	
40 05 19 00-3453	EA	24"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,399.74	868.76
			For Class 52 Rating, Deduct	-1,439.18	
			For Class 54 Rating, Add	1,978.31	
			For Class 55 Rating, Add	2,949.20	
			For Class 56 Rating, Add	3,907.00	
40 05 19 00-3454	EA	24"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,071.76	871.59
			For Class 52 Rating, Deduct	-1,512.63	
			For Class 54 Rating, Add	2,078.52	
			For Class 55 Rating, Add	3,098.20	
			For Class 56 Rating, Add	4,104.13	
40 05 19 00-3455	EA	24"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,743.79	874.45
			For Class 52 Rating, Deduct	-1,586.08	
			For Class 54 Rating, Add	2,178.73	
			For Class 55 Rating, Add	3,247.21	
			For Class 56 Rating, Add	4,301.26	
40 05 19 00-3456	EA	24"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,415.83	877.30
			For Class 52 Rating, Deduct	-1,659.52	
			For Class 54 Rating, Add	2,278.94	
			For Class 55 Rating, Add	3,396.21	
			For Class 56 Rating, Add	4,498.39	
40 05 19 00-3457	EA	24"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,087.86	880.14
			For Class 52 Rating, Deduct	-1,732.97	
			For Class 54 Rating, Add	2,379.15	
			For Class 55 Rating, Add	3,545.21	
			For Class 56 Rating, Add	4,695.53	
40 05 19 00-3458	EA	24"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,759.88	882.99
			For Class 52 Rating, Deduct	-1,806.42	
			For Class 54 Rating, Add	2,479.36	
			For Class 55 Rating, Add	3,694.22	
			For Class 56 Rating, Add	4,892.66	
40 05 19 00-3459	EA	24"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,431.91	885.85
			For Class 52 Rating, Deduct	-1,879.87	
			For Class 54 Rating, Add	2,579.57	
			For Class 55 Rating, Add	3,843.22	
			For Class 56 Rating, Add	5,089.79	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3460	EA		24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	19,103.95	888.70
			For Class 52 Rating, Deduct.....	-1,953.32	
			For Class 54 Rating, Add.....	2,679.77	
			For Class 55 Rating, Add.....	3,992.23	
			For Class 56 Rating, Add.....	5,286.92	
40 05 19 00-3461	EA		24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	19,775.98	891.54
			For Class 52 Rating, Deduct.....	-2,026.77	
			For Class 54 Rating, Add.....	2,779.98	
			For Class 55 Rating, Add.....	4,141.23	
			For Class 56 Rating, Add.....	5,484.05	
40 05 19 00-3462	EA		24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	20,448.01	894.39
			For Class 52 Rating, Deduct.....	-2,100.22	
			For Class 54 Rating, Add.....	2,880.19	
			For Class 55 Rating, Add.....	4,290.24	
			For Class 56 Rating, Add.....	5,681.18	
40 05 19 00-3463	EA		24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	21,120.05	897.24
			For Class 52 Rating, Deduct.....	-2,173.66	
			For Class 54 Rating, Add.....	2,980.40	
			For Class 55 Rating, Add.....	4,439.24	
			For Class 56 Rating, Add.....	5,878.31	
40 05 19 00-3464	EA		24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	21,792.08	900.10
			For Class 52 Rating, Deduct.....	-2,247.11	
			For Class 54 Rating, Add.....	3,080.61	
			For Class 55 Rating, Add.....	4,588.24	
			For Class 56 Rating, Add.....	6,075.45	
40 05 19 00-3465	EA		24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	22,464.10	902.93
			For Class 52 Rating, Deduct.....	-2,320.56	
			For Class 54 Rating, Add.....	3,180.82	
			For Class 55 Rating, Add.....	4,737.25	
			For Class 56 Rating, Add.....	6,272.58	
40 05 19 00-3466	EA		24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	23,136.14	905.78
			For Class 52 Rating, Deduct.....	-2,394.01	
			For Class 54 Rating, Add.....	3,281.03	
			For Class 55 Rating, Add.....	4,886.25	
			For Class 56 Rating, Add.....	6,469.71	
40 05 19 00-3467	EA		24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	23,808.17	908.63
			For Class 52 Rating, Deduct.....	-2,467.46	
			For Class 54 Rating, Add.....	3,381.24	
			For Class 55 Rating, Add.....	5,035.25	
			For Class 56 Rating, Add.....	6,666.84	
40 05 19 00-3468	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	24,480.20	911.47
			For Class 52 Rating, Deduct.....	-2,540.91	
			For Class 54 Rating, Add.....	3,481.45	
			For Class 55 Rating, Add.....	5,184.26	
			For Class 56 Rating, Add.....	6,863.97	
40 05 19 00-3469	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	25,225.60	962.74
			For Class 52 Rating, Deduct.....	-2,614.36	
			For Class 54 Rating, Add.....	3,582.54	
			For Class 55 Rating, Add.....	5,335.02	
			For Class 56 Rating, Add.....	7,063.74	
40 05 19 00-3470	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	25,897.63	965.60
			For Class 52 Rating, Deduct.....	-2,687.81	
			For Class 54 Rating, Add.....	3,682.75	
			For Class 55 Rating, Add.....	5,484.03	
			For Class 56 Rating, Add.....	7,260.88	
40 05 19 00-3471	EA		24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	26,569.65	968.45
			For Class 52 Rating, Deduct.....	-2,761.25	
			For Class 54 Rating, Add.....	3,782.95	
			For Class 55 Rating, Add.....	5,633.03	
			For Class 56 Rating, Add.....	7,458.01	
40 05 19 00-3472	EA		24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	27,241.70	971.30
			For Class 52 Rating, Deduct.....	-2,834.70	
			For Class 54 Rating, Add.....	3,883.16	
			For Class 55 Rating, Add.....	5,782.04	
			For Class 56 Rating, Add.....	7,655.14	
40 05 19 00-3473	EA		24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	27,913.72	974.14
			For Class 52 Rating, Deduct.....	-2,908.15	
			For Class 54 Rating, Add.....	3,983.37	
			For Class 55 Rating, Add.....	5,931.04	
			For Class 56 Rating, Add.....	7,852.27	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3474	EA		24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	31,735.35	977.00
			For Class 52 Rating, Deduct.....	-3,328.06	
			For Class 54 Rating, Add.....	4,556.02	
			For Class 55 Rating, Add.....	6,782.41	
			For Class 56 Rating, Add.....	8,978.53	
40 05 19 00-3475	EA		24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	29,257.77	979.85
			For Class 52 Rating, Deduct.....	-3,055.05	
			For Class 54 Rating, Add.....	4,183.79	
			For Class 55 Rating, Add.....	6,229.05	
			For Class 56 Rating, Add.....	8,246.53	
40 05 19 00-3476	EA		24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	29,929.82	982.68
			For Class 52 Rating, Deduct.....	-3,128.50	
			For Class 54 Rating, Add.....	4,284.00	
			For Class 55 Rating, Add.....	6,378.05	
			For Class 56 Rating, Add.....	8,443.66	
40 05 19 00-3477	EA		24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	30,601.84	985.53
			For Class 52 Rating, Deduct.....	-3,201.95	
			For Class 54 Rating, Add.....	4,384.21	
			For Class 55 Rating, Add.....	6,527.06	
			For Class 56 Rating, Add.....	8,640.79	
40 05 19 00-3478			30" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3479	EA		30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,633.18	1,173.54
			For Class 52 Rating, Deduct.....	-864.06	
			For Class 54 Rating, Add.....	1,199.60	
			For Class 55 Rating, Add.....	1,794.36	
			For Class 56 Rating, Add.....	2,381.27	
40 05 19 00-3480	EA		30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,594.97	1,176.37
			For Class 52 Rating, Deduct.....	-969.38	
			For Class 54 Rating, Add.....	1,343.28	
			For Class 55 Rating, Add.....	2,007.98	
			For Class 56 Rating, Add.....	2,663.88	
40 05 19 00-3481	EA		30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,556.77	1,179.22
			For Class 52 Rating, Deduct.....	-1,074.71	
			For Class 54 Rating, Add.....	1,486.95	
			For Class 55 Rating, Add.....	2,221.60	
			For Class 56 Rating, Add.....	2,946.49	
40 05 19 00-3482	EA		30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,518.56	1,182.07
			For Class 52 Rating, Deduct.....	-1,180.03	
			For Class 54 Rating, Add.....	1,630.62	
			For Class 55 Rating, Add.....	2,435.23	
			For Class 56 Rating, Add.....	3,229.10	
40 05 19 00-3483	EA		30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,480.36	1,184.93
			For Class 52 Rating, Deduct.....	-1,285.35	
			For Class 54 Rating, Add.....	1,774.30	
			For Class 55 Rating, Add.....	2,648.85	
			For Class 56 Rating, Add.....	3,511.71	
40 05 19 00-3484	EA		30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,442.15	1,187.77
			For Class 52 Rating, Deduct.....	-1,390.67	
			For Class 54 Rating, Add.....	1,917.97	
			For Class 55 Rating, Add.....	2,862.47	
			For Class 56 Rating, Add.....	3,794.32	
40 05 19 00-3485	EA		30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,403.94	1,190.62
			For Class 52 Rating, Deduct.....	-1,496.00	
			For Class 54 Rating, Add.....	2,061.64	
			For Class 55 Rating, Add.....	3,076.09	
			For Class 56 Rating, Add.....	4,076.93	
40 05 19 00-3486	EA		30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,365.73	1,193.47
			For Class 52 Rating, Deduct.....	-1,601.32	
			For Class 54 Rating, Add.....	2,205.32	
			For Class 55 Rating, Add.....	3,289.71	
			For Class 56 Rating, Add.....	4,359.55	
40 05 19 00-3487	EA		30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,327.54	1,196.32
			For Class 52 Rating, Deduct.....	-1,706.64	
			For Class 54 Rating, Add.....	2,348.99	
			For Class 55 Rating, Add.....	3,503.33	
			For Class 56 Rating, Add.....	4,642.16	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3488	EA	30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	18,289.33		1,199.17
		For Class 52 Rating, Deduct	-1,811.97		
		For Class 54 Rating, Add	2,492.66		
		For Class 55 Rating, Add	3,716.95		
		For Class 56 Rating, Add	4,924.77		
40 05 19 00-3489	EA	30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	19,251.12		1,202.02
		For Class 52 Rating, Deduct	-1,917.29		
		For Class 54 Rating, Add	2,636.34		
		For Class 55 Rating, Add	3,930.57		
		For Class 56 Rating, Add	5,207.38		
40 05 19 00-3490	EA	30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	20,212.91		1,204.87
		For Class 52 Rating, Deduct	-2,022.61		
		For Class 54 Rating, Add	2,780.01		
		For Class 55 Rating, Add	4,144.19		
		For Class 56 Rating, Add	5,489.99		
40 05 19 00-3491	EA	30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	21,174.71		1,207.70
		For Class 52 Rating, Deduct	-2,127.93		
		For Class 54 Rating, Add	2,923.68		
		For Class 55 Rating, Add	4,357.82		
		For Class 56 Rating, Add	5,772.60		
40 05 19 00-3492	EA	30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	22,136.50		1,210.56
		For Class 52 Rating, Deduct	-2,233.26		
		For Class 54 Rating, Add	3,067.36		
		For Class 55 Rating, Add	4,571.44		
		For Class 56 Rating, Add	6,055.21		
40 05 19 00-3493	EA	30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	23,098.29		1,213.41
		For Class 52 Rating, Deduct	-2,338.58		
		For Class 54 Rating, Add	3,211.03		
		For Class 55 Rating, Add	4,785.06		
		For Class 56 Rating, Add	6,337.83		
40 05 19 00-3494	EA	30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	24,060.10		1,216.25
		For Class 52 Rating, Deduct	-2,443.90		
		For Class 54 Rating, Add	3,354.71		
		For Class 55 Rating, Add	4,998.68		
		For Class 56 Rating, Add	6,620.44		
40 05 19 00-3495	EA	30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	25,021.89		1,219.10
		For Class 52 Rating, Deduct	-2,549.22		
		For Class 54 Rating, Add	3,498.38		
		For Class 55 Rating, Add	5,212.30		
		For Class 56 Rating, Add	6,903.05		
40 05 19 00-3496	EA	30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	25,983.68		1,221.96
		For Class 52 Rating, Deduct	-2,654.55		
		For Class 54 Rating, Add	3,642.05		
		For Class 55 Rating, Add	5,425.92		
		For Class 56 Rating, Add	7,185.66		
40 05 19 00-3497	EA	30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	26,945.47		1,224.81
		For Class 52 Rating, Deduct	-2,759.87		
		For Class 54 Rating, Add	3,785.73		
		For Class 55 Rating, Add	5,639.54		
		For Class 56 Rating, Add	7,468.27		
40 05 19 00-3498	EA	30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	27,907.27		1,227.65
		For Class 52 Rating, Deduct	-2,865.19		
		For Class 54 Rating, Add	3,929.40		
		For Class 55 Rating, Add	5,853.17		
		For Class 56 Rating, Add	7,750.88		
40 05 19 00-3499	EA	30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	28,869.06		1,230.50
		For Class 52 Rating, Deduct	-2,970.51		
		For Class 54 Rating, Add	4,073.07		
		For Class 55 Rating, Add	6,066.79		
		For Class 56 Rating, Add	8,033.50		
40 05 19 00-3500	EA	30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	29,830.85		1,233.35
		For Class 52 Rating, Deduct	-3,075.84		
		For Class 54 Rating, Add	4,216.75		
		For Class 55 Rating, Add	6,280.41		
		For Class 56 Rating, Add	8,316.11		
40 05 19 00-3501	EA	30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	30,792.65		1,236.19
		For Class 52 Rating, Deduct	-3,181.16		
		For Class 54 Rating, Add	4,360.42		
		For Class 55 Rating, Add	6,494.03		
		For Class 56 Rating, Add	8,598.72		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3502	EA		30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	31,754.45	1,239.04
			For Class 52 Rating, Deduct.....	-3,286.48	
			For Class 54 Rating, Add.....	4,504.09	
			For Class 55 Rating, Add.....	6,707.65	
			For Class 56 Rating, Add.....	8,881.33	
40 05 19 00-3503	EA		30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	32,716.23	1,241.89
			For Class 52 Rating, Deduct.....	-3,391.80	
			For Class 54 Rating, Add.....	4,647.77	
			For Class 55 Rating, Add.....	6,921.27	
			For Class 56 Rating, Add.....	9,163.94	
40 05 19 00-3504	EA		30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	33,678.03	1,244.74
			For Class 52 Rating, Deduct.....	-3,497.13	
			For Class 54 Rating, Add.....	4,791.44	
			For Class 55 Rating, Add.....	7,134.89	
			For Class 56 Rating, Add.....	9,446.55	
40 05 19 00-3505	EA		30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	34,639.83	1,247.58
			For Class 52 Rating, Deduct.....	-3,602.45	
			For Class 54 Rating, Add.....	4,935.11	
			For Class 55 Rating, Add.....	7,348.51	
			For Class 56 Rating, Add.....	9,729.16	
40 05 19 00-3506	EA		30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	35,601.62	1,250.44
			For Class 52 Rating, Deduct.....	-3,707.77	
			For Class 54 Rating, Add.....	5,078.79	
			For Class 55 Rating, Add.....	7,562.14	
			For Class 56 Rating, Add.....	10,011.78	
40 05 19 00-3507	EA		30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	36,563.42	1,253.29
			For Class 52 Rating, Deduct.....	-3,813.10	
			For Class 54 Rating, Add.....	5,222.46	
			For Class 55 Rating, Add.....	7,775.76	
			For Class 56 Rating, Add.....	10,294.39	
40 05 19 00-3508	EA		30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	37,525.21	1,256.14
			For Class 52 Rating, Deduct.....	-3,918.42	
			For Class 54 Rating, Add.....	5,366.14	
			For Class 55 Rating, Add.....	7,989.38	
			For Class 56 Rating, Add.....	10,577.00	
40 05 19 00-3509	EA		30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	38,487.00	1,258.98
			For Class 52 Rating, Deduct.....	-4,023.74	
			For Class 54 Rating, Add.....	5,509.81	
			For Class 55 Rating, Add.....	8,203.00	
			For Class 56 Rating, Add.....	10,859.61	
40 05 19 00-3510	EA		30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	39,448.80	1,261.83
			For Class 52 Rating, Deduct.....	-4,129.06	
			For Class 54 Rating, Add.....	5,653.48	
			For Class 55 Rating, Add.....	8,416.62	
			For Class 56 Rating, Add.....	11,142.22	
40 05 19 00-3511	EA		30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	40,410.59	1,264.68
			For Class 52 Rating, Deduct.....	-4,234.39	
			For Class 54 Rating, Add.....	5,797.16	
			For Class 55 Rating, Add.....	8,630.24	
			For Class 56 Rating, Add.....	11,424.83	
40 05 19 00-3512	EA		30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	41,372.38	1,267.52
			For Class 52 Rating, Deduct.....	-4,339.71	
			For Class 54 Rating, Add.....	5,940.83	
			For Class 55 Rating, Add.....	8,843.86	
			For Class 56 Rating, Add.....	11,707.45	
40 05 19 00-3513	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	42,334.18	1,270.37
			For Class 52 Rating, Deduct.....	-4,445.03	
			For Class 54 Rating, Add.....	6,084.50	
			For Class 55 Rating, Add.....	9,057.48	
			For Class 56 Rating, Add.....	11,990.06	
40 05 19 00-3514			36" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3515	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	12,035.46	1,486.85
			For Class 52 Rating, Deduct.....	-1,076.09	
			For Class 54 Rating, Add.....	1,494.43	
			For Class 55 Rating, Add.....	2,235.60	
			For Class 56 Rating, Add.....	2,966.99	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3516	EA	36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	13,324.81		1,489.70
		For Class 52 Rating, Deduct	-1,217.45		
		For Class 54 Rating, Add	1,687.24		
		For Class 55 Rating, Add	2,522.27		
		For Class 56 Rating, Add	3,346.22		
40 05 19 00-3517	EA	36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	14,614.17		1,492.54
		For Class 52 Rating, Deduct	-1,358.80		
		For Class 54 Rating, Add	1,880.05		
		For Class 55 Rating, Add	2,808.93		
		For Class 56 Rating, Add	3,725.47		
40 05 19 00-3518	EA	36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	15,903.52		1,495.40
		For Class 52 Rating, Deduct	-1,500.15		
		For Class 54 Rating, Add	2,072.85		
		For Class 55 Rating, Add	3,095.60		
		For Class 56 Rating, Add	4,104.71		
40 05 19 00-3519	EA	36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	17,192.87		1,498.25
		For Class 52 Rating, Deduct	-1,641.51		
		For Class 54 Rating, Add	2,265.66		
		For Class 55 Rating, Add	3,382.27		
		For Class 56 Rating, Add	4,483.95		
40 05 19 00-3520	EA	36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	18,482.22		1,501.09
		For Class 52 Rating, Deduct	-1,782.86		
		For Class 54 Rating, Add	2,458.47		
		For Class 55 Rating, Add	3,668.93		
		For Class 56 Rating, Add	4,863.19		
40 05 19 00-3521	EA	36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	19,771.58		1,503.94
		For Class 52 Rating, Deduct	-1,924.22		
		For Class 54 Rating, Add	2,651.28		
		For Class 55 Rating, Add	3,955.60		
		For Class 56 Rating, Add	5,242.43		
40 05 19 00-3522	EA	36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	21,060.94		1,506.80
		For Class 52 Rating, Deduct	-2,065.57		
		For Class 54 Rating, Add	2,844.08		
		For Class 55 Rating, Add	4,242.27		
		For Class 56 Rating, Add	5,621.68		
40 05 19 00-3523	EA	36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	22,350.28		1,509.65
		For Class 52 Rating, Deduct	-2,206.92		
		For Class 54 Rating, Add	3,036.89		
		For Class 55 Rating, Add	4,528.93		
		For Class 56 Rating, Add	6,000.91		
40 05 19 00-3524	EA	36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	23,639.64		1,512.48
		For Class 52 Rating, Deduct	-2,348.28		
		For Class 54 Rating, Add	3,229.70		
		For Class 55 Rating, Add	4,815.60		
		For Class 56 Rating, Add	6,380.16		
40 05 19 00-3525	EA	36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	24,929.00		1,515.33
		For Class 52 Rating, Deduct	-2,489.63		
		For Class 54 Rating, Add	3,422.51		
		For Class 55 Rating, Add	5,102.27		
		For Class 56 Rating, Add	6,759.40		
40 05 19 00-3526	EA	36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	26,218.34		1,518.19
		For Class 52 Rating, Deduct	-2,630.99		
		For Class 54 Rating, Add	3,615.31		
		For Class 55 Rating, Add	5,388.93		
		For Class 56 Rating, Add	7,138.64		
40 05 19 00-3527	EA	36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	27,507.69		1,521.03
		For Class 52 Rating, Deduct	-2,772.34		
		For Class 54 Rating, Add	3,808.12		
		For Class 55 Rating, Add	5,675.60		
		For Class 56 Rating, Add	7,517.88		
40 05 19 00-3528	EA	36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	28,797.05		1,523.88
		For Class 52 Rating, Deduct	-2,913.70		
		For Class 54 Rating, Add	4,000.93		
		For Class 55 Rating, Add	5,962.27		
		For Class 56 Rating, Add	7,897.12		
40 05 19 00-3529	EA	36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	30,086.40		1,526.73
		For Class 52 Rating, Deduct	-3,055.05		
		For Class 54 Rating, Add	4,193.73		
		For Class 55 Rating, Add	6,248.93		
		For Class 56 Rating, Add	8,276.36		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3530	EA		36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	31,375.75	1,529.58
			For Class 52 Rating, Deduct	-3,196.40	
			For Class 54 Rating, Add	4,386.54	
			For Class 55 Rating, Add	6,535.60	
			For Class 56 Rating, Add	8,655.60	
40 05 19 00-3531	EA		36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	32,665.10	1,532.43
			For Class 52 Rating, Deduct	-3,337.76	
			For Class 54 Rating, Add	4,579.35	
			For Class 55 Rating, Add	6,822.27	
			For Class 56 Rating, Add	9,034.85	
40 05 19 00-3532	EA		36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	33,954.46	1,535.28
			For Class 52 Rating, Deduct	-3,479.11	
			For Class 54 Rating, Add	4,772.16	
			For Class 55 Rating, Add	7,108.93	
			For Class 56 Rating, Add	9,414.09	
40 05 19 00-3533	EA		36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	35,243.81	1,538.12
			For Class 52 Rating, Deduct	-3,620.47	
			For Class 54 Rating, Add	4,964.96	
			For Class 55 Rating, Add	7,395.60	
			For Class 56 Rating, Add	9,793.33	
40 05 19 00-3534	EA		36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	36,533.16	1,540.97
			For Class 52 Rating, Deduct	-3,761.82	
			For Class 54 Rating, Add	5,157.77	
			For Class 55 Rating, Add	7,682.27	
			For Class 56 Rating, Add	10,172.57	
40 05 19 00-3535	EA		36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	37,822.51	1,543.81
			For Class 52 Rating, Deduct	-3,903.17	
			For Class 54 Rating, Add	5,350.58	
			For Class 55 Rating, Add	7,968.93	
			For Class 56 Rating, Add	10,551.81	
40 05 19 00-3536	EA		36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	39,111.87	1,546.67
			For Class 52 Rating, Deduct	-4,044.53	
			For Class 54 Rating, Add	5,543.39	
			For Class 55 Rating, Add	8,255.60	
			For Class 56 Rating, Add	10,931.05	
40 05 19 00-3537	EA		36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	40,401.22	1,549.52
			For Class 52 Rating, Deduct	-4,185.88	
			For Class 54 Rating, Add	5,736.19	
			For Class 55 Rating, Add	8,542.27	
			For Class 56 Rating, Add	11,310.29	
40 05 19 00-3538	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	41,690.56	1,552.36
			For Class 52 Rating, Deduct	-4,327.24	
			For Class 54 Rating, Add	5,929.00	
			For Class 55 Rating, Add	8,828.93	
			For Class 56 Rating, Add	11,689.53	
40 05 19 00-3539	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	42,979.93	1,555.21
			For Class 52 Rating, Deduct	-4,468.59	
			For Class 54 Rating, Add	6,121.81	
			For Class 55 Rating, Add	9,115.60	
			For Class 56 Rating, Add	12,068.77	
40 05 19 00-3540	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	44,269.28	1,558.07
			For Class 52 Rating, Deduct	-4,609.94	
			For Class 54 Rating, Add	6,314.62	
			For Class 55 Rating, Add	9,402.27	
			For Class 56 Rating, Add	12,448.02	
40 05 19 00-3541	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	45,558.62	1,560.92
			For Class 52 Rating, Deduct	-4,751.30	
			For Class 54 Rating, Add	6,507.42	
			For Class 55 Rating, Add	9,688.94	
			For Class 56 Rating, Add	12,827.26	
40 05 19 00-3542	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	46,847.98	1,563.76
			For Class 52 Rating, Deduct	-4,892.65	
			For Class 54 Rating, Add	6,700.23	
			For Class 55 Rating, Add	9,975.60	
			For Class 56 Rating, Add	13,206.50	
40 05 19 00-3543	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	48,137.34	1,566.60
			For Class 52 Rating, Deduct	-5,034.01	
			For Class 54 Rating, Add	6,893.04	
			For Class 55 Rating, Add	10,262.27	
			For Class 56 Rating, Add	13,585.74	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3544	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	49,426.68	1,569.45
			For Class 52 Rating, Deduct	-5,175.36	
			For Class 54 Rating, Add	7,085.84	
			For Class 55 Rating, Add	10,548.94	
			For Class 56 Rating, Add	13,964.98	
40 05 19 00-3545	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	50,716.04	1,572.30
			For Class 52 Rating, Deduct	-5,316.71	
			For Class 54 Rating, Add	7,278.65	
			For Class 55 Rating, Add	10,835.60	
			For Class 56 Rating, Add	14,344.22	
40 05 19 00-3546	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	52,005.39	1,575.15
			For Class 52 Rating, Deduct	-5,458.07	
			For Class 54 Rating, Add	7,471.46	
			For Class 55 Rating, Add	11,122.27	
			For Class 56 Rating, Add	14,723.46	
40 05 19 00-3547	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	53,294.75	1,578.00
			For Class 52 Rating, Deduct	-5,599.42	
			For Class 54 Rating, Add	7,664.27	
			For Class 55 Rating, Add	11,408.94	
			For Class 56 Rating, Add	15,102.71	
40 05 19 00-3548	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	54,584.10	1,580.85
			For Class 52 Rating, Deduct	-5,740.78	
			For Class 54 Rating, Add	7,857.07	
			For Class 55 Rating, Add	11,695.60	
			For Class 56 Rating, Add	15,481.94	
40 05 19 00-3549	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	55,873.45	1,583.69
			For Class 52 Rating, Deduct	-5,882.13	
			For Class 54 Rating, Add	8,049.88	
			For Class 55 Rating, Add	11,982.27	
			For Class 56 Rating, Add	15,861.19	
40 05 19 00-3550			42" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3551	EA		42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,954.68	1,874.23
			For Class 52 Rating, Deduct	-1,442.64	
			For Class 54 Rating, Add	2,001.32	
			For Class 55 Rating, Add	2,992.78	
			For Class 56 Rating, Add	3,971.14	
40 05 19 00-3552	EA		42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,855.05	1,877.07
			For Class 52 Rating, Deduct	-1,651.21	
			For Class 54 Rating, Add	2,285.78	
			For Class 55 Rating, Add	3,415.71	
			For Class 56 Rating, Add	4,530.63	
40 05 19 00-3553	EA		42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,739.67	1,879.92
			For Class 52 Rating, Deduct	-1,858.04	
			For Class 54 Rating, Add	2,567.88	
			For Class 55 Rating, Add	3,835.12	
			For Class 56 Rating, Add	5,085.47	
40 05 19 00-3554	EA		42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,643.20	1,882.78
			For Class 52 Rating, Deduct	-2,066.96	
			For Class 54 Rating, Add	2,852.81	
			For Class 55 Rating, Add	4,258.75	
			For Class 56 Rating, Add	5,645.90	
40 05 19 00-3555	EA		42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,534.13	1,885.63
			For Class 52 Rating, Deduct	-2,274.48	
			For Class 54 Rating, Add	3,135.85	
			For Class 55 Rating, Add	4,679.57	
			For Class 56 Rating, Add	6,202.60	
40 05 19 00-3556	EA		42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,443.95	1,888.47
			For Class 52 Rating, Deduct	-2,484.09	
			For Class 54 Rating, Add	3,421.73	
			For Class 55 Rating, Add	5,104.60	
			For Class 56 Rating, Add	6,764.88	
40 05 19 00-3557	EA		42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	27,334.88	1,891.32
			For Class 52 Rating, Deduct	-2,691.62	
			For Class 54 Rating, Add	3,704.77	
			For Class 55 Rating, Add	5,525.42	
			For Class 56 Rating, Add	7,321.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3558	EA		42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	29,247.85	1,894.18
			For Class 52 Rating, Deduct	-2,901.57	
			For Class 54 Rating, Add	3,991.12	
			For Class 55 Rating, Add	5,951.15	
			For Class 56 Rating, Add	7,884.80	
40 05 19 00-3559	EA		42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	31,141.93	1,897.03
			For Class 52 Rating, Deduct	-3,109.44	
			For Class 54 Rating, Add	4,274.64	
			For Class 55 Rating, Add	6,372.67	
			For Class 56 Rating, Add	8,442.43	
40 05 19 00-3560	EA		42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	33,058.06	1,899.86
			For Class 52 Rating, Deduct	-3,319.74	
			For Class 54 Rating, Add	4,561.46	
			For Class 55 Rating, Add	6,799.11	
			For Class 56 Rating, Add	9,006.57	
40 05 19 00-3561	EA		42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	34,952.13	1,902.71
			For Class 52 Rating, Deduct	-3,527.62	
			For Class 54 Rating, Add	4,844.98	
			For Class 55 Rating, Add	7,220.63	
			For Class 56 Rating, Add	9,564.21	
40 05 19 00-3562	EA		42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	36,868.25	1,905.56
			For Class 52 Rating, Deduct	-3,737.91	
			For Class 54 Rating, Add	5,131.80	
			For Class 55 Rating, Add	7,647.06	
			For Class 56 Rating, Add	10,128.34	
40 05 19 00-3563	EA		42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	38,765.47	1,908.41
			For Class 52 Rating, Deduct	-3,946.13	
			For Class 54 Rating, Add	5,415.79	
			For Class 55 Rating, Add	8,069.29	
			For Class 56 Rating, Add	10,686.91	
40 05 19 00-3564	EA		42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	40,665.85	1,911.26
			For Class 52 Rating, Deduct	-4,154.70	
			For Class 54 Rating, Add	5,700.25	
			For Class 55 Rating, Add	8,492.21	
			For Class 56 Rating, Add	11,246.40	
40 05 19 00-3565	EA		42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	42,578.82	1,914.11
			For Class 52 Rating, Deduct	-4,364.65	
			For Class 54 Rating, Add	5,986.60	
			For Class 55 Rating, Add	8,917.95	
			For Class 56 Rating, Add	11,809.61	
40 05 19 00-3566	EA		42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	44,476.05	1,916.96
			For Class 52 Rating, Deduct	-4,572.87	
			For Class 54 Rating, Add	6,270.59	
			For Class 55 Rating, Add	9,340.17	
			For Class 56 Rating, Add	12,368.17	
40 05 19 00-3567	EA		42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	46,395.33	1,919.81
			For Class 52 Rating, Deduct	-4,783.52	
			For Class 54 Rating, Add	6,557.89	
			For Class 55 Rating, Add	9,767.31	
			For Class 56 Rating, Add	12,933.24	
40 05 19 00-3568	EA		42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	48,295.70	1,922.66
			For Class 52 Rating, Deduct	-4,992.08	
			For Class 54 Rating, Add	6,842.35	
			For Class 55 Rating, Add	10,190.23	
			For Class 56 Rating, Add	13,492.74	
40 05 19 00-3569	EA		42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	50,211.81	1,925.51
			For Class 52 Rating, Deduct	-5,202.38	
			For Class 54 Rating, Add	7,129.17	
			For Class 55 Rating, Add	10,616.67	
			For Class 56 Rating, Add	14,056.87	
40 05 19 00-3570	EA		42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	52,112.20	1,928.34
			For Class 52 Rating, Deduct	-5,410.95	
			For Class 54 Rating, Add	7,413.63	
			For Class 55 Rating, Add	11,039.59	
			For Class 56 Rating, Add	14,616.37	
40 05 19 00-3571	EA		42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	54,031.47	1,931.19
			For Class 52 Rating, Deduct	-5,621.60	
			For Class 54 Rating, Add	7,700.92	
			For Class 55 Rating, Add	11,466.73	
			For Class 56 Rating, Add	15,181.43	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3572	EA		42" Flanged x Plain End (FxE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	55,931.84	1,934.05
			For Class 52 Rating, Deduct.....	-5,830.16	
			For Class 54 Rating, Add.....	7,985.38	
			For Class 55 Rating, Add.....	11,889.66	
			For Class 56 Rating, Add.....	15,740.93	
40 05 19 00-3573	EA		42" Flanged x Plain End (FxE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	57,851.12	1,936.90
			For Class 52 Rating, Deduct.....	-6,040.81	
			For Class 54 Rating, Add.....	8,272.68	
			For Class 55 Rating, Add.....	12,316.80	
			For Class 56 Rating, Add.....	16,306.00	
40 05 19 00-3574	EA		42" Flanged x Plain End (FxE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	59,748.35	1,939.74
			For Class 52 Rating, Deduct.....	-6,249.03	
			For Class 54 Rating, Add.....	8,556.67	
			For Class 55 Rating, Add.....	12,739.02	
			For Class 56 Rating, Add.....	16,864.56	
40 05 19 00-3575	EA		42" Flanged x Plain End (FxE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	61,670.76	1,942.59
			For Class 52 Rating, Deduct.....	-6,460.02	
			For Class 54 Rating, Add.....	8,844.44	
			For Class 55 Rating, Add.....	13,166.86	
			For Class 56 Rating, Add.....	17,430.55	
40 05 19 00-3576	EA		42" Flanged x Plain End (FxE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	63,571.13	1,945.45
			For Class 52 Rating, Deduct.....	-6,668.59	
			For Class 54 Rating, Add.....	9,128.90	
			For Class 55 Rating, Add.....	13,589.78	
			For Class 56 Rating, Add.....	17,990.05	
40 05 19 00-3577	EA		42" Flanged x Plain End (FxE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	65,487.27	1,948.29
			For Class 52 Rating, Deduct.....	-6,878.88	
			For Class 54 Rating, Add.....	9,415.72	
			For Class 55 Rating, Add.....	14,016.22	
			For Class 56 Rating, Add.....	18,554.19	
40 05 19 00-3578	EA		42" Flanged x Plain End (FxE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	67,390.79	1,951.14
			For Class 52 Rating, Deduct.....	-7,087.80	
			For Class 54 Rating, Add.....	9,700.65	
			For Class 55 Rating, Add.....	14,439.85	
			For Class 56 Rating, Add.....	19,114.61	
40 05 19 00-3579	EA		42" Flanged x Plain End (FxE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	68,919.50	1,953.98
			For Class 52 Rating, Deduct.....	-7,255.48	
			For Class 54 Rating, Add.....	9,929.36	
			For Class 55 Rating, Add.....	14,779.89	
			For Class 56 Rating, Add.....	19,564.46	
40 05 19 00-3580	EA		42" Flanged x Plain End (FxE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	71,210.43	1,956.83
			For Class 52 Rating, Deduct.....	-7,507.01	
			For Class 54 Rating, Add.....	10,272.41	
			For Class 55 Rating, Add.....	15,289.91	
			For Class 56 Rating, Add.....	20,239.17	
40 05 19 00-3581	EA		42" Flanged x Plain End (FxE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	73,107.66	1,959.68
			For Class 52 Rating, Deduct.....	-7,715.23	
			For Class 54 Rating, Add.....	10,556.40	
			For Class 55 Rating, Add.....	15,712.13	
			For Class 56 Rating, Add.....	20,797.73	
40 05 19 00-3582	EA		42" Flanged x Plain End (FxE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	75,026.93	1,962.53
			For Class 52 Rating, Deduct.....	-7,925.87	
			For Class 54 Rating, Add.....	10,843.69	
			For Class 55 Rating, Add.....	16,139.27	
			For Class 56 Rating, Add.....	21,362.80	
40 05 19 00-3583	EA		42" Flanged x Plain End (FxE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	76,927.31	1,965.38
			For Class 52 Rating, Deduct.....	-8,134.44	
			For Class 54 Rating, Add.....	11,128.15	
			For Class 55 Rating, Add.....	16,562.20	
			For Class 56 Rating, Add.....	21,922.29	
40 05 19 00-3584	EA		42" Flanged x Plain End (FxE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	78,849.72	1,968.23
			For Class 52 Rating, Deduct.....	-8,345.43	
			For Class 54 Rating, Add.....	11,415.92	
			For Class 55 Rating, Add.....	16,990.04	
			For Class 56 Rating, Add.....	22,488.29	
40 05 19 00-3585	EA		42" Flanged x Plain End (FxE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	80,746.95	1,971.07
			For Class 52 Rating, Deduct.....	-8,553.65	
			For Class 54 Rating, Add.....	11,699.91	
			For Class 55 Rating, Add.....	17,412.26	
			For Class 56 Rating, Add.....	23,046.85	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3586			48" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3587	EA		48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,624.18	2,355.60
			For Class 52 Rating, Deduct	-1,876.06	
			For Class 54 Rating, Add	2,601.09	
			For Class 55 Rating, Add	3,888.94	
			For Class 56 Rating, Add	5,159.74	
40 05 19 00-3588	EA		48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,356.05	2,358.45
			For Class 52 Rating, Deduct	-2,176.09	
			For Class 54 Rating, Add	3,010.28	
			For Class 55 Rating, Add	4,497.29	
			For Class 56 Rating, Add	5,964.52	
40 05 19 00-3589	EA		48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,097.38	2,361.31
			For Class 52 Rating, Deduct	-2,477.16	
			For Class 54 Rating, Add	3,420.88	
			For Class 55 Rating, Add	5,107.75	
			For Class 56 Rating, Add	6,772.09	
40 05 19 00-3590	EA		48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	28,867.04	2,364.16
			For Class 52 Rating, Deduct	-2,781.35	
			For Class 54 Rating, Add	3,835.73	
			For Class 55 Rating, Add	5,724.52	
			For Class 56 Rating, Add	7,588.03	
40 05 19 00-3591	EA		48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	31,630.40	2,366.99
			For Class 52 Rating, Deduct	-3,084.84	
			For Class 54 Rating, Add	4,249.64	
			For Class 55 Rating, Add	6,339.89	
			For Class 56 Rating, Add	8,402.10	
40 05 19 00-3592	EA		48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	34,396.92	2,369.84
			For Class 52 Rating, Deduct	-3,388.69	
			For Class 54 Rating, Add	4,664.02	
			For Class 55 Rating, Add	6,955.97	
			For Class 56 Rating, Add	9,217.11	
40 05 19 00-3593	EA		48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	37,182.33	2,372.70
			For Class 52 Rating, Deduct	-3,694.61	
			For Class 54 Rating, Add	5,081.24	
			For Class 55 Rating, Add	7,576.25	
			For Class 56 Rating, Add	10,037.68	
40 05 19 00-3594	EA		48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	39,961.44	2,375.54
			For Class 52 Rating, Deduct	-3,999.83	
			For Class 54 Rating, Add	5,497.51	
			For Class 55 Rating, Add	8,195.14	
			For Class 56 Rating, Add	10,856.40	
40 05 19 00-3595	EA		48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	42,734.26	2,378.39
			For Class 52 Rating, Deduct	-4,304.37	
			For Class 54 Rating, Add	5,912.84	
			For Class 55 Rating, Add	8,812.62	
			For Class 56 Rating, Add	11,673.27	
40 05 19 00-3596	EA		48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	45,532.27	2,381.24
			For Class 52 Rating, Deduct	-4,611.68	
			For Class 54 Rating, Add	6,331.94	
			For Class 55 Rating, Add	9,435.72	
			For Class 56 Rating, Add	12,497.56	
40 05 19 00-3597	EA		48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	48,317.68	2,384.10
			For Class 52 Rating, Deduct	-4,917.60	
			For Class 54 Rating, Add	6,749.16	
			For Class 55 Rating, Add	10,056.00	
			For Class 56 Rating, Add	13,318.14	
40 05 19 00-3598	EA		48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	51,118.84	2,386.94
			For Class 52 Rating, Deduct	-5,225.25	
			For Class 54 Rating, Add	7,168.74	
			For Class 55 Rating, Add	10,679.80	
			For Class 56 Rating, Add	14,143.37	
40 05 19 00-3599	EA		48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	53,901.10	2,389.79
			For Class 52 Rating, Deduct	-5,530.82	
			For Class 54 Rating, Add	7,585.48	
			For Class 55 Rating, Add	11,299.39	
			For Class 56 Rating, Add	14,963.01	
40 05 19 00-3600	EA		48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	56,689.66	2,392.64
			For Class 52 Rating, Deduct	-5,837.09	
			For Class 54 Rating, Add	8,003.17	
			For Class 55 Rating, Add	11,920.38	
			For Class 56 Rating, Add	15,784.52	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3601	EA	48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	59,493.98		2,395.49
		For Class 52 Rating, Deduct	-6,145.09		
		For Class 54 Rating, Add	8,423.22		
		For Class 55 Rating, Add	12,544.88		
		For Class 56 Rating, Add	16,610.68		
40 05 19 00-3602	EA	48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	62,282.54		2,398.33
		For Class 52 Rating, Deduct	-6,451.36		
		For Class 54 Rating, Add	8,840.91		
		For Class 55 Rating, Add	13,165.87		
		For Class 56 Rating, Add	17,432.18		
40 05 19 00-3603	EA	48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	65,071.10		2,401.18
		For Class 52 Rating, Deduct	-6,757.62		
		For Class 54 Rating, Add	9,258.60		
		For Class 55 Rating, Add	13,786.86		
		For Class 56 Rating, Add	18,253.69		
40 05 19 00-3604	EA	48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	67,878.56		2,404.03
		For Class 52 Rating, Deduct	-7,065.97		
		For Class 54 Rating, Add	9,679.12		
		For Class 55 Rating, Add	14,412.07		
		For Class 56 Rating, Add	19,080.78		
40 05 19 00-3605	EA	48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	70,670.28		2,406.87
		For Class 52 Rating, Deduct	-7,372.58		
		For Class 54 Rating, Add	10,097.28		
		For Class 55 Rating, Add	15,033.76		
		For Class 56 Rating, Add	19,903.21		
40 05 19 00-3606	EA	48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	73,458.83		2,409.72
		For Class 52 Rating, Deduct	-7,678.85		
		For Class 54 Rating, Add	10,514.97		
		For Class 55 Rating, Add	15,654.75		
		For Class 56 Rating, Add	20,724.72		
40 05 19 00-3607	EA	48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	76,272.59		2,412.58
		For Class 52 Rating, Deduct	-7,987.89		
		For Class 54 Rating, Add	10,936.44		
		For Class 55 Rating, Add	16,281.36		
		For Class 56 Rating, Add	21,553.66		
40 05 19 00-3608	EA	48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	79,067.45		2,415.43
		For Class 52 Rating, Deduct	-8,294.85		
		For Class 54 Rating, Add	11,355.07		
		For Class 55 Rating, Add	16,903.76		
		For Class 56 Rating, Add	22,377.03		
40 05 19 00-3609	EA	48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	81,859.17		2,418.27
		For Class 52 Rating, Deduct	-8,601.46		
		For Class 54 Rating, Add	11,773.24		
		For Class 55 Rating, Add	17,525.45		
		For Class 56 Rating, Add	23,199.47		
40 05 19 00-3610	EA	48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	84,669.77		2,421.12
		For Class 52 Rating, Deduct	-8,910.16		
		For Class 54 Rating, Add	12,194.23		
		For Class 55 Rating, Add	18,151.36		
		For Class 56 Rating, Add	24,027.48		
40 05 19 00-3611	EA	48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	87,464.63		2,423.98
		For Class 52 Rating, Deduct	-9,217.12		
		For Class 54 Rating, Add	12,612.87		
		For Class 55 Rating, Add	18,773.75		
		For Class 56 Rating, Add	24,850.84		
40 05 19 00-3612	EA	48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	90,256.35		2,426.81
		For Class 52 Rating, Deduct	-9,523.73		
		For Class 54 Rating, Add	13,031.03		
		For Class 55 Rating, Add	19,395.44		
		For Class 56 Rating, Add	25,673.28		
40 05 19 00-3613	EA	48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	93,070.11		2,429.66
		For Class 52 Rating, Deduct	-9,832.77		
		For Class 54 Rating, Add	13,452.50		
		For Class 55 Rating, Add	20,022.05		
		For Class 56 Rating, Add	26,502.22		
40 05 19 00-3614	EA	48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	95,864.96		2,432.51
		For Class 52 Rating, Deduct	-10,139.73		
		For Class 54 Rating, Add	13,871.13		
		For Class 55 Rating, Add	20,644.45		
		For Class 56 Rating, Add	27,325.59		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3615	EA		48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	98,329.12	2,435.36
			For Class 52 Rating, Deduct.....	-10,410.31	
			For Class 54 Rating, Add.....	14,240.16	
			For Class 55 Rating, Add.....	21,193.10	
			For Class 56 Rating, Add.....	28,051.40	
40 05 19 00-3616	EA		48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	101,476.74	2,438.21
			For Class 52 Rating, Deduct.....	-10,756.07	
			For Class 54 Rating, Add.....	14,711.70	
			For Class 55 Rating, Add.....	21,894.16	
			For Class 56 Rating, Add.....	28,978.82	
40 05 19 00-3617	EA		48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	104,268.45	2,441.06
			For Class 52 Rating, Deduct.....	-11,062.69	
			For Class 54 Rating, Add.....	15,129.86	
			For Class 55 Rating, Add.....	22,515.85	
			For Class 56 Rating, Add.....	29,801.26	
40 05 19 00-3618	EA		48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	107,088.51	2,443.91
			For Class 52 Rating, Deduct.....	-11,372.42	
			For Class 54 Rating, Add.....	15,552.28	
			For Class 55 Rating, Add.....	23,143.86	
			For Class 56 Rating, Add.....	30,632.06	
40 05 19 00-3619	EA		48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	109,880.23	2,446.75
			For Class 52 Rating, Deduct.....	-11,679.03	
			For Class 54 Rating, Add.....	15,970.44	
			For Class 55 Rating, Add.....	23,765.56	
			For Class 56 Rating, Add.....	31,454.50	
40 05 19 00-3620	EA		48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	112,671.93	2,449.61
			For Class 52 Rating, Deduct.....	-11,985.65	
			For Class 54 Rating, Add.....	16,388.60	
			For Class 55 Rating, Add.....	24,387.25	
			For Class 56 Rating, Add.....	32,276.94	
40 05 19 00-3621	EA		48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	115,491.98	2,452.45
			For Class 52 Rating, Deduct.....	-12,295.38	
			For Class 54 Rating, Add.....	16,811.01	
			For Class 55 Rating, Add.....	25,015.26	
			For Class 56 Rating, Add.....	33,107.73	
40 05 19 00-3622			Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows (40 05 19 00-2073)		
40 05 19 00-3623	EA		4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	807.83	137.42
40 05 19 00-3624	EA		6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,185.00	175.73
40 05 19 00-3625	EA		8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,695.67	199.06
40 05 19 00-3626	EA		10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,424.75	252.36
40 05 19 00-3627	EA		12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,024.02	279.84
40 05 19 00-3628	EA		14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,712.30	303.99
40 05 19 00-3629	EA		16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	4,558.59	374.79
40 05 19 00-3630	EA		18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	5,720.23	449.75
40 05 19 00-3631	EA		20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	6,990.31	566.35
40 05 19 00-3632	EA		24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	10,417.74	641.30
40 05 19 00-3633	EA		30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	16,180.15	849.51
40 05 19 00-3634	EA		36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	24,019.57	961.95
40 05 19 00-3635	EA		42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	41,040.58	1,099.37
40 05 19 00-3636	EA		48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	54,301.68	1,349.23
40 05 19 00-3637			Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbows (40 05 19 00-2073)		
40 05 19 00-3638	EA		4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	769.20	137.42
40 05 19 00-3639	EA		6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,121.18	175.73
40 05 19 00-3640	EA		8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,537.79	199.06
40 05 19 00-3641	EA		10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,199.69	252.36
40 05 19 00-3642	EA		12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,733.45	279.84
40 05 19 00-3643	EA		14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	3,186.58	303.99
40 05 19 00-3644	EA		16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	3,916.98	374.79
40 05 19 00-3645	EA		18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	4,987.92	449.75
40 05 19 00-3646	EA		20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	6,273.12	566.35
40 05 19 00-3647	EA		24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	8,246.02	641.30
40 05 19 00-3648	EA		30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	15,795.52	849.51
40 05 19 00-3649	EA		36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	23,505.61	961.95
40 05 19 00-3650	EA		42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	35,568.45	1,099.37
40 05 19 00-3651	EA		48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	48,109.00	1,349.23
40 05 19 00-3652			Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows (40 05 19 00-2073)		
40 05 19 00-3653	EA		4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	767.52	137.42

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3654 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,099.34	175.73
40 05 19 00-3655 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,524.35	199.06
40 05 19 00-3656 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,147.62	252.36
40 05 19 00-3657 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,849.34	279.84
40 05 19 00-3658 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,540.98	303.99
40 05 19 00-3659 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,997.60	374.79
40 05 19 00-3660 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	5,085.34	449.75
40 05 19 00-3661 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	6,691.34	566.35
40 05 19 00-3662 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	9,211.79	641.30
40 05 19 00-3663 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	15,966.84	849.51
40 05 19 00-3664 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	23,896.96	961.95
40 05 19 00-3665 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	36,349.46	1,099.37
40 05 19 00-3666 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	49,130.20	1,349.23

40 05 19 00-3667 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows

(40 05 19 00-2073)

40 05 19 00-3668 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	833.02	137.42
40 05 19 00-3669 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,221.95	175.73
40 05 19 00-3670 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,574.74	199.06
40 05 19 00-3671 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,327.34	252.36
40 05 19 00-3672 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,183.58	279.84
40 05 19 00-3673 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,626.64	303.99
40 05 19 00-3674 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	4,358.72	374.79
40 05 19 00-3675 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	5,085.34	449.75
40 05 19 00-3676 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	6,691.34	566.35
40 05 19 00-3677 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	9,554.43	641.30
40 05 19 00-3678 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	16,134.80	849.51
40 05 19 00-3679 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	24,068.28	961.95
40 05 19 00-3680 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	36,529.18	1,099.37
40 05 19 00-3681 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	49,492.99	1,349.23

40 05 19 00-3682 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows

(40 05 19 00-2073)

40 05 19 00-3683 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,154.30	156.58
40 05 19 00-3684 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,491.10	168.24
40 05 19 00-3685 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,619.21	187.39
40 05 19 00-3686 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,228.51	194.89
40 05 19 00-3687 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,269.29	214.04
40 05 19 00-3688 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,436.43	225.71
40 05 19 00-3689 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,661.93	228.20
40 05 19 00-3690 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,973.52	239.86
40 05 19 00-3691 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,113.00	266.51
40 05 19 00-3692 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,101.17	239.86
40 05 19 00-3693 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,364.06	251.52
40 05 19 00-3694 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,646.31	278.17
40 05 19 00-3695 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,963.37	292.33
40 05 19 00-3696 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,569.67	275.26
40 05 19 00-3697 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,783.85	286.92
40 05 19 00-3698 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,213.90	313.57
40 05 19 00-3699 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,532.01	327.32
40 05 19 00-3700 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,792.16	339.39
40 05 19 00-3701 EA 18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,145.46	312.74
40 05 19 00-3702 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,801.36	324.40
40 05 19 00-3703 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,887.09	351.05
40 05 19 00-3704 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,104.43	364.79
40 05 19 00-3705 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,465.37	376.87
40 05 19 00-3706 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,858.28	412.27
40 05 19 00-3707 EA 20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,184.44	371.04
40 05 19 00-3708 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,467.49	382.70
40 05 19 00-3709 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,560.98	409.35
40 05 19 00-3710 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,759.82	423.09
40 05 19 00-3711 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,367.67	435.17
40 05 19 00-3712 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,179.44	470.57
40 05 19 00-3713 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,550.31	508.05
40 05 19 00-3714 EA 24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,177.80	408.52
40 05 19 00-3715 EA 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,455.81	420.17
40 05 19 00-3716 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,919.46	446.83
40 05 19 00-3717 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,256.04	460.57
40 05 19 00-3718 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,905.86	472.65
40 05 19 00-3719 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,486.88	508.05
40 05 19 00-3720 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,647.81	545.52
40 05 19 00-3721 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	10,110.63	539.49
40 05 19 00-3722 EA 30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,206.32	564.67
40 05 19 00-3723 EA 30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,903.17	576.76
40 05 19 00-3724 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,611.20	612.15
40 05 19 00-3725 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,453.41	649.63
40 05 19 00-3726 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	22,034.03	707.93
40 05 19 00-3727 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	23,548.70	745.41



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3728	EA		36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	21,286.13	764.15
40 05 19 00-3729	EA		36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	23,257.66	801.62
40 05 19 00-3730	EA		36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	24,376.13	905.74
40 05 19 00-3731	EA		42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	31,583.72	832.86
40 05 19 00-3732	EA		42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	32,347.62	870.34
40 05 19 00-3733	EA		42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	32,310.53	974.45
40 05 19 00-3734	EA		42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	46,136.50	1,030.66
40 05 19 00-3735	EA		48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	44,128.49	1,005.68
40 05 19 00-3736	EA		48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	47,967.91	1,109.78
40 05 19 00-3737	EA		48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	49,337.98	1,166.00
40 05 19 00-3738	EA		48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	61,222.80	1,234.71
40 05 19 00-3739 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-2073)					
40 05 19 00-3740	EA		4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	950.59	137.42
40 05 19 00-3741	EA		6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,497.41	175.73
40 05 19 00-3742	EA		8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,226.42	199.06
40 05 19 00-3743	EA		10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,110.03	252.36
40 05 19 00-3744	EA		12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,354.26	279.84
40 05 19 00-3745	EA		14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	5,106.36	303.99
40 05 19 00-3746	EA		16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	6,508.61	374.79
40 05 19 00-3747	EA		18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	7,967.53	449.75
40 05 19 00-3748	EA		20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	10,640.08	566.35
40 05 19 00-3749	EA		24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	15,527.08	641.30
40 05 19 00-3750	EA		30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	26,904.40	849.51
40 05 19 00-3751	EA		36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	40,753.42	961.95
40 05 19 00-3752	EA		42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	62,808.20	1,099.37
40 05 19 00-3753 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbows (40 05 19 00-2073)					
40 05 19 00-3754	EA		6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	1,999.63	156.58
40 05 19 00-3755	EA		8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,381.85	168.24
40 05 19 00-3756	EA		8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,188.79	187.39
40 05 19 00-3757	EA		10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,573.41	194.89
40 05 19 00-3758	EA		10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,949.24	214.04
40 05 19 00-3759	EA		10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	4,085.04	225.71
40 05 19 00-3760	EA		12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	8,279.82	228.20
40 05 19 00-3761	EA		12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	6,347.97	239.86
40 05 19 00-3762	EA		12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	6,388.36	266.51
40 05 19 00-3763	EA		14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	8,510.75	251.52
40 05 19 00-3764	EA		14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	12,116.55	278.17
40 05 19 00-3765	EA		14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	11,845.64	292.33
40 05 19 00-3766	EA		16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	15,628.13	286.92
40 05 19 00-3767	EA		16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	15,522.99	313.57
40 05 19 00-3768	EA		16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	14,480.70	327.32
40 05 19 00-3769	EA		16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	14,367.65	339.39
40 05 19 00-3770	EA		18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	21,292.21	364.79
40 05 19 00-3771	EA		18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	19,394.08	376.87
40 05 19 00-3772	EA		18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	17,531.30	412.27
40 05 19 00-3773	EA		20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	28,629.84	435.17
40 05 19 00-3774	EA		20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	24,089.45	470.57
40 05 19 00-3775	EA		20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	19,552.20	508.05
40 05 19 00-3776	EA		24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	35,917.63	472.65
40 05 19 00-3777	EA		24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	28,699.62	508.05
40 05 19 00-3778	EA		24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	21,484.77	545.52

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3779 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	29,370.00	539.49
40 05 19 00-3780 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-2073)		
40 05 19 00-3781 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	997.62	137.42
40 05 19 00-3782 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,405.03	175.73
40 05 19 00-3783 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,288.57	199.06
40 05 19 00-3784 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,063.00	252.36
40 05 19 00-3785 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,097.29	279.84
40 05 19 00-3786 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,859.46	303.99
40 05 19 00-3787 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	5,922.42	374.79
40 05 19 00-3788 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	7,336.01	449.75
40 05 19 00-3789 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	9,479.48	566.35
40 05 19 00-3790 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	13,316.73	641.30
40 05 19 00-3791 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	21,491.05	849.51
40 05 19 00-3792 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	30,606.96	961.95
40 05 19 00-3793 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	53,918.08	1,099.37
40 05 19 00-3794 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	60,494.37	1,349.23
40 05 19 00-3795 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-2073)		
40 05 19 00-3796 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	1,222.91	220.71
40 05 19 00-3797 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	1,583.74	271.51
40 05 19 00-3798 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	2,293.46	303.16
40 05 19 00-3799 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	3,245.61	393.94
40 05 19 00-3800 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	4,346.26	429.75
40 05 19 00-3801 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	5,831.53	462.23
40 05 19 00-3802 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	6,298.36	583.00
40 05 19 00-3803 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	7,825.34	666.29
40 05 19 00-3804 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	9,843.85	841.19
40 05 19 00-3805 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	14,523.02	928.64
40 05 19 00-3806 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	23,883.94	1,282.60
40 05 19 00-3807 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	33,786.95	1,469.99
40 05 19 00-3808 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	72,316.32	1,699.03
40 05 19 00-3809 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tees (40 05 19 00-2073)		
40 05 19 00-3810 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	1,631.54	246.52
40 05 19 00-3811 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,119.48	251.52
40 05 19 00-3812 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,083.46	283.17
40 05 19 00-3813 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,826.67	278.17
40 05 19 00-3814 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,752.01	309.82
40 05 19 00-3815 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,867.95	329.81
40 05 19 00-3816 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,612.34	292.33
40 05 19 00-3817 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,566.23	323.98
40 05 19 00-3818 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,720.80	343.97
40 05 19 00-3819 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	4,289.94	408.10
40 05 19 00-3820 EA 14" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,180.27	303.99
40 05 19 00-3821 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,053.55	335.64
40 05 19 00-3822 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,231.63	355.63
40 05 19 00-3823 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,426.22	419.76
40 05 19 00-3824 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,704.89	441.83
40 05 19 00-3825 EA 16" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,253.41	339.39
40 05 19 00-3826 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,254.98	371.04
40 05 19 00-3827 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,374.29	391.03
40 05 19 00-3828 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,489.29	455.16
40 05 19 00-3829 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,803.86	477.23
40 05 19 00-3830 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,938.28	497.63
40 05 19 00-3831 EA 18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,869.39	408.52
40 05 19 00-3832 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,915.84	428.51
40 05 19 00-3833 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,863.51	492.64
40 05 19 00-3834 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,482.10	514.71
40 05 19 00-3835 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	7,999.47	535.11
40 05 19 00-3836 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,422.74	620.48
40 05 19 00-3837 EA 20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,383.07	466.82
40 05 19 00-3838 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,517.49	486.81
40 05 19 00-3839 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,774.23	550.94
40 05 19 00-3840 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	9,071.36	573.01
40 05 19 00-3841 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	9,154.34	593.41
40 05 19 00-3842 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,810.45	678.78
40 05 19 00-3843 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,983.98	724.59
40 05 19 00-3844 EA 24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	9,689.47	504.29
40 05 19 00-3845 EA 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,065.76	524.29
40 05 19 00-3846 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,356.09	588.41
40 05 19 00-3847 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,481.26	610.48
40 05 19 00-3848 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,722.13	630.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3849 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,990.88	716.26
40 05 19 00-3850 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	15,498.43	762.07
40 05 19 00-3851 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	15,950.49	814.34
40 05 19 00-3852 EA 30" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,210.98	608.41
40 05 19 00-3853 EA 30" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,296.70	628.39
40 05 19 00-3854 EA 30" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,733.15	692.53
40 05 19 00-3855 EA 30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,766.58	714.59
40 05 19 00-3856 EA 30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,797.50	735.00
40 05 19 00-3857 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,926.85	820.37
40 05 19 00-3858 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	20,555.57	866.17
40 05 19 00-3859 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	21,550.19	982.77
40 05 19 00-3860 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	26,278.39	1,032.75
40 05 19 00-3861 EA 36" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,594.99	870.75
40 05 19 00-3862 EA 36" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,844.03	886.58
40 05 19 00-3863 EA 36" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,968.23	931.97
40 05 19 00-3864 EA 36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,165.01	949.87
40 05 19 00-3865 EA 36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,246.71	966.11
40 05 19 00-3866 EA 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,449.06	1,026.50
40 05 19 00-3867 EA 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,570.94	1,068.14
40 05 19 00-3868 EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,926.82	1,155.59
40 05 19 00-3869 EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	29,503.67	1,199.31
40 05 19 00-3870 EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	38,166.47	1,376.30
40 05 19 00-3871 EA 42" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	41,968.71	839.52
40 05 19 00-3872 EA 42" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,061.77	859.92
40 05 19 00-3873 EA 42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,308.70	945.29
40 05 19 00-3874 EA 42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,438.55	991.10
40 05 19 00-3875 EA 42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,855.41	1,107.70
40 05 19 00-3876 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	43,413.17	1,157.67
40 05 19 00-3877 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	54,374.90	1,407.53
40 05 19 00-3878 EA 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	69,426.36	1,538.70
40 05 19 00-3879 EA 48" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,381.50	974.86
40 05 19 00-3880 EA 48" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,412.42	995.27
40 05 19 00-3881 EA 48" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,719.80	1,080.64
40 05 19 00-3882 EA 48" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,789.21	1,126.44
40 05 19 00-3883 EA 48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	57,206.05	1,243.04
40 05 19 00-3884 EA 48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	57,705.03	1,293.01
40 05 19 00-3885 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	58,925.08	1,542.87
40 05 19 00-3886 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-2073)		
40 05 19 00-3887 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	1,320.33	220.71
40 05 19 00-3888 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	1,867.59	271.51
40 05 19 00-3889 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	2,773.83	303.16
40 05 19 00-3890 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	4,155.95	393.94
40 05 19 00-3891 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	5,609.32	429.75
40 05 19 00-3892 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	6,323.65	462.23
40 05 19 00-3893 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	7,749.53	583.00
40 05 19 00-3894 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	9,368.89	666.29
40 05 19 00-3895 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	12,317.90	841.19
40 05 19 00-3896 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	17,751.21	928.64
40 05 19 00-3897 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	29,419.91	1,282.60
40 05 19 00-3898 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	41,916.22	1,469.99
40 05 19 00-3899 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-2073)		
40 05 19 00-3900 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,076.78	220.71
40 05 19 00-3901 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,571.98	271.51
40 05 19 00-3902 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	2,332.09	303.16
40 05 19 00-3903 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	3,074.29	393.94
40 05 19 00-3904 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	4,658.67	429.75
40 05 19 00-3905 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	6,244.71	462.23
40 05 19 00-3906 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-2073)		
40 05 19 00-3907 EA 4" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	1,382.69	303.99
40 05 19 00-3908 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	1,951.93	329.39
40 05 19 00-3909 EA 6" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,026.15	367.29
40 05 19 00-3910 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,526.16	334.81
40 05 19 00-3911 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,693.82	378.95
40 05 19 00-3912 EA 8" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,751.85	407.27
40 05 19 00-3913 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,324.05	361.46
40 05 19 00-3914 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,587.44	405.60
40 05 19 00-3915 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,875.56	433.92
40 05 19 00-3916 EA 10" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,662.73	535.53
40 05 19 00-3917 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,352.63	375.21
40 05 19 00-3918 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,516.93	419.34
40 05 19 00-3919 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,805.05	447.66

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3920 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,642.60	549.27
40 05 19 00-3921 EA 12" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,288.92	579.67
40 05 19 00-3922 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,443.89	431.42
40 05 19 00-3923 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,732.01	459.74
40 05 19 00-3924 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,225.24	561.35
40 05 19 00-3925 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,714.71	591.75
40 05 19 00-3926 EA 14" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,000.12	620.48
40 05 19 00-3927 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,500.24	466.82
40 05 19 00-3928 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,835.40	495.13
40 05 19 00-3929 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,330.30	596.75
40 05 19 00-3930 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,866.80	627.14
40 05 19 00-3931 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,797.58	655.88
40 05 19 00-3932 EA 16" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,703.26	791.21
40 05 19 00-3933 EA 18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,830.80	504.29
40 05 19 00-3934 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,165.96	532.61
40 05 19 00-3935 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,563.46	634.23
40 05 19 00-3936 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,099.96	664.62
40 05 19 00-3937 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,216.76	693.36
40 05 19 00-3938 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,863.54	828.69
40 05 19 00-3939 EA 18" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,236.14	882.82
40 05 19 00-3940 EA 20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,791.89	562.59
40 05 19 00-3941 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,150.55	590.91
40 05 19 00-3942 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,514.46	692.53
40 05 19 00-3943 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,086.24	722.92
40 05 19 00-3944 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,237.26	751.66
40 05 19 00-3945 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,231.11	886.99
40 05 19 00-3946 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,627.21	941.13
40 05 19 00-3947 EA 20" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,629.55	1,116.03
40 05 19 00-3948 EA 24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	11,623.38	600.07
40 05 19 00-3949 EA 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	11,879.59	628.39
40 05 19 00-3950 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,399.69	730.00
40 05 19 00-3951 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,761.52	760.40
40 05 19 00-3952 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,962.93	789.14
40 05 19 00-3953 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,535.83	924.47
40 05 19 00-3954 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	17,354.96	978.61
40 05 19 00-3955 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	18,204.40	1,089.17
40 05 19 00-3956 EA 24" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	19,869.53	1,215.97
40 05 19 00-3957 EA 30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	20,838.57	864.51
40 05 19 00-3958 EA 30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	20,937.53	893.24
40 05 19 00-3959 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,535.62	1,028.58
40 05 19 00-3960 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,733.53	1,082.71
40 05 19 00-3961 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	22,616.63	1,257.61
40 05 19 00-3962 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,194.52	1,320.08
40 05 19 00-3963 EA 30" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	32,667.73	1,715.69
40 05 19 00-3964 EA 36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,178.19	1,099.79
40 05 19 00-3965 EA 36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,215.42	1,124.36
40 05 19 00-3966 EA 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,725.26	1,234.71
40 05 19 00-3967 EA 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,911.83	1,284.68
40 05 19 00-3968 EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	30,639.91	1,430.44
40 05 19 00-3969 EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	31,627.02	1,486.65
40 05 19 00-3970 EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	42,205.37	1,809.38
40 05 19 00-3971 EA 36" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	46,070.37	1,978.04
40 05 19 00-3972 EA 42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	43,462.29	1,153.51
40 05 19 00-3973 EA 42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	43,606.46	1,207.65
40 05 19 00-3974 EA 42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	44,445.87	1,382.55
40 05 19 00-3975 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	45,497.90	1,445.00
40 05 19 00-3976 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	58,596.89	1,840.62
40 05 19 00-3977 EA 42" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	79,756.40	2,046.75
40 05 19 00-3978 EA 48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	59,191.24	1,517.88
40 05 19 00-3979 EA 48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	60,243.25	1,580.35
40 05 19 00-3980 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	62,565.92	1,975.96

40 05 19 00-3981 Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducers

(40 05 19 00-2073)

40 05 19 00-3982 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	988.02	156.58
40 05 19 00-3983 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,316.42	168.24
40 05 19 00-3984 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,399.18	187.39
40 05 19 00-3985 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,756.54	194.89
40 05 19 00-3986 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,748.61	214.04
40 05 19 00-3987 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,964.46	225.71
40 05 19 00-3988 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,243.24	209.04
40 05 19 00-3989 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,277.30	228.20
40 05 19 00-3990 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,437.73	239.86
40 05 19 00-3991 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,649.44	266.51
40 05 19 00-3992 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,760.21	239.86
40 05 19 00-3993 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,974.39	251.52
40 05 19 00-3994 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,182.74	278.17
40 05 19 00-3995 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,089.98	292.33
40 05 19 00-3996 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,279.10	275.26
40 05 19 00-3997 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,125.45	286.92



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3998	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	3,375.78	313.57
40 05 19 00-3999	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	3,779.55	327.32
40 05 19 00-4000	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,253.01	339.39
40 05 19 00-4001	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	3,968.28	324.40
40 05 19 00-4002	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,253.88	351.05
40 05 19 00-4003	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,212.56	364.79
40 05 19 00-4004	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,731.39	376.87
40 05 19 00-4005	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,682.56	412.27
40 05 19 00-4006	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,835.96	382.70
40 05 19 00-4007	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,138.35	409.35
40 05 19 00-4008	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,014.72	423.09
40 05 19 00-4009	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,652.80	435.17
40 05 19 00-4010	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,315.08	470.57
40 05 19 00-4011	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,344.35	508.05
40 05 19 00-4012	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	7,009.11	446.83
40 05 19 00-4013	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	7,575.80	460.57
40 05 19 00-4014	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	7,735.18	472.65
40 05 19 00-4015	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,915.42	508.05
40 05 19 00-4016	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	8,121.05	545.52
40 05 19 00-4017	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	8,531.80	539.49
40 05 19 00-4018	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	11,603.04	612.15
40 05 19 00-4019	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	12,000.79	649.63
40 05 19 00-4020	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	12,766.00	707.93
40 05 19 00-4021	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	13,948.11	745.41
40 05 19 00-4022	EA	36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	16,444.84	668.37
40 05 19 00-4023	EA	36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	16,679.66	705.85
40 05 19 00-4024	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	17,711.94	764.15
40 05 19 00-4025	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	18,637.08	801.62
40 05 19 00-4026	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	21,166.42	905.74
40 05 19 00-4027	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	25,839.17	870.34
40 05 19 00-4028	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	28,884.14	974.45
40 05 19 00-4029	EA	42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	32,395.70	1,030.66
40 05 19 00-4030	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	34,230.61	1,005.68
40 05 19 00-4031	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	36,259.42	1,109.78
40 05 19 00-4032	EA	48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	40,253.02	1,166.00
40 05 19 00-4033	EA	48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	44,808.06	1,234.71

40 05 19 00-4034

Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducers

(40 05 19 00-2073)

40 05 19 00-4035	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,056.88	156.58
40 05 19 00-4036	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,395.36	168.24
40 05 19 00-4037	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,520.12	187.39
40 05 19 00-4038	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,756.54	194.89
40 05 19 00-4039	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,832.59	214.04
40 05 19 00-4040	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,045.08	225.71
40 05 19 00-4041	EA	12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,243.24	209.04
40 05 19 00-4042	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,371.36	228.20
40 05 19 00-4043	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,535.14	239.86
40 05 19 00-4044	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,819.07	266.51
40 05 19 00-4045	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,760.21	239.86
40 05 19 00-4046	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,924.00	251.52
40 05 19 00-4047	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,159.23	278.17
40 05 19 00-4048	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,523.32	292.33
40 05 19 00-4049	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,279.10	275.26
40 05 19 00-4050	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,489.92	286.92
40 05 19 00-4051	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,777.20	313.57
40 05 19 00-4052	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,090.27	327.32
40 05 19 00-4053	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,253.01	339.39
40 05 19 00-4054	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,968.28	324.40
40 05 19 00-4055	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,253.88	351.05
40 05 19 00-4056	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,565.27	364.79
40 05 19 00-4057	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,731.39	376.87
40 05 19 00-4058	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,077.27	412.27
40 05 19 00-4059	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,097.97	382.70
40 05 19 00-4060	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,323.11	409.35
40 05 19 00-4061	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,528.68	423.09
40 05 19 00-4062	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,652.80	435.17
40 05 19 00-4063	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,072.58	470.57
40 05 19 00-4064	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,339.31	508.05
40 05 19 00-4065	EA	24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,200.51	420.17
40 05 19 00-4066	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,130.04	446.83
40 05 19 00-4067	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,256.68	460.57
40 05 19 00-4068	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,379.10	472.65
40 05 19 00-4069	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,800.57	508.05
40 05 19 00-4070	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,121.05	545.52
40 05 19 00-4071	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,531.80	539.49
40 05 19 00-4072	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,332.50	576.76
40 05 19 00-4073	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	13,353.18	612.15
40 05 19 00-4074	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,056.21	649.63
40 05 19 00-4075	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,766.00	707.93

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4076 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	13,948.11	745.41
40 05 19 00-4077 EA 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	15,463.96	668.37
40 05 19 00-4078 EA 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	16,101.88	705.85
40 05 19 00-4079 EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	17,035.06	764.15
40 05 19 00-4080 EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	18,578.29	801.62
40 05 19 00-4081 EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	21,463.71	905.74
40 05 19 00-4082 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	25,839.17	870.34
40 05 19 00-4083 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	28,884.14	974.45
40 05 19 00-4084 EA 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	32,395.70	1,030.66
40 05 19 00-4085 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	36,259.42	1,109.78
40 05 19 00-4086 EA 48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	40,253.02	1,166.00
40 05 19 00-4087 EA 48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	44,808.06	1,234.71

40 05 19 00-4088 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-2073)

40 05 19 00-4089 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	490.16	54.13
40 05 19 00-4090 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	745.95	79.95
40 05 19 00-4091 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	997.10	94.95
40 05 19 00-4092 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,452.73	110.77
40 05 19 00-4093 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,926.85	129.92
40 05 19 00-4094 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	2,657.94	145.75
40 05 19 00-4095 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	3,211.84	166.57
40 05 19 00-4096 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	4,322.23	233.20
40 05 19 00-4097 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	5,804.63	291.50
40 05 19 00-4098 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	8,516.09	353.97
40 05 19 00-4099 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	12,353.30	412.27
40 05 19 00-4100 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	23,194.38	453.91
40 05 19 00-4101 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	33,270.85	499.71
40 05 19 00-4102 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	44,363.50	562.18

40 05 19 00-4103 Ductile Iron Bolt Packs (40 05 19)

Note: Labor installation is included with pipe fittings or valves.

40 05 19 00-4104 EA 4" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	45.55	
Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	12.75	
For Hot Dip Galvanized, Add		
	18.22	
40 05 19 00-4105 EA 6" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	70.28	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	19.68	
For Hot Dip Galvanized, Add		
	28.11	
40 05 19 00-4106 EA 8" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	76.32	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	21.37	
For Hot Dip Galvanized, Add		
	30.53	
40 05 19 00-4107 EA 10" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	171.43	
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	48.00	
For Hot Dip Galvanized, Add		
	68.57	
40 05 19 00-4108 EA 12" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	172.93	
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	48.42	
For Hot Dip Galvanized, Add		
	69.17	
40 05 19 00-4109 EA 14" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	193.75	
Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	54.25	
For Hot Dip Galvanized, Add		
	77.50	
40 05 19 00-4110 EA 16" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	325.71	
Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	91.20	
For Hot Dip Galvanized, Add		
	130.28	
40 05 19 00-4111 EA 18" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	473.18	
Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	132.49	
For Hot Dip Galvanized, Add		
	189.27	
40 05 19 00-4112 EA 20" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	597.45	
Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	167.29	
For Hot Dip Galvanized, Add		
	238.98	
40 05 19 00-4113 EA 24" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	854.84	
Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	239.36	
For Hot Dip Galvanized, Add		
	341.94	
40 05 19 00-4114 EA 30" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,350.78	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	378.22	
For Hot Dip Galvanized, Add		
	540.31	
40 05 19 00-4115 EA 36" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,926.91	
Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add		
	539.53	
For Hot Dip Galvanized, Add		
	770.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4116 EA 42" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,478.92	
Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	694.10	
For Hot Dip Galvanized, Add	991.57	
40 05 19 00-4117 EA 48" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	3,029.78	
Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	848.34	
For Hot Dip Galvanized, Add	1,211.91	
40 05 19 00-4118 Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 (40 05 19)		
Note: Labor installation is included with pipe fittings or valves.		
40 05 19 00-4119 Full Face Flange Styrene Butadiene (SBR) Gaskets (40 05 19 00-4118)		
40 05 19 00-4120 EA 4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	8.24	
40 05 19 00-4121 EA 6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	10.48	
40 05 19 00-4122 EA 8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	14.23	
40 05 19 00-4123 EA 10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	16.47	
40 05 19 00-4124 EA 12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	17.97	
40 05 19 00-4125 EA 14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	29.95	
40 05 19 00-4126 EA 16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	36.69	
40 05 19 00-4127 EA 18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	38.94	
40 05 19 00-4128 EA 20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	59.90	
40 05 19 00-4129 EA 24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	64.39	
40 05 19 00-4130 EA 30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	83.11	
40 05 19 00-4131 EA 36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	95.09	
40 05 19 00-4132 EA 42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	101.83	
40 05 19 00-4133 EA 48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	111.56	
40 05 19 00-4134 Full Face Flange Nitrile Buna-N (NBR) Gaskets (40 05 19 00-4118)		
Note: (Acrylonitrile Butadiene)		
40 05 19 00-4135 EA 4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	25.46	
40 05 19 00-4136 EA 6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	35.94	
40 05 19 00-4137 EA 8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	55.41	
40 05 19 00-4138 EA 10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	60.65	
40 05 19 00-4139 EA 12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	65.14	
40 05 19 00-4140 EA 14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	122.80	
40 05 19 00-4141 EA 16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	151.25	
40 05 19 00-4142 EA 18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	152.00	
40 05 19 00-4143 EA 20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	157.99	
40 05 19 00-4144 EA 24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	166.97	
40 05 19 00-4145 EA 30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	184.94	
40 05 19 00-4146 EA 36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	203.66	
40 05 19 00-4147 EA 42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	289.77	
40 05 19 00-4148 EA 48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	316.72	
40 05 19 00-4149 Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets (40 05 19 00-4118)		
40 05 19 00-4150 EA 4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	22.46	
40 05 19 00-4151 EA 6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	29.20	
40 05 19 00-4152 EA 8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	39.68	
40 05 19 00-4153 EA 10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	46.42	
40 05 19 00-4154 EA 12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	51.66	
40 05 19 00-4155 EA 14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	85.36	
40 05 19 00-4156 EA 16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	102.58	
40 05 19 00-4157 EA 18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	103.33	
40 05 19 00-4158 EA 20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	105.57	
40 05 19 00-4159 EA 24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	122.80	
40 05 19 00-4160 EA 30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	150.50	
40 05 19 00-4161 EA 36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	171.46	
40 05 19 00-4162 EA 42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	245.59	
40 05 19 00-4163 EA 48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	271.05	
40 05 19 00-4164 Full Face Flange Neoprene Gaskets (40 05 19 00-4118)		
Note: (Polychloroprene)		
40 05 19 00-4165 EA 4" Full Face Flange Neoprene Gasket, 1/8" Thick.....	26.21	
40 05 19 00-4166 EA 6" Full Face Flange Neoprene Gasket, 1/8" Thick.....	36.69	
40 05 19 00-4167 EA 8" Full Face Flange Neoprene Gasket, 1/8" Thick.....	56.16	
40 05 19 00-4168 EA 10" Full Face Flange Neoprene Gasket, 1/8" Thick.....	60.65	
40 05 19 00-4169 EA 12" Full Face Flange Neoprene Gasket, 1/8" Thick.....	65.14	
40 05 19 00-4170 EA 14" Full Face Flange Neoprene Gasket, 1/8" Thick.....	86.86	
40 05 19 00-4171 EA 16" Full Face Flange Neoprene Gasket, 1/8" Thick.....	152.74	
40 05 19 00-4172 EA 18" Full Face Flange Neoprene Gasket, 1/8" Thick.....	153.49	
40 05 19 00-4173 EA 20" Full Face Flange Neoprene Gasket, 1/8" Thick.....	162.48	
40 05 19 00-4174 EA 24" Full Face Flange Neoprene Gasket, 1/8" Thick.....	164.72	
40 05 19 00-4175 EA 30" Full Face Flange Neoprene Gasket, 1/8" Thick.....	178.95	
40 05 19 00-4176 EA 36" Full Face Flange Neoprene Gasket, 1/8" Thick.....	201.41	
40 05 19 00-4177 EA 42" Full Face Flange Neoprene Gasket, 1/8" Thick.....	292.01	
40 05 19 00-4178 EA 48" Full Face Flange Neoprene Gasket, 1/8" Thick.....	319.72	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-4179 Full Face Flange FKM Gaskets (40 05 19 00-4118)

Note: (Fluoroelastomer Fluorel Viton®)

40 05 19 00-4180	EA	4" Full Face Flange FKM Gasket, 1/8" Thick	146.36	
40 05 19 00-4181	EA	6" Full Face Flange FKM Gasket, 1/8" Thick	217.91	
40 05 19 00-4182	EA	8" Full Face Flange FKM Gasket, 1/8" Thick	291.09	
40 05 19 00-4183	EA	10" Full Face Flange FKM Gasket, 1/8" Thick	351.26	
40 05 19 00-4184	EA	12" Full Face Flange FKM Gasket, 1/8" Thick	456.96	
40 05 19 00-4185	EA	14" Full Face Flange FKM Gasket, 1/8" Thick	835.87	
40 05 19 00-4186	EA	16" Full Face Flange FKM Gasket, 1/8" Thick	957.83	
40 05 19 00-4187	EA	18" Full Face Flange FKM Gasket, 1/8" Thick	1,003.37	
40 05 19 00-4188	EA	20" Full Face Flange FKM Gasket, 1/8" Thick	1,070.04	
40 05 19 00-4189	EA	24" Full Face Flange FKM Gasket, 1/8" Thick	1,479.84	
40 05 19 00-4190	EA	30" Full Face Flange FKM Gasket, 1/8" Thick	1,774.18	
40 05 19 00-4191	EA	36" Full Face Flange FKM Gasket, 1/8" Thick	1,871.76	
40 05 19 00-4192	EA	42" Full Face Flange FKM Gasket, 1/8" Thick	2,333.60	
40 05 19 00-4193	EA	48" Full Face Flange FKM Gasket, 1/8" Thick	2,445.80	

40 05 19 00-4194 Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)

40 05 19 00-4195	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	421.61	81.07
40 05 19 00-4196	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	584.33	98.96
40 05 19 00-4197	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	864.01	120.71
40 05 19 00-4198	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,185.99	147.25
40 05 19 00-4199	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,505.41	179.55
40 05 19 00-4200	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,416.06	219.07
40 05 19 00-4201	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,796.80	267.35
40 05 19 00-4202	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,922.17	326.08
40 05 19 00-4203	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	4,805.20	397.91
40 05 19 00-4204	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	5,355.52	485.34
40 05 19 00-4205	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	6,900.91	592.23
40 05 19 00-4206	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	10,253.37	722.42
40 05 19 00-4207	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	26,693.36	881.45
40 05 19 00-4208	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	34,094.11	1,075.29

40 05 23 Stainless Steel Process Pipe and Tubing (40 05)**40 05 23 23 300- and 400-Series Stainless Steel Process Pipe (40 05 23)****40 05 23 23-0001 Schedule 40 Pipe, Type 304, With 150 Lb. Screwed Fittings Assembly (40 05 23)**

23)

Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.

40 05 23 23-0002	LF	1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	31.60	9.89
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Type 316, Add			3.05	
For Work In Restricted Working Space, Add			5.96	
40 05 23 23-0003	LF	3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	35.91	11.33
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Type 316, Add			3.20	
For Work In Restricted Working Space, Add			7.08	
40 05 23 23-0004	LF	1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	41.80	12.78
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Type 316, Add			3.75	
For Work In Restricted Working Space, Add			8.22	
40 05 23 23-0005	LF	1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	47.69	15.44
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Type 316, Add			4.73	
For Work In Restricted Working Space, Add			8.85	
40 05 23 23-0006	LF	1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	52.45	15.88
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Type 316, Add			5.42	
For Work In Restricted Working Space, Add			9.48	
40 05 23 23-0007	LF	2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	63.51	20.99
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Type 316, Add			6.61	
For Work In Restricted Working Space, Add			11.43	
40 05 23 23-0008	LF	2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	90.89	25.88
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Type 316, Add			11.36	
For Work In Restricted Working Space, Add			14.16	
40 05 23 23-0009	LF	3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	114.64	29.99
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Type 316, Add			14.80	
For Work In Restricted Working Space, Add			17.32	
40 05 23 23-0010	LF	4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	155.19	29.99
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Work In Restricted Working Space, Add			21.97	

40 05 23 23-0011 Stainless Steel Tubing And Fittings (40 05 23 23)**40 05 23 23-0012 Type 304 Tubing (40 05 23 23-0011)**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23	23-0013		0.035" Wall (40 05 23 23-0012)		
40 05 23	23-0014	LF	1/4", 0.035" Wall, Type 304, Stainless Steel Tubing.....	8.57	3.26
			For Work In Restricted Working Space, Add	1.94	
40 05 23	23-0015	LF	3/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	9.97	3.86
			For Work In Restricted Working Space, Add	2.33	
40 05 23	23-0016	LF	1/2", 0.035" Wall, Type 304, Stainless Steel Tubing.....	11.89	4.58
			For Work In Restricted Working Space, Add	2.72	
40 05 23	23-0017	LF	5/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	18.95	5.19
			For Work In Restricted Working Space, Add	3.11	
40 05 23	23-0018	LF	3/4", 0.035" Wall, Type 304, Stainless Steel Tubing.....	22.41	5.79
			For Work In Restricted Working Space, Add	3.50	
40 05 23	23-0019	LF	7/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	24.80	6.52
			For Work In Restricted Working Space, Add	3.89	
40 05 23	23-0020	LF	1", 0.035" Wall, Type 304, Stainless Steel Tubing.....	27.82	7.84
			For Work In Restricted Working Space, Add	4.67	
40 05 23	23-0021		0.049" Wall (40 05 23 23-0012)		
40 05 23	23-0022	LF	1/4", 0.049" Wall, Type 304, Stainless Steel Tubing.....	14.00	3.86
			For Work In Restricted Working Space, Add	2.33	
40 05 23	23-0023	LF	3/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	15.64	4.58
			For Work In Restricted Working Space, Add	2.72	
40 05 23	23-0024	LF	1/2", 0.049" Wall, Type 304, Stainless Steel Tubing.....	18.76	5.19
			For Work In Restricted Working Space, Add	3.11	
40 05 23	23-0025	LF	5/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	23.72	6.52
			For Work In Restricted Working Space, Add	3.89	
40 05 23	23-0026	LF	3/4", 0.049" Wall, Type 304, Stainless Steel Tubing.....	27.21	7.84
			For Work In Restricted Working Space, Add	4.67	
40 05 23	23-0027	LF	7/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	30.63	9.05
			For Work In Restricted Working Space, Add	5.45	
40 05 23	23-0028	LF	1", 0.049" Wall, Type 304, Stainless Steel Tubing.....	35.31	10.25
			For Work In Restricted Working Space, Add	6.19	
40 05 23	23-0029		0.065" Wall (40 05 23 23-0012)		
40 05 23	23-0030	LF	1/4", 0.065" Wall, Type 304, Stainless Steel Tubing.....	16.35	4.58
			For Work In Restricted Working Space, Add	2.72	
40 05 23	23-0031	LF	3/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	18.81	5.19
			For Work In Restricted Working Space, Add	3.11	
40 05 23	23-0032	LF	1/2", 0.065" Wall, Type 304, Stainless Steel Tubing.....	23.20	6.52
			For Work In Restricted Working Space, Add	3.89	
40 05 23	23-0033	LF	5/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	27.30	7.84
			For Work In Restricted Working Space, Add	4.67	
40 05 23	23-0034	LF	3/4", 0.065" Wall, Type 304, Stainless Steel Tubing.....	32.18	9.05
			For Work In Restricted Working Space, Add	5.45	
40 05 23	23-0035	LF	7/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	36.95	10.25
			For Work In Restricted Working Space, Add	6.19	
40 05 23	23-0036	LF	1", 0.065" Wall, Type 304, Stainless Steel Tubing.....	41.65	11.58
			For Work In Restricted Working Space, Add	6.96	
40 05 23	23-0037		Type 304 Tube Fittings (40 05 23 23-0011)		
40 05 23	23-0038		90 Degree Elbows (40 05 23 23-0037)		
40 05 23	23-0039	EA	1/4", Type 304, Stainless Steel, 90 Degree Elbow	52.49	13.03
			For Work In Restricted Working Space, Add	7.79	
40 05 23	23-0040	EA	3/8", Type 304, Stainless Steel, 90 Degree Elbow	61.85	14.24
			For Work In Restricted Working Space, Add	8.52	
40 05 23	23-0041	EA	1/2", Type 304, Stainless Steel, 90 Degree Elbow	92.18	16.05
			For Work In Restricted Working Space, Add	9.65	
40 05 23	23-0042	EA	5/8", Type 304, Stainless Steel, 90 Degree Elbow	98.62	17.97
			For Work In Restricted Working Space, Add	10.81	
40 05 23	23-0043	EA	3/4", Type 304, Stainless Steel, 90 Degree Elbow	110.18	19.43
			For Work In Restricted Working Space, Add	11.68	
40 05 23	23-0044	EA	7/8", Type 304, Stainless Steel, 90 Degree Elbow	149.54	21.60
			For Work In Restricted Working Space, Add	12.93	
40 05 23	23-0045	EA	1", Type 304, Stainless Steel, 90 Degree Elbow	190.11	25.70
			For Work In Restricted Working Space, Add	15.41	
40 05 23	23-0046		Union Tees (40 05 23 23-0037)		
40 05 23	23-0047	EA	1/4", Type 304, Stainless Steel, Union Tee	83.06	19.43
			For Work In Restricted Working Space, Add	11.68	
40 05 23	23-0048	EA	3/8", Type 304, Stainless Steel, Union Tee	100.35	21.60
			For Work In Restricted Working Space, Add	12.93	
40 05 23	23-0049	EA	1/2", Type 304, Stainless Steel, Union Tee	136.11	24.13
			For Work In Restricted Working Space, Add	14.48	
40 05 23	23-0050	EA	5/8", Type 304, Stainless Steel, Union Tee	146.72	27.39
			For Work In Restricted Working Space, Add	16.45	
40 05 23	23-0051	EA	3/4", Type 304, Stainless Steel, Union Tee	186.37	29.44
			For Work In Restricted Working Space, Add	17.66	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0052	EA	7/8"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	293.41 19.57	32.58
40 05 23 23-0053	EA	1"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	351.61 23.35	38.97
40 05 23 23-0054 Unions (40 05 23 23-0037)					
40 05 23 23-0055	EA	1/4"	Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	79.54 11.68	19.43
40 05 23 23-0056	EA	3/8"	Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	102.33 12.93	21.60
40 05 23 23-0057	EA	1/2"	Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	137.41 14.48	24.13
40 05 23 23-0058	EA	5/8"	Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	167.12 16.45	27.39
40 05 23 23-0059	EA	3/4"	Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	198.78 17.66	29.44
40 05 23 23-0060	EA	7/8"	Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	303.32 19.57	32.58
40 05 23 23-0061	EA	1"	Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	323.55 23.35	38.97
40 05 23 23-0062 Male Connectors (40 05 23 23-0037)					
40 05 23 23-0063	EA	1/4" x 1/4"	Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	39.92 7.79	13.03
40 05 23 23-0064	EA	3/8" x 3/8"	Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	49.49 8.52	14.24
40 05 23 23-0065	EA	1/2" x 1/2"	Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	63.75 9.65	16.05
40 05 23 23-0066	EA	5/8" x 5/8"	Male Connection, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	71.82 10.81	17.97
40 05 23 23-0067	EA	3/4" x 3/4"	Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	86.36 11.68	19.43
40 05 23 23-0068	EA	7/8" x 7/8"	Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	128.65 12.93	21.60
40 05 23 23-0069	EA	1" x 1"	Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	135.31 15.41	25.70
40 05 23 23-0070 Type 304 Valves (40 05 23 23-0011)					
40 05 23 23-0071 Gate Valves (40 05 23 23-0070)					
40 05 23 23-0072	EA	1/4"	Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	232.49 10.54	19.43
40 05 23 23-0073	EA	3/8"	Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	392.86 11.10	22.81
40 05 23 23-0074	EA	1/2"	Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	407.22 15.41	25.70
40 05 23 23-0075	EA	3/4"	Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	451.32 17.66	29.44
40 05 23 23-0076	EA	1"	Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	413.12 23.35	38.97
40 05 23 23-0077 Globe Valves (40 05 23 23-0070)					
40 05 23 23-0078	EA	1/4"	Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	235.72 10.54	19.43
40 05 23 23-0079	EA	3/8"	Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	155.05 11.10	22.81
40 05 23 23-0080	EA	1/2"	Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	279.31 15.41	25.70
40 05 23 23-0081	EA	3/4"	Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	310.84 17.66	29.44
40 05 23 23-0082	EA	1"	Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	453.83 23.35	38.97
40 05 23 23-0083 Check Valves (40 05 23 23-0070)					
40 05 23 23-0084	EA	1/4"	Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	330.75 10.54	19.43
40 05 23 23-0085	EA	3/8"	Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	332.61 11.10	22.81
40 05 23 23-0086	EA	1/2"	Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	216.59 15.41	25.70
40 05 23 23-0087	EA	3/4"	Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	226.50 17.66	29.44
40 05 23 23-0088	EA	1"	Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	250.27 23.35	38.97
40 05 23 23-0089 Plug Valves (40 05 23 23-0070)					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0090 EA 1/2" Plug Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	511.74 15.41	25.70
40 05 23 23-0091 EA 3/4" Plug Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	560.17 17.66	29.44
40 05 23 23-0092 EA 1" Plug Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	633.71 23.35	38.97
40 05 23 23-0093 EA 1-1/2" Plug Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	881.14 26.42	44.04
40 05 23 23-0094 EA 2" Plug Valve, Stainless Steel Type 304..... <i>For Work In Restricted Working Space, Add</i>	1,147.13 36.20	60.33
40 05 23 23-0095 Type 316 Tubing (40 05 23 23-0011)		
40 05 23 23-0096 0.035" Wall (40 05 23 23-0095)		
40 05 23 23-0097 LF 1/4" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	8.89 1.94	3.26
40 05 23 23-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	11.54 2.33	3.86
40 05 23 23-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	12.85 2.72	4.58
40 05 23 23-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	21.49 3.11	5.19
40 05 23 23-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	24.38 3.50	5.79
40 05 23 23-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	30.85 3.89	6.52
40 05 23 23-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	32.51 4.67	7.84
40 05 23 23-0104 0.049" Wall (40 05 23 23-0095)		
40 05 23 23-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	15.36 2.33	3.86
40 05 23 23-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	17.07 2.72	4.58
40 05 23 23-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	20.10 3.11	5.19
40 05 23 23-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	26.18 3.89	6.52
40 05 23 23-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	30.27 4.67	7.84
40 05 23 23-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	38.51 5.45	9.05
40 05 23 23-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	39.45 6.19	10.25
40 05 23 23-0112 0.065" Wall (40 05 23 23-0095)		
40 05 23 23-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	17.96 2.72	4.58
40 05 23 23-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	20.05 3.11	5.19
40 05 23 23-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	25.14 3.89	6.52
40 05 23 23-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	29.97 4.67	7.84
40 05 23 23-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	36.28 5.45	9.05
40 05 23 23-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	39.99 6.19	10.25
40 05 23 23-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	46.55 6.96	11.58
40 05 23 23-0120 Type 316 Tube Fittings (40 05 23 23-0011)		
40 05 23 23-0121 90 Degree Elbows (40 05 23 23-0120)		
40 05 23 23-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	71.65 7.79	13.03
40 05 23 23-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	86.02 8.52	14.24
40 05 23 23-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	135.50 9.65	16.05
40 05 23 23-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	143.82 10.81	17.97
40 05 23 23-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	161.62 11.68	19.43
40 05 23 23-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	226.40 12.93	21.60
40 05 23 23-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	290.29 15.41	25.70

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST	
40 05 23 23-0129 Union Tees (40 05 23 23-0120)					
40 05 23 23-0130	EA	1/4" Union Tee, Stainless Steel Type 316	114.93		19.43
		For Work In Restricted Working Space, Add	11.68		
40 05 23 23-0131	EA	3/8" Union Tee, Stainless Steel Type 316	141.70		21.60
		For Work In Restricted Working Space, Add	12.93		
40 05 23 23-0132	EA	1/2" Union Tee, Stainless Steel Type 316	199.54		24.13
		For Work In Restricted Working Space, Add	14.48		
40 05 23 23-0133	EA	5/8" Union Tee, Stainless Steel Type 316	213.06		27.39
		For Work In Restricted Working Space, Add	16.45		
40 05 23 23-0134	EA	3/4" Union Tee, Stainless Steel Type 316	278.43		29.44
		For Work In Restricted Working Space, Add	17.66		
40 05 23 23-0135	EA	7/8" Union Tee, Stainless Steel Type 316	458.16		32.58
		For Work In Restricted Working Space, Add	19.57		
40 05 23 23-0136	EA	1" Union Tee, Stainless Steel Type 316	549.27		38.97
		For Work In Restricted Working Space, Add	23.35		
40 05 23 23-0137 Unions (40 05 23 23-0120)					
40 05 23 23-0138	EA	1/4" Union, Stainless Steel Type 316	74.69		19.43
		For Work In Restricted Working Space, Add	11.68		
40 05 23 23-0139	EA	3/8" Union, Stainless Steel Type 316	95.25		21.60
		For Work In Restricted Working Space, Add	12.93		
40 05 23 23-0140	EA	1/2" Union, Stainless Steel Type 316	126.76		24.13
		For Work In Restricted Working Space, Add	14.48		
40 05 23 23-0141	EA	5/8" Union, Stainless Steel Type 316	153.70		27.39
		For Work In Restricted Working Space, Add	16.45		
40 05 23 23-0142	EA	3/4" Union, Stainless Steel Type 316	182.06		29.44
		For Work In Restricted Working Space, Add	17.66		
40 05 23 23-0143	EA	7/8" Union, Stainless Steel Type 316	274.86		32.58
		For Work In Restricted Working Space, Add	19.57		
40 05 23 23-0144	EA	1" Union, Stainless Steel Type 316	294.18		38.97
		For Work In Restricted Working Space, Add	23.35		
40 05 23 23-0145 Male Connectors (40 05 23 23-0120)					
40 05 23 23-0146	EA	1/4" x 1/4" Male Connector, Stainless Steel Type 316	49.79		13.03
		For Work In Restricted Working Space, Add	7.79		
40 05 23 23-0147	EA	3/8" x 3/8" Male Connector, Stainless Steel Type 316	64.41		14.24
		For Work In Restricted Working Space, Add	8.52		
40 05 23 23-0148	EA	1/2" x 1/2" Male Connector, Stainless Steel Type 316	86.07		16.05
		For Work In Restricted Working Space, Add	9.65		
40 05 23 23-0149	EA	5/8" x 5/8" Male Connector, Stainless Steel Type 316	97.12		17.97
		For Work In Restricted Working Space, Add	10.81		
40 05 23 23-0150	EA	3/4" x 3/4" Male Connector, Stainless Steel Type 316	119.89		19.43
		For Work In Restricted Working Space, Add	11.68		
40 05 23 23-0151	EA	7/8" x 7/8" Male Connector, Stainless Steel Type 316	189.14		21.60
		For Work In Restricted Working Space, Add	12.93		
40 05 23 23-0152	EA	1" x 1" Male Connector, Stainless Steel Type 316	194.67		25.70
		For Work In Restricted Working Space, Add	15.41		
40 05 23 23-0153 Type 316 Valves (40 05 23 23-0011)					
40 05 23 23-0154 Gate Valves (40 05 23 23-0153)					
40 05 23 23-0155	EA	1/4" Gate Valve, Stainless Steel Type 316	296.21		19.43
		For Work In Restricted Working Space, Add	10.54		
40 05 23 23-0156	EA	3/8" Gate Valve, Stainless Steel Type 316	507.76		22.81
		For Work In Restricted Working Space, Add	11.10		
40 05 23 23-0157	EA	1/2" Gate Valve, Stainless Steel Type 316	522.12		25.70
		For Work In Restricted Working Space, Add	15.41		
40 05 23 23-0158	EA	3/4" Gate Valve, Stainless Steel Type 316	578.04		29.44
		For Work In Restricted Working Space, Add	17.66		
40 05 23 23-0159	EA	1" Gate Valve, Stainless Steel Type 316	521.37		38.97
		For Work In Restricted Working Space, Add	23.35		
40 05 23 23-0160	EA	1-1/4" Gate Valve, Stainless Steel Type 316	718.28		40.42
		For Work In Restricted Working Space, Add	24.25		
40 05 23 23-0161	EA	1-1/2" Gate Valve, Stainless Steel Type 316	1,157.29		44.04
		For Work In Restricted Working Space, Add	26.42		
40 05 23 23-0162	EA	2" Gate Valve, Stainless Steel Type 316	1,375.21		60.33
		For Work In Restricted Working Space, Add	36.20		
40 05 23 23-0163	EA	2-1/2" Gate Valve, Stainless Steel Type 316	2,025.70		193.17
		For Work In Restricted Working Space, Add	115.87		
40 05 23 23-0164 Globe Valves (40 05 23 23-0153)					
40 05 23 23-0165	EA	1/4" Globe Valve, Stainless Steel Type 316	300.49		19.43
		For Work In Restricted Working Space, Add	10.54		
40 05 23 23-0166	EA	3/8" Globe Valve, Stainless Steel Type 316	193.18		22.81
		For Work In Restricted Working Space, Add	11.10		
40 05 23 23-0167	EA	1/2" Globe Valve, Stainless Steel Type 316	352.92		25.70
		For Work In Restricted Working Space, Add	15.41		
40 05 23 23-0168	EA	3/4" Globe Valve, Stainless Steel Type 316	392.20		29.44
		For Work In Restricted Working Space, Add	17.66		



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Stainless Steel Process Pipe and Tubing			40 05 23

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0169	EA		1" Globe Valve, Stainless Steel Type 316	575.22	38.97
			For Work In Restricted Working Space, Add	23.35	
40 05 23 23-0170	EA		1-1/4" Globe Valve, Stainless Steel Type 316	719.74	40.18
			For Work In Restricted Working Space, Add	24.07	
40 05 23 23-0171	EA		1-1/2" Globe Valve, Stainless Steel Type 316	1,200.06	44.04
			For Work In Restricted Working Space, Add	26.42	
40 05 23 23-0172	EA		2" Globe Valve, Stainless Steel Type 316	1,417.98	60.33
			For Work In Restricted Working Space, Add	36.20	
40 05 23 23-0173	EA		2-1/2" Globe Valve, Stainless Steel Type 316	1,754.83	193.17
			For Work In Restricted Working Space, Add	115.87	
40 05 23 23-0174 Check Valves (40 05 23 23-0153)					
40 05 23 23-0175	EA		1/4" Check Valve, Stainless Steel Type 316	426.19	19.43
			For Work In Restricted Working Space, Add	10.54	
40 05 23 23-0176	EA		3/8" Check Valve, Stainless Steel Type 316	428.05	22.81
			For Work In Restricted Working Space, Add	11.10	
40 05 23 23-0177	EA		1/2" Check Valve, Stainless Steel Type 316	269.95	25.70
			For Work In Restricted Working Space, Add	15.41	
40 05 23 23-0178	EA		3/4" Check Valve, Stainless Steel Type 316	280.62	29.44
			For Work In Restricted Working Space, Add	17.66	
40 05 23 23-0179	EA		1" Check Valve, Stainless Steel Type 316	305.94	38.97
			For Work In Restricted Working Space, Add	23.35	
40 05 23 23-0180	EA		1-1/4" Check Valve, Stainless Steel Type 316	425.56	40.42
			For Work In Restricted Working Space, Add	24.25	
40 05 23 23-0181	EA		1-1/2" Check Valve, Stainless Steel Type 316	957.70	44.04
			For Work In Restricted Working Space, Add	26.42	
40 05 23 23-0182	EA		2" Check Valve, Stainless Steel Type 316	1,161.37	60.33
			For Work In Restricted Working Space, Add	36.20	
40 05 23 23-0183	EA		2-1/2" Check Valve, Stainless Steel Type 316	2,287.06	193.17
			For Work In Restricted Working Space, Add	115.87	
40 05 23 23-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined (40 05 23 23-0153)					
40 05 23 23-0185	EA		1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	456.63	25.70
			For Work In Restricted Working Space, Add	15.41	
40 05 23 23-0186	EA		3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	533.53	29.44
			For Work In Restricted Working Space, Add	17.66	
40 05 23 23-0187	EA		1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	680.20	38.97
			For Work In Restricted Working Space, Add	23.35	
40 05 23 23-0188	EA		1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	1,087.38	44.04
			For Work In Restricted Working Space, Add	26.42	
40 05 23 23-0189	EA		2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	1,519.70	60.33
			For Work In Restricted Working Space, Add	36.20	
40 05 23 23-0190 Diaphragm Valves, Teflon Lined (40 05 23 23-0153)					
40 05 23 23-0191	EA		1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	606.52	25.70
			For Work In Restricted Working Space, Add	15.41	
40 05 23 23-0192	EA		3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	697.31	29.44
			For Work In Restricted Working Space, Add	17.66	
40 05 23 23-0193	EA		1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	843.98	38.97
			For Work In Restricted Working Space, Add	23.35	
40 05 23 23-0194	EA		1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	1,317.77	44.04
			For Work In Restricted Working Space, Add	26.42	
40 05 23 23-0195	EA		2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	1,794.50	60.33
			For Work In Restricted Working Space, Add	36.20	
40 05 23 23-0196 Strainers (40 05 23 23-0153)					
40 05 23 23-0197	EA		1/2" Strainer, Stainless Steel Type 316	607.97	25.70
			For Work In Restricted Working Space, Add	15.41	
40 05 23 23-0198	EA		3/4" Strainer, Stainless Steel Type 316	727.82	29.57
			For Work In Restricted Working Space, Add	17.74	
40 05 23 23-0199	EA		1" Strainer, Stainless Steel Type 316	952.18	39.21
			For Work In Restricted Working Space, Add	23.53	
40 05 23 23-0200	EA		1-1/4" Strainer, Stainless Steel Type 316	1,184.01	40.42
			For Work In Restricted Working Space, Add	24.26	
40 05 23 23-0201	EA		1-1/2" Strainer, Stainless Steel Type 316	1,487.48	44.04
			For Work In Restricted Working Space, Add	26.43	
40 05 23 23-0202	EA		2" Strainer, Stainless Steel Type 316	2,145.78	60.33
			For Work In Restricted Working Space, Add	36.20	
40 05 23 23-0203	EA		2-1/2" Strainer, Stainless Steel Type 316	2,949.44	80.24
			For Work In Restricted Working Space, Add	48.15	
40 05 23 23-0204	EA		3" Strainer, Stainless Steel Type 316	4,294.42	120.66
			For Work In Restricted Working Space, Add	72.40	
40 05 23 23-0205	EA		4" Strainer, Stainless Steel Type 316	5,489.08	193.05
			For Work In Restricted Working Space, Add	115.82	
40 05 23 23-0206 Plug Valves (40 05 23 23-0153)					

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0207 EA 1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	648.20 15.47	25.70
40 05 23 23-0208 EA 3/4" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	708.76 17.66	29.44
40 05 23 23-0209 EA 1" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	798.48 23.35	38.97
40 05 23 23-0210 EA 1-1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,116.22 26.42	44.04
40 05 23 23-0211 EA 2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,451.39 36.20	60.33
40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place (40 05 23 23-0011)		
Note: For use when connecting pipe to an existing in-place system.		
40 05 23 23-0213 EA Cut And Prepare 1/2" Stainless Steel Pipe.....	24.12	
40 05 23 23-0214 EA Cut And Prepare 3/4" Stainless Steel Pipe.....	26.05	
40 05 23 23-0215 EA Cut And Prepare 1" Stainless Steel Pipe.....	29.31	
40 05 23 23-0216 EA Cut And Prepare 1-1/4" Stainless Steel Pipe.....	30.75	
40 05 23 23-0217 EA Cut And Prepare 1-1/2" Stainless Steel Pipe.....	32.56	
40 05 23 23-0218 EA Cut And Prepare 2" Stainless Steel Pipe.....	34.97	
40 05 23 23-0219 EA Cut And Prepare 2-1/2" Stainless Steel Pipe.....	37.40	
40 05 23 23-0220 EA Cut And Prepare 3" Stainless Steel Pipe.....	41.01	
40 05 23 23-0221 EA Cut And Prepare 4" Stainless Steel Pipe.....	44.62	
40 05 23 23-0222 EA Cut And Prepare 6" Stainless Steel Pipe.....	48.25	
40 05 23 23-0223 EA Cut And Prepare 8" Stainless Steel Pipe.....	51.86	
40 05 23 23-0224 EA Cut And Prepare 10" Stainless Steel Pipe.....	56.69	
40 05 23 23-0225 EA Cut And Prepare 12" Stainless Steel Pipe.....	61.51	
40 05 23 23-0226 EA Cut And Prepare 14" Stainless Steel Pipe.....	66.34	
40 05 23 23-0227 EA Cut And Prepare 16" Stainless Steel Pipe.....	71.16	
40 05 23 23-0228 EA Cut And Prepare 18" Stainless Steel Pipe.....	74.78	
40 05 23 23-0229 EA Cut And Prepare 20" Stainless Steel Pipe.....	78.39	
40 05 23 23-0230 EA Cut And Prepare 24" Stainless Steel Pipe.....	83.23	
40 05 23 23-0231 Stainless Steel Pipe And Fittings (40 05 23 23)		
40 05 23 23-0232 Type 304, Schedule 40 Stainless Steel Pipe And 150 Lb. Threaded Fittings		
(40 05 23 23-0231)		
40 05 23 23-0233 Type 304, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0232)		
40 05 23 23-0234 LF 1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	16.14 3.11	5.19
40 05 23 23-0235 LF 3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	19.91 3.89	6.52
40 05 23 23-0236 LF 1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	24.39 4.67	7.84
40 05 23 23-0237 LF 1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	29.17 5.45	9.05
40 05 23 23-0238 LF 1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	33.65 6.19	10.25
40 05 23 23-0239 LF 2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	42.90 7.79	13.03
40 05 23 23-0240 LF 2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	57.11 9.28	15.45
40 05 23 23-0241 LF 3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	71.80 11.68	19.43
40 05 23 23-0242 LF 4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	96.86 15.41	25.70
40 05 23 23-0243 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0232)		
40 05 23 23-0244 EA 1/2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	43.09 11.68	19.43
40 05 23 23-0245 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	57.30 15.41	25.70
40 05 23 23-0246 EA 1", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	73.90 19.57	32.58
40 05 23 23-0247 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	104.20 26.81	44.64
40 05 23 23-0248 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	124.65 31.48	52.48
40 05 23 23-0249 EA 2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	152.06 38.10	63.47
40 05 23 23-0250 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	258.14 60.33	100.51
40 05 23 23-0251 EA 3", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	332.14 77.84	129.71
40 05 23 23-0252 EA 4", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	463.56 96.53	160.84
40 05 23 23-0253 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0232)		



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Stainless Steel Process Pipe and Tubing			40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0254 EA 1/2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	44.05 11.68	19.43
40 05 23 23-0255 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	58.85 15.41	25.70
40 05 23 23-0256 EA 1", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	74.38 19.57	32.58
40 05 23 23-0257 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	104.01 26.81	44.64
40 05 23 23-0258 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	122.36 31.48	52.48
40 05 23 23-0259 EA 2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	151.52 38.10	63.47
40 05 23 23-0260 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	268.53 60.33	100.51
40 05 23 23-0261 EA 3", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	352.41 77.84	129.71
40 05 23 23-0262 EA 4", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	487.16 96.53	160.84
40 05 23 23-0263 150 Lb., Type 304 Stainless Steel Threaded Tees (40 05 23 23-0232)		
40 05 23 23-0264 EA 1/2", 150 Lb., Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	64.52 17.66	29.44
40 05 23 23-0265 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	86.81 23.35	38.97
40 05 23 23-0266 EA 1", 150 Lb., Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	107.96 28.96	48.27
40 05 23 23-0267 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	156.79 40.22	67.09
40 05 23 23-0268 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	179.08 45.25	75.41
40 05 23 23-0269 EA 2", 150 Lb., Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	237.39 60.33	100.51
40 05 23 23-0270 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	368.56 87.23	145.39
40 05 23 23-0271 EA 3", 150 Lb., Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	501.36 116.77	194.62
40 05 23 23-0272 EA 4", 150 Lb., Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	685.17 144.80	241.32
40 05 23 23-0273 150 Lb., Type 304 Stainless Steel Threaded Reducers (40 05 23 23-0232)		
40 05 23 23-0274 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	56.58 15.41	25.70
40 05 23 23-0275 EA 1", 150 Lb., Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	72.38 19.57	32.58
40 05 23 23-0276 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	99.85 26.81	44.64
40 05 23 23-0277 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	119.98 31.48	52.48
40 05 23 23-0278 EA 2", 150 Lb., Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	152.16 38.10	63.47
40 05 23 23-0279 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	255.07 60.33	100.51
40 05 23 23-0280 EA 3", 150 Lb., Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	336.33 77.84	129.71
40 05 23 23-0281 EA 4", 150 Lb., Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	449.06 96.53	160.84
40 05 23 23-0282 150 Lb., Type 304 Stainless Steel Threaded Caps (40 05 23 23-0232)		
40 05 23 23-0283 EA 1/2", 150 Lb., Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	22.25 5.84	9.78
40 05 23 23-0284 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	29.42 7.79	13.03
40 05 23 23-0285 EA 1", 150 Lb., Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	37.38 9.65	16.05
40 05 23 23-0286 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	54.97 13.66	22.81
40 05 23 23-0287 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	63.71 15.41	25.70
40 05 23 23-0288 EA 2", 150 Lb., Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	80.98 19.57	32.58
40 05 23 23-0289 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	124.97 28.96	48.27
40 05 23 23-0290 EA 3", 150 Lb., Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	166.32 38.10	63.47
40 05 23 23-0291 EA 4", 150 Lb., Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	227.40 48.26	80.48
40 05 23 23-0292 150 Lb., Type 304 Stainless Steel Threaded Unions (40 05 23 23-0232)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0293	EA	1/2", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	70.56 17.66	29.44
40 05 23 23-0294	EA	3/4", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	92.66 23.35	38.97
40 05 23 23-0295	EA	1", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	118.91 28.96	48.27
40 05 23 23-0296	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	172.90 40.22	67.09
40 05 23 23-0297	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	194.70 45.25	75.41
40 05 23 23-0298	EA	2", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	253.65 60.33	100.51
40 05 23 23-0299	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	443.98 90.50	150.83
40 05 23 23-0300	EA	3", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	568.48 116.78	194.62
40 05 23 23-0301	EA	4", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	612.74 96.54	160.90
40 05 23 23-0302 150 Lb., Type 304 Stainless Steel Threaded Couplings (40 05 23 23-0232)				
40 05 23 23-0303	EA	1/2", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	42.69 11.68	19.43
40 05 23 23-0304	EA	3/4", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	56.77 15.41	25.70
40 05 23 23-0305	EA	1", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	73.47 19.57	32.58
40 05 23 23-0306	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	102.49 26.81	44.64
40 05 23 23-0307	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	120.49 31.48	52.48
40 05 23 23-0308	EA	2", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	148.96 38.10	63.47
40 05 23 23-0309	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	249.27 60.33	100.51
40 05 23 23-0310	EA	3", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	321.75 77.84	129.71
40 05 23 23-0311	EA	4", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	418.53 96.53	160.84
40 05 23 23-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 Lb. Threaded Fittings (40 05 23 23-0231)				
40 05 23 23-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0312)				
40 05 23 23-0314	LF	1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	19.19 3.11	5.19
40 05 23 23-0315	LF	3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	22.92 3.89	6.52
40 05 23 23-0316	LF	1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	28.72 4.67	7.84
40 05 23 23-0317	LF	1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	34.83 5.45	9.05
40 05 23 23-0318	LF	1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	40.36 6.19	10.25
40 05 23 23-0319	LF	2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	51.88 7.79	13.03
40 05 23 23-0320	LF	2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	69.66 9.28	15.45
40 05 23 23-0321	LF	3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	90.50 11.68	19.43
40 05 23 23-0322	LF	4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	121.21 15.41	25.70
40 05 23 23-0323 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0312)				
40 05 23 23-0324	EA	1/2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	44.34 11.68	19.43
40 05 23 23-0325	EA	3/4", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	59.17 15.41	25.70
40 05 23 23-0326	EA	1", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	75.05 19.57	32.58
40 05 23 23-0327	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	106.26 26.81	44.64
40 05 23 23-0328	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	127.40 31.48	52.48
40 05 23 23-0329	EA	2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	155.45 38.10	63.47
40 05 23 23-0330	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	263.56 60.33	100.51
40 05 23 23-0331	EA	3", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	345.41 77.84	129.71
40 05 23 23-0332	EA	4", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	479.69 96.53	160.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0333 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0312)		
40 05 23 23-0334 EA 1/2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	45.36	19.43
For Work In Restricted Working Space, Add	11.68	
40 05 23 23-0335 EA 3/4", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	59.81	25.70
For Work In Restricted Working Space, Add	15.41	
40 05 23 23-0336 EA 1", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	75.79	32.58
For Work In Restricted Working Space, Add	19.57	
40 05 23 23-0337 EA 1-1/4", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	106.04	44.64
For Work In Restricted Working Space, Add	26.81	
40 05 23 23-0338 EA 1-1/2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	124.73	52.48
For Work In Restricted Working Space, Add	31.48	
40 05 23 23-0339 EA 2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	154.70	63.47
For Work In Restricted Working Space, Add	38.10	
40 05 23 23-0340 EA 2-1/2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	273.63	100.51
For Work In Restricted Working Space, Add	60.33	
40 05 23 23-0341 EA 3", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	364.16	129.71
For Work In Restricted Working Space, Add	77.84	
40 05 23 23-0342 EA 4", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	518.86	160.84
For Work In Restricted Working Space, Add	96.53	
40 05 23 23-0343 150 Lb., Type 316 Stainless Steel Threaded Tees (40 05 23 23-0312)		
40 05 23 23-0344 EA 1/2", 150 Lb., Type 316 Stainless Steel Threaded Tee	65.86	29.44
For Work In Restricted Working Space, Add	17.66	
40 05 23 23-0345 EA 3/4", 150 Lb., Type 316 Stainless Steel Threaded Tee	88.17	38.97
For Work In Restricted Working Space, Add	23.35	
40 05 23 23-0346 EA 1", 150 Lb., Type 316 Stainless Steel Threaded Tee	109.48	48.27
For Work In Restricted Working Space, Add	28.96	
40 05 23 23-0347 EA 1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Tee	159.89	67.09
For Work In Restricted Working Space, Add	40.22	
40 05 23 23-0348 EA 1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Tee	182.15	75.41
For Work In Restricted Working Space, Add	45.25	
40 05 23 23-0349 EA 2", 150 Lb., Type 316 Stainless Steel Threaded Tee	241.42	100.51
For Work In Restricted Working Space, Add	60.33	
40 05 23 23-0350 EA 2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Tee	385.04	145.39
For Work In Restricted Working Space, Add	87.23	
40 05 23 23-0351 EA 3", 150 Lb., Type 316 Stainless Steel Threaded Tee	523.82	194.62
For Work In Restricted Working Space, Add	116.77	
40 05 23 23-0352 EA 4", 150 Lb., Type 316 Stainless Steel Threaded Tee	701.91	241.32
For Work In Restricted Working Space, Add	144.80	
40 05 23 23-0353 150 Lb., Type 316 Stainless Steel Threaded Reducers (40 05 23 23-0312)		
40 05 23 23-0354 EA 3/4", 150 Lb., Type 316 Stainless Steel Threaded Reducer	57.73	25.70
For Work In Restricted Working Space, Add	15.41	
40 05 23 23-0355 EA 1", 150 Lb., Type 316 Stainless Steel Threaded Reducer	75.77	32.58
For Work In Restricted Working Space, Add	19.57	
40 05 23 23-0356 EA 1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Reducer	100.49	44.64
For Work In Restricted Working Space, Add	26.81	
40 05 23 23-0357 EA 1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Reducer	123.32	52.48
For Work In Restricted Working Space, Add	31.48	
40 05 23 23-0358 EA 2", 150 Lb., Type 316 Stainless Steel Threaded Reducer	158.01	63.47
For Work In Restricted Working Space, Add	38.10	
40 05 23 23-0359 EA 2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Reducer	268.37	100.51
For Work In Restricted Working Space, Add	60.33	
40 05 23 23-0360 EA 3", 150 Lb., Type 316 Stainless Steel Threaded Reducer	351.02	129.71
For Work In Restricted Working Space, Add	77.84	
40 05 23 23-0361 EA 4", 150 Lb., Type 316 Stainless Steel Threaded Reducer	473.54	160.84
For Work In Restricted Working Space, Add	96.53	
40 05 23 23-0362 150 Lb., Type 316 Stainless Steel Threaded Caps (40 05 23 23-0312)		
40 05 23 23-0363 EA 1/2", 150 Lb., Type 316 Stainless Steel Threaded Cap	22.99	9.78
For Work In Restricted Working Space, Add	5.84	
40 05 23 23-0364 EA 3/4", 150 Lb., Type 316 Stainless Steel Threaded Cap	29.98	13.03
For Work In Restricted Working Space, Add	7.79	
40 05 23 23-0365 EA 1", 150 Lb., Type 316 Stainless Steel Threaded Cap	38.37	16.05
For Work In Restricted Working Space, Add	9.65	
40 05 23 23-0366 EA 1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Cap	57.72	22.81
For Work In Restricted Working Space, Add	13.66	
40 05 23 23-0367 EA 1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Cap	66.97	25.70
For Work In Restricted Working Space, Add	15.41	
40 05 23 23-0368 EA 2", 150 Lb., Type 316 Stainless Steel Threaded Cap	85.22	32.58
For Work In Restricted Working Space, Add	19.57	
40 05 23 23-0369 EA 2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Cap	131.99	48.27
For Work In Restricted Working Space, Add	28.96	
40 05 23 23-0370 EA 3", 150 Lb., Type 316 Stainless Steel Threaded Cap	173.45	63.47
For Work In Restricted Working Space, Add	38.10	
40 05 23 23-0371 EA 4", 150 Lb., Type 316 Stainless Steel Threaded Cap	241.55	80.48
For Work In Restricted Working Space, Add	48.26	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 23 23-0372	150 Lb., Type 316 Stainless Steel Threaded Unions (40 05 23 23-0312)				
40 05 23 23-0373	EA 1/2", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	72.16 17.66		29.44	
40 05 23 23-0374	EA 3/4", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	98.72 23.35		38.97	
40 05 23 23-0375	EA 1", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	121.98 28.96		48.27	
40 05 23 23-0376	EA 1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	178.10 40.22		67.09	
40 05 23 23-0377	EA 1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	200.79 45.25		75.41	
40 05 23 23-0378	EA 2", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	260.70 60.33		100.51	
40 05 23 23-0379	EA 2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	454.80 90.50		150.83	
40 05 23 23-0380	EA 3", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	602.18 116.78		194.62	
40 05 23 23-0381	EA 4", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	684.57 96.54		160.90	
40 05 23 23-0382	150 Lb., Type 316 Stainless Steel Threaded Couplings (40 05 23 23-0312)				
40 05 23 23-0383	EA 1/2", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	45.22 11.68		19.43	
40 05 23 23-0384	EA 3/4", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	57.95 15.41		25.70	
40 05 23 23-0385	EA 1", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	74.59 19.57		32.58	
40 05 23 23-0386	EA 1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	104.28 26.81		44.64	
40 05 23 23-0387	EA 1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	122.62 31.48		52.48	
40 05 23 23-0388	EA 2", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	151.92 38.10		63.47	
40 05 23 23-0389	EA 2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	259.63 60.33		100.51	
40 05 23 23-0390	EA 3", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	335.10 77.84		129.71	
40 05 23 23-0391	EA 4", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	438.56 96.53		160.84	
40 05 23 23-0392	Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)				
40 05 23 23-0393	Type 304, Schedule 10 Stainless Steel Pipe (40 05 23 23-0392)				
40 05 23 23-0394	LF 1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	17.63 3.05		5.07	
40 05 23 23-0395	LF 3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	21.04 3.72		6.20	
40 05 23 23-0396	LF 1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	27.43 4.36		7.33	
40 05 23 23-0397	LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	33.59 5.45		9.12	
40 05 23 23-0398	LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	37.44 6.15		10.26	
40 05 23 23-0399	LF 2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	46.31 7.61		12.73	
40 05 23 23-0400	LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	55.04 8.70		14.54	
40 05 23 23-0401	LF 3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	64.57 9.80		16.34	
40 05 23 23-0402	LF 4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	80.50 11.60		19.38	
40 05 23 23-0403	LF 6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	116.09 15.23		25.46	
40 05 23 23-0404	LF 8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	199.34 29.79		46.37	
40 05 23 23-0405	LF 10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	250.12 32.77		50.98	
40 05 23 23-0406	LF 12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	296.95 36.41		56.68	
40 05 23 23-0407	LF 14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	362.08 40.97		63.72	
40 05 23 23-0408	LF 16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	400.13 46.82		72.83	
40 05 23 23-0409	LF 18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	450.17 54.62		84.96	
40 05 23 23-0410	LF 20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	616.22 65.54		101.96	
40 05 23 23-0411	LF 24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	800.62 81.93		127.44	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23	23-0412	Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow ^(40 05 23 23-0392)		
40 05 23	23-0413	EA 1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	134.93 38.53	57.81
40 05 23	23-0414	EA 3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	142.83 40.90	61.36
40 05 23	23-0415	EA 1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	157.49 44.96	67.43
40 05 23	23-0416	EA 1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	171.92 48.99	73.49
40 05 23	23-0417	EA 1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	189.90 54.11	81.16
40 05 23	23-0418	EA 2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	212.48 60.19	90.29
40 05 23	23-0419	EA 2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	277.04 77.04	115.56
40 05 23	23-0420	EA 3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	325.03 90.29	135.43
40 05 23	23-0421	EA 4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	399.58 108.07	162.10
40 05 23	23-0422	EA 6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	555.42 135.00	202.50
40 05 23	23-0423	EA 8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	973.70 234.08	351.13
40 05 23	23-0424	EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	1,455.30 312.11	468.16
40 05 23	23-0425	EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	2,199.84 468.16	702.24
40 05 23	23-0426	EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	2,605.30 546.19	819.28
40 05 23	23-0427	EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	3,070.45 623.03	934.55
40 05 23	23-0428	EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	3,884.56 780.27	1,170.41
40 05 23	23-0429	EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	5,413.25 1,092.38	1,638.57
40 05 23	23-0430	EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	7,775.20 1,560.54	2,340.81
40 05 23	23-0431	Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow ^(40 05 23 23-0392)		
40 05 23	23-0432	EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	136.84 38.53	57.81
40 05 23	23-0433	EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	144.74 40.90	61.36
40 05 23	23-0434	EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	159.78 44.96	67.43
40 05 23	23-0435	EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	174.98 48.99	73.49
40 05 23	23-0436	EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	190.28 54.11	81.16
40 05 23	23-0437	EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	212.48 60.19	90.29
40 05 23	23-0438	EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	275.13 77.04	115.56
40 05 23	23-0439	EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	321.59 90.29	135.43
40 05 23	23-0440	EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	393.08 108.07	162.10
40 05 23	23-0441	EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	521.43 135.00	202.50
40 05 23	23-0442	EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	908.14 234.08	351.13
40 05 23	23-0443	EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,338.58 312.11	468.16
40 05 23	23-0444	EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	2,015.05 468.16	702.24
40 05 23	23-0445	EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	2,378.49 546.19	819.28
40 05 23	23-0446	EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	2,790.52 623.03	934.55
40 05 23	23-0447	EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	3,516.95 780.27	1,170.41
40 05 23	23-0448	EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	4,917.22 1,092.38	1,638.57
40 05 23	23-0449	EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	7,071.55 1,560.54	2,340.81
40 05 23	23-0450	Type 304, Schedule 10 Stainless Steel Butt Weld Tee ^(40 05 23 23-0392)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	184.27 48.98	73.47
40 05 23 23-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	221.42 60.13	90.19
40 05 23 23-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	246.18 67.55	101.34
40 05 23 23-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	280.13 77.04	115.56
40 05 23 23-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	296.65 82.70	124.04
40 05 23 23-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	323.18 90.20	135.29
40 05 23 23-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	423.83 108.07	162.10
40 05 23 23-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	492.70 135.44	203.15
40 05 23 23-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	568.54 152.00	228.00
40 05 23 23-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	840.15 202.67	303.99
40 05 23 23-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,428.49 312.11	468.16
40 05 23 23-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,199.84 468.16	702.24
40 05 23 23-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,838.70 585.20	877.80
40 05 23 23-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,502.02 703.25	1,054.88
40 05 23 23-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,238.51 857.89	1,286.84
40 05 23 23-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,392.88 1,092.38	1,638.57
40 05 23 23-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	7,225.95 1,437.34	2,156.02
40 05 23 23-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	10,814.70 2,184.77	3,277.14
40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0392)		
40 05 23 23-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	173.83 40.92	61.38
40 05 23 23-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	204.57 50.14	75.21
40 05 23 23-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	256.14 56.34	84.51
40 05 23 23-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	261.07 64.23	96.34
40 05 23 23-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	272.46 69.02	103.52
40 05 23 23-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	365.67 75.22	112.82
40 05 23 23-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	429.61 90.16	135.23
40 05 23 23-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	528.37 112.68	169.03
40 05 23 23-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	711.02 128.75	193.13
40 05 23 23-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,395.93 195.07	292.60
40 05 23 23-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,338.20 260.09	390.14
40 05 23 23-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,329.75 390.14	585.20
40 05 23 23-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,042.64 468.70	703.06
40 05 23 23-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,012.06 571.73	857.59
40 05 23 23-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,478.29 728.26	1,092.38
40 05 23 23-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	9,260.22 958.23	1,437.34
40 05 23 23-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	14,512.14 1,455.22	2,182.82
40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0392)		
40 05 23 23-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	137.02 37.21	55.82
40 05 23 23-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	151.22 40.55	60.82
40 05 23 23-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	167.63 44.96	67.43
40 05 23 23-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	177.44 48.99	73.49



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23	23-0492	EA	2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	192.95	81.16
			For Work In Restricted Working Space, Add	54.11	
40 05 23	23-0493	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	262.80	101.42
			For Work In Restricted Working Space, Add	67.61	
40 05 23	23-0494	EA	3", Type 304, Schedule 10 Stainless Steel Concentric Reducer	296.67	115.46
			For Work In Restricted Working Space, Add	76.97	
40 05 23	23-0495	EA	4", Type 304, Schedule 10 Stainless Steel Concentric Reducer	346.55	135.29
			For Work In Restricted Working Space, Add	90.20	
40 05 23	23-0496	EA	6", Type 304, Schedule 10 Stainless Steel Concentric Reducer	448.44	172.24
			For Work In Restricted Working Space, Add	114.83	
40 05 23	23-0497	EA	8", Type 304, Schedule 10 Stainless Steel Concentric Reducer	729.72	280.90
			For Work In Restricted Working Space, Add	187.27	
40 05 23	23-0498	EA	10", Type 304, Schedule 10 Stainless Steel Concentric Reducer	930.81	351.13
			For Work In Restricted Working Space, Add	234.08	
40 05 23	23-0499	EA	12", Type 304, Schedule 10 Stainless Steel Concentric Reducer	1,253.60	468.16
			For Work In Restricted Working Space, Add	312.11	
40 05 23	23-0500	EA	14", Type 304, Schedule 10 Stainless Steel Concentric Reducer	1,808.98	614.47
			For Work In Restricted Working Space, Add	409.64	
40 05 23	23-0501	EA	16", Type 304, Schedule 10 Stainless Steel Concentric Reducer	2,122.86	700.24
			For Work In Restricted Working Space, Add	466.83	
40 05 23	23-0502	EA	18", Type 304, Schedule 10 Stainless Steel Concentric Reducer	2,606.90	877.80
			For Work In Restricted Working Space, Add	585.20	
40 05 23	23-0503	EA	20", Type 304, Schedule 10 Stainless Steel Concentric Reducer	3,685.00	1,170.41
			For Work In Restricted Working Space, Add	780.27	
40 05 23	23-0504	EA	24", Type 304, Schedule 10 Stainless Steel Concentric Reducer	5,285.77	1,755.61
			For Work In Restricted Working Space, Add	1,170.41	
40 05 23	23-0505	EA	3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	172.92	55.82
			For Work In Restricted Working Space, Add	37.21	
40 05 23	23-0506	EA	1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	177.57	60.82
			For Work In Restricted Working Space, Add	40.55	
40 05 23	23-0507	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	185.68	67.43
			For Work In Restricted Working Space, Add	44.96	
40 05 23	23-0508	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	210.28	73.49
			For Work In Restricted Working Space, Add	48.99	
40 05 23	23-0509	EA	2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	216.63	81.16
			For Work In Restricted Working Space, Add	54.11	
40 05 23	23-0510	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	288.77	101.42
			For Work In Restricted Working Space, Add	67.61	
40 05 23	23-0511	EA	3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	322.26	115.46
			For Work In Restricted Working Space, Add	76.97	
40 05 23	23-0512	EA	4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	366.34	135.29
			For Work In Restricted Working Space, Add	90.20	
40 05 23	23-0513	EA	6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	519.85	172.24
			For Work In Restricted Working Space, Add	114.83	
40 05 23	23-0514	EA	8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	882.82	280.90
			For Work In Restricted Working Space, Add	187.27	
40 05 23	23-0515	EA	10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,229.43	351.13
			For Work In Restricted Working Space, Add	234.08	
40 05 23	23-0516	EA	12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,529.53	468.16
			For Work In Restricted Working Space, Add	312.11	
40 05 23	23-0517	EA	14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	2,445.51	614.47
			For Work In Restricted Working Space, Add	409.64	
40 05 23	23-0518	EA	16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	2,852.23	700.24
			For Work In Restricted Working Space, Add	466.83	
40 05 23	23-0519	EA	18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	3,497.06	877.80
			For Work In Restricted Working Space, Add	585.20	
40 05 23	23-0520	EA	20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	5,111.45	1,170.41
			For Work In Restricted Working Space, Add	780.27	
40 05 23	23-0521	EA	24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	7,176.26	1,755.61
			For Work In Restricted Working Space, Add	1,170.41	
40 05 23	23-0522		Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0392)		
40 05 23	23-0523	EA	1/2", Type 304, Schedule 10 Stainless Steel Cap	76.07	28.91
			For Work In Restricted Working Space, Add	19.27	
40 05 23	23-0524	EA	3/4", Type 304, Schedule 10 Stainless Steel Cap	84.21	30.67
			For Work In Restricted Working Space, Add	20.45	
40 05 23	23-0525	EA	1", Type 304, Schedule 10 Stainless Steel Cap	92.50	33.72
			For Work In Restricted Working Space, Add	22.48	
40 05 23	23-0526	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Cap	102.10	36.74
			For Work In Restricted Working Space, Add	24.50	
40 05 23	23-0527	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Cap	108.89	40.57
			For Work In Restricted Working Space, Add	27.05	
40 05 23	23-0528	EA	2", Type 304, Schedule 10 Stainless Steel Cap	116.75	45.14
			For Work In Restricted Working Space, Add	30.10	
40 05 23	23-0529	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Cap	152.08	57.78
			For Work In Restricted Working Space, Add	38.52	
40 05 23	23-0530	EA	3", Type 304, Schedule 10 Stainless Steel Cap	170.72	67.72
			For Work In Restricted Working Space, Add	45.14	
40 05 23	23-0531	EA	4", Type 304, Schedule 10 Stainless Steel Cap	206.09	81.06
			For Work In Restricted Working Space, Add	54.04	
40 05 23	23-0532	EA	6", Type 304, Schedule 10 Stainless Steel Cap	267.76	101.42
			For Work In Restricted Working Space, Add	67.61	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	466.45 117.04	175.56
40 05 23 23-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	621.00 156.05	234.08
40 05 23 23-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	911.64 234.08	351.12
40 05 23 23-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,071.32 273.09	409.64
40 05 23 23-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,246.05 311.52	467.27
40 05 23 23-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,576.30 390.14	585.20
40 05 23 23-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,171.36 546.19	819.28
40 05 23 23-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	3,218.89 780.27	1,170.40
40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 23-0541)		
40 05 23 23-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	19.47 3.05	5.07
40 05 23 23-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	23.64 3.72	6.20
40 05 23 23-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	28.83 4.36	7.33
40 05 23 23-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	36.04 5.45	9.01
40 05 23 23-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	41.42 6.15	10.15
40 05 23 23-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	52.87 7.61	12.96
40 05 23 23-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	65.05 8.70	14.65
40 05 23 23-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	64.39 9.80	16.34
40 05 23 23-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	102.81 11.60	19.16
40 05 23 23-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	157.95 15.23	25.35
40 05 23 23-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	283.05 29.79	46.12
40 05 23 23-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	354.24 32.77	50.98
40 05 23 23-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	437.83 36.41	56.44
40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0541)		
40 05 23 23-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	136.46 38.53	57.81
40 05 23 23-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	144.36 40.90	61.36
40 05 23 23-0559 EA 1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	158.63 44.96	67.43
40 05 23 23-0560 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	172.75 48.99	73.49
40 05 23 23-0561 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	190.66 54.11	81.16
40 05 23 23-0562 EA 2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	215.15 60.19	90.29
40 05 23 23-0563 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	286.97 77.04	115.56
40 05 23 23-0564 EA 3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	339.54 90.29	135.43
40 05 23 23-0565 EA 4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	424.02 108.07	162.10
40 05 23 23-0566 EA 6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	711.61 135.00	202.50
40 05 23 23-0567 EA 8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,186.54 234.08	351.13
40 05 23 23-0568 EA 10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,887.13 312.11	468.16
40 05 23 23-0569 EA 12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,759.95 468.16	702.24
40 05 23 23-0570 EA 14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,284.79 546.19	819.28
40 05 23 23-0571 EA 16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,943.35 623.03	934.55
40 05 23 23-0572 EA 18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,097.43 780.27	1,170.41



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0573	EA		20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,910.27 1,092.38	1,638.57
40 05 23 23-0574	EA		24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	9,910.95 1,560.54	2,340.81
40 05 23 23-0575			Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0541)		
40 05 23 23-0576	EA		1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	139.13 38.53	57.81
40 05 23 23-0577	EA		3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	147.03 40.90	61.36
40 05 23 23-0578	EA		1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	160.54 44.96	67.43
40 05 23 23-0579	EA		1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	174.70 48.99	73.49
40 05 23 23-0580	EA		1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	192.57 54.11	81.16
40 05 23 23-0581	EA		2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	215.56 60.19	90.29
40 05 23 23-0582	EA		2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	286.97 77.04	115.56
40 05 23 23-0583	EA		3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	328.85 90.29	135.43
40 05 23 23-0584	EA		4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	429.75 108.07	162.10
40 05 23 23-0585	EA		6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	581.38 135.00	202.50
40 05 23 23-0586	EA		8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,050.01 234.08	351.13
40 05 23 23-0587	EA		10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,546.05 312.11	468.16
40 05 23 23-0588	EA		12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,256.77 468.16	702.24
40 05 23 23-0589	EA		14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,548.95 546.19	819.28
40 05 23 23-0590	EA		16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,067.24 623.03	934.55
40 05 23 23-0591	EA		18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,875.17 780.27	1,170.41
40 05 23 23-0592	EA		20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,261.00 1,092.38	1,638.57
40 05 23 23-0593	EA		24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	7,655.28 1,560.54	2,340.81
40 05 23 23-0594			Type 304, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0541)		
40 05 23 23-0595	EA		1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	185.80 48.98	73.47
40 05 23 23-0596	EA		3/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	222.95 60.13	90.19
40 05 23 23-0597	EA		1", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	247.71 67.55	101.34
40 05 23 23-0598	EA		1-1/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	284.02 77.04	115.56
40 05 23 23-0599	EA		1-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	298.18 82.70	124.04
40 05 23 23-0600	EA		2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	325.09 90.20	135.29
40 05 23 23-0601	EA		2-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	428.98 108.07	162.10
40 05 23 23-0602	EA		3", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	500.72 135.44	203.15
40 05 23 23-0603	EA		4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	577.32 152.00	228.00
40 05 23 23-0604	EA		6", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	900.87 202.67	303.99
40 05 23 23-0605	EA		8", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,608.73 312.11	468.16
40 05 23 23-0606	EA		10", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,752.96 468.16	702.24
40 05 23 23-0607	EA		12", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,421.91 585.20	877.80
40 05 23 23-0608	EA		14", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,677.21 703.25	1,054.88
40 05 23 23-0609	EA		16", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,954.21 857.89	1,286.84
40 05 23 23-0610	EA		18", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	7,722.38 1,092.38	1,638.57
40 05 23 23-0611	EA		20", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	9,958.41 1,437.34	2,156.02
40 05 23 23-0612	EA		24", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	15,252.54 2,184.77	3,277.14

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0541)				
40 05 23 23-0614	EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee	178.79	61.38	
	For Work In Restricted Working Space, Add	40.92		
40 05 23 23-0615	EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee	209.53	75.21	
	For Work In Restricted Working Space, Add	50.14		
40 05 23 23-0616	EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee	280.02	84.51	
	For Work In Restricted Working Space, Add	56.34		
40 05 23 23-0617	EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee	268.33	96.34	
	For Work In Restricted Working Space, Add	64.23		
40 05 23 23-0618	EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee	272.46	103.52	
	For Work In Restricted Working Space, Add	69.02		
40 05 23 23-0619	EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee	341.27	112.82	
	For Work In Restricted Working Space, Add	75.22		
40 05 23 23-0620	EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee	375.76	135.23	
	For Work In Restricted Working Space, Add	90.16		
40 05 23 23-0621	EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee	500.11	169.03	
	For Work In Restricted Working Space, Add	112.68		
40 05 23 23-0622	EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee	715.61	193.13	
	For Work In Restricted Working Space, Add	128.75		
40 05 23 23-0623	EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee	1,233.84	292.60	
	For Work In Restricted Working Space, Add	195.07		
40 05 23 23-0624	EA 10", Type 304, Schedule 40 Stainless Steel Reducing Tee	2,388.92	390.14	
	For Work In Restricted Working Space, Add	260.09		
40 05 23 23-0625	EA 12", Type 304, Schedule 40 Stainless Steel Reducing Tee	3,431.21	585.20	
	For Work In Restricted Working Space, Add	390.14		
40 05 23 23-0626	EA 14", Type 304, Schedule 40 Stainless Steel Reducing Tee	3,900.28	703.06	
	For Work In Restricted Working Space, Add	468.70		
40 05 23 23-0627	EA 16", Type 304, Schedule 40 Stainless Steel Reducing Tee	4,833.76	857.59	
	For Work In Restricted Working Space, Add	571.73		
40 05 23 23-0628	EA 18", Type 304, Schedule 40 Stainless Steel Reducing Tee	6,245.78	1,092.38	
	For Work In Restricted Working Space, Add	728.26		
40 05 23 23-0629	EA 20", Type 304, Schedule 40 Stainless Steel Reducing Tee	8,912.03	1,437.34	
	For Work In Restricted Working Space, Add	958.23		
40 05 23 23-0630	EA 24", Type 304, Schedule 40 Stainless Steel Reducing Tee	13,957.59	2,182.82	
	For Work In Restricted Working Space, Add	1,455.22		
40 05 23 23-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0541)				
40 05 23 23-0632	EA 3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	140.84	55.82	
	For Work In Restricted Working Space, Add	37.21		
40 05 23 23-0633	EA 1", Type 304, Schedule 40 Stainless Steel Concentric Reducer	155.04	60.82	
	For Work In Restricted Working Space, Add	40.55		
40 05 23 23-0634	EA 1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	167.90	67.43	
	For Work In Restricted Working Space, Add	44.96		
40 05 23 23-0635	EA 1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	181.26	73.49	
	For Work In Restricted Working Space, Add	48.99		
40 05 23 23-0636	EA 2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	195.24	81.16	
	For Work In Restricted Working Space, Add	54.11		
40 05 23 23-0637	EA 2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	262.80	101.42	
	For Work In Restricted Working Space, Add	67.61		
40 05 23 23-0638	EA 3", Type 304, Schedule 40 Stainless Steel Concentric Reducer	282.92	115.46	
	For Work In Restricted Working Space, Add	76.97		
40 05 23 23-0639	EA 4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	327.00	135.29	
	For Work In Restricted Working Space, Add	90.20		
40 05 23 23-0640	EA 6", Type 304, Schedule 40 Stainless Steel Concentric Reducer	451.49	172.24	
	For Work In Restricted Working Space, Add	114.83		
40 05 23 23-0641	EA 8", Type 304, Schedule 40 Stainless Steel Concentric Reducer	794.57	280.90	
	For Work In Restricted Working Space, Add	187.27		
40 05 23 23-0642	EA 10", Type 304, Schedule 40 Stainless Steel Concentric Reducer	1,042.18	351.13	
	For Work In Restricted Working Space, Add	234.08		
40 05 23 23-0643	EA 12", Type 304, Schedule 40 Stainless Steel Concentric Reducer	1,352.99	468.16	
	For Work In Restricted Working Space, Add	312.11		
40 05 23 23-0644	EA 14", Type 304, Schedule 40 Stainless Steel Concentric Reducer	2,032.04	614.47	
	For Work In Restricted Working Space, Add	409.64		
40 05 23 23-0645	EA 16", Type 304, Schedule 40 Stainless Steel Concentric Reducer	2,403.27	700.24	
	For Work In Restricted Working Space, Add	466.83		
40 05 23 23-0646	EA 18", Type 304, Schedule 40 Stainless Steel Concentric Reducer	3,174.75	877.80	
	For Work In Restricted Working Space, Add	585.20		
40 05 23 23-0647	EA 20", Type 304, Schedule 40 Stainless Steel Concentric Reducer	4,354.80	1,170.41	
	For Work In Restricted Working Space, Add	780.27		
40 05 23 23-0648	EA 24", Type 304, Schedule 40 Stainless Steel Concentric Reducer	5,979.42	1,755.61	
	For Work In Restricted Working Space, Add	1,170.41		
40 05 23 23-0649	EA 3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	174.48	55.82	
	For Work In Restricted Working Space, Add	37.21		
40 05 23 23-0650	EA 1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	185.59	60.82	
	For Work In Restricted Working Space, Add	40.55		
40 05 23 23-0651	EA 1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	213.18	67.43	
	For Work In Restricted Working Space, Add	44.96		
40 05 23 23-0652	EA 1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	224.41	73.49	
	For Work In Restricted Working Space, Add	48.99		
40 05 23 23-0653	EA 2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	238.40	81.16	
	For Work In Restricted Working Space, Add	54.11		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0654	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	288.77 67.61	101.42
40 05 23 23-0655	EA	3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	369.61 76.97	115.46
40 05 23 23-0656	EA	4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	398.42 90.20	135.29
40 05 23 23-0657	EA	6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	551.55 114.83	172.24
40 05 23 23-0658	EA	8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	886.13 187.27	280.90
40 05 23 23-0659	EA	10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,226.55 234.08	351.13
40 05 23 23-0660	EA	12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,679.66 312.11	468.16
40 05 23 23-0661	EA	14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,832.74 409.64	614.47
40 05 23 23-0662	EA	16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,211.39 466.83	700.24
40 05 23 23-0663	EA	18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,220.21 585.20	877.80
40 05 23 23-0664	EA	20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,468.33 780.27	1,170.41
40 05 23 23-0665	EA	24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	8,758.09 1,170.41	1,755.61
40 05 23 23-0666		Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0541)		
40 05 23 23-0667	EA	1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	77.21 19.27	28.91
40 05 23 23-0668	EA	3/4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	83.06 20.45	30.67
40 05 23 23-0669	EA	1", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	93.64 22.48	33.72
40 05 23 23-0670	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	107.20 24.50	36.74
40 05 23 23-0671	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	113.86 27.05	40.57
40 05 23 23-0672	EA	2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	116.37 30.10	45.14
40 05 23 23-0673	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	149.51 38.52	57.78
40 05 23 23-0674	EA	3", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	172.25 45.14	67.72
40 05 23 23-0675	EA	4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	210.67 54.04	81.06
40 05 23 23-0676	EA	6", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	296.02 67.61	101.42
40 05 23 23-0677	EA	8", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	511.82 117.04	175.56
40 05 23 23-0678	EA	10", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	685.16 156.05	234.08
40 05 23 23-0679	EA	12", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,033.92 234.08	351.12
40 05 23 23-0680	EA	14", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,183.33 273.09	409.64
40 05 23 23-0681	EA	16", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,400.14 311.52	467.27
40 05 23 23-0682	EA	18", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,758.92 390.14	585.20
40 05 23 23-0683	EA	20", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,414.90 546.19	819.28
40 05 23 23-0684	EA	24", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	3,626.08 780.27	1,170.40
40 05 23 23-0685		Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0686		Type 316, Schedule 10 Stainless Steel Pipe (40 05 23 23-0685)		
40 05 23 23-0687	LF	1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	19.96 3.05	5.07
40 05 23 23-0688	LF	3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	23.74 3.72	6.20
40 05 23 23-0689	LF	1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	31.45 4.36	7.33
40 05 23 23-0690	LF	1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	38.41 5.45	9.12
40 05 23 23-0691	LF	1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	42.73 6.15	10.26
40 05 23 23-0692	LF	2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	52.84 7.61	12.73
40 05 23 23-0693	LF	2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	63.17 8.70	14.54
40 05 23 23-0694	LF	3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	74.53 9.80	16.34

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0695 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	93.58 11.60	19.38
40 05 23 23-0696 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	136.50 15.23	25.46
40 05 23 23-0697 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	230.58 29.79	46.37
40 05 23 23-0698 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	294.11 32.77	50.98
40 05 23 23-0699 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	351.79 36.41	56.68
40 05 23 23-0700 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	432.51 40.97	63.72
40 05 23 23-0701 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	476.36 46.82	72.83
40 05 23 23-0702 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	533.89 54.62	84.96
40 05 23 23-0703 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	740.44 65.54	101.96
40 05 23 23-0704 LF 24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	965.36 81.93	127.44
40 05 23 23-0705 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0695)		
40 05 23 23-0706 EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	136.84 38.53	57.81
40 05 23 23-0707 EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	144.74 40.90	61.36
40 05 23 23-0708 EA 1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	159.78 44.96	67.43
40 05 23 23-0709 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	175.25 48.99	73.49
40 05 23 23-0710 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	192.19 54.11	81.16
40 05 23 23-0711 EA 2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	215.15 60.19	90.29
40 05 23 23-0712 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	282.01 77.04	115.56
40 05 23 23-0713 EA 3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	332.29 90.29	135.43
40 05 23 23-0714 EA 4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	410.65 108.07	162.10
40 05 23 23-0715 EA 6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	584.44 135.00	202.50
40 05 23 23-0716 EA 8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,027.74 234.08	351.13
40 05 23 23-0717 EA 10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,580.25 312.11	468.16
40 05 23 23-0718 EA 12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,370.20 468.16	702.24
40 05 23 23-0719 EA 14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,765.60 546.19	819.28
40 05 23 23-0720 EA 16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,324.00 623.03	934.55
40 05 23 23-0721 EA 18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	4,188.60 780.27	1,170.41
40 05 23 23-0722 EA 20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,847.58 1,092.38	1,638.57
40 05 23 23-0723 EA 24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	8,420.58 1,560.54	2,340.81
40 05 23 23-0724 Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0695)		
40 05 23 23-0725 EA 1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	139.13 38.53	57.81
40 05 23 23-0726 EA 3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	147.03 40.90	61.36
40 05 23 23-0727 EA 1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	162.07 44.96	67.43
40 05 23 23-0728 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	178.31 48.99	73.49
40 05 23 23-0729 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	192.19 54.11	81.16
40 05 23 23-0730 EA 2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	215.15 60.19	90.29
40 05 23 23-0731 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	279.71 77.04	115.56
40 05 23 23-0732 EA 3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	328.85 90.29	135.43
40 05 23 23-0733 EA 4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	402.63 108.07	162.10
40 05 23 23-0734 EA 6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	537.08 135.00	202.50



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Stainless Steel Process Pipe and Tubing			40 05 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0735 EA 8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	942.77 234.08	351.13
40 05 23 23-0736 EA 10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,546.05 312.11	468.16
40 05 23 23-0737 EA 12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	2,256.77 468.16	702.24
40 05 23 23-0738 EA 14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	2,659.32 546.19	819.28
40 05 23 23-0739 EA 16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	3,129.13 623.03	934.55
40 05 23 23-0740 EA 18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	3,959.12 780.27	1,170.41
40 05 23 23-0741 EA 20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	5,641.39 1,092.38	1,638.57
40 05 23 23-0742 EA 24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	8,145.95 1,560.54	2,340.81
40 05 23 23-0743 Type 316, Schedule 10 Stainless Steel Butt Weld Tees (40 05 23 23-0685)		
40 05 23 23-0744 EA 1/2", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	189.24 48.98	73.47
40 05 23 23-0745 EA 3/4", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	226.39 60.13	90.19
40 05 23 23-0746 EA 1", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	251.15 67.55	101.34
40 05 23 23-0747 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	289.30 77.04	115.56
40 05 23 23-0748 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	303.91 82.70	124.04
40 05 23 23-0749 EA 2", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	329.67 90.20	135.29
40 05 23 23-0750 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	403.01 108.07	162.10
40 05 23 23-0751 EA 3", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	505.30 135.44	203.15
40 05 23 23-0752 EA 4", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	585.72 152.00	228.00
40 05 23 23-0753 EA 6", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	889.42 202.67	303.99
40 05 23 23-0754 EA 8", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	1,557.98 312.11	468.16
40 05 23 23-0755 EA 10", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	2,448.56 468.16	702.24
40 05 23 23-0756 EA 12", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	3,168.23 585.20	877.80
40 05 23 23-0757 EA 14", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	4,113.05 703.25	1,054.88
40 05 23 23-0758 EA 16", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	4,830.25 857.89	1,286.84
40 05 23 23-0759 EA 18", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	6,137.42 1,092.38	1,638.57
40 05 23 23-0760 EA 20", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	8,311.69 1,437.34	2,156.02
40 05 23 23-0761 EA 24", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	11,766.96 2,184.77	3,277.14
40 05 23 23-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0685)		
40 05 23 23-0763 EA 3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	185.67 40.92	61.38
40 05 23 23-0764 EA 1", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	218.70 50.14	75.21
40 05 23 23-0765 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	273.36 56.34	84.51
40 05 23 23-0766 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	272.91 64.23	96.34
40 05 23 23-0767 EA 2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	288.88 69.02	103.52
40 05 23 23-0768 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	415.32 75.22	112.82
40 05 23 23-0769 EA 3", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	384.93 90.16	135.23
40 05 23 23-0770 EA 4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	528.37 112.68	169.03
40 05 23 23-0771 EA 6", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	781.68 128.75	193.13
40 05 23 23-0772 EA 8", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	1,601.35 195.07	292.60
40 05 23 23-0773 EA 10", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	3,023.29 260.09	390.14
40 05 23 23-0774 EA 12", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	3,913.36 390.14	585.20
40 05 23 23-0775 EA 14", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	4,429.31 468.70	703.06

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0776 EA 16", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,496.32 571.73	857.59
40 05 23 23-0777 EA 18", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	7,109.79 728.26	1,092.38
40 05 23 23-0778 EA 20", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	10,205.90 958.23	1,437.34
40 05 23 23-0779 EA 24", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	16,018.31 1,455.22	2,182.82
40 05 23 23-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0685)		
40 05 23 23-0781 EA 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	140.46 37.21	55.82
40 05 23 23-0782 EA 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	155.42 40.55	60.82
40 05 23 23-0783 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	173.74 44.96	67.43
40 05 23 23-0784 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	180.11 48.99	73.49
40 05 23 23-0785 EA 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	195.24 54.11	81.16
40 05 23 23-0786 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	261.20 67.61	101.42
40 05 23 23-0787 EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	305.84 76.97	115.46
40 05 23 23-0788 EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	329.72 90.20	135.29
40 05 23 23-0789 EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	467.15 114.83	172.24
40 05 23 23-0790 EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	749.29 187.27	280.90
40 05 23 23-0791 EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	976.62 234.08	351.13
40 05 23 23-0792 EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,307.64 312.11	468.16
40 05 23 23-0793 EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,883.40 409.64	614.47
40 05 23 23-0794 EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,193.33 466.83	700.24
40 05 23 23-0795 EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,710.50 585.20	877.80
40 05 23 23-0796 EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,845.06 780.27	1,170.41
40 05 23 23-0797 EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,569.56 1,170.41	1,755.61
40 05 23 23-0798 EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	170.15 37.21	55.82
40 05 23 23-0799 EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	190.68 40.55	60.82
40 05 23 23-0800 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	215.54 44.96	67.43
40 05 23 23-0801 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	229.00 48.99	73.49
40 05 23 23-0802 EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	225.41 54.11	81.16
40 05 23 23-0803 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	302.90 67.61	101.42
40 05 23 23-0804 EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	348.61 76.97	115.46
40 05 23 23-0805 EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	387.72 90.20	135.29
40 05 23 23-0806 EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	566.83 114.83	172.24
40 05 23 23-0807 EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	965.31 187.27	280.90
40 05 23 23-0808 EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,348.64 234.08	351.13
40 05 23 23-0809 EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,693.68 312.11	468.16
40 05 23 23-0810 EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,615.47 409.64	614.47
40 05 23 23-0811 EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,078.14 466.83	700.24
40 05 23 23-0812 EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,809.80 585.20	877.80
40 05 23 23-0813 EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,603.20 780.27	1,170.41
40 05 23 23-0814 EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	7,657.49 1,170.41	1,755.61
40 05 23 23-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0685)		
40 05 23 23-0816 EA 1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	81.03 19.27	28.91



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0817	EA	3/4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	90.70 20.45	30.67
40 05 23 23-0818	EA	1", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	99.37 22.48	33.72
40 05 23 23-0819	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	108.73 24.50	36.74
40 05 23 23-0820	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	116.91 27.05	40.57
40 05 23 23-0821	EA	2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	121.33 30.10	45.14
40 05 23 23-0822	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	150.62 38.52	57.78
40 05 23 23-0823	EA	3", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	178.74 45.14	67.72
40 05 23 23-0824	EA	4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	214.11 54.04	81.06
40 05 23 23-0825	EA	6", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	281.89 67.61	101.42
40 05 23 23-0826	EA	8", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	491.61 117.04	175.56
40 05 23 23-0827	EA	10", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	651.55 156.05	234.08
40 05 23 23-0828	EA	12", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	956.33 234.08	351.12
40 05 23 23-0829	EA	14", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,111.61 273.09	409.64
40 05 23 23-0830	EA	16", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,280.09 311.52	467.27
40 05 23 23-0831	EA	18", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,615.32 390.14	585.20
40 05 23 23-0832	EA	20", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,233.60 546.19	819.28
40 05 23 23-0833	EA	24", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	3,410.50 780.27	1,170.40
40 05 23 23-0834		Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0835		Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 23-0834)		
40 05 23 23-0836	LF	1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	22.58 3.05	5.07
40 05 23 23-0837	LF	3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	27.41 3.72	6.20
40 05 23 23-0838	LF	1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	33.61 4.36	7.33
40 05 23 23-0839	LF	1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	42.02 5.45	9.01
40 05 23 23-0840	LF	1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	48.42 6.15	10.15
40 05 23 23-0841	LF	2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	62.06 7.61	12.96
40 05 23 23-0842	LF	2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	77.10 8.70	14.65
40 05 23 23-0843	LF	3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	75.00 9.80	16.34
40 05 23 23-0844	LF	4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	124.27 11.60	19.16
40 05 23 23-0845	LF	6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	193.80 15.23	25.35
40 05 23 23-0846	LF	8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	344.52 29.79	46.12
40 05 23 23-0847	LF	10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	436.20 32.77	50.98
40 05 23 23-0848	LF	12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	543.69 36.41	56.44
40 05 23 23-0849		Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0834)		
40 05 23 23-0850	EA	1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	138.75 38.53	57.81
40 05 23 23-0851	EA	3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	146.65 40.90	61.36
40 05 23 23-0852	EA	1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	161.69 44.96	67.43
40 05 23 23-0853	EA	1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	176.09 48.99	73.49
40 05 23 23-0854	EA	1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	194.10 54.11	81.16
40 05 23 23-0855	EA	2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	219.74 60.19	90.29
40 05 23 23-0856	EA	2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	296.14 77.04	115.56

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0857	EA	3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	352.14 90.29	135.43
40 05 23 23-0858	EA	4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	454.19 108.07	162.10
40 05 23 23-0859	EA	6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	737.20 135.00	202.50
40 05 23 23-0860	EA	8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,320.16 234.08	351.13
40 05 23 23-0861	EA	10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,219.56 312.11	468.16
40 05 23 23-0862	EA	12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,143.55 468.16	702.24
40 05 23 23-0863	EA	14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,495.55 546.19	819.28
40 05 23 23-0864	EA	16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,276.97 623.03	934.55
40 05 23 23-0865	EA	18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,473.83 780.27	1,170.41
40 05 23 23-0866	EA	20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	7,359.23 1,092.38	1,638.57
40 05 23 23-0867	EA	24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	10,702.36 1,560.54	2,340.81
40 05 23 23-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0834)				
40 05 23 23-0869	EA	1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	142.57 38.53	57.81
40 05 23 23-0870	EA	3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	150.47 40.90	61.36
40 05 23 23-0871	EA	1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	163.98 44.96	67.43
40 05 23 23-0872	EA	1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	177.20 48.99	73.49
40 05 23 23-0873	EA	1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	196.39 54.11	81.16
40 05 23 23-0874	EA	2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	219.74 60.19	90.29
40 05 23 23-0875	EA	2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	296.14 77.04	115.56
40 05 23 23-0876	EA	3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	337.25 90.29	135.43
40 05 23 23-0877	EA	4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	425.93 108.07	162.10
40 05 23 23-0878	EA	6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	621.10 135.00	202.50
40 05 23 23-0879	EA	8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,115.60 234.08	351.13
40 05 23 23-0880	EA	10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,748.14 312.11	468.16
40 05 23 23-0881	EA	12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,512.48 468.16	702.24
40 05 23 23-0882	EA	14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,842.40 546.19	819.28
40 05 23 23-0883	EA	16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,205.41 623.03	934.55
40 05 23 23-0884	EA	18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,139.83 780.27	1,170.41
40 05 23 23-0885	EA	20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,599.55 1,092.38	1,638.57
40 05 23 23-0886	EA	24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	8,352.36 1,560.54	2,340.81
40 05 23 23-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0834)				
40 05 23 23-0888	EA	1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	191.53 48.98	73.47
40 05 23 23-0889	EA	3/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	228.68 60.13	90.19
40 05 23 23-0890	EA	1", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	253.44 67.55	101.34
40 05 23 23-0891	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	292.63 77.04	115.56
40 05 23 23-0892	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	303.91 82.70	124.04
40 05 23 23-0893	EA	2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	331.20 90.20	135.29
40 05 23 23-0894	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	416.62 108.07	162.10
40 05 23 23-0895	EA	3", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	512.55 135.44	203.15
40 05 23 23-0896	EA	4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	598.33 152.00	228.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0897 EA 6", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	979.16 202.67	303.99
40 05 23 23-0898 EA 8", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	1,788.55 312.11	468.16
40 05 23 23-0899 EA 10", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	3,057.33 468.16	702.24
40 05 23 23-0900 EA 12", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	3,751.87 585.20	877.80
40 05 23 23-0901 EA 14", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	5,485.99 703.25	1,054.88
40 05 23 23-0902 EA 16", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	6,808.70 857.89	1,286.84
40 05 23 23-0903 EA 18", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	8,834.37 1,092.38	1,638.57
40 05 23 23-0904 EA 20", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	11,462.61 1,437.34	2,156.02
40 05 23 23-0905 EA 24", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	16,317.76 2,184.77	3,277.14
40 05 23 23-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0834)		
40 05 23 23-0907 EA 3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	192.92 40.92	61.38
40 05 23 23-0908 EA 1", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	223.66 50.14	75.21
40 05 23 23-0909 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	303.91 56.34	84.51
40 05 23 23-0910 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	284.75 64.23	96.34
40 05 23 23-0911 EA 2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	288.88 69.02	103.52
40 05 23 23-0912 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	417.61 75.22	112.82
40 05 23 23-0913 EA 3", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	401.35 90.16	135.23
40 05 23 23-0914 EA 4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	544.79 112.68	169.03
40 05 23 23-0915 EA 6", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	791.99 128.75	193.13
40 05 23 23-0916 EA 8", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	1,398.41 195.07	292.60
40 05 23 23-0917 EA 10", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	3,074.03 260.09	390.14
40 05 23 23-0918 EA 12", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	4,014.83 390.14	585.20
40 05 23 23-0919 EA 14", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	4,540.64 468.70	703.06
40 05 23 23-0920 EA 16", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	5,635.75 571.73	857.59
40 05 23 23-0921 EA 18", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	7,291.62 728.26	1,092.38
40 05 23 23-0922 EA 20", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	10,478.19 958.23	1,437.34
40 05 23 23-0923 EA 24", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	16,451.98 1,455.22	2,182.82
40 05 23 23-0924 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0834)		
40 05 23 23-0925 EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	146.57 37.21	55.82
40 05 23 23-0926 EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	161.53 40.55	60.82
40 05 23 23-0927 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	176.51 44.96	67.43
40 05 23 23-0928 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	186.99 48.99	73.49
40 05 23 23-0929 EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	199.45 54.11	81.16
40 05 23 23-0930 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	274.64 67.61	101.42
40 05 23 23-0931 EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	290.94 76.97	115.46
40 05 23 23-0932 EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	335.02 90.20	135.29
40 05 23 23-0933 EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	469.82 114.83	172.24
40 05 23 23-0934 EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	829.21 187.27	280.90
40 05 23 23-0935 EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	1,127.16 234.08	351.13
40 05 23 23-0936 EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	1,415.70 312.11	468.16
40 05 23 23-0937 EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	2,089.23 409.64	614.47

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0938 EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,412.39 466.83	700.24
40 05 23 23-0939 EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,257.67 585.20	877.80
40 05 23 23-0940 EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,430.36 780.27	1,170.41
40 05 23 23-0941 EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	6,308.63 1,170.41	1,755.61
40 05 23 23-0942 EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	189.73 37.21	55.82
40 05 23 23-0943 EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	200.87 40.55	60.82
40 05 23 23-0944 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	235.40 44.96	67.43
40 05 23 23-0945 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	240.84 48.99	73.49
40 05 23 23-0946 EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	256.73 54.11	81.16
40 05 23 23-0947 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	302.90 67.61	101.42
40 05 23 23-0948 EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	401.31 76.97	115.46
40 05 23 23-0949 EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	429.73 90.20	135.29
40 05 23 23-0950 EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	625.26 114.83	172.24
40 05 23 23-0951 EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	945.52 187.27	280.90
40 05 23 23-0952 EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,382.86 234.08	351.13
40 05 23 23-0953 EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,927.14 312.11	468.16
40 05 23 23-0954 EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,948.50 409.64	614.47
40 05 23 23-0955 EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,401.60 466.83	700.24
40 05 23 23-0956 EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,609.92 585.20	877.80
40 05 23 23-0957 EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,901.59 780.27	1,170.41
40 05 23 23-0958 EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	8,846.91 1,170.41	1,755.61
40 05 23 23-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0834)		
40 05 23 23-0960 EA 1/2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	81.80 19.27	28.91
40 05 23 23-0961 EA 3/4", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	90.32 20.45	30.67
40 05 23 23-0962 EA 1", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	100.14 22.48	33.72
40 05 23 23-0963 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	115.81 24.50	36.74
40 05 23 23-0964 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	111.18 27.05	40.57
40 05 23 23-0965 EA 2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	126.68 30.10	45.14
40 05 23 23-0966 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	157.56 38.52	57.78
40 05 23 23-0967 EA 3", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	179.89 45.14	67.72
40 05 23 23-0968 EA 4", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	222.51 54.04	81.06
40 05 23 23-0969 EA 6", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	317.03 67.61	101.42
40 05 23 23-0970 EA 8", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	557.60 117.04	175.56
40 05 23 23-0971 EA 10", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	748.68 156.05	234.08
40 05 23 23-0972 EA 12", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,115.17 234.08	351.12
40 05 23 23-0973 EA 14", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,265.55 273.09	409.64
40 05 23 23-0974 EA 16", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,417.98 311.52	467.27
40 05 23 23-0975 EA 18", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,817.22 390.14	585.20
40 05 23 23-0976 EA 20", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,487.77 546.19	819.28
40 05 23 23-0977 EA 24", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	3,905.47 780.27	1,170.40

40 05 23 23-0978 Valves (40 05 23 23-0231)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0979 Gate Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-0980 EA 1/2" Gate Valve, Stainless Steel, Flanged	705.26	57.91
For Work In Restricted Working Space, Add	21.72	
For Class 200, Deduct	-169.29	
For Class 300, Add	594.90	
40 05 23 23-0981 EA 3/4" Gate Valve, Stainless Steel, Flanged	765.70	60.33
For Work In Restricted Working Space, Add	25.34	
For Class 200, Deduct	-182.23	
For Class 300, Add	640.36	
40 05 23 23-0982 EA 1" Gate Valve, Stainless Steel, Flanged	942.69	90.50
For Work In Restricted Working Space, Add	34.15	
For Class 200, Deduct	-221.72	
For Class 300, Add	779.13	
40 05 23 23-0983 EA 1-1/4" Gate Valve, Stainless Steel, Flanged	1,189.83	105.57
For Work In Restricted Working Space, Add	39.35	
For Class 200, Deduct	-283.20	
For Class 300, Add	995.16	
40 05 23 23-0984 EA 1-1/2" Gate Valve, Stainless Steel, Flanged	1,339.69	132.90
For Work In Restricted Working Space, Add	49.84	
For Class 200, Deduct	-313.93	
For Class 300, Add	1,103.16	
40 05 23 23-0985 EA 2" Gate Valve, Stainless Steel, Flanged	1,589.93	160.84
For Work In Restricted Working Space, Add	60.33	
For Class 200, Deduct	-371.51	
For Class 300, Add	1,305.50	
40 05 23 23-0986 EA 2-1/2" Gate Valve, Stainless Steel, Flanged	2,291.40	174.96
For Work In Restricted Working Space, Add	65.81	
For Class 300, Add	1,947.70	
40 05 23 23-0987 EA 3" Gate Valve, Stainless Steel, Flanged	2,579.82	205.13
For Work In Restricted Working Space, Add	77.02	
For Class 300, Add	2,183.71	
40 05 23 23-0988 EA 4" Gate Valve, Stainless Steel, Flanged	3,402.73	343.88
For Work In Restricted Working Space, Add	129.28	
For Class 300, Add	2,793.49	
40 05 23 23-0989 EA 6" Gate Valve, Stainless Steel, Flanged	5,710.62	434.38
For Work In Restricted Working Space, Add	163.48	
For Class 300, Add	4,855.76	
40 05 23 23-0990 EA 8" Gate Valve, Stainless Steel, Flanged	12,510.65	555.04
For Work In Restricted Working Space, Add	206.85	
For Class 300, Add	11,111.89	
40 05 23 23-0991 EA 10" Gate Valve, Stainless Steel, Flanged	17,644.87	675.70
For Work In Restricted Working Space, Add	253.39	
For Class 300, Add	15,792.24	
40 05 23 23-0992 EA 12" Gate Valve, Stainless Steel, Flanged	26,591.73	820.49
For Work In Restricted Working Space, Add	307.14	
For Class 300, Add	24,033.86	
40 05 23 23-0993 Globe Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-0994 EA 1/2" Globe Valve, Stainless Steel, Flanged	966.41	57.91
For Work In Restricted Working Space, Add	21.72	
For Class 200, Deduct	-239.15	
For Class 300, Add	840.38	
40 05 23 23-0995 EA 3/4" Globe Valve, Stainless Steel, Flanged	1,069.18	60.33
For Work In Restricted Working Space, Add	25.34	
For Class 200, Deduct	-263.41	
For Class 300, Add	925.63	
40 05 23 23-0996 EA 1" Globe Valve, Stainless Steel, Flanged	1,331.76	90.50
For Work In Restricted Working Space, Add	34.15	
For Class 200, Deduct	-325.80	
For Class 300, Add	1,144.85	
40 05 23 23-0997 EA 1-1/2" Globe Valve, Stainless Steel, Flanged	1,980.06	132.90
For Work In Restricted Working Space, Add	49.84	
For Class 200, Deduct	-485.23	
For Class 300, Add	1,705.10	
40 05 23 23-0998 EA 2" Globe Valve, Stainless Steel, Flanged	2,416.71	160.84
For Work In Restricted Working Space, Add	60.33	
For Class 200, Deduct	-592.68	
For Class 300, Add	2,082.67	
40 05 23 23-0999 EA 2-1/2" Globe Valve, Stainless Steel, Flanged	4,883.83	174.96
For Work In Restricted Working Space, Add	65.81	
For Class 300, Add	4,384.58	
40 05 23 23-1000 EA 3" Globe Valve, Stainless Steel, Flanged	5,050.74	205.13
For Work In Restricted Working Space, Add	77.02	
For Class 300, Add	4,506.38	
40 05 23 23-1001 EA 4" Globe Valve, Stainless Steel, Flanged	6,002.34	343.88
For Work In Restricted Working Space, Add	129.28	
For Class 300, Add	5,237.13	
40 05 23 23-1002 EA 6" Globe Valve, Stainless Steel, Flanged	11,104.69	434.38
For Work In Restricted Working Space, Add	163.48	
For Class 300, Add	9,926.18	

40 05 23 23-1003 Check Valves, Class 150 (40 05 23 23-0978)

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1004	EA	2-1/2" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,191.97 65.81 1,854.23	174.96
40 05 23 23-1005	EA	3" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,290.82 77.02 1,912.05	205.13
40 05 23 23-1006	EA	4" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	3,596.59 129.28 2,975.72	343.88
40 05 23 23-1007	EA	6" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	6,202.70 163.48 5,318.31	434.38
40 05 23 23-1008	EA	8" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	10,927.36 206.85 9,623.60	555.04
40 05 23 23-1009 Stainless Steel Thread-O-Let Fittings (40 05 23 23-0231)				
40 05 23 23-1010	EA	1/2", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	97.26 23.36	35.02
40 05 23 23-1011	EA	3/4", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	128.06 31.14	46.70
40 05 23 23-1012	EA	1", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	157.59 38.61	57.91
40 05 23 23-1013	EA	1-1/4", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	226.97 54.64	81.95
40 05 23 23-1014	EA	1-1/2", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	250.22 61.61	92.42
40 05 23 23-1015	EA	2", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	311.95 78.27	117.41
40 05 23 23-1016	EA	2-1/2", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	573.46 120.66	180.99
40 05 23 23-1017	EA	3", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	774.53 154.04	231.06
40 05 23 23-1018	EA	4", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	1,029.71 193.06	289.58
40 05 23 23-1019 Stainless Steel Flanges (40 05 23 23-0231)				
40 05 23 23-1020 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)				
40 05 23 23-1021	EA	1/2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	76.80 11.68	19.47
40 05 23 23-1022	EA	3/4", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	93.99 15.57	25.95
40 05 23 23-1023	EA	1", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	111.50 19.31	32.18
40 05 23 23-1024	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	150.84 27.32	45.54
40 05 23 23-1025	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	162.47 30.81	51.34
40 05 23 23-1026	EA	2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	208.76 39.14	65.21
40 05 23 23-1027	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	310.54 60.33	100.51
40 05 23 23-1028	EA	3", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	371.22 77.02	205.13
40 05 23 23-1029	EA	4", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	478.35 96.53	160.84
40 05 23 23-1030 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)				
40 05 23 23-1031	EA	1/2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	98.70 11.68	19.47
40 05 23 23-1032	EA	3/4", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	111.68 15.57	25.95
40 05 23 23-1033	EA	1", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	124.13 19.31	32.18
40 05 23 23-1034	EA	1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	182.85 27.32	45.54
40 05 23 23-1035	EA	1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	194.48 30.81	51.34
40 05 23 23-1036	EA	2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	241.59 39.14	65.21
40 05 23 23-1037	EA	2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	383.79 60.33	100.51
40 05 23 23-1038	EA	3", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	446.13 77.02	205.13
40 05 23 23-1039	EA	4", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	593.69 96.53	160.84
40 05 23 23-1040 150 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)				



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1041	EA	1/2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	102.11 19.27	28.90
40 05 23 23-1042	EA	3/4", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	110.26 20.45	30.67
40 05 23 23-1043	EA	1", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	123.75 22.48	33.72
40 05 23 23-1044	EA	1-1/4", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	151.63 24.52	36.77
40 05 23 23-1045	EA	1-1/2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	159.98 27.02	40.53
40 05 23 23-1046	EA	2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	177.81 30.11	45.15
40 05 23 23-1047	EA	2-1/2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	245.36 38.49	57.74
40 05 23 23-1048	EA	3", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	278.20 45.07	67.60
40 05 23 23-1049	EA	4", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	358.48 54.00	80.99
40 05 23 23-1050	EA	6", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	533.02 67.47	101.20
40 05 23 23-1051	EA	8", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	912.07 117.04	175.56
40 05 23 23-1052	EA	10", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,290.44 156.05	234.07
40 05 23 23-1053	EA	12", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,982.37 234.08	351.12
40 05 23 23-1054	EA	14", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,472.45 273.09	409.64
40 05 23 23-1055	EA	16", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,076.87 311.52	467.27
40 05 23 23-1056	EA	18", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,776.78 390.14	585.20
40 05 23 23-1057	EA	20", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,905.76 546.19	819.28
40 05 23 23-1058	EA	24", 150 Lb., Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	6,972.81 780.27	1,170.40
40 05 23 23-1059		300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1060	EA	1/2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	128.22 19.27	28.90
40 05 23 23-1061	EA	3/4", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	132.16 20.45	30.67
40 05 23 23-1062	EA	1", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	138.93 22.48	33.72
40 05 23 23-1063	EA	1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	181.05 24.52	36.77
40 05 23 23-1064	EA	1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	189.40 27.02	40.53
40 05 23 23-1065	EA	2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	203.07 30.11	45.15
40 05 23 23-1066	EA	2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	289.11 38.49	57.74
40 05 23 23-1067	EA	3", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	327.01 45.07	67.60
40 05 23 23-1068	EA	4", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	472.94 54.00	80.99
40 05 23 23-1069	EA	6", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	662.66 67.47	101.20
40 05 23 23-1070	EA	8", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,235.32 117.04	175.56
40 05 23 23-1071	EA	10", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,717.26 156.05	234.07
40 05 23 23-1072	EA	12", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,524.54 234.08	351.12
40 05 23 23-1073	EA	14", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,329.50 273.09	409.64
40 05 23 23-1074	EA	16", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,101.80 311.52	467.27
40 05 23 23-1075	EA	18", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,236.25 390.14	585.20
40 05 23 23-1076	EA	20", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	6,773.09 546.19	819.28
40 05 23 23-1077	EA	24", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	9,856.79 780.27	1,170.40
40 05 23 23-1078		150 Lb., Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1079	EA	1/2", 150 Lb., Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	162.11 38.53	57.79
40 05 23 23-1080	EA	3/4", 150 Lb., Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	170.86 40.90	61.35
40 05 23 23-1081	EA	1", 150 Lb., Type 304 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	187.74 44.96	67.43

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1082 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	214.81 49.04	73.55
40 05 23 23-1083 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	231.52 54.05	81.07
40 05 23 23-1084 EA 2", 150 Lb., Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	267.23 60.21	90.30
40 05 23 23-1085 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	350.08 76.99	115.48
40 05 23 23-1086 EA 3", 150 Lb., Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	400.67 90.14	135.20
40 05 23 23-1087 EA 4", 150 Lb., Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	496.40 108.00	162.01
40 05 23 23-1088 EA 6", 150 Lb., Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	657.75 134.94	202.40
40 05 23 23-1089 EA 8", 150 Lb., Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,173.42 234.08	351.12
40 05 23 23-1090 EA 10" 150 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,650.68 312.11	468.16
40 05 23 23-1091 EA 12" 150 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,462.14 468.16	702.23
40 05 23 23-1092 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1093 EA 1/2", 300 Lb., Type 304 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	178.95 38.53	57.79
40 05 23 23-1094 EA 3/4", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	186.85 40.90	61.35
40 05 23 23-1095 EA 1", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	200.37 44.96	67.43
40 05 23 23-1096 EA 1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	240.91 49.04	73.55
40 05 23 23-1097 EA 1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	257.62 54.05	81.07
40 05 23 23-1098 EA 2", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	284.87 60.21	90.30
40 05 23 23-1099 EA 2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	415.77 76.99	115.48
40 05 23 23-1100 EA 3", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	466.32 90.14	135.20
40 05 23 23-1101 EA 4", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	587.30 108.00	162.01
40 05 23 23-1102 EA 6", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	914.50 134.94	202.40
40 05 23 23-1103 EA 8", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,432.68 234.08	351.12
40 05 23 23-1104 EA 10", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,068.23 312.11	468.16
40 05 23 23-1105 EA 12", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,999.24 468.16	702.23
40 05 23 23-1106 150 Lb., Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1107 EA 1/2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	61.62 7.71	11.55
40 05 23 23-1108 EA 3/4", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	64.30 8.18	12.26
40 05 23 23-1109 EA 1", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	69.56 8.99	13.48
40 05 23 23-1110 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	89.77 10.01	15.01
40 05 23 23-1111 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	101.49 13.52	20.28
40 05 23 23-1112 EA 2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	119.94 15.01	22.51
40 05 23 23-1113 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	163.66 19.30	28.95
40 05 23 23-1114 EA 3", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	199.59 27.05	40.56
40 05 23 23-1115 EA 4", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	303.44 45.06	67.59
40 05 23 23-1116 EA 6", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	417.07 57.94	86.91
40 05 23 23-1117 EA 8", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	652.73 72.83	109.24
40 05 23 23-1118 EA 10", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,003.50 87.39	131.08
40 05 23 23-1119 EA 12", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,328.00 109.24	163.85
40 05 23 23-1120 EA 14", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,688.19 136.55	204.83
40 05 23 23-1121 EA 16", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,178.03 155.76	233.63
40 05 23 23-1122 EA 18", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,575.19 195.07	292.60



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1123	EA	20", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	3,420.73	409.64
		For Work In Restricted Working Space, Add		273.09	
40 05 23 23-1124	EA	24", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	4,981.81	585.20
		For Work In Restricted Working Space, Add		390.14	
40 05 23 23-1125 300 Lb., Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)					
40 05 23 23-1126	EA	1/2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	78.75	11.55
		For Work In Restricted Working Space, Add		7.71	
40 05 23 23-1127	EA	3/4", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	80.33	12.26
		For Work In Restricted Working Space, Add		8.18	
40 05 23 23-1128	EA	1", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	83.04	13.48
		For Work In Restricted Working Space, Add		8.99	
40 05 23 23-1129	EA	1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	105.75	15.01
		For Work In Restricted Working Space, Add		10.01	
40 05 23 23-1130	EA	1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	117.47	20.28
		For Work In Restricted Working Space, Add		13.52	
40 05 23 23-1131	EA	2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	128.35	22.51
		For Work In Restricted Working Space, Add		15.01	
40 05 23 23-1132	EA	2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	222.58	28.95
		For Work In Restricted Working Space, Add		19.30	
40 05 23 23-1133	EA	3", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	254.73	40.56
		For Work In Restricted Working Space, Add		27.05	
40 05 23 23-1134	EA	4", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	372.44	67.59
		For Work In Restricted Working Space, Add		45.06	
40 05 23 23-1135	EA	6", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	701.59	86.91
		For Work In Restricted Working Space, Add		57.94	
40 05 23 23-1136	EA	8", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	992.82	109.24
		For Work In Restricted Working Space, Add		72.83	
40 05 23 23-1137	EA	10", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	1,417.65	131.08
		For Work In Restricted Working Space, Add		87.39	
40 05 23 23-1138	EA	12", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	1,963.58	163.85
		For Work In Restricted Working Space, Add		109.24	
40 05 23 23-1139	EA	14", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	2,748.26	204.83
		For Work In Restricted Working Space, Add		136.55	
40 05 23 23-1140	EA	16", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	3,516.40	233.63
		For Work In Restricted Working Space, Add		155.76	
40 05 23 23-1141	EA	18", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	4,589.42	292.60
		For Work In Restricted Working Space, Add		195.07	
40 05 23 23-1142	EA	20", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	5,810.50	409.64
		For Work In Restricted Working Space, Add		273.09	
40 05 23 23-1143	EA	24", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	.....	8,912.40	585.20
		For Work In Restricted Working Space, Add		390.14	
40 05 23 23-1144 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)					
40 05 23 23-1145	EA	1/2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	91.98	19.47
		For Work In Restricted Working Space, Add		11.68	
40 05 23 23-1146	EA	3/4", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	113.38	25.95
		For Work In Restricted Working Space, Add		15.57	
40 05 23 23-1147	EA	1", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	129.99	32.18
		For Work In Restricted Working Space, Add		19.31	
40 05 23 23-1148	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	178.60	45.54
		For Work In Restricted Working Space, Add		27.32	
40 05 23 23-1149	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	190.23	51.34
		For Work In Restricted Working Space, Add		30.81	
40 05 23 23-1150	EA	2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	239.08	65.21
		For Work In Restricted Working Space, Add		39.14	
40 05 23 23-1151	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	354.33	100.51
		For Work In Restricted Working Space, Add		60.33	
40 05 23 23-1152	EA	3", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	427.63	205.13
		For Work In Restricted Working Space, Add		77.02	
40 05 23 23-1153	EA	4", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	557.47	160.84
		For Work In Restricted Working Space, Add		96.53	
40 05 23 23-1154 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)					
40 05 23 23-1155	EA	1/2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	120.59	19.47
		For Work In Restricted Working Space, Add		11.68	
40 05 23 23-1156	EA	3/4", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	133.57	25.95
		For Work In Restricted Working Space, Add		15.57	
40 05 23 23-1157	EA	1", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	146.02	32.18
		For Work In Restricted Working Space, Add		19.31	
40 05 23 23-1158	EA	1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	224.94	45.54
		For Work In Restricted Working Space, Add		27.32	
40 05 23 23-1159	EA	1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	236.57	51.34
		For Work In Restricted Working Space, Add		30.81	
40 05 23 23-1160	EA	2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	278.62	65.21
		For Work In Restricted Working Space, Add		39.14	
40 05 23 23-1161	EA	2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	467.12	100.51
		For Work In Restricted Working Space, Add		60.33	
40 05 23 23-1162	EA	3", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	.....	531.16	205.13
		For Work In Restricted Working Space, Add		77.02	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1163	EA	4", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	729.19 96.53	160.84
40 05 23 23-1164		150 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1165	EA	1/2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	121.46 19.27	28.90
40 05 23 23-1166	EA	3/4", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	129.65 20.45	30.67
40 05 23 23-1167	EA	1", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	145.64 22.48	33.72
40 05 23 23-1168	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	180.24 24.52	36.77
40 05 23 23-1169	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	188.59 27.02	40.53
40 05 23 23-1170	EA	2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	207.28 30.11	45.15
40 05 23 23-1171	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	294.97 38.49	57.74
40 05 23 23-1172	EA	3", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	322.80 45.07	67.60
40 05 23 23-1173	EA	4", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	434.25 54.00	80.99
40 05 23 23-1174	EA	6", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	664.36 67.47	101.20
40 05 23 23-1175	EA	8", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,114.95 117.04	175.56
40 05 23 23-1176	EA	10", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,628.87 156.05	234.07
40 05 23 23-1177	EA	12", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,429.43 234.08	351.12
40 05 23 23-1178	EA	14", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,842.70 273.09	409.64
40 05 23 23-1179	EA	16", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,560.02 311.52	467.27
40 05 23 23-1180	EA	18", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,363.71 390.14	585.20
40 05 23 23-1181	EA	20", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,636.99 546.19	819.28
40 05 23 23-1182	EA	24", 150 Lb., Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	8,009.02 780.27	1,170.40
40 05 23 23-1183		300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1184	EA	1/2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	153.47 19.27	28.90
40 05 23 23-1185	EA	3/4", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	157.41 20.45	30.67
40 05 23 23-1186	EA	1", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	164.18 22.48	33.72
40 05 23 23-1187	EA	1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	215.61 24.52	36.77
40 05 23 23-1188	EA	1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	223.96 27.02	40.53
40 05 23 23-1189	EA	2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	245.16 30.11	45.15
40 05 23 23-1190	EA	2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	361.51 38.49	57.74
40 05 23 23-1191	EA	3", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	395.21 45.07	67.60
40 05 23 23-1192	EA	4", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	599.21 54.00	80.99
40 05 23 23-1193	EA	6", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	974.98 67.47	101.20
40 05 23 23-1194	EA	8", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,554.40 117.04	175.56
40 05 23 23-1195	EA	10", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,234.13 156.05	234.07
40 05 23 23-1196	EA	12", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,283.83 234.08	351.12
40 05 23 23-1197	EA	14", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,433.87 273.09	409.64
40 05 23 23-1198	EA	16", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,500.26 311.52	467.27
40 05 23 23-1199	EA	18", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	7,032.96 390.14	585.20
40 05 23 23-1200	EA	20", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	9,033.91 546.19	819.28
40 05 23 23-1201	EA	24", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	13,169.14 780.27	1,170.40
40 05 23 23-1202		150 Lb., Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1203	EA	1/2", 150 Lb., Type 316 Stainless Steel Slip-On Flange		172.23	57.79
		For Work In Restricted Working Space, Add		38.53	
40 05 23 23-1204	EA	3/4", 150 Lb., Type 316 Stainless Steel Slip-On Flange		186.04	61.35
		For Work In Restricted Working Space, Add		40.90	
40 05 23 23-1205	EA	1", 150 Lb., Type 316 Stainless Steel Slip-On Flange		205.13	67.43
		For Work In Restricted Working Space, Add		44.96	
40 05 23 23-1206	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Slip-On Flange		278.24	73.55
		For Work In Restricted Working Space, Add		49.04	
40 05 23 23-1207	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Slip-On Flange		251.71	81.07
		For Work In Restricted Working Space, Add		54.05	
40 05 23 23-1208	EA	2", 150 Lb., Type 316 Stainless Steel Slip-On Flange		272.24	90.30
		For Work In Restricted Working Space, Add		60.21	
40 05 23 23-1209	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Slip-On Flange		346.72	115.48
		For Work In Restricted Working Space, Add		76.99	
40 05 23 23-1210	EA	3", 150 Lb., Type 316 Stainless Steel Slip-On Flange		429.28	135.20
		For Work In Restricted Working Space, Add		90.14	
40 05 23 23-1211	EA	4", 150 Lb., Type 316 Stainless Steel Slip-On Flange		556.99	162.01
		For Work In Restricted Working Space, Add		108.00	
40 05 23 23-1212	EA	6", 150 Lb., Type 316 Stainless Steel Slip-On Flange		747.80	202.40
		For Work In Restricted Working Space, Add		134.94	
40 05 23 23-1213	EA	8", 150 Lb., Type 316 Stainless Steel Slip-On Flange		1,359.42	351.12
		For Work In Restricted Working Space, Add		234.08	
40 05 23 23-1214	EA	10" 150 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		1,904.92	468.16
		For Work In Restricted Working Space, Add		312.11	
40 05 23 23-1215	EA	12" 150 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		2,802.22	702.23
		For Work In Restricted Working Space, Add		468.16	
40 05 23 23-1216		300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flanges	(40 05 23 23-1019)		
40 05 23 23-1217	EA	1/2", 300 Lb., Type 316 Stainless Steel Raised Neck Slip-On Flange		195.79	57.79
		For Work In Restricted Working Space, Add		38.53	
40 05 23 23-1218	EA	3/4", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		203.69	61.35
		For Work In Restricted Working Space, Add		40.90	
40 05 23 23-1219	EA	1", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		217.21	67.43
		For Work In Restricted Working Space, Add		44.96	
40 05 23 23-1220	EA	1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		273.74	73.55
		For Work In Restricted Working Space, Add		49.04	
40 05 23 23-1221	EA	1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		290.45	81.07
		For Work In Restricted Working Space, Add		54.05	
40 05 23 23-1222	EA	2", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		315.91	90.30
		For Work In Restricted Working Space, Add		60.21	
40 05 23 23-1223	EA	2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		488.98	115.48
		For Work In Restricted Working Space, Add		76.99	
40 05 23 23-1224	EA	3", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		541.23	135.20
		For Work In Restricted Working Space, Add		90.14	
40 05 23 23-1225	EA	4", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		703.46	162.01
		For Work In Restricted Working Space, Add		108.00	
40 05 23 23-1226	EA	6", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		1,083.72	202.40
		For Work In Restricted Working Space, Add		134.94	
40 05 23 23-1227	EA	8", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		1,606.95	351.12
		For Work In Restricted Working Space, Add		234.08	
40 05 23 23-1228	EA	10" 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		2,635.61	468.16
		For Work In Restricted Working Space, Add		312.11	
40 05 23 23-1229	EA	12", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange		3,499.27	702.23
		For Work In Restricted Working Space, Add		468.16	
40 05 23 23-1230		150 Lb., Type 316 Stainless Steel Blind Flanges	(40 05 23 23-1019)		
40 05 23 23-1231	EA	1/2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		69.48	11.55
		For Work In Restricted Working Space, Add		7.71	
40 05 23 23-1232	EA	3/4", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		78.63	12.26
		For Work In Restricted Working Space, Add		8.18	
40 05 23 23-1233	EA	1", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		88.91	13.48
		For Work In Restricted Working Space, Add		8.99	
40 05 23 23-1234	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		104.90	15.01
		For Work In Restricted Working Space, Add		10.01	
40 05 23 23-1235	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		116.62	20.28
		For Work In Restricted Working Space, Add		13.52	
40 05 23 23-1236	EA	2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		145.19	22.51
		For Work In Restricted Working Space, Add		15.01	
40 05 23 23-1237	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		203.24	28.95
		For Work In Restricted Working Space, Add		19.30	
40 05 23 23-1238	EA	3", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		243.38	40.56
		For Work In Restricted Working Space, Add		27.05	
40 05 23 23-1239	EA	4", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		377.50	67.59
		For Work In Restricted Working Space, Add		45.06	
40 05 23 23-1240	EA	6", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		535.78	86.91
		For Work In Restricted Working Space, Add		57.94	
40 05 23 23-1241	EA	8", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		936.40	109.24
		For Work In Restricted Working Space, Add		72.83	
40 05 23 23-1242	EA	10", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		1,227.43	131.08
		For Work In Restricted Working Space, Add		87.39	
40 05 23 23-1243	EA	12", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange		1,973.69	163.85
		For Work In Restricted Working Space, Add		109.24	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1244 EA 14", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,349.27 136.55	204.83
40 05 23 23-1245 EA 16", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,067.39 155.76	233.63
40 05 23 23-1246 EA 18", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,607.23 195.07	292.60
40 05 23 23-1247 EA 20", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,766.66 273.09	409.64
40 05 23 23-1248 EA 24", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	6,955.53 390.14	585.20
40 05 23 23-1249 300 Lb., Type 316 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1250 EA 1/2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	107.36 7.71	11.55
40 05 23 23-1251 EA 3/4", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	108.94 8.18	12.26
40 05 23 23-1252 EA 1", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	111.65 8.99	13.48
40 05 23 23-1253 EA 1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	167.23 10.01	15.01
40 05 23 23-1254 EA 1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	178.95 13.52	20.28
40 05 23 23-1255 EA 2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	198.21 15.01	22.51
40 05 23 23-1256 EA 2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	330.36 19.30	28.95
40 05 23 23-1257 EA 3", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	364.59 27.05	40.56
40 05 23 23-1258 EA 4", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	557.64 45.06	67.59
40 05 23 23-1259 EA 6", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,017.31 57.94	86.91
40 05 23 23-1260 EA 8", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,319.47 72.83	109.24
40 05 23 23-1261 EA 10", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,367.24 87.39	131.08
40 05 23 23-1262 EA 12", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,887.07 109.24	163.85
40 05 23 23-1263 EA 14", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,166.69 136.55	204.83
40 05 23 23-1264 EA 16", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	5,370.37 155.76	233.63
40 05 23 23-1265 EA 18", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	7,026.06 195.07	292.60
40 05 23 23-1266 EA 20", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	8,841.58 273.09	409.64
40 05 23 23-1267 EA 24", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	13,620.88 390.14	585.20
40 05 23 23-1268 Type 316 Seamless Annealed Tubing (40 05 23 23) Note: For high-pressure air (8000 PSIG working pressure).		
40 05 23 23-1269 Type 316 Seamless Annealed Tubing (40 05 23 23-1268)		
40 05 23 23-1270 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness	20.04	
40 05 23 23-1271 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness	24.53	
40 05 23 23-1272 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness	29.57	
40 05 23 23-1273 Type 316 Seamless Annealed Tubing Fittings (40 05 23 23-1268) Note: Pressure rating 5,000 PSI minimum. Includes front and back ferrules.		
40 05 23 23-1274 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	68.22	
40 05 23 23-1275 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	71.07	
40 05 23 23-1276 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules	108.89	
40 05 23 23-1277 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	67.64	
40 05 23 23-1278 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	111.64	
40 05 23 23-1279 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	83.41	
40 05 23 23-1280 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules	104.95	
40 05 23 23-1281 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	161.69	
40 05 23 23-1282 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	103.11	
40 05 23 23-1283 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	158.70	
40 05 23 23-1284 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	100.11	
40 05 23 23-1285 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules	130.03	
40 05 23 23-1286 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	216.02	
40 05 23 23-1287 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	178.81	
40 05 23 23-1288 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	219.82	
40 05 23 23-1289 Valves For High Pressure Air (5,000 PSIG) (40 05 23 23-1268)		
40 05 23 23-1290 Needle Valves (40 05 23 23-1289)		
40 05 23 23-1291 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	417.11	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Stainless Steel Process Pipe and Tubing			40 05 23

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1292	EA	1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	665.13	
40 05 23 23-1293		Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG (40 05 23 23-1289)		
40 05 23 23-1294	EA	1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction.....	400.35	
40 05 23 23-1295		Other Valves Working Pressure 6,000 PSI (40 05 23 23-1289)		
40 05 23 23-1296	EA	1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG	1,677.65	
40 05 23 23-1297	EA	1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	416.66	
40 05 23 23-1298	EA	Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element.....	78.11	
40 05 41 Glass Process Pipe (40 05)				
40 05 41 00-0001		Glass Pressure Pipe (40 05 41)		
40 05 41 00-0002		Glass Pipe, Beaded Joints (40 05 41 00-0001)		
40 05 41 00-0003	LF	1/2" Glass Pipe, Pressure.....	44.25	16.66
		For Work In Restricted Working Space, Add	10.00	
40 05 41 00-0004	LF	3/4" Glass Pipe, Pressure	53.10	19.99
		For Work In Restricted Working Space, Add	11.99	
40 05 41 00-0005	LF	1" Glass Pipe, Pressure.....	61.47	22.22
		For Work In Restricted Working Space, Add	13.33	
40 05 41 00-0006	LF	1-1/2" Glass Pipe, Pressure.....	81.33	29.99
		For Work In Restricted Working Space, Add	17.99	
40 05 41 00-0007	LF	2" Glass Pipe, Pressure.....	99.35	35.54
		For Work In Restricted Working Space, Add	21.32	
40 05 41 00-0008	LF	3" Glass Pipe, Pressure.....	122.56	41.09
		For Work In Restricted Working Space, Add	24.66	
40 05 41 00-0009	LF	4" Glass Pipe, Pressure.....	167.60	55.53
		For Work In Restricted Working Space, Add	33.32	
40 05 41 00-0010	LF	6" Glass Pipe, Pressure.....	234.70	66.64
		For Work In Restricted Working Space, Add	39.98	
40 05 41 00-0011		Glass 90 Degree Elbows (40 05 41 00-0001)		
40 05 41 00-0012	EA	1/2" 90 Degree Elbow, Glass, Pressure.....	203.23	88.85
		For Work In Restricted Working Space, Add	53.31	
40 05 41 00-0013	EA	3/4" 90 Degree Elbow, Glass, Pressure.....	218.89	94.40
		For Work In Restricted Working Space, Add	56.64	
40 05 41 00-0014	EA	1" 90 Degree Elbow, Glass, Pressure.....	239.27	99.96
		For Work In Restricted Working Space, Add	59.97	
40 05 41 00-0015	EA	1-1/2" 90 Degree Elbow, Glass, Pressure	264.10	111.06
		For Work In Restricted Working Space, Add	66.64	
40 05 41 00-0016	EA	2" 90 Degree Elbow, Glass, Pressure.....	300.32	122.17
		For Work In Restricted Working Space, Add	73.31	
40 05 41 00-0017	EA	3" 90 Degree Elbow, Glass, Pressure.....	377.93	144.38
		For Work In Restricted Working Space, Add	86.63	
40 05 41 00-0018	EA	4" 90 Degree Elbow, Glass, Pressure.....	435.09	155.49
		For Work In Restricted Working Space, Add	93.28	
40 05 41 00-0019	EA	6" 90 Degree Elbow, Glass, Pressure.....	678.94	177.70
		For Work In Restricted Working Space, Add	106.63	
40 05 41 00-0020		Glass 45 Degree Elbows (40 05 41 00-0001)		
40 05 41 00-0021	EA	1/2" 45 Degree Elbow, Glass, Pressure.....	202.21	88.85
		For Work In Restricted Working Space, Add	53.31	
40 05 41 00-0022	EA	3/4" 45 Degree Elbow, Glass, Pressure.....	217.69	94.40
		For Work In Restricted Working Space, Add	56.65	
40 05 41 00-0023	EA	1" 45 Degree Elbow, Glass, Pressure.....	237.68	99.96
		For Work In Restricted Working Space, Add	59.97	
40 05 41 00-0024	EA	1-1/2" 45 Degree Elbow, Glass, Pressure	262.42	111.06
		For Work In Restricted Working Space, Add	66.64	
40 05 41 00-0025	EA	2" 45 Degree Elbow, Glass, Pressure.....	298.04	122.17
		For Work In Restricted Working Space, Add	73.30	
40 05 41 00-0026	EA	3" 45 Degree Elbow, Glass, Pressure.....	374.40	144.38
		For Work In Restricted Working Space, Add	86.63	
40 05 41 00-0027	EA	4" 45 Degree Elbow, Glass, Pressure.....	430.12	155.49
		For Work In Restricted Working Space, Add	93.28	
40 05 41 00-0028	EA	6" 45 Degree Elbow, Glass, Pressure.....	665.87	177.70
		For Work In Restricted Working Space, Add	106.59	
40 05 41 00-0029		Glass Tees (40 05 41 00-0001)		
40 05 41 00-0030	EA	1/2" Tee, Glass, Pressure.....	310.31	133.28
		For Work In Restricted Working Space, Add	79.98	
40 05 41 00-0031	EA	3/4" Tee, Glass, Pressure.....	333.08	144.38
		For Work In Restricted Working Space, Add	86.63	
40 05 41 00-0032	EA	1" Tee, Glass, Pressure.....	359.89	155.49
		For Work In Restricted Working Space, Add	93.28	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 41 Glass Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 41 00-0033 EA 1-1/2" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	404.83 99.94	166.60
40 05 41 00-0034 EA 2" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	450.49 109.97	183.26
40 05 41 00-0035 EA 3" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	547.43 133.28	222.13
40 05 41 00-0036 EA 4" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	639.39 139.88	233.13
40 05 41 00-0037 EA 6" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	835.46 159.88	266.44
40 05 41 00-0038 Glass Couplings, Vitron Liner (40 05 41 00-0001)		
40 05 41 00-0039 EA 1/2" Coupling, Vitron Liner, Glass.....	36.72	
40 05 41 00-0040 EA 3/4" Coupling, Vitron Liner, Glass.....	41.97	
40 05 41 00-0041 EA 1" Coupling, Vitron Liner, Glass.....	48.96	
40 05 41 00-0042 EA 1-1/2" Coupling, Vitron Liner, Glass.....	55.96	
40 05 41 00-0043 EA 2" Coupling, Vitron Liner, Glass.....	67.32	
40 05 41 00-0044 EA 3" Coupling, Vitron Liner, Glass.....	123.28	
40 05 41 00-0045 EA 4" Coupling, Vitron Liner, Glass.....	148.64	
40 05 41 00-0046 EA 6" Coupling, Vitron Liner, Glass.....	297.28	

END OF SECTION 40



Material Processing and Handling Equipment			41	41
Operation and Maintenance of Material Processing and Handling Equipment			41 01	
Operation and Maintenance of Piece Material Handling Equipment			41 01 20	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

41 Material Processing and Handling Equipment

41 01 Operation and Maintenance of Material Processing and Handling Equipment⁽⁴¹⁾

41 01 20 Operation and Maintenance of Piece Material Handling Equipment^(41 01)

41 01 20 13 Operation And Maintenance Of Hoists Or Cranes^(41 01 20)

41 01 20 13-0001 Maintenance^(41 01 20 13)

41 01 20 13-0002	EA	Regular Inspection.....	440.39
41 01 20 13-0003	HR	Hoist Or Crane Servicing, Labor Only.....	132.18
41 01 20 13-0004	MO	Hoist Or Crane Maintenance Contract.....	1,073.20

41 20 Piece Material Handling Equipment⁽⁴¹⁾

41 22 Cranes and Hoists^(41 20)

41 22 23 Hoists^(41 22)

41 22 23 13 Fixed Hoists^(41 22 23)

41 22 23 13-0001 Air-Powered Chain Hoists^(41 22 23 13)

Note: Excludes beam.

41 22 23 13-0002	EA	500 Lb. Capacity, Air-Powered Chain Hoist.....	7,907.77	401.43
41 22 23 13-0003	EA	1,000 Lb. Capacity, Air-Powered Chain Hoist.....	8,001.13	401.43
41 22 23 13-0004	EA	2,000 Lb. Capacity, Air-Powered Chain Hoist.....	9,658.32	401.43
41 22 23 13-0005	EA	4,000 Lb. Capacity, Air-Powered Chain Hoist.....	12,203.69	535.24
41 22 23 13-0006	EA	6,000 LB Capacity, Air-Powered Chain Hoist.....	15,395.60	669.05
41 22 23 13-0007	EA	8,000 LB Capacity, Air-Powered Chain Hoist.....	18,123.65	983.23
41 22 23 13-0008	EA	10,000 LB Capacity, Air-Powered Chain Hoist.....	20,912.23	1,187.56
41 22 23 13-0009	EA	12,000 LB Capacity, Air-Powered Chain Hoist.....	21,762.78	1,187.56

41 22 23 13-0010 Electric Hoists^(41 22 23 13)

41 22 23 13-0011 Electric Industrial Chain Hoists^(41 22 23 13-0010)

Note: Includes 20' of chain. Excludes beams.

41 22 23 13-0012	EA	500 LB Capacity, Electric Industrial Chain Hoist.....	3,431.47	388.05
		For DC Electrical Operated, Add	663.25	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0013	EA	1,000 LB Capacity, Electric Industrial Chain Hoist.....	3,576.93	388.05
		For DC Electrical Operated, Add	699.09	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0014	EA	2,000 LB Capacity, Electric Industrial Chain Hoist.....	3,944.19	388.05
		For DC Electrical Operated, Add	787.71	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0015	EA	3,000 LB Capacity, Electric Industrial Chain Hoist.....	5,893.81	401.43
		For DC Electrical Operated, Add	1,266.64	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0016	EA	4,000 LB Capacity, Electric Industrial Chain Hoist.....	5,096.73	401.43
		For DC Electrical Operated, Add	1,064.99	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0017	EA	5,000 LB Capacity, Electric Industrial Chain Hoist.....	7,243.02	414.81
		For DC Electrical Operated, Add	1,590.78	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0018	EA	6,000 LB Capacity, Electric Industrial Chain Hoist.....	6,583.03	454.95
		For DC Electrical Operated, Add	1,388.34	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0019	EA	7,500 LB Capacity, Electric Industrial Chain Hoist.....	8,110.61	562.00
		For DC Electrical Operated, Add	1,763.68	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0020	EA	10,000 LB Capacity, Electric Industrial Chain Hoist.....	9,587.95	595.53
		For DC Electrical Operated, Add	2,139.42	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0021	EA	15,000 LB Capacity, Electric Industrial Chain Hoist.....	15,370.71	621.42
		For DC Electrical Operated, Add	3,531.70	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0022	EA	20,000 LB Capacity, Electric Industrial Chain Hoist.....	18,389.47	647.31
		For DC Electrical Operated, Add	4,272.93	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0023	EA	25,000 LB Capacity, Electric Industrial Chain Hoist.....	25,384.49	673.21
		For DC Electrical Operated, Add	6,007.87	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0024	EA	30,000 LB Capacity, Electric Industrial Chain Hoist.....	32,455.89	737.94
		For DC Electrical Operated, Add	7,743.19	
		For Each LF Copper Conductor Bar, Add	10.50	

41 Material Processing and Handling Equipment**41 20 Piece Material Handling Equipment****41 22 Cranes and Hoists**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
41 22 23 13-0025			Hand Chain Hoists (41 22 23 13)		
41 22 23 13-0026	EA		1,000 LB Capacity, Hand Chain Hoist	1,903.61	162.61
41 22 23 13-0027	EA		2,000 LB Capacity, Hand Chain Hoist	2,246.05	164.84
41 22 23 13-0028	EA		3,000 LB Capacity, Hand Chain Hoist	3,021.25	172.64
41 22 23 13-0029	EA		4,000 LB Capacity, Hand Chain Hoist	3,402.92	174.86
41 22 23 13-0030	EA		5,000 LB Capacity, Hand Chain Hoist	4,109.95	183.78
41 22 23 13-0031	EA		6,000 LB Capacity, Hand Chain Hoist	4,601.64	214.96
41 22 23 13-0032	EA		10,000 LB Capacity, Hand Chain Hoist	6,389.49	221.65
41 22 23 13-0033	EA		16,000 LB Capacity, Hand Chain Hoist	8,346.53	267.31
41 22 23 13-0034	EA		20,000 LB Capacity, Hand Chain Hoist	10,200.68	279.57
41 22 23 13-0035	EA		30,000 LB Capacity, Hand Chain Hoist	17,998.78	319.67

41 50 Material Storage (41)**41 53 Storage Equipment and Systems** (41 50)**41 53 13 Storage Cabinets** (41 53)**41 53 13 00-0001 Steel Storage Cabinets** (41 53 13)

Note: Includes powder coated finish and 4 adjustable shelves.

41 53 13 00-0002	EA		36" Width x 24" Depth x 78" Height, 22 Gauge, Welded Steel Storage Cabinet	1,080.87	17.26
41 53 13 00-0003	EA		36" Width x 24" Depth x 78" Height, 16 Gauge, Welded Steel Storage Cabinet	2,212.26	17.26
			<i>For 4" High Legs, Add</i>	363.24	
			<i>For Galvanized Finish, Add</i>	301.00	
41 53 13 00-0004	EA		48" Width x 24" Depth x 78" Height, 16 Gauge, Welded Steel Storage Cabinet	2,308.23	17.26
			<i>For 4" High Legs, Add</i>	363.24	
			<i>For Galvanized Finish, Add</i>	301.00	
41 53 13 00-0005	EA		60" Width x 24" Depth x 78" Height, 16 Gauge, Welded Steel Storage Cabinet	3,013.51	17.26
			<i>For 4" High Legs, Add</i>	363.24	
			<i>For Galvanized Finish, Add</i>	395.00	
41 53 13 00-0006	EA		36" Width x 24" Depth x 78" Height, 14 Gauge, Welded Steel Storage Cabinet	2,283.68	17.26
			<i>For 4" High Legs, Add</i>	363.24	
			<i>For Galvanized Finish, Add</i>	395.00	
41 53 13 00-0007	EA		48" Width x 24" Depth x 78" Height, 14 Gauge, Welded Steel Storage Cabinet	2,384.12	17.26
			<i>For 4" High Legs, Add</i>	363.24	
			<i>For Galvanized Finish, Add</i>	395.00	
41 53 13 00-0008	EA		60" Width x 24" Depth x 78" Height, 14 Gauge, Welded Steel Storage Cabinet	3,109.49	17.26
			<i>For 4" High Legs, Add</i>	363.24	
			<i>For Galvanized Finish, Add</i>	395.00	

41 53 13 00-0009 Plastic Storage Cabinets (41 53 13)

41 53 13 00-0010	EA		36" Width x 22" Depth x 46" Height, Plastic Storage Cabinet	793.83	17.26
			Note: Includes 2 adjustable shelves.		
41 53 13 00-0011	EA		36" Width x 22" Depth x 72" Height, Plastic Storage Cabinet	984.68	17.26
			Note: Includes 4 adjustable shelves.		

END OF SECTION 41



Process Gas and Liquid Handling, Purification, and Storage Equipment		43
Common Work Results for Process Gas and Liquid Handling, Purification, and Storage Equipment		43 05
Common Work Results for Gas Handling Equipment		43 05 10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 05 Common Work Results for Process Gas and Liquid Handling, Purification, and Storage Equipment ⁽⁴³⁾

43 05 10 Common Work Results for Gas Handling Equipment ^(43 05)

43 05 10 00-0001	Compressed Natural Gas Monitoring And Detection System ^(43 05 10)		
43 05 10 00-0002	EA	ISS Ethersense Controller and Display (Integrated Sensing Solutions 801-000-1340)	54,103.19
43 05 10 00-0003	EA	Controller with Timed-Delay Relay Input/Output Box (6 TD, 4 In, 4 Out) (Integrated Sensing Solutions 700-010-0200)	10,350.53
43 05 10 00-0004	EA	Gas Monitor transmitter low explosive limit and carbon monoxide (Integrated Sensing Solutions 000-000-0102)	9,375.97
43 05 10 00-0005	EA	Gas Monitor transmitter nitrous oxide (Integrated Sensing Solutions 000-000-0300)	7,986.99
43 05 10 00-0006	EA	Audio Horn/Visual Alarm, 24 Volt DC, Red Lens (Integrated Sensing Solutions 820-010-0015R)	5,976.17
43 05 10 00-0007	EA	Remote Cal Manifold, Single (Integrated Sensing Solutions 740-500-0001)	4,113.15
43 05 10 00-0008	LF	Tubing Poly Urethane, 1/8 ID x 1/4 OD Black (Integrated Sensing Solutions 000-400-0500-B)	57.66
43 05 10 00-0009	LF	Tubing Poly Urethane, 1/8 ID x 1/4 OD Blue (Integrated Sensing Solutions 000-400-0500-BL)	57.66
43 05 10 00-0010	EA	EtherSense RCS controller (auto calibration capabilities not part of this base package) (Integrated Sensing Solutions 840-100-1102)	23,713.00
43 05 10 00-0011	EA	Junction Box, Steel, No Cutouts, 15 TB, internal terminals (Integrated Sensing Solutions 700-001-0003)	2,345.66
43 05 10 00-0012	EA	Relay for control of roll up doors, EF, gas valve bypass (Veris H932)	2,712.72
43 05 10 00-0013	EA	Control Panel, indoor rated (Hoffman A24N24BLP)	3,095.19
43 05 10 00-0014	EA	Low Voltage Transformer, multiple circuit capability (Functional Devices PSH100AB10)	2,759.58
43 05 10 00-0015	EA	Autocalibration Add-On Package with internal pump controller, upgraded manifold (Integrated Sensing Solutions 700-300-1101)	79,519.69
43 05 10 00-0016	EA	RCS, Zero Gas with Manifold Regulator (Integrated Sensing Solutions 700-300-0001)	21,499.66
43 05 10 00-0017	EA	RCS, Span Gas with Manifold Regulator (Integrated Sensing Solutions 700-300-0100)	21,499.66
43 05 10 00-0018	EA	Position Indicator (Anixter 2507-AL)	2,048.64
43 05 10 00-0019	EA	Differential Pressure Switch (Dwyer MS2-D102)	2,269.55

43 05 10 00-0020	Compressed Natural Gas Monitoring And Detection System (Det-Tronics) ^(43 05 10)		
43 05 10 00-0021	EA	Wall Mount Enclosure with window cutout and print and HOAs (Det-Tronics 000001-848)	31,004.72
43 05 10 00-0022	EA	Eagle Quantum System Controller Node 246 (Det-Tronics 007609-063)	39,623.14
43 05 10 00-0023	EA	Enhanced Discrete Input/Output (EDIO) Module (Det-Tronics 009174-003)	11,972.65
43 05 10 00-0024	EA	EQ2100PSM Power Supply Monitor won board addressing (Det-Tronics 006979-001)	7,427.23
43 05 10 00-0025	EA	Wall Mount Enclosure with NEMA 4, IP66 rating (Det-Tronics)	7,663.44
43 05 10 00-0026	EA	EQ2110PS Battery Charger/Power Supply, NFPA compliant, 10 Amperes At 24 Volt DC (Det-Tronics 000604-013)	22,004.98
43 05 10 00-0027	EA	Wall Mount Bracket to use with EQ2120PS, steel painting (Det-Tronics 000508-024)	5,034.73
43 05 10 00-0028	EA	Battery Backup, leadacid top post, 100Ahr (Det-Tronics 000508-035)	3,300.25
43 05 10 00-0029	EA	Battery Enclosure for up to 2 batteries, filtered vents, indoor rated only, latching door (Det-Tronics 000505-046)	5,891.84
43 05 10 00-0030	EA	Safety System Software (S3), diagnostic tools, version 60 node, usb key and RS232 cable (Det-Tronics 007800-011)	14,709.37
43 05 10 00-0031	EA	Remote Display (English) in Enclosure, multiple 20-character lines, reset function, silence function (Det-Tronics 000506-029)	4,903.12
43 05 10 00-0032	EA	Auto Dialer - Voice Message Type (Det-Tronics 000515-179)	975.23
43 05 10 00-0033	EA	PIRECLA4D1W2 PointWatch Eclipse IR Gas Detector, hydrophobic filtered, HART port (Det-Tronics 010195-043)	13,531.67
43 05 10 00-0034	EA	UD10A5N28W2 UD10 Universal Display, DCU emulator, FM/CSA/ATE.X/CE/IECEX (Det-Tronics 010765-006)	9,097.59
43 05 10 00-0035	EA	GTMSN26W5 GTX Toxic Gas Transmitter, FM/CSA/ATEX/CE/IECEX, ex proof, HART (Det-Tronics 009480-003)	3,121.40
43 05 10 00-0036	EA	GTSNO220PC Toxic Gas Sensor Module, FM/CSA/ATE.X/CE/IECEX (Det-Tronics 009471-016)	3,121.40
43 05 10 00-0037	EA	GTSCO100PWD Toxic Gas Sensor Module, DNV (Det-Tronics 009471-510)	3,603.94
43 05 10 00-0038	EA	Horn, 28 tone-selectable, stainless steel bracket, diode polarized (Det-Tronics 000121-381)	4,599.42
43 05 10 00-0039	EA	Strobe, xenon type, 15 joule, 60 flashes/min, with wire guard (Det-Tronics 000121-155)	4,467.81

43 05 10 00-0040	Compressed Natural Gas Monitoring Extended Warranty ^(43 05 10)		
43 05 10 00-0041	EA	1 Year Extended Warranty; Gas Detection System (Integrated Sensing Solutions 100-100-0001)	11,060.28
43 05 10 00-0042	EA	2 Year Extended Warranty; Gas Detection System (Integrated Sensing Solutions 100-100-0002)	21,258.72
43 05 10 00-0043	EA	3 Year Extended Warranty; Gas Detection System (Integrated Sensing Solutions 100-100-0003)	30,547.44
43 05 10 00-0044	EA	4 Year Extended Warranty; Gas Detection System (Integrated Sensing Solutions 100-100-0004)	38,974.32
43 05 10 00-0045	EA	5 Year Extended Warranty; Gas Detection System (Integrated Sensing Solutions 100-100-0005)	44,241.12
43 05 10 00-0046	EA	Mobile Service (Each Trip To LA); Gas Detection System (Integrated Sensing Solutions 18000004 ISS)	4,788.00

43 20 Liquid Handling Equipment ⁽⁴³⁾

43 23 Dry Location Liquid Pumps ^(43 20)

43 23 78 Controlled Volume Horizontal Reciprocating Pumps ^(43 23)

43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps ^(43 23 78)

43 23 78 31-0001 Diaphragm Pump ^(43 23 78 31)

43	43	Process Gas and Liquid Handling, Purification, and Storage Equipment
	43 20	Liquid Handling Equipment
	43 23	Dry Location Liquid Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

43 23 78 31-0002
EA
28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI.....
5,083.86

43 24
Suspended Liquid Pumps
(43 20)

43 24 41
Archimedes Screw Pumps
(43 24)

43 24 41 23
Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps
(43 24 41)

43 24 41 23-0001
Positive Displacement Pump
(43 24 41 23)
43 24 41 23-0002
EA
25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing.....
4,177.49

43 40
Gas and Liquid Storage
(43)

43 42
Pressurized Tanks And Vessels
(43 40)

43 42 41
Metallic Specialty Pressure Tanks
(43 42)

43 42 41 00-0001
L.P.G. Tanks With Regulator And Safety Controls
(43 42 41)
43 42 41 00-0002
EA
250 Gallon Aboveground LP Gas Storage Tank.....
2,264.17
140.13
43 42 41 00-0003
EA
500 Gallon Aboveground LP Gas Storage Tank.....
4,191.60
210.20
43 42 41 00-0004
EA
1,000 Gallon Aboveground LP Gas Storage Tank.....
6,006.94
224.20

END OF SECTION 43



Water And Wastewater Equipment		46	46
Water and Wastewater Chemical Feed Equipment		46 30	
Gas Chemical Feed Equipment		46 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

46 Water And Wastewater Equipment

46 30 Water and Wastewater Chemical Feed Equipment ⁽⁴⁶⁾

46 31 Gas Chemical Feed Equipment ^(46 30)

46 31 11 Chlorine Gas Feed Equipment ^(46 31)

46 31 11 00-0001 ChlorTainer (TGO Technologies, Inc.) ^(46 31 11)

46 31 11 00-0002	EA	1.0 Ton ChlorTainer With 2 Bolt Chain Drive Door	255,368.61
46 31 11 00-0003	EA	1.0 Ton ChlorTainer With 2 Bolt Electronic Closure Door	293,530.41
46 31 11 00-0004	EA	Spare Parts Kit For 1.0 Ton ChlorTainer	15,910.87
46 31 11 00-0005	EA	Pressure Switch For 1.0 Ton ChlorTainer	2,655.18

END OF SECTION 46

46	46	Water And Wastewater Equipment
	46 30	Water and Wastewater Chemical Feed Equipment
	46 31	Gas Chemical Feed Equipment



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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